

**Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution**

<b>S.No.</b>	<b>Programme Code</b>	<b>Programme name</b>	<b>Department Name</b>
1.	MAJACRAPR	M.A in Jainology and Comparative Religion & Philosophy	Jainology and Comparative Religion & Philosophy
2.	MAPKTR	M.A.Prakrit	Prakrit and Sanskrit
3.	MASKTR	M.A.Sanskrit	
4.	MAHINDIR	M.A. Hindi	
5.	MAYASOLR	MA Yoga and Science of Living	Yoga and Science of Living
6.	MSWR	Master of Social Work	Social Work
7.	MAENGR	M A English	English
8.	MANVPR	M.A. in Nonviolence and Peace	Nonviolence and Peace
9.	MAPOLSCR	M.A. in Political Science	
10.	BEDR	B.Ed.	Education
11.	MEDR	M.Ed.	
12.	BABEDR	B.A.-B.Ed.	
13.	BSCBEDR	B.Sc.-B.Ed.	
14.	BCOMR	B.COM	Acharya Kalu Kanya Mahavidyalaya (Constituent College)
15.	BAR	B.A.	
16.	BSCR	B.Sc.	

# **Objective and Outcomes of the Courses of Department of Jainology and Comparative Religion & Philosophy**

## **M.A in Jainology and Comparative Religion & Philosophy (MJP)**

### **Objectives**

- To have the wholistic knowledge about Jainism
- To understand that how Jainism can help in eradicating problems of current Era
- To have comparative knowledge of World religions and Philosophies

### **Programme Outcomes**

- They will get expertise on Jainism
- They will able to understand the importance and relevance of Jain Cannons
- They will get wholistic approach regarding philosophy
- They able to see the difference between Religion & Philosophy

### **Semester –I Core Compulsory Paper**

Course code- MJP 101 Jain History and Culture

#### **Objectives -**

- To appreciate the importance and relevance of studying Jain history.
- To trace the evolution of Jain art, architecture, festivals and rituals over the years.
- To describe about Jain Culture.

#### **Course Outcomes:**

- The students will have a better understanding of Jain history and culture.
- The students would develop on non- absolute approach.
- Knowing about Jain art and architecture would help them to join architecture or finding a job in tourism.

### **Semester –I Core Compulsory Paper**

Course code- MJP 102 Jain Metaphysics

#### **Objectives -**

- To understand the concept of reality, quality and mode.
- To establish the link between six substances and cosmos.
- To discuss the role and impact of atom and soul.

#### **Course Outcomes:**

- To develop holistic approaches about six substances.
- To understanding the Jain view about cosmos.
- Can apply the knowledge of six substances into scientific research.

## **Semester –1 Core Compulsory Paper**

Course code- MPJ 103 Jain Ethics

### **Objectives -**

- To describe the concept of Shramanachar.
- To list the different types of Jain ethical principles.
- To examine the rich literary heritage of Jain ethics.

### **Course Outcomes:**

- To appreciate the relevance of Jain Ethics in today's world.
- The students will apply the knowledge in the future life to build a healthier society.
- They can create Anuvratee.

## **Semester –I Core Elective Paper- I**

Course Code -MJP 104 Religious Classics of Jainism

### **Objectives -**

- To assess the role of Jain canons.
- To describe the concept of soul and re-birth.
- To elaborate the main characteristics of Acharanga, Suttrakritanga and Samayasar.

### **Course Outcomes:**

- They will have a better outlook about Jain canons.
- Understanding Sadjiva Nikaya would make them better non-violent towards this.
- Studying Suttrakritanga would make them familiar with other philosophies.

## **Semester- I Core Elective Paper- II**

Course Code- MPJ 105 Methods of Translation and Interpretation

### **Objectives :**

- To describe the method of translation interpretation and analysis.
- To examine the method of textual introduction.

### **Course Outcomes:**

- The students will be efficient in translation and interpretation.
- An Interdisciplinary approach will develop.
- They can easily work in the linguistic field.

## **Semester –I Core Foundation Paper**

Course Code- JVB 101 Non-violence and peace

### **Objectives -**

- To study the concept types and its impact of Non-violence in their day to day activities.
- To trace the techniques of Anekant, and its impact on human nature relationship.

**Course Outcomes:**

- The students would gain a philosophical and historical interpretation of Non-violence.
- They can train others in Non –violence.
- They can take initiative for peace-making.

**Semester –I Core Foundation Paper**

Course Code- JVB 102 Introduction to Jainism

**Objectives :**

- To appreciate the importance of studying Jaina history.
- To know about the Jaina principles.
- To describe about Jaina sects and festivals.

**Course Outcomes:**

- The students would have overall knowledge about Jain History and culture.
- They can apply their view of the Environment to protect it.
- They can train others in Jain Life Style.

**Semester-II Core Compulsory Paper**

Course Code- MJP 201 Jain Epistemology

**Objectives -**

- To trace the origin and development of Jain epistemology.
- To describe the various types of knowledge as per in the agamas.
- To understand the concept of knowledge in Indian philosophy.

**Course Outcomes:**

- The students will acquire deep knowledge in Jain Epistemology.
- They will gain a comparative outlook of Jain philosophy with other Indian philosophies.
- They will themselves familiarise with different types of knowledge.

**Semester –II Core Compulsory Paper**

Course Code- MJP 202 Jain Theory of Karma

**Objectives -**

- To develop an awareness of the concept of karma.
- To recognize the importance of karma on the basis of spirituality.

**Course Outcomes:**

- Students will develop a scientific approach to karma.
- They can do a workshop on Karmic Philosophy.
- They will deal with any problem knowing its Karmic association.

## **Semester -II Core Compulsory Paper**

Course code- MJP 203 Indian philosophy

### **Objectives -**

- To study the general principles and basic features of Indian philosophy.
- To understand the brief sketch of each system which will give the students a bird's eye-view of the entire field.

### **Course Outcomes:**

- It will create an interest in Indian Philosophy.
- It will strengthen their outlook on different philosophies.
- They will engage in philosophical thinking.

## **Semester -II Core Elective Paper-I**

Course code- MJP 204 Jain Meditation and Yoga

### **Objectives -**

- To develop awareness of the types of meditation and its impact.
- To illustrate the concept of yoga in different philosophies.

### **Course Outcomes:**

- Students will acquaint with different types of yoga.
- They will know the benefit of it in modern life.
- They can use this knowledge by joining the yoga centre.

## **Semester -II Core Elective Paper-II**

Course Code MPJ 205 Kavyashastriya Siddhanta

### **Objectives -**

- Merits, demerits, Riti, Alankar of Kavya are discussed in "Sahitya Darpan".
- Beauty and intention of poet can be recognised from "Kavya Shastra".

### **Course Outcomes:**

- It will create a literary sense in students.
- They can appreciate critically any kind of literary text.

## **Semester-II Core Elective Paper-III**

Course Code- MJP 206 Dimension of Religion

### **Objectives -**

- To assess the practical aspect of religion.
- To elaborate the concept of myth tradition.

### **Course Outcomes:**

- The students will be familiar with the practical aspects of religion.
- The students will promote Non-violent culture.

- They will promote harmony among religions.

### **Semester-II Core Open Elective-I**

Course Code- JVB 201 Value Educations and Spirituality

#### **Objectives**

- To understand the need of value oriented education.
- To understand the process of contemplation for value development.
- To understand the non-violence and culture of peace.
- To understand the cardinal principles of Jainism.

#### **Course Outcomes:**

- The student will be able to face challenges of the modern education system.
- They will be more efficient in performing social duties.
- They can use contemplation for the development of mental values.

### **Semester- II Core Open Elective-II**

Course Code- JVB 202 Informational Technology and Computer Application

#### **Objectives -**

- It will expose the students to the fundamentals of the IT.
- Students will be having the introductory knowledge of the MS-Windows
- Practically students will be able to use MS-PowerPoint, MS-Word, MS-Excel and create their own blog.

#### **Course Outcomes:**

- It will help the students to create their blog.
- They will apply the knowledge of IT practically in their day to day life.
- They will be able to create well formatted documents, attractive presentation through excel.

### **Semester -II Core Open Elective-III**

Course Code- JVB 203 Preksha Meditations and Self-Management

#### **Objectives**

- To understand historical development of Preksha Meditation.
- To understand the components, spiritual-scientific basis, objectives and benefits of Preksha Meditation.
- To introduce the practical's & process of Preksha Meditation.

#### **Course Outcomes:**

- The students will know all the pros and cons of preksha meditation.
- They can practically apply the techniques to deal with a physical or psychological problem.

- They can train others too.
- They can initiate a self-management course.

### **Semester -II Core Open Elective-IV**

Course Code- JVB 204 The use of English

#### **Objectives -**

- To describe about basic tenants of English language comprising grammar and composition.
- To develop the writing skills of student.

#### **Course Outcomes:**

- It will increase the writing skill of students.
- It will increase the speaking skill of students.
- It will familiarize them with basic tenants of the English Language

### **Semester-II Core Open Elective-VI**

Course Code- JVB 206 Introduction to Prakrit

#### **Objectives -**

- To trace the origin and development of Prakrit.
- To study the basic features of Prakrit on the basis of Uttarajjhayanani Agam.

#### **Course Outcomes:**

- It will enable students to have a basic knowledge of Prakrit language
- It will give them a basic idea of Prakrit literature.
- It will create an interest in studying Orientals language.

### **Semester-II Core Open Elective-VII**

Course Code- JVB 207 Social work Themes and Practice

#### **Objectives**

- To acquire a clear understanding of social work concept and its application in social work profession.
- To gain knowledge about social work practice methods.
- To understand scope and settings of social work practice.

#### **Course Outcomes:**

- Understanding of concepts, the nature of professional social work will be created in students.
- Students can apply this knowledge by joining NGOs.
- It will develop practical skills by through social work practice.

### **Semester -III Core Compulsory Paper**

Course Code- MJP 301 Jain Logic

#### **Objectives -**

- To trace the evolution of Jain logic.
- To recognize the contribution of Acharaya Hemachandra for the development of Jaina logic
- To point out the important components of Jaina logic.

#### **Course Outcomes:**

- It will help students to appreciate the contribution of Hemchandra on Jain Logic.
- Students will have a better understanding of non-perceptual knowledge.
- Students will acquire a comparative outlook on various branches of logic.

### **Semester -III Core Compulsory Paper**

Course Code- MPJ 302 Anekantavada, Syadvad and saptabhangi

#### **Objectives -**

- To point out the importance of anekanta and its wider applications.
- To trace the evolution of naya and nikshep.
- To describe the utility of saptabhangi.

#### **Course Outcomes:**

- Students can apply Anekanta in day to day life.
- Students can appreciate the contribution of Acharya Siddhsena.
- Students can compare the concepts of Anekanta in different schools.

### **Semester-III Core Compulsory Paper**

Course code- MJP 303 western philosophy

#### **Objectives**

- To trace the growth of western philosophers
- To recognize contribution of greek philosophers.
- To identify the main characteristics and various modern philosophers at different time period.

#### **Course Outcomes:**

- It will help students to have a better understanding of western philosophy.
- Students can compare it with oriental philosophy.
- Students can apply these philosophies in Morden times.

### **Semester-III Core Elective Paper-I**

Course Code- MJP 304 Jain Philosophy of language



**Objectives -**

- To recognise the contribution of Jain, India and Western to the development of Philosophy of language.
- To trace the development of language.
- To point out the importance of philosophy of word and sentence.

**Course Outcomes:**

- It will help students to trace the development of language.
- Students will acquire proficiency in grammar and linguistics.
- Students can use this knowledge in higher education

**Semester -III Core Elective Paper-II**

Course Code- MJP 305 Indian Logic

**Objectives -**

- To familiarize learners with various aspects of the Indian logic.
- To acquaint learners with the contribution of direct and indirect knowledge in Indian

**Course Outcomes:**

- Students can have a better understanding of Indian Logic
- It will engage them in philosophical thinking.
- Students can comparatively study Logic.

**Semester -III Core Elective Paper-III**

Course Code- MJP 306 western Logic

**Objectives**

- To get acquainted with Western Logic
- To solve the Philosophical queries in systematic way

**Course Outcomes:**

- Students can solve philosophical problems by using Western Logic.
- Students can use Tests of Validity in day to day life.
- Students can use Venn diagrams in various projects.

**Semester-III Core Open Elective- I**

Course Code- MJP 307 Contemporary Indian Philosophy

**Objectives -**

- To trace the rise of philosophy.
- To appreciate the efforts of the contemporary philosophers to make their society enlightened.

**Course Outcomes:**

- Students can enhance their knowledge.
- Students can appreciate modern thinkers' contributions to society.
- Students can inculcate moral values through studying the lives of such philosophy.

**Semester- III Core Open Elective- II**

Course Code- MJP 308 Environmental Ethics and Sustainable development

**Objectives-**

- To study the concept of human ecology.
- To explain the factors of Environmental Degradation.
- To discuss the contribution of the various religion towards environmental ethics.

**Course Outcomes:**

- It will make students aware of various environmental problems.
- It can inspire students to use environmental ethics to protect them.
- It will generate in students an urge to keep sustainable development.

**Semester- III Core Open Elective- III**

Course Code- MJP 309 Prakrit Abhilekh

**Objectives-**

- To know the importance of Inscriptions.
- To understand the meaning and studying style of inscriptions.

**Course Outcomes:**

- Students will know the importance of Inscriptions.
- Students can be able to study Inscriptions.
- Students can work in the historical department.

**Semester-III Core Open Elective- IV**

Course Code- MJP 310 Jain Geography

**Objectives -**

- To understand the concept of Jain geography.
- To know the division of major sections of cosmos.

**Course Outcomes:**

- Students will know the concept of Jain Geography.
- Students can compare this knowledge with scientific study.

**Semester-IV Core Compulsory Paper**

Course Code- MJP 401 Dissertations

## **Objectives**

- To develop the research oriented mind
- To know the skill of research

## **Course Outcomes:**

- It will help students to know about Research Methodology.
- It will help them in further research work.
- It will increase their logical creative and scientific.

## **Semester-IV Core Compulsory Paper**

Course Code- MJP 402 Classics of Jain Philosophy –Saman Suttam

## **Objectives**

- To elaborate the concept of path of illumination.
- To explain the theory of Relativity.

## **Course Outcomes:**

- Students can elaborate precepts on religion and vigilance.
- Students can have a better understanding of the path of liberation.
- Students can make a comparative studies on the theory of karma.

## **Semester-IV Core Compulsory Paper**

Course Code- MJP 403 Introduction to Asian Religions

## **Objectives-**

- To understand the concept of Asian Religions
- To describe the distinctive features of God, Word, etc. of different religions.

## **Course Outcomes:**

- It will give students an overall estimation of Asian Religion.
- Students can examine the similarities in a different schools of religion.
- Students can create a harmonious outlook on every religion.

## **Semester-IV Core Elective Paper-I**

Course Code- MJP 404 Research Methodology

## **Objectives-**

- To understand the concept of Research and its various types.
- To understand the role and impact of research in human life.

## **Course Outcomes:**

- Students will acquaint with different types of research.
- Students can use methods of research in day to day life.

- Students can make the design of research.

### **Semester-IV Core Elective Paper-II**

Code- MJP 405 Manuscriptology

#### **Objectives-**

- To describe the distinctive features of Manuscripts.
- To identify the central points and uniqueness of manuscripts.
- To discuss the importance of studying Manuscripts.

Course Outcomes:

- Students can identify scripts.
- Students can select reading noting of variant emendations.
- Students can work in studying Manuscripts.

### **Semester-IV Core Open Elective Paper – I**

Course Code- MJP 406 science and spirituality in Jainism

#### **Objectives-**

- To understand the concept of science in Jainism
- To discuss spirituality in Jain Concepts

#### **Course Outcomes:**

- Students can scientifically interpret Jain Cosmology.
- Students can scientifically explain Jainism.
- Students can compare Jain Biology and Botany with modern science.

### **Semester-IV Core Open Elective Paper – II**

Course Code- MPJ 407 Health Management and Preksha Meditation

#### **Objectives-**

- To describe the concept of health and Preksha Meditation.
- To recognize the important contribution of Preksha Meditation on Health Management

#### **Course Outcomes:**

- Students can apply Preksha Meditation on the health issues.
- Students can open yoga centres.
- Students can understand various determinants of health.

### **Semester-IV Core Open Elective Paper-III**

Course Code- MJP 408 Jain Biology

#### **Objectives -**

- To acknowledge the biological concept in Jainism
- To know the scientific aspects of Jain Canons.

**Course Outcomes:**

- Students can understand Jain Basis of classification of living beings.
- Students can practice Jain medicinal approaches.
- Students can scientifically study Jain biology.

**संस्कृत एवं प्राकृत विभाग**  
**जैन विश्वभारती संस्थान, लाड़नूँ**  
**एम.ए. प्राकृत पाठ्यक्रम**  
**(2015)**  
**पाठ्यक्रम के उद्देश्य एवं उपलब्धियाँ**

उद्देश्य –

1. विद्यार्थियों को प्राकृत साहित्य के माध्यम ससे हमारी सांस्कृतिक धरोहर से परिचित करवाना।
2. विद्यार्थियों को प्राकृत साहित्य की विभिन्न विधाओं से अवगत करवाना।
3. विद्यार्थियों को भारतीय संस्कृति एवं जीवन मूल्यों से अवगत करवाना।
4. विद्यार्थियों को जैन संस्कृति और जीवन मूल्यों से परिचित करवाना।
5. विद्यार्थियों को भाषा एवं भाषा विज्ञान से परिचित करवाना एवं प्राकृत भाषा के स्वरूप एवं उसके विविध रूपों का ज्ञान करवाना।
6. विद्यार्थियों को शोध क्षेत्र का समग्र ज्ञान कराना।
7. विद्यार्थियों को पाण्डुलिपि विज्ञान एवं लिपियों की जानकारी देना।

**उपलब्धियाँ :**

1. विद्यार्थी पाठ्यक्रम में वर्णित कवियों से प्रेरणा लेकर स्वयं काव्य रचना हेतु प्रयास कर सकेंगे।
2. विद्यार्थी प्राकृत की विभिन्न शैलियों से परिचित हो सकेंगे।
3. विद्यार्थी काव्यशास्त्रीय अध्ययन में रूचि ले सकेंगे।
4. विद्यार्थी हमारी सांस्कृतिक धरोहर को सुरक्षित रखने में अपनी भूमिका का निर्वहन कर सकेंगे।
5. विद्यार्थी पाठ्यक्रम वर्णित सभी कवियों के काव्य से परिचित हो सकेंगे।
6. विद्यार्थी भाषा विज्ञान के स्वरूप, संरचना एवं महत्व को जान सकेंगे।
7. विद्यार्थी लोक संस्कृति के माध्यम से जीवन-मूल्यों को अपने जीवन में उतार सकेंगे।
8. विद्यार्थी प्राकृत के विस्तार से अवगत हो सकेंगे।
9. विद्यार्थी पाण्डुलिपियों के अनुवाद के स्वरूप क्षेत्र एवं सीमाओं से परिचित हो सकेंगे।
10. विद्यार्थी वैदिक एवं लौकिक साहित्य में वर्णित महत्त्वपूर्ण ज्ञान को ग्रहण कर, अपने जीवन को सोद्देश्य बना सकते हैं।

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एम.ए. प्राकृत पाठ्यक्रम  
(2015)

**Semester- I**

प्रश्न-पत्र कोड	प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
<b>अनिवार्य पत्र (Core Paper)</b>					
PKT 101	प्राकृत भाषा एवं साहित्य का इतिहास	100	70	30	4
PKT 102	प्राकृत व्याकरण, छन्द एवं अलंकारशास्त्र	100	70	30	4
PKT 103	अर्द्धमागधी आगम साहित्य	100	70	30	4
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>					
<i>नोट – छात्र को अ, ब, स और द, इन चार वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम सेमेस्टर में जो वर्ग चयनित होगा, वही आगे के सेमेस्टर में भी ग्राह्य होगा।</i>					
PKT 104	समूह-अ. शौरसैनी साहित्य समूह-ब. प्राकृत आचारपरक साहित्य समूह-स. आगमिक व्याख्या साहित्य समूह-द. संस्कृत साहित्य	100	70	30	4
<b>Foundation Paper</b>					
PKT 105	मूल्यपरक शिक्षा	100	70	30	4
<b>कुल अंक एवं क्रेडिट</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

**Semester- II**

प्रश्न-पत्र कोड	अनिवार्य पत्र (Core Paper) प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
PKT 201	प्राकृत साहित्य-प्रथम भाग	100	70	30	4
PKT 202	नाटक और सट्टक साहित्य	100	70	30	4
PKT 203	आगमिक दार्शनिक साहित्य	100	70	30	4
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>					
<i>नोट – छात्र को अ, ब, स और द, इन चार वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम</i>					

सेमेस्टर में जो वर्ग चयनित किया है, वही इस सेमेस्टर में भी ग्राह्य होगा।					
PKT 204	समूह-अ. शौरसैनी साहित्य समूह-ब. प्राकृत आचारपरक साहित्य समूह-स. आगमिक व्याख्या साहित्य समूह-द. संस्कृत साहित्य	100	70	30	4
<b>Foundation Paper</b>					
PKT 205	कम्प्यूटर अनुप्रयोग	100	70	30	4
कुल अंक एवं क्रेडिट		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

### Semester- III

प्रश्न-पत्र कोड	अनिवार्य पत्र (Core Paper) प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
PKT 301	प्राकृत अभिलेख	100	70	30	4
PKT 302	अपभ्रंश साहित्य	100	70	30	4
PKT 303	प्राकृत कथा एवं चम्पू साहित्य	100	70	30	4
PKT 304	प्राकृत दार्शनिक साहित्य	100	70	30	4
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>					
नोट - छात्र को अ, ब, स और द, इन चार वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम सेमेस्टर में जो वर्ग चयनित किया है, वही इस सेमेस्टर में भी ग्राह्य होगा।					
PKT 305	समूह-अ. शौरसैनी साहित्य समूह-ब. प्राकृत आचारपरक साहित्य समूह-स. आगमिक व्याख्या साहित्य समूह-द. संस्कृत साहित्य	100	70	30	4
कुल अंक एवं क्रेडिट		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

### Semester- IV

प्रश्न-पत्र कोड	अनिवार्य पत्र (Core Paper) प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
PKT 401	प्राकृत साहित्य-भाग 2	100	70	30	4
PKT 402	शोध प्रविधि एवं पाण्डुलिपि विज्ञान	100	70	30	4
PKT 403	लघुशोध प्रबन्ध	100	50	30	4
				20	
				Viva-	



	अथवा				voce	
	पालि साहित्य	100	70	30		4
PKT 404	भक्ति एवं मुक्तक साहित्य	100	70	30		4
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>						
<i>नोट – छात्र को अ, ब, स और द, इन चार वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम सेमेस्टर में जो वर्ग चयनित किया है, वही इस सेमेस्टर में भी ग्राह्य होगा।</i>						
PKT 405	समूह-अ. शौरसैनी साहित्य समूह-ब. प्राकृत आचारपरक साहित्य समूह-स. आगमिक व्याख्या साहित्य समूह-द. संस्कृत साहित्य	100	70	30		4
<b>कुल अंक एवं क्रेडिट</b>		<b>500</b>	<b>350</b>	<b>150</b>		<b>20</b>
<b>अंक एवं क्रेडिट का महायोग</b>		<b>2000</b>	<b>1400</b>	<b>600</b>		<b>80</b>

**एम.ए. सेमेस्टर-प्रथम**  
**अनिवार्य पत्र (CORE PAPER)**  
**प्रथम पत्र : प्राकृत भाषा एवं साहित्य का इतिहास**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत भाषा का ज्ञान कराना।</li> <li>● प्राकृत एवं संस्कृत के परस्पर सम्बन्ध को समझाना।</li> <li>● संस्कृत से प्राकृत में होने वाले स्वर परिवर्तन, विकार, संयुक्त-असंयुक्त व्यंजन परिवर्तन का ज्ञान कराना।</li> <li>● प्राकृत साहित्य की विशाल परम्परा का परिचय प्राप्त करते हुए उसके विभिन्न विधाओं की जानकारी प्राप्त करना</li> </ul>	<ul style="list-style-type: none"> <li>● विद्यार्थियों को भारतीय संस्कृति का ज्ञान हुआ।</li> <li>● प्राचीन भाषा एवं साहित्य के माध्यम से जीवन मूल्यों का विकास।</li> <li>● प्राकृत साहित्य में निहित दर्शन को समझना।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-प्रथम**  
**अनिवार्य पत्र (CORE PAPER)**  
**द्वितीय पत्र : प्राकृत व्याकरण, छन्द एवं अलंकार शास्त्र**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत व्याकरणों की परम्परा और प्राकृत हेमशब्दानुशासन का स्थान स्पष्ट करना।</li> <li>● सूत्र शैली को स्पष्ट करना।</li> <li>● छन्दों के वैशिष्ट्य से परिचय करवाना।</li> <li>● अलंकार के वैशिष्ट्य से परिचय करवाना।</li> </ul>	<ul style="list-style-type: none"> <li>● प्राकृत व्याकरण के विषय की विशदता, स्पष्टता एवं शैली की सुबोधता से अवगत करवाया गया।</li> <li>● प्राकृत व्याकरणों एवं व्याकरण दोनों का परिचय करवाया गया।</li> <li>● छन्दों के माध्यम से साहित्य लेखन का ज्ञान</li> <li>● अलंकारों के माध्यम से भाषा की उत्कृष्ट बनाना।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-प्रथम**  
**अनिवार्य पत्र (CORE PAPER)**  
**तृतीय पत्र : अर्द्धमागधी आगम साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● अर्द्धमागधी आगमों की भाषा-शैली से परिचित होना।</li> <li>● मूल सूत्रों का ज्ञान कराना।</li> <li>● तत्कालीन समाज एवं संस्कृति से अवगत कराना।</li> <li>● आचारशास्त्र से परिचय कराना।</li> <li>● भाषा-विवेक को जागृत करना।</li> <li>● अहिंसा एवं संयम से सम्बन्धित सिद्धान्तों से परिचय करना।</li> </ul>	<ul style="list-style-type: none"> <li>● अर्द्धमागधी आगमों की भाषा शैली से परिचय कराया गया।</li> <li>● सावध एवं निरवद्य भाषा के प्रयोगों से अवगत करवाया।</li> <li>● तात्कालीन समाज एवं संस्कृति, जैसे क्रियाकाण्ड, दान की महिमा आदि का ज्ञान करवाया गया।</li> <li>● आचार शास्त्रीय तथ्यों से परिचित किया गया।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-प्रथम**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**चतुर्थ पत्र : शौरसेनी साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● कुन्दकुन्द के अध्यात्म एवं आचार सम्बन्धी साहित्य से परिचय कराना।</li> <li>● पंचास्तिकाय के स्वरूप से अवगत कराना।</li> <li>● निश्चय नय एवं व्यवहार नय के स्वरूप को स्पष्ट करना।</li> <li>● शौरसेनी आगम साहित्य की शैली से परिचित होना।</li> </ul>	<ul style="list-style-type: none"> <li>● आचार्य कुन्दकुन्द के जीवन-परिचय से अवगत करवाया गया।</li> <li>● शौरसेनी आगम साहित्य की भाषा शैली का ज्ञान हुआ।</li> <li>● कुन्दकुन्दाचार्य के साहित्य से परिचित हुए।</li> <li>● नय के स्वरूप में विशेषतः निश्चय एवं व्यवहार नय का ज्ञान हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर—प्रथम**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**चतुर्थ पत्र : प्राकृत आचारपरक साहित्य**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● श्रमण के आवश्यक धार्मिक कृत्यों—सामायिक, चतुर्विंशतिस्तव, वंदना, प्रतिक्रमण, कायोत्सर्ग, प्रत्याज्यान का ज्ञान करना।</li> <li>● षडावश्यक के स्वरूप को विस्तार से समझाना।</li> <li>● आचार्य वट्टकेर की रचना शैली से अवगत करवाना।</li> </ul>	<ul style="list-style-type: none"> <li>● षडावश्यक के स्वरूप को विस्तृत रूप से परिज्ञान हुआ।</li> <li>● मूलाचार ग्रंथ की विषयवस्तु से परिचित हुए।</li> <li>● आचार्य वट्टकेर के जीवन परिचय से अवगत हुए।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर—प्रथम**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**चतुर्थ पत्र : आगमिक व्याख्या साहित्य**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● आगम सम्बन्धी व्याख्या साहित्य से परिचय कराना।</li> <li>● आगमों एवं व्याख्या साहित्य में निहित समाज—संस्कृति आदि का ज्ञान कराना।</li> <li>● निर्युक्ति, भाष्य, चूर्णि एवं टीका के स्वरूप को समझाना।</li> <li>● व्याख्यकारों के जीवन एवं वैदुष्य आदि से परिचित कराना।</li> </ul>	<ul style="list-style-type: none"> <li>● विविध व्याख्यासाहित्य का परिज्ञान हुआ।</li> <li>● जैनाचार्यों के पाण्डित्य का ज्ञान हुआ।</li> <li>● निर्युक्ति, भाष्य, चूर्णि, टीका की विषयवस्तु से अवगति हुई।</li> <li>● व्याख्या साहित्य जैसे निर्युक्ति, भाष्य आदि की भाषा शैली से परिचित हुए।</li> </ul>

प्राकृत  
एम.ए. सेमेस्टर-प्रथम  
ऐच्छिक पत्र (ELECTIVE PAPER)  
चतुर्थ पत्र : संस्कृत साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>संस्कृत भाषा का ज्ञान कराना।</li><li>संस्कृत साहित्य की विशाल परम्परा का परिचय प्राप्त करते हुए उसके विभिन्न विधाओं की जानकारी प्राप्त करना</li><li>काव्य विद्याओं से परिचय करवाना।</li><li>छन्द एवं अलंकार का ज्ञान कराना।</li></ul>	<ul style="list-style-type: none"><li>विद्यार्थियों को भारतीय संस्कृति का ज्ञान हुआ।</li><li>प्राचीन भाषा एवं साहित्य के माध्यम से जीवन मूल्यों का विकास।</li><li>संस्कृत साहित्य को पढ़ने से काव्य की अनेक विधाओं का परिचय प्राप्त हुआ।</li><li>काव्य में लय लाने के लिए छन्दों का ज्ञान हुआ।</li><li>अलंकार से काव्य-सौन्दर्य का अवबोध हुआ।</li></ul>

प्राकृत  
एम.ए. सेमेस्टर-प्रथम  
आधारभूत प्रश्न-पत्र (FOUNDATION PAPER)  
पंचम पत्र : मूल्यपरक शिक्षा  
क्रेडिट-4

**Objectives**

1. To understand the need of value oriented education.
2. To understand the process of contemplation for value development.

**Outcome**

1. Student make the life easier by moral education.
2. To make strong nation by moral education

**प्राकृत**  
**एम.ए. सेमेस्टर—द्वितीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**षष्ठ पत्र : प्राकृत साहित्य—प्रथम भाग**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत काव्य विद्या से परिचय कराना ।</li> <li>● काव्यकारों के इतिहास में—प्रवरसेन, रामपाणिवाद, जयवल्लभ के व्यक्तित्व एवं कर्तृत्व से अवगत करवाना ।</li> <li>● मुक्तक एवं स्तुति साहित्य के स्वरूप को समझाना ।</li> <li>● सेतुबन्ध, वज्जालगं एवं कंसवहो की विषयवस्तु को समझाना ।</li> </ul>	<ul style="list-style-type: none"> <li>● वज्जालगं में प्राप्त जीवन मूल्यों का परिज्ञान हुआ ।</li> <li>● प्राकृत काव्यविधाएं—मुक्तक काव्य, स्तुति काव्य, रूपक काव्य में अन्तर स्पष्ट हुआ ।</li> <li>● रामपाणिवाद, प्रवरसेन एवं जयवल्लभ की रचना शैली का विशेष ज्ञान हुआ ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर—द्वितीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**सप्तम पत्र : नाटक और सट्टक साहित्य**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● विविध प्राकृत के स्वरूप से परिचय कराना ।</li> <li>● शूद्रक की नाट्यशैली से अवगत करवाना ।</li> <li>● सट्टक साहित्य विधा से परिचित कराना ।</li> </ul>	<ul style="list-style-type: none"> <li>● तात्कालीन समय में बोली जाने वाले विविध प्राकृत भाषाओं का ज्ञान हुआ ।</li> <li>● उस समय के सामाजिक, राजनैतिक सांस्कृतिक तथ्यों का विशेष ज्ञान हुआ ।</li> <li>● प्रहसन, नाटक एवं सट्टक आदि में क्या क्या विशेषताएं हैं, इनका विशेष अवबोध हुआ ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर—द्वितीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**अष्टम पत्र : आगमिक दार्शनिक साहित्य**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● अर्द्धमागधी आगम साहित्य में दार्शनिक साहित्य का परिज्ञान कराना।</li> <li>● आचारांग में प्रतिपादित हिंसा के स्वरूप को व्याख्यायित करना।</li> <li>● सूत्रकृतांग में वर्णित महावीर कालीन विभिन्न वाद—क्रियावाद, अज्ञानवाद से अवगत कराना।</li> <li>● राजप्रश्नीयसूत्र में वर्णित आत्मा की सिद्धि से परिचय कराना।</li> </ul>	<ul style="list-style-type: none"> <li>● अर्द्धमागधी आगमों की रचना शैली का परिज्ञान हुआ।</li> <li>● महावीरकालीन विभिन्न वादों से अवगति हुई।</li> <li>● षड्जीवनिकास के स्वरूप को स्पष्टता से समझास गया।</li> <li>● शरीर और आत्मा की भिन्नता का सहेतुक ज्ञान प्राप्त हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर—द्वितीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**नवम पत्र : शौरसेनी साहित्य**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● शौरसेनी प्राकृत का ज्ञान कराना।</li> <li>● शौरसेनी प्राकृत साहित्य की रचना शैली से परिचय कराना।</li> <li>● 'बृहद्द्रव्यसंग्रह' ग्रंथ के माध्यम से षड्द्रव्य के स्वरूप को समझाना।</li> <li>● नेमिचन्द्र की रचनाओं एवं पाण्डित्य से परिचय कराना।</li> <li>● प्रवचनसार में प्रतिपादित ज्ञान एवं ज्ञान के भेदों से अवगत कराना।</li> </ul>	<ul style="list-style-type: none"> <li>● शौरसेनी प्राकृत साहित्य की भाषा शैली से अवगत हुए।</li> <li>● मौलिक सिद्धान्त से विशेषतः परिचित हुए।</li> <li>● जैन तत्त्व मीमांसा के विविध पक्षों का ज्ञान प्राप्त हुआ।</li> <li>● नेमिचन्द्र एवं कुन्दकुन्दाचार्य की अन्यान्य रचनाओं का परिज्ञान हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर—द्वितीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**नवम पत्र : प्राकृत आचारपरक साहित्य**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत आचारशास्त्रीय सिद्धान्तों से परिचित होना।</li> <li>● प्राकृत आचारपरक साहित्य—नियमसार एवं प्रश्नव्याकरण की विषयवस्तु का ज्ञान करना।</li> <li>● अंग आगमों में प्रश्नव्याकरण सूत्र के महत्त्व को प्रतिपादित करना।</li> <li>● रचियता एवं रचनाशैली से अवगत होना।</li> <li>● वर्णनीय विषय को स्पष्ट करना।</li> </ul>	<ul style="list-style-type: none"> <li>● नियमसार में प्रतिपादित जीव, अजीव, शुद्ध भाव, प्रतिक्रमण, आलोचना आदि का ज्ञान हुआ।</li> <li>● नियमसार एवं प्रश्नव्याकरण की विषयवस्तु का समग्रता से अवबोध हुआ।</li> <li>● कुन्दकुन्दाचार्य की विद्वता का परिज्ञान हुआ।</li> <li>● प्रदत्त ग्रंथों की रचनाशैली की जानकारी हुई।</li> <li>● संवर के स्वरूप का विशेषतः बोध हुआ।</li> </ul>

**प्राकृत**  
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**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**नवम पत्र : आगमिक व्याख्या साहित्य**  
**क्रेडिट—4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● व्याख्या साहित्य में निर्युक्तियों का महत्त्व स्पष्ट करना।</li> <li>● आवश्यकनिर्युक्ति के वैशिष्ट्य को प्रतिपादित करना।</li> <li>● प्राकृतागम व्याख्या साहित्य से परिचित कराना।</li> <li>● रचना एवं रचनाकार का अवबोध देना।</li> </ul>	<ul style="list-style-type: none"> <li>● ज्ञान के प्रकारों से परिचय कराया गया।</li> <li>● वर्णनीय विषय में कुलकर, तीर्थकर, चक्रवर्ती आदि के माहात्म्य को स्पष्ट किया गया।</li> <li>● निर्युक्तियों में आवश्यक निर्युक्ति का स्थान समझाया गया।</li> <li>● निर्युक्तिकार के व्यक्तित्व एवं कर्तृत्व का परिज्ञान हुआ।</li> </ul>



प्राकृत  
एम.ए. सेमेस्टर—द्वितीय  
ऐच्छिक पत्र (ELECTIVE PAPER)  
नवम पत्र : संस्कृत साहित्य  
क्रेडिट—4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>संस्कृत वैयाकरणों में वरदराज के जीवन परिचय एवं उनकी रचना से परिचय कराना।</li><li>संधि के निर्माण की प्रक्रिया को बताना।</li><li>स्त्री प्रत्यय, तद्धित एवं कृदन्त प्रकरण की महत्ता को स्पष्ट कराना।</li></ul>	<ul style="list-style-type: none"><li>संस्कृत व्याकरणों में लघुसिद्धान्तकौमुदी की रचनाशैली एवं महत्त्व का परिज्ञान हुआ।</li><li>व्याकरण की विविध शाखाओ—संज्ञा, सन्धि, कारक, तद्धित, कृदन्त आदि का अवबोध हुआ।</li><li>दैनिक जीवन में होने वाले प्रयोगों से अवगत करवाया गया।</li></ul>

प्राकृत  
एम.ए. सेमेस्टर—द्वितीय  
आधारभूत प्रश्न—पत्र (FOUNDATION PAPER)  
दशम पत्र : कम्प्यूटर अनुप्रयोग  
क्रेडिट—4

**Objectives:**

- It will expose the students to the fundamentals of the IT.
- Students will be having the introductory knowledge of the MS-Windows
- Practically students will be able to use MS-PowerPoint, MS-Word, MS-Excel and create their own blog.

**Outcome:**

- Students will apply the knowledge of IT practically in their day-to-day life.
- Students will be able to create well-formatted documents, attractive presentations and calculation part through excel.
- Students will be able to create their own blog.

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**एकादश पत्र : प्राकृत अभिलेख**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• प्राकृत की रचना विद्याओं में अभिलेखों से परिचय करवाना।</li><li>• अभिलेखों के माध्यम से पुरातत्त्व सम्बन्धी अध्ययन के प्रति जागृत करना।</li></ul>	<ul style="list-style-type: none"><li>• प्राचीन संस्कृति का परिज्ञान हुआ।</li><li>• प्राचीन लेखन परम्परा का सम्यक् ज्ञान हुआ।</li><li>• लिपि और भाषा में क्या अन्तर है, स्पष्ट हुआ।</li><li>• प्राचीन अभिलेखों से विशेष रूप से धार्मिक एवं राजनैतिक तत्त्वों का ज्ञान हुआ।</li></ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**द्वादश पत्र : अपभ्रंश साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• अपभ्रंश भाषा का परिचय करवाना।</li><li>• अपभ्रंश साहित्य की परम्परा का ज्ञान करवाना।</li><li>• अपभ्रंश के प्रतिनिधि ग्रंथों का अध्ययन करवाना।</li></ul>	<ul style="list-style-type: none"><li>• अपभ्रंश भाषा से परिचय से आधुनिक भाषाओं के मूल को समझने में सहायता मिलती है।</li><li>• अपभ्रंश की समृद्ध परम्परा के ज्ञान के उपरान्त विद्यार्थी आधुनिक साहित्य परम्परा को समझ सकता है।</li><li>• अपभ्रंश के प्रतिनिधि ग्रंथों का परिचय करवाना।</li></ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**त्रयोदश पत्र : प्राकृत कथा एवं चम्पू साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>आठवीं शताब्दी के आचार्य हरिभद्रसूरि एवं उद्योतनसूरि के व्यक्तित्व एवं कर्तृत्व से परिचित होना।</li> <li>प्राकृत काव्यविद्याओं का परिज्ञान करना।</li> <li>प्राकृत कथा एवं चम्पू साहित्यों रचना शैली से अवगत कराना।</li> </ul>	<ul style="list-style-type: none"> <li>प्राकृत कथा एवं चम्पू साहित्य में "समराइच्चकहा" एवं "कुवलयमालाकहा" का वैशिष्ट्य प्रतिपादित हुआ।</li> <li>कथाओं के माध्यम से यह ज्ञात हुआ कि यदि क्रिया की प्रतिक्रिया होती है तो व्यक्ति इसी जन्म में नहीं अनेक जन्म में परिभ्रमण करता रहता है।</li> <li>कथाओं के भेद-प्रभेदों का ज्ञान हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**चतुर्दश पत्र : प्राकृत दार्शनिक साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>वर्णनीय विषय जैसे श्रावकाचार एवं हिंसाविवेक आदि परिचित करवाना।</li> <li>हरिभद्रसूरि के जीवन-वृत्त से अवगत होना।</li> <li>प्राकृत दार्शनिक साहित्यों में "सावयण्णत्ति" का महत्त्व प्रतिपादित करना।</li> <li>ग्रंथ की विषयवस्तु को समग्रता से स्पष्ट करना।</li> </ul>	<ul style="list-style-type: none"> <li>जैनाचार्यों में हरिभद्रसूरि की विद्वता का ज्ञान हुआ।</li> <li>गृहस्थ के अणुव्रतों का दैनिक जीवन में उपयोग करने का परिज्ञान हुआ।</li> <li>पंच अणुव्रतों से अहिंसा और विशेष रूप से पर्यावरण संरक्षण होने से जीवन का उत्कर्ष होता है, यह ज्ञान हुआ तथा स्वस्थ जीवन शैली से अवगत हुए।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**पंचदश पत्र : शौरसेनी साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● शौरसेनी प्राकृत साहित्यों में 'षट्खण्डागम' एवं 'बारस अणुवेक्खा' के महत्त्व को स्पष्ट करवाना।</li> <li>● आचार्य कुन्दकुन्द की रचनाओं से परिचय कराना।</li> <li>● अनित्य, अशरण आदि भावनाओं को समझाना।</li> <li>● आचार्य धरसेन के व्यक्तित्व एवं कर्तृत्व से अवगत कराना।</li> </ul>	<ul style="list-style-type: none"> <li>● बारस अणुवेक्खा के माध्यम से बारह अनुप्रेक्षाओं का सांगोपाग स्वरूप स्पष्ट हुआ।</li> <li>● नय-निक्षेप के द्वारा सम्यग्ज्ञान प्राप्त करने की विद्या से परिचय कराना।</li> <li>● दैनिक जीवन में अनुप्रेक्षाओं का प्रयोग कर जीवन को समुन्नत करना।</li> <li>● दार्शनिक सिद्धान्तों में मार्गणा एवं गुणस्थानों का अवबोध हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**पंचदश पत्र : प्राकृत आचारपरक साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत आचारपरक साहित्य में 'समणसुत्त' एवं 'अष्टपाहुड' की विषय को स्पष्ट करना।</li> <li>● आचारपरक साहित्य में समणसुत्त एवं अष्टपाहुड के महत्त्व को प्रतिपादित करना।</li> <li>● समणसुत्त की रचना शैली से परिचित होना।</li> </ul>	<ul style="list-style-type: none"> <li>● समणसुत्त की रचना शैली से परिचित हुए।</li> <li>● समणसुत्त की प्रदत्त गाथाओं के माध्यम से जीवन के लिए उपयोगी महत्त्वपूर्ण सूत्रों का परिज्ञान हुआ।</li> <li>● अष्टपाहुड के माध्यम से दर्शन, चारित्र, बोध आदि से सम्बन्धित तत्त्वों से अवगत हुए।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**पंचदश पत्र : आगमिक व्याख्या साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृतागम व्याख्या साहित्य में भाष्यों की रचना शैली से परिचित होना।</li> <li>● भाष्यों में विशेषावश्यक भाष्य का महत्त्व प्रतिपादित करना।</li> <li>● विशेषावश्यक भाष्य की विषयवस्तु से अवगत होना।</li> </ul>	<ul style="list-style-type: none"> <li>● प्राकृतागम व्याख्या साहित्य का बोध हुआ।</li> <li>● भाष्य एवं भाष्यकार का परिज्ञान हुआ।</li> <li>● आगमों को प्रतिपादित तत्त्वों को भाष्यों के माध्यम से समझने का बोध हुआ।</li> <li>● आवश्यक क्या है, कितने हैं और क्यों करणीय है—इनका अवबोध हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-तृतीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**पंचदश पत्र : संस्कृत साहित्य**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● संस्कृत के काव्यशास्त्रीय ग्रंथों का परिज्ञान करना।</li> <li>● साहित्यदर्पण काव्य के महत्त्व को प्रतिपादित करना।</li> <li>● शुकनासोपदेश के वैशिष्ट्य को उजागर करना।</li> </ul>	<ul style="list-style-type: none"> <li>● लाक्षणिक ग्रंथ साहित्य दर्पण के माध्यम से काव्य के लक्षणों को जानना व समझना।</li> <li>● शुकनासोपदेश के माध्यम से श्रेष्ठ जीवन की उपलब्धियों का अवबोध हुआ।</li> <li>● साहित्यदर्पण के द्वारा विभिन्न काव्यों के विषयों का बोध हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**षोडश पत्र : प्राकृत साहित्य-भाग 2**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत काव्य विधा से परिचय कराना।</li> <li>● काव्यकारों के व्यक्तित्व एवं कर्तृत्व से अवगत करवाना।</li> <li>● महाकाव्य के स्वरूप को समझाना।</li> <li>● पउमचरियं एवं गउडवहो की विषयवस्तु को समझाना।</li> </ul>	<ul style="list-style-type: none"> <li>● पउमचरियं एवं गउडवहो में प्राप्त जीवन मूल्यों का परिज्ञान हुआ।</li> <li>● प्राकृत महाकाव्य में वर्णित भारतीय संस्कृति का परिज्ञान।</li> <li>● काव्यकारों की रचना शैली का विशेष ज्ञान हुआ।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**सप्तदश पत्र : शोध-प्रविधि एवं पाण्डुलिपि विज्ञान**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● शोध से परिचय करवाना।</li> <li>● शोध की विभिन्न विधियों का परिचय करवाना।</li> <li>● भाषा एवं लिपि का ज्ञान करवाना।</li> <li>● पाण्डुलिपि का ज्ञान करवाना।</li> </ul>	<ul style="list-style-type: none"> <li>● विद्यार्थी शोध के क्षेत्र में कार्य कर सकता है।</li> <li>● शोध की विभिन्न विधियों के माध्यम से कम समय एवं कम खर्च में शोध किया जा सकता है।</li> <li>● पाण्डुलिपियों के परिज्ञान से हमारी साहित्यिक धरोवर को जाना जा सकता है।</li> <li>● भाषा के ज्ञान से हमारी सांस्कृतिक धरोवर को सुरक्षित किया जा सकता है।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**अष्टादश पत्र : लघुशोध प्रबन्ध**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● शोध से परिचय करवाना।</li> <li>● शोध की विभिन्न विधियों का परिचय करवाना।</li> <li>● शोध का मार्ग प्रशस्त करना।</li> <li>● भाषा एवं लिपि का ज्ञान करवाना।</li> </ul>	<ul style="list-style-type: none"> <li>● विद्यार्थी शोध के क्षेत्र में कार्य कर सकता है।</li> <li>● शोध की विभिन्न विधियों के माध्यम से कम समय एवं कम खर्च में शोध किया जा सकता है।</li> <li>● शोध के माध्यम से हमारी साहित्यिक एवं सांस्कृतिक धरोवर को सुरक्षित किया जा सकता है।</li> </ul>

**लघुशोध प्रबन्ध**

अथवा

**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**अष्टादश पत्र : पालि साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● पाली प्राकृत का ज्ञान कराना।</li> <li>● पाली प्राकृत साहित्य की रचना शैली से परिचय कराना।</li> <li>● पाली साहित्य के माध्यम से बौद्ध परम्परा में वर्णित जीवन मूल्यों को समझाना।</li> </ul>	<ul style="list-style-type: none"> <li>● बौद्ध तत्त्व मीमांसा के विविध पक्षों का ज्ञान प्राप्त हुआ।</li> <li>● पाली प्राकृत साहित्य की भाषा शैली से अवगत हुए।</li> <li>● बौद्ध परम्परा के मौलिक सिद्धान्त से विशेषतः परिचित हुए।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**एकोनविंशति पत्र : भक्ति एवं मुक्तक साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत में रचित भक्ति साहित्य का ज्ञान कराना।</li> <li>● प्राकृत में रचित मुक्तक साहित्य का ज्ञान कराना।</li> <li>● भक्ति एवं मुक्तक साहित्य के माध्यम से जैन परम्परा में वर्णित जीवन मूल्यों को समझाना।</li> </ul>	<ul style="list-style-type: none"> <li>● विद्यार्थियों को भक्ति के महत्त्व का ज्ञान हुआ।</li> <li>● भक्ति एवं मुक्तक साहित्य की भाषा शैली से अवगत हुए।</li> <li>● जैन परम्परा में वर्णित भक्ति-सिद्धान्त से विशेषतः परिचित हुए।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**विंशति पत्र : शौरसेनी साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● शौरसेनी प्राकृत का ज्ञान कराना।</li> <li>● शौरसेनी प्राकृत साहित्य की रचना शैली से परिचय कराना।</li> <li>● भगवती आराधना ग्रंथ के माध्यम से जीव के स्वरूप को समझाना।</li> </ul>	<ul style="list-style-type: none"> <li>● जैन तत्त्व मीमांसा के विविध पक्षों का ज्ञान प्राप्त हुआ।</li> <li>● शौरसेनी प्राकृत साहित्य की भाषा शैली से अवगत हुए।</li> <li>● मौलिक सिद्धान्त से विशेषतः परिचित हुए।</li> </ul>



**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**विंशति पत्र : प्राकृत आचारपरक साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● प्राकृत आचारशास्त्रीय सिद्धान्तों से परिचित होना।</li> <li>● प्राकृत आचारपरक साहित्य-प्रवचनसार एवं दर्शनसार की विषयवस्तु का ज्ञान करना।</li> <li>● रचियता एवं रचनाशैली से अवगत होना।</li> <li>● वर्णनीय विषय को स्पष्ट करना।</li> </ul>	<ul style="list-style-type: none"> <li>● भारतीय दर्शन परम्परा का ज्ञान।</li> <li>● दर्शन के गूढ विषयों को जानना एवं समझना।</li> <li>● जैन दर्शन के प्रमुख सिद्धान्तों का अवगाहन करना।</li> </ul>

**प्राकृत**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**विंशति पत्र : आगमिक व्याख्या साहित्य**  
**क्रेडिट-4**

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"> <li>● आगम सम्बन्धी व्याख्या साहित्य से परिचय कराना।</li> <li>● आगमों एवं व्याख्या साहित्य में निहित समाज-संस्कृति आदि का ज्ञान कराना।</li> <li>● निर्युक्ति, भाष्य, चूर्ण एवं टीका के स्वरूप को समझाना।</li> <li>● व्याख्यकारों के जीवन एवं वैदुष्य आदि से परिचित कराना।</li> </ul>	<ul style="list-style-type: none"> <li>● विविध व्याख्यासाहित्य का परिज्ञान हुआ।</li> <li>● जैनाचार्यों के पाण्डित्य का ज्ञान हुआ।</li> <li>● आचारांग की विषयवस्तु से अवगति हुए।</li> <li>● आचारांग भाष्य की भाषा शैली से परिचित हुए।</li> </ul>

प्राकृत  
एम.ए. सेमेस्टर-तृतीय  
ऐच्छिक पत्र (ELECTIVE PAPER)  
विंशति पत्र : संस्कृत साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>संस्कृत के काव्यशास्त्रीय ग्रंथों का परिज्ञान करना।</li><li>काव्यग्रंथहारा काव्य के महत्त्व को प्रतिपादित करना।</li><li>मेघदूत, शिशुपालवध, किरातार्जुनीयम एवं नैषधीयचरितम् के वैशिष्ट्य को उजागर करना।</li><li>संस्कृत काव्यों की समृद्ध परम्परा को बताना।</li></ul>	<ul style="list-style-type: none"><li>संस्कृत के काव्यशास्त्रीय ग्रंथों के माध्यम से भारतीय संस्कृति का परिज्ञान हुआ।</li><li>संस्कृत काव्यों में वर्णित जीवन मूल्यों के प्रति छात्रों में रुचि उत्पन्न हुई।</li></ul>

**प्राच्यविद्या एवं भाषा विभाग  
जैन विश्वभारती संस्थान, लाड़नूँ  
एम. ए. संस्कृत पाठ्यक्रम  
(2015)**

**पाठ्यक्रम के उद्देश्य एवं उपलब्धियाँ**

उद्देश्य –

1. विद्यार्थियों को संस्कृत साहित्य के माध्यम ससे हमारी सांस्कृतिक धरोहर से परिचित करवाना।
2. विद्यार्थियों को संस्कृत साहित्य की विभिन्न विधाओं से अवगत करवाना।
3. विद्यार्थियों को भारतीय संस्कृति एवं जीवन मूल्यों से अवगत करवाना।
4. विद्यार्थियों को भाषा एवं भाषा विज्ञान से परिचित करवाना एवं संस्कृत भाषा के स्वरूप एवं उसके विविध रूपों का ज्ञान करवाना।
5. विद्यार्थियों को शोध क्षेत्र का समग्र ज्ञान कराना।
6. विद्यार्थियों को पाण्डुलिपि विज्ञान एवं लिपियों की जानकारी देना।

**उपलब्धियाँ :**

1. विद्यार्थी पाठ्यक्रम में वर्णित कवियों से प्रेरणा लेकर स्वयं काव्य रचना हेतु प्रयास कर सकेंगे।
2. विद्यार्थी संस्कृत की विभिन्न शैलियों से परिचित हो सकेंगे।
3. विद्यार्थी काव्यशास्त्रीय अध्ययन में रुचि ले सकेंगे।
4. विद्यार्थी हमारी सांस्कृतिक धरोहर को सुरक्षित रखने में अपनी भूमिका का निर्वहन कर सकेंगे।
5. विद्यार्थी पाठ्यक्रम वर्णित सभी कवियों के काव्य से परिचित हो सकेंगे।
6. विद्यार्थी भाषा विज्ञान के स्वरूप, संरचना एवं महत्व को जान सकेंगे।
7. विद्यार्थी लोक संस्कृति के माध्यम से जीवन-मूल्यों को अपने जीवन में उतार सकेंगे।
8. विद्यार्थी संस्कृत के विस्तार से अवगत हो सकेंगे।
9. विद्यार्थी पाण्डुलिपियों के अनुवाद के स्वरूप क्षेत्र एवं सीमाओं से परिचित हो सकेंगे।
10. विद्यार्थी वैदिक एवं लौकिक साहित्य में वर्णित महत्त्वपूर्ण ज्ञान को ग्रहण कर, अपने जीवन को सोद्देश्य बना सकते हैं।

प्राच्यविद्या एवं भाषा विभाग  
जैन विश्वभारती संस्थान, लाड़नूँ  
एम. ए. संस्कृत पाठ्यक्रम  
(2015)

**Semester- I**

प्रश्न-पत्र कोड	प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
<b>अनिवार्य पत्र (Core Paper)</b>					
SKT 101	वैदिक साहित्य	100	70	30	4
SKT 102	भाषाविज्ञान	100	70	30	4
SKT 103	संस्कृत काव्य साहित्य	100	70	30	4
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>					
<i>नोट - छात्र को अ, ब, और स, इन तीन वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम सेमेस्टर में जो वर्ग चयनित होगा, वही आगे के सेमेस्टर में भी ग्राह्य होगा।</i>					
SKT 104	वर्ग अ. भारतीय दर्शन वर्ग ब. प्राकृत साहित्य वर्ग स. सांख्ययोग दर्शन वर्ग द. कालुव्याकरण	100	70	30	4
<b>Foundation Paper</b>					
SKT 105	मूल्यपरक शिक्षा	100	70	30	4
<b>कुल अंक एवं क्रेडिट</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

**Semester- II**

प्रश्न-पत्र कोड	अनिवार्य पत्र (Core Paper) प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
SKT 201	दार्शनिक साहित्य	100	70	30	4
SKT 202	काव्यशास्त्रीय सिद्धान्त	100	70	30	4
SKT 203	संस्कृत नाटक व नाट्यशास्त्र	100	70	30	4
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>					
<i>नोट - छात्र को अ, ब, और स, इन तीन वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम सेमेस्टर में जो वर्ग चयनित किया है, वही इस सेमेस्टर में भी ग्राह्य होगा।</i>					
SKT 204	वर्ग अ. भारतीय दर्शन वर्ग ब. प्राकृत साहित्य वर्ग स. सांख्ययोग दर्शन वर्ग द. कालुव्याकरण	100	70	30	4
<b>Foundation Paper</b>					
SKT 205	कम्प्यूटर अनुप्रयोग	100	70	30	4
<b>कुल अंक एवं क्रेडिट</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

**Semester- III**

प्रश्न-पत्र कोड	अनिवार्य पत्र (Core Paper) प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
SKT 301	संस्कृत व्याकरण	100	70	30	4
SKT 302	संस्कृत गद्य साहित्य	100	70	30	4
SKT 303	उपनिषद् व वेदान्त साहित्य	100	70	30	4
SKT 304	जैन संस्कृत कथा साहित्य	100	70	30	4
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>					
<i>नोट – छात्र को अ, ब, और स, इन तीन वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम सेमेस्टर में जो वर्ग चयनित किया है, वही इस सेमेस्टर में भी ग्राह्य होगा।</i>					
SKT 305	वर्ग अ. भारतीय दर्शन वर्ग ब. प्राकृत साहित्य वर्ग स. सांख्ययोग दर्शन वर्ग द. कालुव्याकरण	100	70	30	4
<b>कुल अंक एवं क्रेडिट</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

**Semester- IV**

प्रश्न-पत्र कोड	अनिवार्य पत्र (Core Paper) प्रश्न-पत्र का नाम	पूर्णांक	लिखित परीक्षा	सी.आई.ए.	क्रेडिट
SKT 401	संस्कृत नीतिपरकसाहित्य	100	70	30	4
SKT 402	संस्कृत साहित्य का इतिहास	100	70	30	4
SKT 403	शोधप्रविधि	100	70	30	4
SKT 404	संस्कृत स्मृति साहित्य अथवा	100	70	30	4
	लघु शोधप्रबन्ध	100	50	30	20 Viva- voce
<b>ऐच्छिक प्रश्न-पत्र (Elective Paper)</b>					
<i>नोट – छात्र को अ, ब, और स, इन तीन वर्गों में से किसी एक वर्ग का चयन करना होगा। प्रथम सेमेस्टर में जो वर्ग चयनित किया है, वही इस सेमेस्टर में भी ग्राह्य होगा।</i>					
SKT 405	वर्ग अ. भारतीय दर्शन वर्ग ब. प्राकृत साहित्य वर्ग स. सांख्ययोग दर्शन वर्ग द. कालुव्याकरण	100	70	30	4
<b>कुल अंक एवं क्रेडिट</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>
<b>अंक एवं क्रेडिट का महायोग</b>		<b>2000</b>	<b>1400</b>	<b>600</b>	<b>80</b>

**(Semester-I, Paper-1)**

संस्कृत एम.ए. सत्र – 1  
अनिवार्य पत्र (CORE PAPER)  
प्रथम पत्र : वैदिक साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• वेदों की विषयवस्तु से परिचय कराना।</li><li>• वैदिक संस्कृत के नियमों की जानकारी देना।</li><li>• शब्दों के निरुक्त से सही अर्थ का ज्ञान प्रस्तुत कराना।</li><li>• वैदिक साहित्य के मुख्य अंगों पर प्रकाश डालना।</li></ul>	<ul style="list-style-type: none"><li>• वेदों की शाखा-प्रशाखा का ज्ञान हुआ।</li><li>• वेदों में निहित ज्ञान को जाना गया।</li><li>• इतिहास क्रम से वेदों के भेद-प्रभेद की जानकारी मिली।</li></ul>

**(Semester-I, Paper-2)**

संस्कृत एम.ए. सत्र – 1  
अनिवार्य पत्र (CORE PAPER)  
द्वितीय पत्र : व्याकरण एवं भाषाविज्ञान  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• भाषा, भाषाविज्ञान एवं उसके वर्गीकरण आदि का ज्ञान कराना।</li><li>• भारोपीय भाषा के परिवार का परिचय करवाना।</li><li>• ध्वनि एवं ध्वनि के नियमों की जानकारी कराना।</li></ul>	<ul style="list-style-type: none"><li>• अर्थ विज्ञान एवं वाक्य विज्ञान का परिचय मिला।</li><li>• मानवीय ध्वनि यंत्र का ज्ञान हुआ।</li><li>• अर्थ परिवर्तन की संभावनाओं एवं दिशाओं का बोध हुआ।</li></ul>

**(Semester-I, Paper-3)**

संस्कृत एम.ए. सत्र – 1

अनिवार्य पत्र (CORE PAPER)

तृतीय पत्र : संस्कृत काव्य साहित्य

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>संस्कृत के काव्यशास्त्रीय ग्रंथों का परिज्ञान करना।</li><li>काव्यग्रंथहारा काव्य के महत्त्व को प्रतिपादित करना।</li><li>मेघदूत, शिशुपालवध, किरातार्जुनीयम एवं नैषधीयचरितम् के वैशिष्ट्य को उजागर करना।</li><li>संस्कृत काव्यों की समृद्ध परम्परा को बताना।</li></ul>	<ul style="list-style-type: none"><li>संस्कृत के काव्यशास्त्रीय ग्रंथों के माध्यम से भारतीय संस्कृति का परिज्ञान हुआ।</li><li>संस्कृत काव्यों में वर्णित जीवन मूल्यों के प्रति छात्रों में रुचि उत्पन्न हुई।</li></ul>

**(Semester-I, Paper-4)**

संस्कृत एम.ए. सत्र – 1

ऐच्छिक पत्र (ELECTIVE PAPER)

(छात्र को अ, ब, स –इन तीन वर्गों में से किसी एक वर्ग का चयन करना होगा।

प्रथम सत्र में जो वर्ग चयनित होगा, वही आगे के सत्रों में भी ग्राह्य होगा)

चतुर्थ पत्र : (अ- वर्ग) भारतीय दर्शन

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>न्याय के विभिन्न पक्षों का परिचय करवाना।</li><li>न्याय के लक्षण स्वरूप व भेद-प्रभेदों की जानकारी कराना।</li><li>शब्द के नित्य अनित्य स्वरूप पर चर्चा कराना।</li></ul>	<ul style="list-style-type: none"><li>भारतीय दर्शनों के आधार पर खंडन-मंडन का ज्ञान हुआ।</li><li>प्रत्यक्ष के हेतु, परिणाम आदि की अवगति हुई।</li><li>न्याय के गूढ रहस्यों को जानने का अवसर मिला।</li></ul>

(Semester-I, Paper-4)

अथवा

संस्कृत एम.ए. सत्र – 1

ऐच्छिक पत्र (ELECTIVE PAPER)

चतुर्थ पत्र : (ब- वर्ग) प्राकृत साहित्य

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• सर्वनाम के शब्द रूपों का ज्ञान करवाना।</li><li>• सामान्य शब्दरूपों की प्रक्रिया को समझाना।</li><li>• प्राकृत की लिंगव्यवस्था का विशेष ज्ञान करवाना।</li></ul>	<ul style="list-style-type: none"><li>• प्राकृत व्याकरण में प्राकृत प्रकाश के नियमों का विशेषतः अवबोध हुआ।</li><li>• प्राकृत लेखन व अवबोध में अभ्यस्त हुए।</li><li>• दैनिक जीवन में प्राकृत की महत्ता का ज्ञान हुआ।</li></ul>

(Semester-I, Paper-4)

अथवा

संस्कृत एम.ए. सत्र – 1

ऐच्छिक पत्र (ELECTIVE PAPER)

चतुर्थ पत्र : (स- वर्ग) सांख्ययोग दर्शन

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• सांख्य के 25 तत्त्वों की जानकारी कराना।</li><li>• सृष्टि निर्माण एवं प्रलय की प्रक्रिया बताना।</li><li>• मुक्ति का प्रारूप समझाना।</li><li>• त्रिगुणों की प्रकृति, कार्य आदि बताना।</li></ul>	<ul style="list-style-type: none"><li>• पुरुष एवं प्रकृति के बंधन-मुक्ति का परिचय हुआ।</li><li>• 5 महाभूत एवं 5 तन्मात्राओं की जानकारी मिली।</li><li>• सत्कार्यवाद के आधार का सतर्क ज्ञान हुआ।</li></ul>



**(Semester-I, Paper-4)**

संस्कृत एम.ए. सत्र – 1

ऐच्छिक पत्र (ELECTIVE PAPER)

चतुर्थ पत्र : (द- वर्ग) कालुव्याकरण

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• संधि प्रक्रिया एवं संधि के भेदों को समझाना।</li><li>• शब्दरूप का सम्पूर्ण ज्ञान करवाना।</li><li>• शब्द रूप निर्माण की प्रक्रिया बताना।</li></ul>	<ul style="list-style-type: none"><li>• युष्मद्, अस्मद् के रूप बनाने की कला का ज्ञान हुआ।</li><li>• संधि एवं संधि विच्छेद की जानकारी हुई।</li><li>• संज्ञाओं के नाम एवं उसके अर्थ का बोध मिला।</li></ul>

**(Semester-I, Paper-5)**

संस्कृत एम.ए. सत्र – 1

आधारभूत कोर्स (FOUNDATION COURSE)

पंचम पत्र : मूल्यपरक शिक्षा

क्रेडिट-4

**Objectives**

1. To understand the need of value oriented education.
2. To understand the process of contemplation for value development.

**Outcome**

1. Student make the life easier by moral education.
2. To make strong nation by moral education

**(Semester-II, Paper-6)**

संस्कृत एम.ए. सत्र – 2  
अनिवार्य पत्र (CORE PAPER)  
षष्ठ पत्र : दार्शनिक साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>ईश्वरवाद के खंडन के तर्क का ज्ञान हुआ।</li><li>आत्मा के स्वरूप का अवबोध हुआ।</li><li>मोक्षमार्ग की जानकारी देना।</li></ul>	<ul style="list-style-type: none"><li>प्रमाण व प्रमेय के विभिन्न पक्षों का ज्ञान हुआ।</li><li>छः दर्शनों का जैन दृष्टि से ज्ञान मिला।</li><li>9 तत्त्व के भेद-प्रभेदों की जानकारी मिली।</li></ul>

**(Semester-II, Paper-7)**

संस्कृत एम.ए. सत्र – 2  
अनिवार्य पत्र (CORE PAPER)  
सप्तम पत्र : काव्यशास्त्रीय सिद्धान्त  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>काव्य की परिभाषा एवं काव्य के अंगों का ज्ञान कराना।</li><li>काव्य की विभिन्न परिभाषाओं को समझाना।</li><li>लक्षणा, अभिधा, व्यंजना को सोदाहरण समझाना।</li></ul>	<ul style="list-style-type: none"><li>साहित्य निर्माण की प्रक्रिया का ज्ञान करवाना।</li><li>काव्य की विधाओं को जानने का अवसर मिला।</li><li>शब्द शक्तियों के गुण-दोषों की जानकारी मिली।</li></ul>

**(Semester-II, Paper-8)**

संस्कृत एम.ए. सत्र – 2

अनिवार्य पत्र (CORE PAPER)

अष्टम पत्र : संस्कृत नाटक व नाट्यशास्त्र

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>● नाटक के लक्षण आदि की जानकारी करवाना।</li><li>● अर्थ-प्रकृतियों के भेदों को समझाना।</li><li>● राम के चरित्र का विशद् ज्ञान कराना।</li><li>● नाटक एवं रंगमंच की विस्तृत जानकारी करवाना।</li></ul>	<ul style="list-style-type: none"><li>● रूप-रूपकों का विशद् ज्ञान करवाया गया।</li><li>● ऐतिहासिक रामचरित्र की घटनाओं का ज्ञान हुआ।</li><li>● नाट्य स्थल एवं नाटक की प्रारम्भ विधि की जानकारी मिली।</li></ul>

**(Semester-II, Paper-9)**

संस्कृत एम.ए. सत्र – 2

ऐच्छिक पत्र (ELECTIVE PAPER)

नवम पत्र : (अ- वर्ग) भारतीय दर्शन

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>● बौद्ध एवं चार्वाक दर्शन के खण्डन-मण्डन के तर्क समझाना।</li><li>● वैशेषिक के निग्रह स्थानों की जानकारी देना।</li><li>● ज्ञान, आत्मा आदि का नित्यानित्य भाव बताना।</li><li>● प्रमाण के लक्षण आदि बताना।</li></ul>	<ul style="list-style-type: none"><li>● केवलज्ञान आदि की उपलब्धि की प्रक्रिया समझी।</li><li>● मन का लक्षण व कार्यप्रक्रिया का ज्ञान हुआ।</li><li>● सत्य की प्राप्ति में सहायक प्रमाण में प्रक्रिया जानकारी मिली।</li></ul>

**(Semester-II, Paper-9)**

अथवा

संस्कृत एम.ए. सत्र – 2

ऐच्छिक पत्र (ELECTIVE PAPER)

नवम पत्र : (ब- वर्ग) प्राकृत साहित्य

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>भाषाओं को वर्गीकरण एवं उसका विकासक्रम समझाना।</li><li>आगम साहित्य की रचना, वाचना आदि समझाना।</li><li>व्याख्या साहित्य का ज्ञान करवाया।</li></ul>	<ul style="list-style-type: none"><li>पालि, अशोक आदि लिपियों का ज्ञान प्राप्त हुआ।</li><li>शौरसेनी आगम साहित्य का परिचय करवाया गया।</li><li>कथा साहित्य एवं चरित्र साहित्य की जानकारी मिली।</li></ul>

**(Semester-II, Paper-9)**

अथवा

संस्कृत एम.ए. सत्र – 2

ऐच्छिक पत्र (ELECTIVE PAPER)

नवम पत्र : (स- वर्ग) सांख्ययोग दर्शन

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>वृत्ति निरोध की प्रक्रिया समझाना।</li><li>यम-नियमों की जानकारी देना।</li><li>समाधि की अवस्था का ज्ञान करवाना।</li></ul>	<ul style="list-style-type: none"><li>ईश्वर के स्वरूप एवं प्राणिधान का ज्ञान हुआ।</li><li>कर्ममुक्ति एवं संसारमुक्ति के बाधक तत्त्वों को दूर करने की विधि से अवगत हुए।</li><li>संस्कार, स्मृति आदि की एकरूपता का ज्ञान हुआ।</li></ul>

**(Semester-II, Paper-9)**

संस्कृत एम.ए. सत्र – 2

ऐच्छिक पत्र (ELECTIVE PAPER)

नवम पत्र : (द- वर्ग) कालुव्याकरण

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• धातु रूप का ज्ञान होना ।</li><li>• अनेक अर्थ में प्रयोग होने वाली धातुओं की जानकारी मिलेगी ।</li><li>• विविध प्रकार के धातुरूप के निर्माण की प्रक्रिया का ज्ञान होगा ।</li></ul>	<ul style="list-style-type: none"><li>• धातुओं की विस्तृत जानकारी मिली ।</li><li>• वाक्य रचना में सुविधा मिली ।</li><li>• ग्रंथ के पठन-पाठन एवं अर्थविवेचन में सहायक हुआ ।</li></ul>

**(Semester-II, Paper-10)**

संस्कृत एम.ए. सत्र – 2

आधारभूत कोर्स (FOUNDATION COURSE)

दशम पत्र : कम्प्यूटर अनुप्रयोग

क्रेडिट-4

पूर्णांक : 100 (70 लिखित परीक्षा + 30 CIA)

**Objectives:**

- It will expose the students to the fundamentals of the IT.
- Students will be having the introductory knowledge of the MS-Windows
- Practically students will be able to use MS-PowerPoint, MS-Word, MS-Excel and create their own blog.

**Outcome:**

- Students will apply the knowledge of IT practically in their day-to-day life.
- Students will be able to create well-formatted documents, attractive presentations and calculation part through excel.
- Students will be able to create their own blog.

**(Semester-III, Paper-11)**

संस्कृत एम.ए. सत्र – 3  
अनिवार्य पत्र (Core Paper)  
एकादश पत्र : संस्कृत व्याकरण  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>विभक्ति संयोजना का ज्ञान करवाना।</li><li>संस्कृत से हिन्दी एवं हिन्दी से संस्कृत का अनुवाद सीखाना।</li><li>निबन्ध रचना का अभ्यास करवाना।</li></ul>	<ul style="list-style-type: none"><li>विभक्तियों के ज्ञान से सही वाक्य विभक्ति की प्रक्रिया समझी।</li><li>लिंग परिवर्तन के कारण एवं उपाय का ज्ञान हुआ।</li><li>विविध विषयों पर लेखन का अभ्यास करवाया।</li></ul>

**(Semester-III, Paper-12)**

संस्कृत एम.ए. सत्र – 3  
अनिवार्य पत्र (Core Paper)  
द्वादश पत्र : संस्कृत गद्य साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>गद्यसाहित्य की गंभीरता से परिचित करवाना।</li><li>सुबंधु की काव्यकला की जानकारी देना।</li><li>प्रौढ़ गद्य साहित्य लेखन का अभ्यास करवाना।</li></ul>	<ul style="list-style-type: none"><li>गद्य काव्य की परम्परा से परिचय हुआ।</li><li>वाक्य की सुदीर्घ रचना का ज्ञान हुआ।</li><li>ऐतिहासिक काव्य विधा से परिचित हुए।</li></ul>

**(Semester-III, Paper-13)**

संस्कृत एम.ए. सत्र – 3

अनिवार्य पत्र (Core Paper)

त्रयोदश पत्र : उपनिषद् व वेदान्त साहित्य

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• भोक्तृत्व आदि का ज्ञान कराना।</li><li>• वेदांत के विविध आयामों का परिचय कराना।</li><li>• प्रत्येक शब्द की विशद् व्याख्या करना।</li></ul>	<ul style="list-style-type: none"><li>• मुमुक्षु के गुणों का ज्ञान हुआ।</li><li>• ईश्वर स्वरूप का बोध मिला।</li><li>• बौद्धमत का खंडन कर द्वैतवाद की स्थापना की विधि का ज्ञान हुआ।</li></ul>

**(Semester-III, Paper-14)**

संस्कृत एम.ए. सत्र – 3

अनिवार्य पत्र (Core Paper)

चतुर्दश पत्र : संस्कृत कथा साहित्य

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• गद्यसाहित्य की गंभीरता से परिचित करवाना।</li><li>• आधुनिक कथा साहित्य की जानकारी देना।</li><li>• प्रौढ़ गद्य साहित्य लेखन का अभ्यास करवाना।</li></ul>	<ul style="list-style-type: none"><li>• गद्य काव्य की परम्परा से परिचय हुआ।</li><li>• आधुनिक कथा साहित्य की जानकारी हुई।</li><li>• वाक्य की सुदीर्घ रचना का ज्ञान हुआ।</li><li>• ऐतिहासिक काव्य विधा से परिचित हुए।</li></ul>

**(Semester-III, Paper-15)**

संस्कृत एम.ए. सत्र – 3

ऐच्छिक पत्र (Elective Paper)

पंचदश पत्र : (अ- वर्ग) भारतीय दर्शन

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>● प्रमेय के स्वरूप का बोध करवाना।</li><li>● न्याय के प्रकार एवं लक्षण समझाना।</li><li>● वैशेषिक के 9 तत्त्वों को विस्तारपूर्वक समझाना।</li></ul>	<ul style="list-style-type: none"><li>● भारतीय दर्शन में न्यायदर्शन का स्थान समझने का अवसर मिला।</li><li>● खंडन, मंडन की शैली से परिचय हुआ।</li><li>● समवाय आदि की द्रव्य, गुण आदि से व्याख्या की जानकारी मिली।</li></ul>

**(Semester-III, Paper-15)**

संस्कृत एम.ए. सत्र – 3

ऐच्छिक पत्र (Elective Paper)

पंचदश पत्र : (ब- वर्ग) प्राकृत साहित्य

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>● आत्मा के अस्तित्व की सिद्धि समझाना।</li><li>● परिग्रह के दोष एवं निवारण के उपाय बताना।</li><li>● जैन तत्त्व मीमांसा से संबद्ध नय-निक्षेप का ज्ञान करवाया।</li></ul>	<ul style="list-style-type: none"><li>● जीवत्व सिद्धि वैज्ञानिक ढंग से ज्ञात हुई।</li><li>● कथाओं के माध्यम से जीवन मूल्यों को समझने का अवसर मिला।</li></ul>



**(Semester-III, Paper-15)**

संस्कृत एम.ए. सत्र – 3

ऐच्छिक पत्र (Elective Paper)

पंचदश पत्र : (स- वर्ग) सांख्ययोग दर्शन

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>सांख्य के 25 तत्त्वों का विस्तृत ज्ञान करवाना।</li><li>पुरुष की बंध-मुक्ति को समझाना।</li><li>कैवल्य का स्वरूप बतालाना।</li></ul>	<ul style="list-style-type: none"><li>ईश्वर सिद्धि कर अनीश्वरवादियों का खण्डन ज्ञात हुआ।</li><li>सृष्टिक्रम के निर्माण की प्रक्रिया परिचित हुए।</li><li>सत्कार्यवाद की धारणा पुष्ट हुई।</li></ul>

**(Semester-III, Paper-15)**

संस्कृत एम.ए. सत्र – 3

ऐच्छिक पत्र (ELECTIVE PAPER)

पंचदश पत्र : (द- वर्ग) कालुव्याकरण

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>प्रेरणार्थक धातुओं के निर्माण की प्रक्रिया की प्रक्रिया का परिचय करवाना।</li><li>धातुओं से शब्द बनाने की विधि का ज्ञान करवाना।</li><li>शब्द से धातु बनाने की प्रक्रिया समझाना।</li></ul>	<ul style="list-style-type: none"><li>प्रक्रिया के माध्यम से संस्कृत साहित्यिक सौंदर्य का ज्ञान हुआ।</li><li>कर्तृवाच्य एवं कर्मवाच्य की पहचान हुई।</li><li>धातुओं का अर्थान्तर होने की प्रक्रिया की पुष्टि हुई।</li></ul>

**(Semester-IV, Paper-16)**

संस्कृत एम.ए. सत्र – 4  
अनिवार्य पत्र (Core Paper)  
षोडश पत्र : संस्कृत नीतिपरक साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>नीतिपरक साहित्य का ज्ञान होगा।</li><li>संस्कृत में कथा प्रबंध का ज्ञान हो।</li><li>सामान्य कथाओं में निहित जीवनमूल्य का ज्ञान होगा।</li></ul>	<ul style="list-style-type: none"><li>नीतिपरक मूल्यों की जानकारी प्राप्त हुई।</li><li>कथा के माध्यम से सूक्तियों का परिचय हुआ।</li><li>कथा साहित्य की विधा से परिचित हुए।</li><li>कथा के माध्यम से लोकजीवन कौशल का ज्ञान हुआ।</li></ul>

**(Semester-IV, Paper-17)**

संस्कृत एम.ए. सत्र – 4  
अनिवार्य पत्र (Core Paper)  
सप्तदश पत्र : संस्कृत साहित्य का इतिहास  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>संस्कृत साहित्य के उद्भव एवं विकास का ज्ञान करवाना।</li><li>महाभारत, रामायण से प्राचीन परम्परा का ज्ञान करवाना।</li><li>वैदिक एवं जैन पुराणों का परिचय करवाना।</li></ul>	<ul style="list-style-type: none"><li>जैनों का संस्कृत काव्य में योगदान का ज्ञान हुआ।</li><li>पुराण, महापुराण में अन्तर ज्ञात हुआ।</li><li>प्राचीन ग्रन्थों का साहित्यिक महत्त्व का परिचय हुआ।</li><li>सम्पूर्ण संस्कृत साहित्य की विधाओं का ज्ञान कराना।</li></ul>

**(Semester-IV, Paper-18)**

संस्कृत एम.ए. सत्र – 4  
अनिवार्य पत्र (Core Paper)  
अष्टादश पत्र : शोधप्रविधि  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• शोध के क्षेत्र एवं प्रकार का परिचय होगा।</li><li>• शोध रूपरेखा के निर्माण की प्रक्रिया का बोध होगा।</li><li>• शोध की विविध विधियों का परिचय होगा।</li></ul>	<ul style="list-style-type: none"><li>• शोधप्रबंध निर्माण में सुविधा हुई।</li><li>• व्यवस्थित शोधकार्य की विधा का अवबोध हुआ।</li></ul> <p>ऐतिहासिक आदि क्षेत्रों में होने वाले शोध का बोध हुआ।</p>

**(Semester-IV, Paper-19)**

संस्कृत एम.ए. सत्र – 4  
अनिवार्य पत्र (Core Paper)  
एकोनविंशति पत्र : संस्कृत स्मृति साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• प्राणी जगत् की उत्पत्ति को बताना।</li><li>• वर्णाश्रम की चर्या से परिचित करवाना।</li><li>• दण्ड एवं प्रायश्चित्त की व्यवस्था पर प्रकाश डालना।</li><li>• दैनिक जीवन से जुड़े मूल्यों का परिचय करवाना।</li></ul>	<ul style="list-style-type: none"><li>• चारों आश्रमों की क्रिया प्रणाली की जानकारी हुई।</li><li>• तात्कालीन दण्ड विधान का प्रारूप ज्ञात हुआ।</li><li>• ग्रंथ की भाषा शैली एवं व्याख्या शैली का अवबोध हुआ।</li></ul>

अथवा

पूर्णांक : 100 (50 लघुशोध लेखन परीक्षा + 30 CIA+20 Viva-voce)

लघु शोधप्रबन्ध

उद्देश्य	उपलब्धियाँ
<ul style="list-style-type: none"><li>● शोध से परिचय करवाना।</li><li>● शोध की विभिन्न विधियों का परिचय करवाना।</li><li>● शोध का मार्ग प्रशस्त करना।</li><li>● भाषा एवं लिपि का ज्ञान करवाना।</li></ul>	<ul style="list-style-type: none"><li>● विद्यार्थी शोध के क्षेत्र में कार्य कर सकता है।</li><li>● शोध की विभिन्न विधियों के माध्यम से कम समय एवं कम खर्च में शोध किया जा सकता है।</li><li>● शोध के माध्यम से हमारी साहित्यिक एवं सांस्कृतिक धरोवर को सुरक्षित किया जा सकता है।</li></ul>

(Semester-IV, Paper-20)

संस्कृत एम.ए. सत्र – 4  
ऐच्छिक पत्र (Elective Paper)  
विंशति पत्र : (अ- वर्ग) भारतीय दर्शन  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>● जैन न्याय में प्रवेश करवाना।</li><li>● निक्षेप आदि दार्शनिक बिंदुओं को समझाना।</li><li>● प्रमाण एवं न्याय के तत्त्वज्ञान में रहने वाली भूमिका को स्पष्ट करना।</li></ul>	<ul style="list-style-type: none"><li>● न्याय के भेद-प्रभेदों की जानकारी मिली।</li><li>● प्रमाण, प्रमेय के स्वरूप का बोध हुआ।</li><li>● न्याय के क्षेत्र में विभिन्न दर्शनों से तुलना का ज्ञान हुआ।</li></ul>

(Semester-IV, Paper-20)

संस्कृत एम.ए. सत्र – 4  
ऐच्छिक पत्र (Elective Paper)  
विंशति पत्र : (ब- वर्ग) प्राकृत साहित्य  
क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>● श्रावक के निर्धारित आचार-विचार से परिचय करवाना।</li><li>● व्रतों, नियमों को विस्तारपूर्वक समझाना।</li><li>● हिंसा-अहिंसा के सूक्ष्म तथ्यों को समझाना।</li><li>● प्राकृत साहित्य में सावयपण्णत्ति का महत्त्व बताना।</li></ul>	<ul style="list-style-type: none"><li>● श्रावक की चर्चा का विशद् ज्ञान हुआ।</li><li>● गृहस्थ को धर्म करने का अधिकार है। यह मत स्पष्ट हुआ।</li><li>● साधु एवं श्रावक की भेद रेखा की सोदाहरण जानकारी मिली।</li></ul>

**(Semester-IV, Paper-20)**

संस्कृत एम.ए. सत्र – 4

ऐच्छिक पत्र (Elective Paper)

विंशति पत्र : (स- वर्ग) सांख्ययोग दर्शन

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• पंचतत्त्व की उत्पत्ति, स्थिति आदि का ज्ञान करवाना।</li><li>• जीव ईश्वर का अंश है इसकी विस्तृत जानकारी देना।</li><li>• 11 इन्द्रियों के निर्माण प्रक्रिया को समझाना।</li></ul>	<ul style="list-style-type: none"><li>• सृष्टि संरचना का ज्ञान हुआ।</li><li>• सूत्र के विस्तार से व्याख्या करने का ज्ञान हुआ।</li><li>• प्राण आदि की उत्पत्ति, सादित्व की जानकारी हुई।</li></ul>

**(Semester-IV, Paper-20)**

संस्कृत एम.ए. सत्र – 4

ऐच्छिक पत्र (ELECTIVE PAPER)

विंशति पत्र : (द- वर्ग) कालुव्याकरण

क्रेडिट-4

उद्देश्य	उपलब्धियां
<ul style="list-style-type: none"><li>• धातु से शब्द बनने की प्रक्रिया का परिचय करवाना।</li><li>• लघु शब्दों के व्युत्पत्ति परक प्रत्ययों को बताना।</li><li>• संस्कृत को अलंकृत करने वाले शब्दों का ज्ञान करवाना।</li></ul>	<ul style="list-style-type: none"><li>• धातु से शब्द निर्माण की प्रक्रिया की जानकारी मिली।</li><li>• प्रत्ययों की अर्थभेद से विविधता ज्ञात हुई।</li><li>• धातु के अर्थ परिवर्तन की दिशा का ज्ञान हुआ।</li></ul>

**Department of Prakrit and Sanskrit**  
**Jain Vishva Bharati Institute, Ladnun (Rajasthan)**

**Syllabus of Hindi - 2015**

**पाठ्यक्रम के उद्देश्य –**

1. विद्यार्थियों को प्राचीन एवं मध्यकालीन हिन्दी साहित्य से परिचित करवाना।
2. विद्यार्थियों को हिन्दी गद्य, साहित्य एवं लोक साहित्य से अवगत करवाना।
3. विद्यार्थियों को भारतीय एवं पाश्चात्य काव्य से अवगत करवाना।
4. विद्यार्थियों को जैन संस्कृति और जीवन मूल्यों से परिचित करवाना।
5. विद्यार्थियों को भाषा विज्ञान से परिचित करवाना एवं हिन्दी भाषा के स्वरूप एवं उसके विविध रूपों का ज्ञान करवाना।
6. विद्यार्थियों को पत्रकारिता के क्षेत्र का समग्र ज्ञान कराना।
7. विद्यार्थियों को प्रयोजन मूलक हिन्दी एवं अनुवाद विज्ञान के क्षेत्र से अवगत करवाना।
8. विद्यार्थियों को हिन्दी उपन्यास, कहानी, नाटक आदि गद्य विधाओं की समग्र जानकारी प्रदान करना।
9. विद्यार्थियों को आधुनिक हिन्दी काव्य की विस्तार पूर्वक जानकारी प्रदान करना।

**पाठ्यक्रम की उपलब्धियां :**

1. विद्यार्थी पाठ्यक्रम वर्णित कवियों से प्रेरणा लेकर स्वयं काव्य रचना हेतु प्रयास कर सकेंगे।
2. विद्यार्थी हिन्दी की विभिन्न गद्य शैलियों से परिचित हो सकेंगे।
3. विद्यार्थी काव्यशास्त्रीय अध्ययन में रुचि ले सकेंगे।
4. विद्यार्थी हिन्दी की आलोचना विद्या से रूबरू हो सकेंगे।
5. विद्यार्थी आदिकालीन एवं मध्यकालीन साहित्य के महत्व को जान सकेंगे।
6. विद्यार्थी पाठ्यक्रम वर्णित सभी आधुनिक कवियों के काव्य से परिचित हो सकेंगे।
7. विद्यार्थी भाषा विज्ञान के स्वरूप, संरचना एवं महत्व को जान सकेंगे।
8. विद्यार्थी लोक संस्कृति के माध्यम से लोक साहित्य एवं लोक अवधारणा को समझ सकेंगे।
9. विद्यार्थी हिन्दी के भौगोलिक विस्तार से अवगत हो सकेंगे।
10. विद्यार्थी अनुवाद के स्वरूप क्षेत्र एवं सीमाओं से परिचित हो सकेंगे।
11. विद्यार्थी कामकाजी हिन्दी को जानकर उनका दैनिक जीवन में उपयोग कर सकेंगे।

**Department of Prakrit and Sanskrit**  
**Jain Vishva Bharati Institute, Ladnun (Rajasthan)**

**Syllabus of Hindi - 2015**

**Semester- I**

Paper code	Name of Paper	Max. Marks	Written Exam	CIA	Credit
<b>Core Paper</b>					
MAH 101	Hindi Sahitya ka Itihas	100	70	30	4
MAH 102	Hindi Kavita : Udbhava aur Vikas	100	70	30	4
MAH 103	Anoodit Bhartiya Upanyas	100	70	30	4
<b>Elective Paper</b>					
MAH 104	Group A Vigyapan evam Jansmpark Group B Jansanchar : Avadharna evam Vikas Group C Tulnatmak Sahitya : Siddhant evam Vikas	100	70	30	4
<b>Foundation Paper</b>					
MAH 105	Value Education	100	70	30	4
<b>Total Marks and Credit</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

**Semester- II**

Paper code	Name of Paper	Max. Marks	Written Exam	CIA	Credit
<b>Core Paper</b>					
MAH 201	Adhunik Hindi Kavita	100	70	30	4
MAH 202	Sahitya Shastra : Bharteeya evam Pashchatya	100	70	30	4
MAH 203	Hindi Kahani	100	70	30	4
<b>Elective Paper</b>					
MAH 204	Group A Meedia ki Achar Sanhita Group B Jansanchar : Mudrit Madhyam Group C Adhunik Bharatiya Kavita	100	70	30	4



Foundation Paper					
MAH 205	Computer Application	100	70	30	4
<b>Total Marks and Credit</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

### Semester- III

Paper code	Name of Paper	Max. Marks	Written Exam	CIA	Credit
<b>Core Paper</b>					
MAH 301	Hindi Alochana	100	70	30	4
MAH 302	Natak evam Rangmanch	100	70	30	4
MAH 303	Anuvad Siddhanta	100	70	30	4
MAH 304	Hindi Bhasha - Itihas, Svaroop aur uska Samajshastra	100	70	30	4
<b>Elective Paper</b>					
MAH 305	Group A Patakatha Lekhan aur Film Nirman Group B Jansanchar : Redio evam Television Group C Loksahitya	100	70	30	4
<b>Total Marks and Credit</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>

### Semester- IV

Paper code	Name of Paper	Max. Marks	Written Exam	CIA	Credit
<b>Core Paper</b>					
MAH 401	Hindi Bhasha Shikshan	100	70	30	4
MAH 402	Hindi Gadya ke Vibhinna Roop	100	70	30	4
MAH 403	Hindi Sahitya aur Cinema	100	70	30	4
MAH 404	Ashu Anuvad				

<b>Elective Paper</b>					
MAH 405	Group A Sahitya evam Kala Roop Group B Jansanchar : Internet aur Web Patrakarita	100	70	30	4
	Group C Loksanchar or Dissertation	100	70 50	30 30 20 Viva- voce	4
<b>Total Marks and Credit</b>		<b>500</b>	<b>350</b>	<b>150</b>	<b>20</b>
<b>Grand Total of Marks and Credit</b>		<b>2000</b>	<b>1400</b>	<b>600</b>	<b>80</b>

## हिन्दी

एम.ए. सेमेस्टर—प्रथम

अनिवार्य पत्र (CORE PAPER)

Paper Code - MAH 101

प्रथम पत्र : हिन्दी भाषा और साहित्य का इतिहास

क्रेडिट—4

उद्देश्य —

1. अपभ्रंश से लेकर हिन्दी के वर्तमान स्वरूप तक हिन्दी की विकास यात्रा का परिचय;
2. बोलियाँ, लिपि और मानकीकरण सहित हिन्दी के प्रसार का लेखाजोखा;
3. आदिकाल से आधुनिक काल तक के हिन्दी साहित्य का इतिहास का परिचयात्मक अवलोकन।
4. विद्यार्थियों का हिन्दी की ऐतिहासिक पृष्ठभूमि से परिचय करवाना।

उपलब्धियां—

1. विद्यार्थी हिन्दी की ऐतिहासिक पृष्ठभूमि से परिचित हो सकेंगे।
2. विद्यार्थी हिन्दी की आधारभूत जानकारी प्राप्त कर सकेंगे।
3. विद्यार्थी हिन्दी के भौगोलिक विस्तार से अवगत हो सकेंगे।

## हिन्दी

एम.ए. सेमेस्टर—प्रथम

अनिवार्य पत्र (CORE PAPER)

Paper Code - MAH 102

द्वितीय पत्र : हिन्दी कविता : उद्भव एवं विकास

क्रेडिट—4

उद्देश्य —

1. हिन्दी की आदिकालीन, भक्तिकालीन और रीतिकालीन काव्य प्रवृत्तियों से अवगत करवाना;
2. तत्कालीन प्रमुख कवियों और उनकी कृतियों का परिचय देना;
3. पाद्य और पाद्येतर कृतियों के संदर्भ में विद्यार्थियों में रुचि पैदा करना और उनमें समीक्षा—आलोचना की क्षमता विकसित करना।

उपलब्धियां—

1. विद्यार्थी विभिन्न कवियों की लेखन शैली से परिचित होकर अपना मत प्रस्तुत कर सकेंगे।
2. विद्यार्थी पाद्यक्रम वर्णित कवियों से प्रेरणा लेकर स्वयं काव्य रचना हेतु प्रयास कर सकेंगे।

## हिन्दी

एम.ए. सेमेस्टर—प्रथम

अनिवार्य पत्र (CORE PAPER)

Paper Code - MAH 103

तृतीय पत्र : अनूदित भारतीय उपन्यास

क्रेडिट—4

### उद्देश्य—

1. विद्यार्थियों को हिन्दी की उपन्यास विधा से परिचय करवाना।
2. विद्यार्थियों को निबंध विधा के महत्व एवं निबंध कला से परिचय करवाना।
3. विद्यार्थियों को हिन्दी कहानी विधा की समग्र जानकारी प्रदान करना।

### उपलब्धियां—

1. विद्यार्थी हिन्दी की विभिन्न गद्य शैलियों से परिचित हो सकेंगे।
2. विद्यार्थी स्वयं हिन्दी गद्य में रुचि लेंगे एवं लेखन कला हेतु प्रेरित होंगे।

## हिन्दी

एम.ए. सेमेस्टर—प्रथम

ऐच्छिक पत्र (ELECTIVE PAPER)

Paper Code - MAH 104

समूह अ

चतुर्थ पत्र : विज्ञापन एवं जनसंपर्क

क्रेडिट—4

### उद्देश्य—

1. विज्ञापन और जनसंपर्क के सैद्धान्तिक पक्ष, पृष्ठभूमि और विकास का ज्ञान;
2. विज्ञापन और जनसंपर्क के व्यवहारिक पक्षों का अध्ययन;
3. विज्ञापन और जनसंपर्क में लेखन, ब्रांड और ब्रांड पोजिशनिंग आदि की जानकारी।

### उपलब्धियां—

1. विद्यार्थी विज्ञापन और जनसंपर्क के सैद्धान्तिक पक्ष, पृष्ठभूमि और विकास के ज्ञान के माध्यम से रोजगार प्राप्त कर सकता है।
2. विद्यार्थी विद्यार्थी विज्ञापन और जनसंपर्क के माध्यम से कला कौशल में निष्णात हो सकेगा।

## हिन्दी

एम.ए. सेमेस्टर—प्रथम

ऐच्छिक पत्र (ELECTIVE PAPER)

Paper Code - MAH 104

समूह ब

चतुर्थ पत्र : जनसंचार : अवधारणा एवं विकास

क्रेडिट—4

उद्देश्य—

1. संचार की अवधारणा एवं सिद्धान्तों का परिचय;
2. भारत में जनसंचार माध्यमों के विकास का परिचय;
3. संचार माध्यमों के प्रबंधन और आर्थिक पक्ष एवं नवीनतम परिवर्तनों की जानकारी देना।

उपलब्धियां —

1. संचार की अवधारणा एवं सिद्धान्तों का परिचय प्राप्त कर विद्यार्थी उसका उपयोग अपने जीवन में कर सकेगा।
2. जनसंचार माध्यमों की जानकारी से विद्यार्थी रोजगार प्राप्त कर सकता है।
3. जनसंचार माध्यमों के द्वारा सम्पूर्ण विश्व की जानकारी कम समय में हो सकती है।

## हिन्दी

एम.ए. सेमेस्टर—प्रथम

ऐच्छिक पत्र (ELECTIVE PAPER)

Paper Code - MAH 104

समूह स

चतुर्थ पत्र : तुलनात्मक साहित्य : सिद्धान्त और प्रविधि

क्रेडिट—4

उद्देश्य—

1. तुलनात्मक साहित्य सिद्धान्तों और अध्ययन प्रविधि का आधारभूत ज्ञान।
2. भारतीय साहित्य परम्परा के साथ साथ अन्य परम्परा का ज्ञान करवाना।
3. तुलनात्मक साहित्य सिद्धान्तों और अध्ययन को भलिभांति समझकर, स्वनिर्णय करना।

उपलब्धियां —

1. विद्यार्थी का बौद्धिक विकास होगा।
2. सही गलत के निर्णय में उपयोगी।
3. तुलनात्मक साहित्य से विद्यार्थी अनुवाद की प्रक्रिया समझ सकता है।

हिन्दी

**Semester – I Core Foundation Paper**

**Course Code – JVB 101 Value Education**

**[CIA- 30, Written 70]**

**Marks 100**

**Credit-4**

### **Objectives**

1. To understand the need of value oriented education.
2. To understand the process of contemplation for value development.

### **Outcome**

1. Student make the life easier by moral education.
2. To make strong nation by moral education

हिन्दी

एम.ए. सेमेस्टर–द्वितीय

अनिवार्य पत्र (CORE PAPER)

**Paper Code - 201**

षष्ठ पत्र : आधुनिक हिन्दी कविता

क्रेडिट–4

### **उद्देश्य–**

1. आधुनिक हिन्दी काव्य का ऐतिहासिक पक्ष, प्रवृत्तियां और रचनाकारों की जानकारी;
2. इस कालखंड के प्रमुख रचनाकारों और उनकी कृतियां;
3. आधुनिक हिन्दी के विभिन्न पक्षों और रचनाकारों सम्बन्धित आलोचनात्मक दृष्टि।

### **उपलब्धियां–**

1. आधुनिक हिन्दी काव्य का ऐतिहासिक पक्ष, प्रवृत्तियां और रचनाकारों की जानकारी प्राप्त हुई।
2. इस कालखंड के प्रमुख रचनाकारों और उनकी कृतियों का परिचय प्राप्त हुआ।
3. आधुनिक हिन्दी के विभिन्न पक्षों और रचनाकारों सम्बन्धित आलोचनात्मक दृष्टि प्राप्त हुई।

## हिन्दी

एम.ए. सेमेस्टर-द्वितीय

अनिवार्य पत्र (CORE PAPER)

Paper Code - 202

सप्तम पत्र : साहित्य शास्त्र : भारतीय एवं पाश्चात्य

क्रेडिट-4

### उद्देश्य-

1. साहित्य शास्त्र के विभिन्न सैद्धान्तिक पक्ष;
2. भारतीय साहित्य शास्त्र के सिद्धान्त एवं विद्वानों का परिचय;
3. पाश्चात्य साहित्य शास्त्र के सिद्धान्त एवं विद्वानों का परिचय।

### उपलब्धियां-

1. साहित्य शास्त्र के विभिन्न सैद्धान्तिक पक्ष के माध्यम से विद्यार्थी साहित्य शास्त्र का ज्ञान कर सकेगा।
2. भारतीय साहित्य शास्त्र के सिद्धान्त एवं विद्वानों का परिचय प्राप्त कर सकेगा।
3. पाश्चात्य साहित्य शास्त्र के सिद्धान्त एवं विद्वानों का परिचय प्राप्त करने के साथ-साथ तुलनात्मक दृष्टि विकसित हो सकेगी।

## हिन्दी

एम.ए. सेमेस्टर-द्वितीय

अनिवार्य पत्र (CORE PAPER)

Paper Code - 203

अष्टम पत्र : हिन्दी कहानी

क्रेडिट-4

### उद्देश्य-

1. हिन्दी कहानी के आरंभ से लेकर उसके वर्तमान स्वरूप तक का विकास;
2. हिन्दी कहानी की प्रमुख प्रवृत्तियाँ और रचनाकारों का ज्ञान;
3. हिन्दी कहानी की वर्तमान स्थिति और प्रवृत्तियाँ।

### उपलब्धियां-

1. हिन्दी कहानी के आरंभ से लेकर उसके वर्तमान स्वरूप तक की विकास यात्रा को हृदयंगम करना।
2. हिन्दी कहानी की प्रमुख प्रवृत्तियाँ और रचनाकारों का ज्ञान प्राप्त हुआ।
3. हिन्दी कहानी की वर्तमान स्थिति और प्रवृत्तियों के माध्यम से कहानी लेखन की प्रवृत्ति का विकास।

**हिन्दी**  
**एम.ए. सेमेस्टर-द्वितीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**Paper Code - 204**  
**समूह अ**  
**नवम पत्र : मीडिया की आचार संहिता**  
**क्रेडिट-4**

**उद्देश्य-**

1. पत्रकारिता और पत्रकारों के दायित्व और उनके आचरण के आदर्श और यथार्थ;
2. पत्रकारिता से जुड़े प्रमुख कानून और प्रेस परिषद् की भूमिका;
3. बदलते परिदृश्य में नए कानून और आचार संहिता की चुनौतियाँ।

**उपलब्धियां-**

1. पत्रकारिता और पत्रकारों के दायित्व और उनके आचरण के आदर्श और यथार्थ रूप को ग्रहण करना।
2. पत्रकारिता से जुड़े प्रमुख कानून और प्रेस परिषद् की भूमिका का ज्ञान करना।
3. बदलते परिदृश्य में नए कानून और आचार संहिता की चुनौतियों की जानकारी प्राप्त करना।

**हिन्दी**  
**एम.ए. सेमेस्टर-द्वितीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**Paper Code - 204**  
**समूह ब**  
**नवम पत्र : जनसंचार : मुद्रित माध्यम**  
**क्रेडिट-4**

**उद्देश्य-**

1. पत्रकारिता का परिचय और समाचार के तत्वों, स्रोत और समाचार लेखन की संरचनाओं और विविध रूपों की जानकारी;
2. समाचार एवं अन्य सामग्री का संपादन और समाचार रिपोर्टिंग के क्षेत्रों और लेखन के प्रकारों आदि का ज्ञान;
3. समाचार, फीचर, समीक्षा आदि के लेखन के अभ्यास।

**उपलब्धियां-**

1. पत्रकारिता का परिचय और समाचार के तत्वों, स्रोत और समाचार लेखन की संरचनाओं और विविध रूपों की जानकारी के साथ-साथ समाचारों की संवेदनशीलता का ग्रहण।
2. समाचार एवं अन्य सामग्री का संपादन और समाचार रिपोर्टिंग के क्षेत्रों और लेखन के प्रकारों आदि का ज्ञान करते हुए समाचार के महत्त्व को प्रतिपादित किया जा सकेगा।
3. समाचार, फीचर, समीक्षा आदि के लेखन का अभ्यास।



**हिन्दी**  
**एम.ए. सेमेस्टर-द्वितीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**Paper Code - 204**  
**समूह स**  
**नवम पत्र : आधुनिक भारतीय कविता**  
**क्रेडिट-4**

**उद्देश्य-**

1. विशिष्ट आधुनिक भारतीय कविताओं का अध्ययन और तुलनात्मक विवेचन।
2. आधुनिक भारतीय कविता का आधारभूत परिचय।
3. समसामयिक विषयों को लेकर कविता लेखन का अभ्यास करना।

**उपलब्धियां-**

1. विशिष्ट आधुनिक भारतीय कविताओं का अध्ययन और तुलनात्मक विवेचन किया गया।
2. आधुनिक भारतीय कविता का आधारभूत परिचय प्राप्त हुआ।
3. समसामयिक विषयों को लेकर कविता लेखन का अभ्यास करवाया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-द्वितीय**  
**आधारभूत प्रश्न-पत्र (FOUNDATION PAPER)**  
**JVB 201**  
**दशम पत्र : कम्प्यूटर अनुप्रयोग**  
**क्रेडिट-4**

**पूर्णांक : 100 (70 लिखित परीक्षा + 30 CIA)**

**Objectives:**

- It will expose the students to the fundamentals of the IT.
- Students will be having the introductory knowledge of the MS-Windows
- Practically students will be able to use MS-PowerPoint, MS-Word, MS-Excel and create their own blog.

**Outcome:**

- Students will apply the knowledge of IT practically in their day-to-day life.
- Students will be able to create well-formatted documents, attractive presentations and calculation part through excel.
- Students will be able to create their own blog.

**हिन्दी**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -301**  
**एकादश पत्र : हिन्दी आलोचना**  
**क्रेडिट-4**

**उद्देश्य-**

1. हिन्दी आलोचना की पद्धतियां और विकास को जानना।
2. इस युग के प्रमुख रचनाकारों का परिचय प्राप्त करते हुए उनकी आलोचनात्मक दृष्टि का परिचय प्राप्त करना।
3. समकालीन आलोचनात्मक साहित्य का परिचय प्राप्त करना।

**उपलब्धियां-**

1. हिन्दी आलोचना की पद्धतियां और विकास को जानते हुए शोधपरक दृष्टि विकसित हुई।
2. इस युग के प्रमुख रचनाकारों का परिचय प्राप्त करते हुए उनकी आलोचनात्मक दृष्टि का परिचय प्राप्त कर उनके साहित्य के माध्यम से नई दृष्टि का विकास किया गया।
3. समकालीन आलोचनात्मक साहित्य का परिचय प्राप्त कर समसामयिक विषयों पर लेखन कार्यों को प्रोत्साहित किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -302**  
**द्वादश पत्र : नाटक और रंगमंच**  
**क्रेडिट-4**

**उद्देश्य-**

1. रंगमंच के महत्त्व को प्रतिपादित करना।
2. नाटक और रंगमंच के इतिहास और विकास को समझना।
3. प्रमुख रंगमंच के विशेषज्ञों के बारे में जानकारी करना।

**उपलब्धियां-**

1. रंगमंच के महत्त्व को प्रतिपादित करते हुए रोजगार की संभवनाओं की तलाश की गई।
2. नाटक और रंगमंच के इतिहास और विकास को समझते हुए रंगमंच की बारीकियों से अवगत कराया गया।
3. प्रमुख रंगमंच के विशेषज्ञों के बारे में जानकारी करते हुए उनके अनुभवों को आत्मसात करने का प्रयास किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -303**  
**त्रयोदश पत्र : अनुवाद सिद्धान्त**  
**क्रेडिट-4**

**उद्देश्य-**

1. अनुवाद की अवधारणा, विकास एवं सिद्धान्तों का परिचय;
2. अनुवाद के लिए आवश्यक यंत्रों, तकनीकों एवं कौशल का परिचय;
3. अनुवाद के विभिन्न प्रकारों एवं नवीनतम परिवर्तनों की जानकारी देना।

**उपलब्धियां-**

1. अनुवाद की अवधारणा, विकास एवं सिद्धान्तों का परिचय प्राप्त करते हुए अनुवाद की गंभीरता को समझा गया।
2. अनुवाद के लिए आवश्यक यंत्रों, तकनीकों एवं कौशल का परिचय प्राप्त किया गया।
3. अनुवाद के विभिन्न प्रकारों एवं नवीनतम परिवर्तनों की जानकारी दी गई।
4. अनुवाद कौशल को विकसित करते हुए रोजगारोन्मुख किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-तृतीय**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -304**  
**चतुर्दश पत्र : हिन्दी भाषा इतिहास, स्वरूप और उसका समाज शास्त्र**  
**क्रेडिट-4**

**उद्देश्य-**

1. भाषा, संप्रेषण और भाषा के घटकों का अध्ययन करना;
2. भाषा और समाज, बहुभाषिकता एवं भाषा नियोजन के विभिन्न पहलुओं का अध्ययन;
3. भाषा विज्ञान के विभिन्न अध्ययन क्षेत्रों का परिचय करवाना।

**उपलब्धियां-**

1. भाषा, संप्रेषण और भाषा के घटकों का अध्ययन करते हुए भाषा के महत्त्व को प्रतिपादित किया गया।
2. भाषा और समाज, बहुभाषिकता एवं भाषा नियोजन के विभिन्न पहलुओं का अध्ययन करते हुए भाषाओं का तुलनात्मक अनुशीलन किया गया।
3. भाषा विज्ञान के विभिन्न अध्ययन क्षेत्रों के द्वारा भाषा के महत्त्व को प्रतिपादित किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-तृतीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**

**Paper Code -305**

**समूह अ**

**पंचदश पत्र : पटकथा लेखन और फिल्म निर्माण**

**क्रेडिट-4**

**उद्देश्य-**

1. पटकथा लेखन और फिल्म निर्माण की जानकारी दी जाएगी;
2. हिन्दी सिनेमा के विकास और उसके सौन्दर्य शास्त्र से अवगत कराया जाएगा;
3. पटकथा लेखन और फिल्म निर्माण के सम्बन्धों के अध्ययन के लिए प्रेरित किया जाएगा।

**उपलब्धियां-**

1. पटकथा लेखन और फिल्म निर्माण की जानकारी दी गई।
2. हिन्दी सिनेमा के विकास और उसके सौन्दर्य शास्त्र से अवगत कराया गया।
3. पटकथा लेखन और फिल्म निर्माण के सम्बन्धों के अध्ययन के लिए प्रेरित किया गया।
4. रोजगार के अवसरों को प्राप्त किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-तृतीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**

**Paper Code -305**

**समूह ब**

**पंचदश पत्र : जनसंचार : रेडियो एवं टेलीविजन**

**क्रेडिट-4**

**उद्देश्य-**

1. रेडियो और टेलीविजन के विकास एवं अन्य पक्षों का अध्ययन;
2. इन माध्यमों में संचार के विभिन्न विधाओं का परिचय एवं अध्ययन;
3. समाचार और अन्य कार्यक्रमों का अभ्यास।

**उपलब्धियां-**

1. रेडियो और टेलीविजन के विकास एवं अन्य पक्षों का अध्ययन किया गया।
2. इन माध्यमों में संचार के विभिन्न विधाओं का परिचय एवं अध्ययन करते हुए उनका उपयोग करना सुनिश्चित किया गया।
3. समाचार और अन्य कार्यक्रमों का अभ्यास करने के उपरान्त रोजगार प्राप्ति की संभावना बढ़ी है।

**हिन्दी**  
**एम.ए. सेमेस्टर-तृतीय**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**Paper Code -305**  
**समूह स**  
**पंचदश पत्र : लोक साहित्य**  
**क्रेडिट-4**

**उद्देश्य-**

1. लोक साहित्य के तत्त्वों और प्रकार की जानकारी दी जाएगी;
2. लोक साहित्य के विकास और उसके सौन्दर्यशास्त्र से अवगत कराया जाएगा;
3. राजस्थान के लोक साहित्य के अध्ययन के लिए प्रेरित किया जाएगा।

**उपलब्धियां-**

1. लोक साहित्य के तत्त्वों और प्रकार की जानकारी के माध्यम से लोकसंस्कृति को जीवित रखने का प्रयास किया गया।
2. लोक साहित्य के विकास और उसके सौन्दर्यशास्त्र से अवगत कराते हुए उसके महत्त्व को प्रतिपादित किया गया।
3. राजस्थान के लोक साहित्य के अध्ययन के लिए प्रेरित किया गया एवं राजस्थान की सांस्कृतिक विरासत को अक्षुण्ण बनाने के लिए विद्यार्थियों को प्रेरित किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -401**  
**षोडश पत्र : हिन्दी भाषा-शिक्षण**  
**क्रेडिट-4**

**उद्देश्य-**

1. भाषा शिक्षण के विभिन्न पक्षों और भाषा सीखने-सिखाने में उनके प्रभावों;
2. भाषा शिक्षण में भाषा वैज्ञानिक ज्ञान की आवश्यकता;
3. भाषा शिक्षण की विभिन्न विधियां और पाठ नियोजन का महत्त्व।

**उपलब्धियां-**

1. भाषा शिक्षण के विभिन्न पक्षों और भाषा सीखने-सिखाने का प्रयास किया गया।
2. भाषा शिक्षण में भाषा वैज्ञानिक ज्ञान की आवश्यकता पर बल दिया गया।
3. भाषा शिक्षण की विभिन्न विधियां और पाठ नियोजन का महत्त्व प्रतिपादित करते हुए राष्ट्रीय भाषा के महत्त्व को प्रतिपादित किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -402**  
**सप्तदश पत्र : कथेतर गद्य विधाएँ**  
**क्रेडिट-4**

**उद्देश्य-**

1. विभिन्न गद्य रूपों का परिचय;
2. इन विधाओं के रचनाकारों और उनकी रचनाओं का अध्ययन;
3. इन विधाओं में विद्यार्थियों को लेखन के अभ्यास कराना।

**उपलब्धियां-**

1. विभिन्न गद्य रूपों का परिचय प्राप्त करते हुए उनके महत्त्व को प्रतिपादित किया गया।
2. इन विधाओं के रचनाकारों और उनकी रचनाओं का अध्ययन करवाया गया।
3. इन विधाओं में विद्यार्थियों को लेखन के अभ्यास करवाया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -403**  
**अष्टादश पत्र : हिन्दी साहित्य और सिनेमा**  
**क्रेडिट-4**

**उद्देश्य-**

1. हिन्दी साहित्य और सिनेमा की जानकारी दी जाएगी;
2. हिन्दी सिनेमा के विकास और उसके सौन्दर्य शास्त्र से अवगत कराया जाएगा;
3. एनिमेशन और डिजिटल सिनेमा और साहित्य के सम्बन्धों के अध्ययन के लिए प्रेरित किया जाएगा।

**उपलब्धियां-**

1. हिन्दी साहित्य और सिनेमा की जानकारी दी गई।
2. हिन्दी सिनेमा के विकास और उसके सौन्दर्य शास्त्र से अवगत कराया गया।
3. एनिमेशन और डिजिटल सिनेमा और साहित्य के सम्बन्धों के अध्ययन के लिए प्रेरित किया गया तथा रोजगार प्राप्ति की दिशा में विद्यार्थियों को प्रेरित किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**अनिवार्य पत्र (CORE PAPER)**  
**Paper Code -404**  
**एकनविंशति पत्र : आशु अनुवाद**  
**क्रेडिट-4**

**उद्देश्य-**

1. आशु अनुवाद के विभिन्न पक्षों और सिद्धान्तों से परिचित करवाना;
2. आशु अनुवाद के विभिन्न प्रकारों के स्वरूप, महत्त्व और प्रणाली से अवगत करवाना;
3. विभिन्न प्रकार के आशु अनुवादों का अभ्यास करवाना।

**उपलब्धियां-**

1. आशु अनुवाद के विभिन्न पक्षों और सिद्धान्तों से परिचित करवाया गया।
2. आशु अनुवाद के विभिन्न प्रकारों के स्वरूप, महत्त्व और प्रणाली से अवगत करवाते हुए उसके महत्त्व को प्रतिपादित किया गया।
3. विभिन्न प्रकार के आशु अनुवादों का अभ्यास करवाया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**Paper Code -405**  
**समूह अ**  
**विंशति पत्र : साहित्य एवं कला रूप**  
**क्रेडिट-4**

**उद्देश्य-**

1. हिन्दी साहित्य और विविध कला रूपों के अंतर्संबंधों की जानकारी दी जाएगी;
2. साहित्य की निर्मिति और विश्लेषण में विविध कलाओं की भूमिका से अवगत करवाया जाएगा।

**उपलब्धियां-**

1. हिन्दी साहित्य और विविध कलाओं के अन्तर्सम्बन्धों को उद्घाटित किया गया।
2. साहित्य की निर्मिति और विश्लेषण में विविध कलाओं की भूमिकाओं पर प्रकाश डाला गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**Paper Code -405**  
**समूह ब**  
**विंशति पत्र : इण्टरनेट और वेब पत्रकारिता**  
**क्रेडिट-4**

**उद्देश्य-**

1. साइबर मीडिया का विकास और उसकी संभावनाओं की जानकारी दी जाएगी;
2. ऑन लाइन संपादन, ई अखबार, वेब रेडियो, वेब पर टेलीविजन पत्रकारिता जैसे क्षेत्रों का अध्ययन किया जाएगा;
3. साइबर पत्रकारिता के आर्थिक एवं प्रबंध सम्बन्धी पक्षों और कानूनों की चर्चा की जाएगी।

**उपलब्धियां-**

1. साइबर मीडिया का विकास और उसकी संभावनाओं की जानकारी के साथ उसके महत्त्व को प्रतिपादित किया गया।
2. ऑन लाइन संपादन, ई अखबार, वेब रेडियो, वेब पर टेलीविजन पत्रकारिता का दैनिक जीवन में उपयोग सुनिश्चित किया गया।
3. साइबर पत्रकारिता के आर्थिक एवं प्रबंध सम्बन्धी पक्षों और कानूनों की चर्चा के साथ उसके रोजगार प्राप्ति के पक्ष को भी निर्देशित किया गया।

**हिन्दी**  
**एम.ए. सेमेस्टर-चतुर्थ**  
**ऐच्छिक पत्र (ELECTIVE PAPER)**  
**Paper Code -405**  
**समूह स**  
**विंशति पत्र : लोक संचार**  
**क्रेडिट-4**

**उद्देश्य-**

1. लोक संचार के विभिन्न रूपों और उनके विकास की जानकारी दी जाएगी;
2. आधुनिक जनसंचार में लोक संचार की भूमिका से अवगत करवाया जाएगा।

**उपलब्धियां-**

1. लोक संचार के विभिन्न रूपों और उनके विकास की जानकारी दी गई।
2. आधुनिक जनसंचार में लोक संचार की भूमिका से अवगत कराया गया।



अथवा  
लघु शोध प्रबन्ध

क्रेडिट-4

पूर्णांक : 100 (70 Dissertation + 30 Viva-voce)

उद्देश्य—

1. शोध से परिचय करवाना।
2. शोध की विभिन्न विधियों का परिचय करवाना।
3. शोध का मार्ग प्रशस्त करना।
4. भाषा एवं लिपि का ज्ञान करवाना।

उपलब्धियां—

1. विद्यार्थी शोध के क्षेत्र में कार्य कर सकता है।
2. शोध की विभिन्न विधियों के माध्यम से कम समय एवं कम खर्च में शोध किया जा सकता है।
3. शोध के माध्यम से हमारी साहित्यिक एवं सांस्कृतिक धरोहर को सुरक्षित किया जा सकता है।

## M.A. /M.Sc. in yoga & SOL

### Credits

1. One theory period of 4 hrs. per week over a semester.
2. One Practical period of 8 hrs. Per week over a semester.
3. Each course having 4 credits.
4. Whole programme will be of 80 credits (20 credit per semester)

### Programme and specific outcomes.

PO1- Yoga and science of Living knowledge – apply the knowledge of yoga, Preksha meditation, science of Living, applied psychology and physiology, value education naturopath and other alternative therapies.

PO2- Analysis of problems- Identify different problems of the field and apply specific solutions according to the need of hour.

PO3- Therapy – apply the skills of yoga and different therapies on difficult life style disorders, psycho-physiological disorders and different diseases.

PO4- conduct research – using the existing knowledge and literature can conduct the different literacy and empirical researches in the field of yoga and science of living for the welfare of society and nation.

PO5- manage projects- apply the knowledge to formulate and manage the different projects related to applied fields of yoga and alternative therapies.

PO6- Yoga centers and camps- Conduct Yoga camps in different regions and also able to operate Yoga centers, wellness clubs and studios.

PO7- Ethics- apply ethical principles and commit to professional ethics and responsibilities and norms of therapy and yoga practices.

PO8- Life Long learning- According to the need of hour, engage his self independent and life long learning in contact to change in technology and methods of treatment.

## **Course Outcomes**

### **Semester – I**

#### **COs for "foundation of Yoga"**

CO1 – describe the basic concept of Yoga.

CO2 – Differentiate between different traditions of Yoga

CO3- Identify different types of mediation.

CO4- Describe the difference in different tradition and types of Yoga and meditation.

CO5- Apply the knowledge of different Yogacharyas in solving the present era problems.

#### **COs For 102 basic Elements of Preksha mediation**

CO1- Introduce the Preksha mediation in general perception of breathing.

CO2- Describe the spiritual – scientific approach to main components of P.M. like internal trip and perception of breathing.

CO3- To understand the perception of study and its technique and psychic- centers and its scientific background.

Co4- To know and practice of psychic colors and its practice with contemplation.

#### **MYS 103 : Practice of Yoga and Preksha mediation and (Practical)**

CO1- To practice of whole body with special exercises in different position.

CO2- Expertise in Surya Namaskar.

CO3 – Understand process and practice of Pranayam.

CO4- Knowing different madras for health.

CO5- A. Practice and learn to health P.M.

B. Practice the complete relaxation.

C. To understand propose of contemplation.

D. To develop the therapeutic approach.

#### **MYS 104: Experiments of Physiology (Practical)**

1. Expatriation in testing of blood, pressure blood sugar

2. Measure breathing capacity and examine the effect of pranayama.

3. To learn how to operate different physiological machines.

## **Course Outcomes**

### **MYS 105: Applied Human Anatomy and Physiology (Core Elective)**

- CO 1. Understand basic elements of human anatomy and physiology.
- CO 2. Gain the knowledge of system of body in respect of Yoga and P.M.
- CO 3. Develop the scientific research approach to P.M.
- CO 4. For be their understanding the P.M. to study the neuro endocrine system and Immune system.

### **MYS 106: Alternative therapies (Core Elective)**

- CO 1. Develop the skill of acupressure to heal the patients.
- CO 2. Improve the health through magnet therapy.
- CO 3. Heal the different diseases with practice of Reiki.
- CO 4. Understand the Aroma therapy to reduce the Mental Problems.

## **Semester II**

### **MYS201: Basic Yoga Texts**

- CO 1. Study the different Yogaprishad for deep understanding of Yoga.
- CO 2. To understand the text of Hatha Pradipika in detail and other for knowledge.
- CO 3. To acquire the knowledge of Asana and Pranayam Bandha and mudra based on original text.
- CO 4. To introduce different types of Yoga text.

### **MYS 202: Basic Elements of Science of Living**

- CO 1. To understand the basic elements of life for development of balanced personality.
- CO 2. Apply the science of living as a new dimension of education to complete the purpose to education.
- CO 3. Develop the open mindedness, self-control and nonviolent personality for healthy society.
- CO 4. Enrich the value in mankind by practicing anuvrats that's small vows.

### **MYS 203: Practice of Yoga and Preksha Meditation (Practical)**

- CO 1. Learn and solve the particular problem of organs of body by yogic exercise.

Expatriation in advanced asanas.

CO 2. Practice and experience of pranayama. Understand different madras for healing.

CO 3. Practice P.M. and contemplation. Peace of mind and values.

CO 4. Practice the different types of shatkarma for detoxification of your body.

### **Course Outcomes**

#### **MYS 204: Psychological Assessments (Practical)**

1. Learn the measurement of psychological factors.
2. To measure the different aspects of personality.
3. To assess the health factors.
4. To study the effect of P.M. on psychosomatic problems.

#### **MYS 205: Applied Psychology**

CO 1. Understand the applied psychology and its field. Study the role of P.M. and yog in the field of applied psychology.

CO 2. Describe the perception and cognition. With practice of P.M. improve the quality of perception and cognition.

CO 3. Gain the knowledge of intelligence and creativity.

CO 4. Understand the different dimension of personality. To develop spirito- scientific personality through P.M.

#### **MYS 206: Samkhya, Shaiv, Jaina and Bauddha Yoga**

CO 1. Study the different schools of traditional yoga

Acquire the knowledge of samkhya yoga and its different aspects.

CO 2. Study the philosophical basis of Shaiv yoga and its practice.

CO 3. Understand the using of meditation in based on Jain texts.

CO 4. To understand types of mediations in Bauddha Yoga and different aspects of sadhana.

### **Semester III**

#### **MYS 301: Hatha Yoga**

CO 1. Understand the different aspects of Hatha Yoga.

Develop the analytic approach through study of different Hatha texts.

CO 2. To gain theoretical and practical knowledge of different Assans.

CO 3. A gain the knowledge of pranayama in special aspect of hatha Yoga.

CO 4. To gain knowledge of Bandh Mudras and other practice of for healing and develop spirituality.

### **Course Outcomes**

#### **MYS302 self-management and preksha meditation**

CO 1. To understand the technique of self-management.

to learn the process of goal achive the through P.M.

CO 2. Acquire the knowledge of emotions, stress and manage them through P.M.

CO 3. To develop the different capabilities and practice to develop them for better confidence.

CO 4. Promote communication skill, will power and imagination power for innovative ideas.

#### **MYS 303 : Practice of Yoga and Preksha Meditation (Practical)**

CO 1. Gain the experience of regular practice of previous exercise.

CO 2. Develop the skill of exercise for back Problem.

CO 3. Advance practice of Pranayam Mudra and Bandh for complete health.

CO 4. Practice the perception of psychic centers and contemplation for desired personality

CO 5. To solve the disease with the practice of special mudras.

CO 6. Learn the advance types of Shatkarma

#### **MYS304: Practice of Naturopathy (Practical)**

CO 1. Introduce of the panch mahabhoot and its application

#### **MYS305: Abnormal Psychology**

CO 1. Gain the knowledge of abnormal behavior and mental disorders.

CO 2. Understand the problem of neuroses and its types and solution through P.M.

CO 3. Study neurological disorder and control through Yoga and Preksha Meditation.

CO 4. Understand the problem of schizophrenia and its types

## **Course Outcomes**

### **MYS306: Naturopathy**

- CO 1. Understand the basic principles of naturopathy.
- CO 2. Develop the skill in the water therapy and its types.
- CO 3. Gain the knowledge of air and earth elements and their therapy
- CO 4. Use the sun therapy for healing

### **MYS307: Dietetics and Nutrition**

- CO 1. Know the basic concept of nutrition
- CO 2. Gain the knowledge of relation between nutrition and health  
Understand the concept of Yogic diet for betterment of life.
- CO 3. Study the requirement as a nutrition
- CO 4. Plan the diet and nutrition for different aspect of health and age.

## **Semester IV**

### **MYS 401: Patanjali Yoga**

- CO 1. Understand the original yoga text of patanjali.  
To understand the meaning and pursue of yoga in special contexts of yoga sutra
- CO 2. To study the samadhipaad and its types
- CO 3 Gain the knowledge of sadhana paad and its practice
- CO 4. Apure the knowledge of bibhuti and kaivalya paad through text

### **MYS402 Health Management and Preksha Mediation- Yoga**

- CO 1. Develop the concept of health and role of P.M.
- CO 2. Manage the physical diseases through the practice of Preksha therapy
- CO 3. Understand the systems and scientific causes of disorders and their management
- CO 4. Study the critical diseases and prevent through yoga and P.M.

## **Course Outcomes**

### **MYS403: Practice of Yoga & Preksha Meditation (Practical)**

- CO 1. Gain the experience through regular practice of Asans
- CO 2. Learn and teach the practice of pranyam and mudra for healing
- CO 3. Develop the skill of yoga teacher
- CO 4. Apply the different mudra for diseases

### **MYS405: Applied Psychology, Re-habilitation and Preksha Meditation-Yoga**

- CO 1. Understand the science of behavior
- CO 2. Understand the concept of rehabilitations and solution through P.M.
- CO 3. Address the organizational problems and manage through P.M.
- CO 4. Study the developmental stages of human living and culture and control their problem through P.M.

### **MYS406: Human Consciousness and Parapsychology**

- CO 1. Study the Indian psychology and concept of consciousness
- CO 2. Understand psychological basis of human consciousness and promotion through P.M.
- CO 3. Understand the elements of life in regard of Indian psychology
- CO 4. Study the concept of Para- psychology and develops the extra sensory perception through P.M.

### **MYS407: Research Methodology**

- CO 1. Study the nature and steps of scientific research
- CO 2. Understand the various aspects of research
- CO 3. Gain the knowledge of sampling and research design
- CO 4. Understand the analysis of data and results.

### **MYS 408: Dissertation**

To develop the capability of higher research



## **Summary of Programme Output:**

### **The Summary of Programme Output:**

- Develop qualified and trained professional social workers through Impart education and training develop knowledge, skills, attitudes and values, Promote integration of theory and practice in the fields of social welfare and social policy.
- Develop better understanding about human problems, systemic discrimination and marginalization; issues of social development and needed services through provide interdisciplinary collaboration.
- Understand and apply theoretical frameworks and scientific orientation to inform assessment and guide practice interventions with individuals, groups and community.
- Use professional values, ethics and skills to provide a foundational context within the generalist practice framework of engagement, assessment, intervention and evaluation
- Demonstrate awareness, sensitivity and respect for the influence of human diversity in shaping life experiences across the lifespan, nationally as well as globally

## **Summary of Specific Output of Programme:**

### **The Specific Output of Programme:**

The students will be trained professionally and become generalist social work professionals by enhancing their commitment to democracy, peace, human rights, people's empowerment, social justice, and human diversity. As part of educational experience, the programme provides students with opportunities to develop appropriate attitudes, skills and critical perspectives imbued with spirituality in providing services in the public, corporate, non-profit development sectors and civil society.

## Summary of our e Output

### Seme ter:

**MS : So a S e e o ept for So a or er**

**Output:**

Development of understanding about concepts of basic sociological aspects, related to polity, basic concepts of economics relevant to social work and knowledge about ecology.

**MS : So a or : ature a d e e opme t**

**Output:**

Better understanding of concepts, historical evolution, influence of philosophies, nature and practice of professional social work.

**MS : uma P y ho ogy a d Per o a ty e e opme t**

**Output:**

Development of understanding of psychological concepts, theories, therapies and their application in social work Practice.

**MS : So a u o a d u era ty**

**Output:**

Understanding of concept and issues related to social exclusion, inclusion and vulnerability

**MS : fe S du at o**

**Output:**

Development of knowledge about life skills, their affliction and health education.

### Seme ter:

**MS : or g th d dua a d roup**

**Output:**

Development of understanding of methods, tools, techniques and skills for working with individuals and groups.

**MS : or g th ommu te**

**Output**

Development of understanding of methods, tools, techniques and skills for working with community.

**MS : So a e fare dm trat o a d So a t o**

**Output:**

Understanding of administrative policies and principles, as well as social welfare administration and social action as methods of social work.

**MS : uma ght So a u t e a d So a or Pra t e**

**Output:**

knowledge about concept and instruments of human rights and social justice

**MS : Ma ageme t of e e opme t Orga at o**

**Output:**

Development of knowledge about structure and functioning of Development organization.

**Seme ter ore ou dat o Paper**

**our e ode : So a or : Theme Pra t e**

**Output:**

Understanding of concepts, nature, Methods and practice of professional social work.

**Seme ter**

**MS : So a or e ear ha d Stat t**

**Output:**

Understanding of process of conducting research as well as logical and statistical interpretation of information in social sciences.

**MS : So a Po y Pa g a d e e opme t**

**Output:**

familiarization with concepts and processes of social policy, planning and development and their significance for Professional social work.

**roup**

**MS : a our e fare a d So a Se ur ty**

**Output:**

Gaining knowledge about employee welfare and social security concepts and systems in India.

**MS : Trade o a d du tra e at o**

**Output:**

acquaintance with trade unions, industrial relations, collective bargaining and industrial conflict.

**roup**

**MS : e hood a d e e opme t**

**Output:**

Development of knowledge about livelihood conception, processes and governance.

**MS : ura So ety Pa hayat a t tut o**

**Output:**

Knowledge about structure and functioning Panchayati a Institutions and their contributions to rural reconstruction

**roup**

**MS : e der am ya dSo a or**

**Output:**

Gaining of knowledge about gender related concepts, gender disparity and violence, family problems, and ocial ork interventions.

**MS : ome mpo erme t d a**

**Output:**

Knowing oncept of women empowerment, legislative provisions, Policies and programmes related to empowerment of women.

**roup**

**MS : ea th a dMed a So a or**

**Output:**

Gaining of knowledge about concept of health, health care services and programmes, community health interventions and nature of social work practice in different health settings.

**MS : P y ho Somat a tor of ea th**

**Output:**

Understanding about concept of psycho somatic factors of health and gain knowledge about diagnosis and medicines, importance of national health programmes and over health care system of India.

**Seme ter**

**MS : tegrated So a or Pra t e**

**Output:**

Knowledge about various dimensions of Integrated pproach to ocial ork heory and Practice

**MS : So a Pro em a dSo a eg at o**

**Output:**

Understanding of basic concepts related to social problems, contemporary Indian ocial problems and ocial egislations.

**MS : ertat o**

**Out ome :**

Gaining knowledge about research steps, identification of research problem, data analysis, report writing etc.

### roup

**MS : Human Resource Management**

**Output:**

gain knowledge about concept and functions of human resource management and discipline in organization.

**MS : Labour Legislation and Welfare**

**Output:**

Learning of Different legislations regarding workers.

### roup

**MS : Rural and Community Development**

**Output:**

gain knowledge and understand about issues related urbanization, community development and local self governance.

**MS : Rural Planning and Development**

**Output:**

gain knowledge and understand about urban planning, urban development and necessary skill development.

### roup

**MS : Child Welfare and Development**

**Output:**

gaining knowledge about child welfare, Development and Protection as well as social work Intervention in these areas.

**MS : Youth Development and Welfare of the aged**

**Output:**

Understanding of concepts, problems, policies, programmes etc. related to youth and aged.

### roup

**MS : Mental Health and Psycho-social Work**

**Output:**

Understanding of concepts, dimensions of mental health, psychiatry and relevance, nature and types of social work interventions in psychiatric settings.

**MS : Mental and Personality Disorders**

**Output:**

gain knowledge and understand about different types of psychotic and psycho neurotic disorders, personality disorders and relevance of social work interventions in mental health.

## Programme Name – M.A. in English

### Objectives and Course Outcomes

Paper Title	Objectives	Course Outcomes
<b>Semester – I</b>		
<b>Sem –I MAE 101: The Use of English</b>	1- To enable the students to know about basic sentence patterns. 2- To make them aware about time and tense. 3- To make them familiar with voice and narration change. 4- To acquaint them with letter, précis and essay writing.	1- The students will be able to understand the basic sentence patterns. 2- They will learn the difference between the direct speech and indirect speech. 3- They will learn writing skills.
<b>Sem –I MAE 102: Poetry: Chaucer to Milton</b>	1- To enable the students to know about Middle English Period and Elizabethan period. 2- To make them aware about Pastoral Elegy, Metaphysical Poetry and Neo Classical Poetry.	1- The students will be able to understand the basic features of British poetry. 2- They will learn the differences between the Neo-Classical and Romantic Poetry.
<b>Sem –I MAE 104: Literary Criticism: Ancient</b>	1- To enable the students to know about the basic concept of Criticism and Theory. 2- To make them aware about the Classical Criticism in Greek. 3- To make them familiar with Classical Criticism in Rome. 4- To acquaint them with Indian Aestheticism.	1- The students will be able to understand the background of literary criticism and theory. 2- They will learn the ancient literary criticism. 3- They will be acquainted with Indian Aestheticism.
<b>Semester – II</b>		
<b>Sem –II MAE 201: Introduction to Modern Linguistics.</b>	1- To enable the students to know about the history of English language. 2- To make them aware about the notion of non-violence. 3- To make them familiar with Gibran’s concept of Prophet. 4- To acquaint them with Tagore’s philosophical way of life.	1- The students will be able to understand various aspects of language. 2- They will learn about second language acquisition. 3- They will come to know the various dialectic forms.
<b>Sem –II MAE 202: British Poetry: Romantic, Victorian and Modern</b>	1- To make them familiar with Romantic and Victorian Poetry. 2- To acquaint them with Modern and Post-Modern Poetry.	1- The students will be able to understand the basic features of British poetry. 2- They will learn the differences between the Neo-Classical and Romantic Poetry. 3- They will be acquainted with modern British poets and their poems.



<b>Sem –II</b> <b>MAE 203:</b> <b>Literature for</b> <b>Indian Values</b>	1- To enable the students to know about contemporary problems. 2- To make them aware about the notion of non-violence. 3- To acquaint them with Tagore’s philosophical way of life.	1- The students will be able to understand the values of human life. 2- They will learn the difference between Tagore and Acharya Tulsi’s philosophy of life. 3- They will get to know the contemporary problems.
<b>Sem –II</b> <b>MAE 204 Drama</b>	1- To enable the students to know about the history of British drama. 2- To make them aware about the Classification of drama. 3- To make them familiar with the differences between Elizabethan and Modern drama. 4- To acquaint them with theatre and meta-theatre.	1- The students will be given knowledge regarding the history of theatre. 2- They will learn the differences between Shakespeare and Ben Johnson’s dramas. 3- They will be acquainted with modern British plays.
<b>Semester – III</b>		
<b>Sem –III</b> <b>MAE 301:</b> <b>American</b> <b>Literature</b>	<b>Objectives:</b> 1- To enable the students to know about the beginning of American literature. 2- To make them aware about the role of women poets in America. 3- To make them familiar with American Dream. 4- To acquaint them with racism and color consciousness.	1- The students will be able to understand the background of American literature. 2- They will learn about American poets and their poems. 3- They will be familiar with American Dream.
<b>Sem –III</b> <b>MAE 302:</b> <b>Modern Indian</b> <b>Classics in</b> <b>Translation.</b>	1- To enable the students to know about contemporary problems. 2- To make them aware about the notion of non-violence. 3- To make them familiar with Gibran’s concept of Prophet	1- The students will be able to understand the values of human life. 2- They will learn the difference between Tagore and Acharya Tulsi’s philosophy of life. 3- They will get to know the contemporary problems.
<b>Sem –III</b> <b>MAE 303:</b> <b>Literary Criticism</b>	1- To enable the students to know about New Criticism. 2- To make them aware about Sign and its role in literary text. 3- To make them familiar with Derrida’s Deconstruction. 4- To acquaint them with Feminism.	1- The students will be able to understand the background of new criticism. 2- They will learn about sign and its function. 3- They will be acquainted with various feministic movements.
<b>Sem –III</b> <b>MAE 305 Fiction:</b> <b>Indian</b>	1- To enable the students to know about the beginning of Indian English Fiction. 2- To make them aware about the Dalit condition in India. 3- To make them familiar with Gandhian philosophy through fiction. 4- To acquaint them with the problems of post-independence India.	1- The students will be able to understand the background of freedom movement in India. 2- They will learn the wretchedness condition of dalit people. 3- They will come to know the pictures of pre and post independent India.

**Semester – IV**

<p><b>Sem –IV</b></p> <p><b>MAE 401:</b> <b>Contemporary Critical Theory:</b></p>	<p>1- To make them aware about Sign and its role in literary text. 2- To make them familiar with Derrida’s Deconstruction. 3- To acquaint them with Feminism.</p>	<p>1- The students will be able to understand the background of contemporary literary theory. 2- They will learn about sign and its function. 3- They will be acquainted with various feministic movements.</p>
<p><b>Sem –IV</b></p> <p><b>MAE 402:</b> <b>African Writing in English</b></p>	<p>1- To enable the students to know about African literature. 2- To make them aware about the problems of Black people. 3- To make them familiar with the condition of women in Africa. 4- To acquaint them with the African women writings.</p>	<p>1- The students will be able to know the background of African literature. 2- They will learn about racism and color issues. 3- They will be acquainted with various cultures.</p>
<p><b>Sem –IV</b></p> <p><b>MAE 403:</b> <b>Contemporary Poetry</b></p>	<p>1- To enable the students to know about contemporary poetry in English. 2- To make them aware about the Diaspora literature. 3- To make them familiar with Australian culture. 4- To acquaint them with the problem of Canadian women.</p>	<p>1- The students will be able to know the importance of contemporary poetry in English. 2- They will learn about the culture and literature about different countries. 3- They will be acquainted with the problems of modern men.</p>
<p><b>Sem –IV</b></p> <p><b>MAE 405:</b> <b>Literature of the Protest</b></p>	<p>1- To enable the students to know about Dalit literature. 2- To make them aware about the role of women in African literature. 3- To make them familiar with the caste system in India. 4- To acquaint them with racism and color consciousness.</p>	<p>1- The students will be able to understand the background of Dalit literature. 2- They will learn about Afro-American writings. 3- They will be familiar with racism and color consciousness.</p>

**Department of Non-violence and Peace  
Jain Vishva Bharati University, Ladnun**

**Nonviolence Peace and Political Science:**

**Summary of Programme Output**

**Nonviolence and Peace**

- ❖ Identify problems and areas concerned with nonviolence and peace.
- ❖ Enable students to analyze the multifaceted nature of peace and conflict in past and present.
- ❖ Facilitates an understanding of traditional and modern conflict situations and helps developing a clear understanding of nonviolence and peace.
- ❖ To provide the students for need of environmental ethics and sustainable development.
- ❖ To make aware the students about the concept of human rights and social justice at national and international level.

**Political Science**

- ❖ Understanding of the political the theories and contemporary Indian and western politics.
- ❖ Builds knowledge about the role of individual's civil society in building world peace.
- ❖ Orient the students to use traditional and electronic library resources to research on local state national and international issues and present rules.
- ❖ To offer the innovative perform of political science blended with the theories of nonviolence and peace.
- ❖ To under students above about Indian and Western and political thought.
- ❖ To provide the information about Indian law and institution.

**Department of Non-violence and Peace  
Jain Vishva Bharati Institute, Ladnun**

**Programme Outcomes and Course Outcomes**

**NVP 101 Philosophy of Nonviolence Peace**

**Objectives**

- i. To understand the concept of nonviolence and peace
- ii. To study the concept of nonviolence in both Indian and non-Indian tradition
- iii. To study the concept of nonviolence according to Acharya Bhikshu, Gandhi and Acharya Mahaprajna
- iv. To have a comparative outlook while studying the subject.

**Course Outcome**

The student will be oriented in a subject, which is more relevant in this time of globe, which is facing several types of crisis regarding environment, terrorism, food crisis, lacking of water resources, etc. There, at this time this programme is proving a beacon light of hope, that nonviolence does exist and is proving its potency to produce an antidote to the problem as aforementioned.

**NVP 102 Sociology of Nonviolence and Peace**

**Objectives**

- i. To have an understanding of origin, genesis and foundation of state.
- ii. To understand the structure of democracy and it's functioning.
- iii. To elucidate the various aspects of equality.

**Course Outcome**

This course provides in depth understanding of political setup, resulting in the knowledge of rights what a common person have and can opt for the political profession.

**NVP 103 Human Rights and Human Security**

**Objectives**

- i. To understand historical, political and philosophical foundation of human rights
- ii. To explore various generation of human rights, the changes taken during the Megnacarta
- iii. To elucidate various types of rights and right as a matter of demand
- iv. To have a outlook at the present scenario of human rights
- v. To understand the threat to human security and to find out the way Outcome.

### **Course Outcome**

The conception of Human Rights is believed to have been initiated on 1215 as Magna Carta. In the due of meantime several developments have been taken to introduce various rights of human of the globe. Ample steps have been taken on National and International level and sometime and some places it has proven its importance. Human Security is also a serious matter to ponder about. Various threats to global peace are very alarming and means to Outcome this crisis are to be understood, research should be done and implementation should take place.

### **NVP 104 : Basic Principles of Gandhian Thought**

#### **Objectives**

- i. To understand the foundation of Gandhian thought with special reference to God, Truth and Nonviolence.
- ii. To elucidate the special features of individual, state, Sarvraj, religion and politics etc. in the reference to Gandhi.
- iii. To have a comprehensive look on the social upliftment concept of Sarvodaya and the division of labour by Varnashram Dharma and life value of Ekadash vrat

#### **Course Outcome**

Gandhi was a great person of the contemporary era and had made several positive changes in political, social scenario of India. His contribution in various aspect is today also having relevance and is proving the light beacon for present generation. His principle of nonviolence has crossed the boundaries of Nation and has been successfully applied, i.e. in U.S.A. and South Africa.

### **NVP – 105: Political Economy**

#### **Objectives**

- i. To know about ancient Indian economy.
- ii. To understand various Model of Economic Development.
- iii. To study comparatively various thought of economics.

#### **Course Outcome**

Economic crisis is important concern for all and it influences greatly the society. Students can opt higher resource for various economic models.

### **NVP 201: Conflict Resolution and Peace Technology**

### **Objectives**

- i. To understand the grey shades of contemporary political and social issues.
- ii. To know the platform of empowerment of weaker section.
- iii. To understand the various aspects of regionalism and castism.

### **Course Outcome**

As it has been said that man is a social being and various issues influence his personal and social life. This course provides the various issues directly influence the people, resulting in to perform a common mindset to overcome these problems.

### **NVP 202: Social and Political Thought of Mahatma Gandhi**

#### **Objective**

- i. To understand the foundation of Gandhian thought and its relevance
- ii. To explore the doctrine of ends and means
- iii. To study the four phases of Satyagraha
- iv. To understand the various aspect of decentralization
- v. Rights and Duties as propounded by Mahatma Gandhi.

#### **Course Outcome**

Mankind is influenced essentially by the society and political setup. We can not ignore them, and any deterioration at any level is to be checked well in time. This is a matter of pleasure that the psyche of society doesn't remain same, and some great personalities within the human society emerges and contributes to make a beautiful world and society. Mahatma Gandhi was among one of the social revolutionary that he has impacted crores of resident of India. His Satyagra (various phases) has dignified the dignity of a common Indian which in due course of time became instrumental for freedom struggle. His political philosophy was very straight and he was concerned to the welfare of the last human in line. Regarding Rights and duties he has emphasised the duties in place of Rights, which are very much logical keeping in view that Rights will be upgraded by performing one's own duty.

### **NVP 203: Relative Economics : Model of Growth**

#### **Objectives**

- i. To have an understanding of Evolution on Political and Historical sociology.
- ii. To know the functioning of Political Sociology.
- iii. To understand Political system of India with special reference to bureaucracy, legitimacy and works.
- iv. To know the interaction society and polity.
- v. To have an indepth knowledge of social satisfaction.

### **Course Outcome**

This has been affirmed that man is a social animal and is invariably related with society and social issues. This course will make the student to understand evolution the political and historical society, what is functioning of political sociology interaction between politics and various categories with are negative for the nation.

### **NVP 204: Nonviolence in Indian Tradition**

#### **Objectives**

- i. To understand the concept of nonviolence in Indian Tradition
- ii. Explore the wider aspect of nonviolence in Vedic tradition
- iii. To study various aspects as propounded in Mahabharat and Geeta
- iv. To analyse minutely the concept of violence and nonviolence.

### **Course Outcome**

Indian culture is a unique culture having its speciality in nonviolence, peaceful coexistence and nonabsolutic outlook. That is why Indian culture has welcomed each religion which has not been originated from Indian soil. These religions also contributed to propogate above mentioned sublime values. But, as Indian concept has its significant characteristics that's, why this is essential to know the hidden treasures from the religious texts of Indian tradition i.e., Ved, Upnishad, Geeta Mahabharat, Jain Agam and Boddh spiritual text. This program will be instrumental in this aspect.

### **NVP 205: Peace Organization and Movements**

#### **Objectives**

- i. To understand the meaning and genises of Panchayati Raj.
- ii. To know the required ammendments of constitution.
- iii. To know the various aspects and plateform of rural development.

### **Course Outcome**

The Panchayati Raj has a basis of the political system of India. Gandhi emphasised in his philosophy the importance of Panchayati Raj and rural development. As the development of India and soul of India relies in rural areas, hence it is important to have indepth knowledge of India. If employment of social people is consumed, which is implemented as MNREGA and have proved to be instrumental for rural upliftment.

### **NVP 301: Peace Education**

#### **Objectives**

- i. To understand the evolution and dimension of peace and peace education
- ii. To explore national and global perspective of peace education
- iii. To find out the limitation of peace education
- iv. To elucidate the social values for enlightened world creation

- v. To review and compare science of living with other school of living, i.e., Gandhian approach of life and living.

### **Course Outcome**

Education is an important factor for the development of any culture, society and individual. No education teaches the negativity. But, at the same time emphasis should be given to that components also which converts a man into human. Value based and peace studies are playing a contributory role for the making aware about the dimensions of peace and how peace can be defined at global perspective. Each person should understand the social values and social justice. Various style of type i.e science of living etc. are the essential part of such type of education.

## **NVP 302: Environmental Ethics and Sustainable Development**

### **Objectives**

- i. To understand the relation of man with nature and various phases of it
- ii. To explore the various causes of environmental degradation
- iii. To elucidate the environmental ethics in various tradition
- iv. To have an outlook on various movements to save the environment.

### **Course Outcome**

Environmental issue is the major issue effecting the mother planet and all living beings. Man has a significant relationship with nature, and if any degradation in environment has taken place, this is the duty of each person to take initiatives for environmental sustainability. Environment is degrading due to several causes such as deforestation, urbanisation, population explosion, energy crises, natural and man made hazards etc. Hence, preventive measures should be taken to eliminate these causes. Several tradition have enlightened we people about environmental ethics, and several movements have taken place to protect the nature.

## **NVP 303: Training in Nonviolence**

### **Objectives**

- i. To understand the consequential results of violence
- ii. To elucidate the factors of change in heart, i.e. detachment, fearlessness, friendliness, forgiveness, compassion, modesty etc.
- iii. To have an outlook on the applied aspect of this training system
- iv. To understand the importance of open-mindedness or non-absolutic outlook
- v. To understand the values inherent in the training module which are related with socio-economical setup.

### **Course Outcome**

Training in nonviolence is having a special characteristics of the offered course. This elucidates various components of the unique training system which in result, makes a significant change in the behaviour of an individual. This programme offer applied aspect as well. Emphasis has been given to both subjectivity as well as objectivity. Several eternal values are to be discussed



comprehensively Life-style change and change in system are the special component of training module.

### **NVP 304: Gandhian Economics**

#### **Objectives**

- i. To understand the philosophical basis of the economic thought of Gandhi
- ii. To understand importance of decentralization and self-reliant economy
- iii. To elucidate the concept of trusteeship
- iv. To findout the relevance of Gandhian/peace economics.

#### **Course Outcome**

Gandhi has played a major role in developing of a new nation, India. He has pondered over almost all the factors which are related with human life. He was not only social or political philosopher but was having economic thought also. The most significant features of his economic thought was trusteeship, swadeshi, decentralization, bread labour, small scale industry, agriculture base economy etc. This programme will enlighten the students on alternative module of economis. This module does not accept the notion that 'globe is a market', rather that it says that' globe is a family'.

### **NVP 305: Nonviolence in Non-Indian Tradition**

#### **Objectives**

- i. To understand various religious traditions comparitively
- ii. To explore the exodur and preaching of Moses
- iii. To understand the life-sketch and teaching of Jesus
- iv. To understand the genesis and teaching of Islam
- v. To have an outlook of various social reformes and peace ambassador.

#### **Course Outcome**

The sublime virtues like nonviolence and peace have been interpreted in all tradition whether Indian and non Indian. Major religions of world i.e. Charistian and Islam propounds the faith on God and depicts various values. Judaism, is believed to be the oldest religion in non-Indian religious faith. There are various thinkers, social reforms, peace ambassador like Marx, Henery Deviad Thorou, Martin Luther King has contributed very significantly in the field of nonviolence and peace.

### **NVP 401: Research Methodology**

#### **Objectives**

- i. To understand the concept of peace research
- ii. To find out the relevance of peace research
- iii. To understand the techniques of research methodology
- iv. To learn the data processing and analysis.

### **Course Outcome**

Research methodology is an important programme, as it gains a path way to a student to have in depth knowledge of his subject. Research especially in peace studies is in few institutes only, and this university is offering this programme, which is very essential for higher studies. In this programme, the component of research methodology is discussed in detail and the techniques i.e., observation, interviews, schedule, questionnaire, sampling are the subject matter of discussion. Data processing and analysing is important factor in research methodology, which are also included in programme.

### **NVP 402: Conflict Resolution with Special Reference to India**

#### **Objectives**

- i. To understand anthropological, social and political bases of conflicts
- ii. To explore the four phases of Satyagraha
- iii. To study Gandhian applied nonviolence on social and political front
- iv. To explore the peace movements in free India.

#### **Course Outcome**

India is nation of diversity, and various culture and traditions are part of this Nation. This diversity proves an uniqueness, but, on the other side some problems can not be overlooked. Ideological, political, religious, economic etc. differences are the causes of various violent conflicts also. We witnessed various conflicts, but, at the same time we have to look for the peaceful resolution also. In this contemporary time Gandhi has proved the potency of nonviolent resolution. Satyagrah is a form of technique which is based on scientific foundation. The Jain technique-Anekant for conflict resolution, Peace Movements, in pre and post independent India will elucidate the students that nonviolence does still exist.

### **NVP 403: Disaster Management**

#### **Objectives**

- i. To understand various types of disaster management
- ii. To study various types of man made disaster
- iii. To explore International strategy for disaster management
- iv. To understand the role of government, NGOs and armed force for disaster management.

#### **Course Outcome**

Disaster, whether natural or man made are hazards for the nature and living beings. Sometimes, the impact of disaster are so vast that it take centuries to overcome the impact. But, in recent time Disaster Management System has emerged and has been developed as a separate discipline in education and a special task force for disaster management. Efforts on governmental part, NGOs, Armed forces have proven their contribution for disaster management.

## **NVP 404: Dissertation and Viva-voce**

### **Objectives**

- i. To have in depth study on identified areas
- ii. To apply the research methodology practically
- iii. To understand the specified problem in its widest aspect
- iv. To motivate student to undertake various research projects and persue for higher studies.

### **Course Outcome**

The programme of dissertation is a part of in-depth study of some identified areas. The research methodology is used to complete the study in the shape of dissertation. This study is focussed on some specified problem and a research aptitude is being developed during the process of study, which proves to be instrumental to motivate students for higher study.

## **NVP 405: Peace Ambassador**

### **Objectives**

- i. To know the life sketch and works of Indian peace ambassadors.
- ii. To have the knowledge of non-indian peace ambassadors.

### **Course Outcome**

World peace in every aspect is having its importance world-wide, the present era is facing hazards and is threatening the world peace. But, it is a matter of pleasure that the world is having various ambassador which have proven to be instrumental to make this hence violent free. The course will be instrumental to know about various national and institutional peace ambassadors.

## **NVP 406 : Human Rights and Social Justice**

### **Objectives**

- i. To understand concepts theories and principles of human rights.
- ii. To know about the instruments of human rights.
- iii. To understand the concept and instruments of social justice.

### **Course Outcome**

The concept of human rights have emerged since after the II<sup>nd</sup> World War. After the declaration of universal distribution of human rights, several development have taken place. This discipline has been introduced in several institutes in national and international level. Social justice is an inherent discipline with human rights. Students will be aware of the

**Department of Non-violence and Peace  
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**Nonviolence Peace and Political Science:**

**Summary of Programme Output**

**Nonviolence and Peace**

- ❖ Identify problems and areas concerned with nonviolence and peace.
- ❖ Enable students to analyze the multifaceted nature of peace and conflict in past and present.
- ❖ Facilitates an understanding of traditional and modern conflict situations and helps developing a clear understanding of nonviolence and peace.
- ❖ To provide the students for need of environmental ethics and sustainable development.
- ❖ To make aware the students about the concept of human rights and social justice at national and international level.

**Political Science**

- ❖ Understanding of the political the theories and contemporary Indian and western politics.
- ❖ Builds knowledge about the role of individual's civil society in building world peace.
- ❖ Orient the students to use traditional and electronic library resources to research on local state national and international issues and present rules.
- ❖ To offer the innovative perform of political science blended with the theories of nonviolence and peace.
- ❖ To under students above about Indian and Western and political thought.
- ❖ To provide the information about Indian law and institution.

**Department of Non-violence and Peace  
Jain Vishva Bharati Institute, Ladnun**

**Programme Outcomes and Course Outcomes**

**NVP 101 Philosophy of Nonviolence Peace**

**Objectives**

- i. To understand the concept of nonviolence and peace
- ii. To study the concept of nonviolence in both Indian and non-Indian tradition
- iii. To study the concept of nonviolence according to Acharya Bhikshu, Gandhi and Acharya Mahaprajna
- iv. To have a comparative outlook while studying the subject.

**Course Outcome**

The student will be oriented in a subject, which is more relevant in this time of globe, which is facing several types of crisis regarding environment, terrorism, food crisis, lacking of water resources, etc. There, at this time this programme is proving a beacon light of hope, that nonviolence does exist and is proving its potency to produce an antidote to the problem as aforementioned.

**NVP 102 Sociology of Nonviolence and Peace**

**Objectives**

- i. To have an understanding of origin, genesis and foundation of state.
- ii. To understand the structure of democracy and it's functioning.
- iii. To elucidate the various aspects of equality.

**Course Outcome**

This course provides in depth understanding of political setup, resulting in the knowledge of rights what a common person have and can opt for the political profession.

**NVP 103 Human Rights and Human Security**

**Objectives**

- i. To understand historical, political and philosophical foundation of human rights
- ii. To explore various generation of human rights, the changes taken during the Megnacarta
- iii. To elucidate various types of rights and right as a matter of demand
- iv. To have a outlook at the present scenario of human rights
- v. To understand the threat to human security and to find out the way Outcome.

### **Course Outcome**

The conception of Human Rights is believed to have been initiated on 1215 as Magna Carta. In the due of meantime several developments have been taken to introduce various rights of human of the globe. Ample steps have been taken on National and International level and sometime and some places it has proven its importance. Human Security is also a serious matter to ponder about. Various threats to global peace are very alarming and means to Outcome this crisis are to be understood, research should be done and implementation should take place.

### **NVP 104 : Basic Principles of Gandhian Thought**

#### **Objectives**

- i. To understand the foundation of Gandhian thought with special reference to God, Truth and Nonviolence.
- ii. To elucidate the special features of individual, state, Sarvraj, religion and politics etc. in the reference to Gandhi.
- iii. To have a comprehensive look on the social upliftment concept of Sarvodaya and the division of labour by Varnashram Dharma and life value of Ekadash vrat

#### **Course Outcome**

Gandhi was a great person of the contemporary era and had made several positive changes in political, social scenario of India. His contribution in various aspect is today also having relevance and is proving the light beacon for present generation. His principle of nonviolence has crossed the boundaries of Nation and has been successfully applied, i.e. in U.S.A. and South Africa.

### **NVP – 105: Political Economy**

#### **Objectives**

- i. To know about ancient Indian economy.
- ii. To understand various Model of Economic Development.
- iii. To study comparatively various thought of economics.

#### **Course Outcome**

Economic crisis is important concern for all and it influences greatly the society. Students can opt higher resource for various economic models.

### **NVP 201: Conflict Resolution and Peace Technology**

### **Objectives**

- i. To understand the grey shades of contemporary political and social issues.
- ii. To know the platform of empowerment of weaker section.
- iii. To understand the various aspects of regionalism and castism.

### **Course Outcome**

As it has been said that man is a social being and various issues influence his personal and social life. This course provides the various issues directly influence the people, resulting in to perform a common mindset to overcome these problems.

### **NVP 202: Social and Political Thought of Mahatma Gandhi**

#### **Objective**

- i. To understand the foundation of Gandhian thought and its relevance
- ii. To explore the doctrine of ends and means
- iii. To study the four phases of Satyagraha
- iv. To understand the various aspect of decentralization
- v. Rights and Duties as propounded by Mahatma Gandhi.

#### **Course Outcome**

Mankind is influenced essentially by the society and political setup. We can not ignore them, and any deterioration at any level is to be checked well in time. This is a matter of pleasure that the psyche of society doesn't remain same, and some great personalities within the human society emerges and contributes to make a beautiful world and society. Mahatma Gandhi was among one of the social revolutionary that he has impacted crores of resident of India. His Satyagra (various phases) has dignified the dignity of a common Indian which in due course of time became instrumental for freedom struggle. His political philosophy was very straight and he was concerned to the welfare of the last human in line. Regarding Rights and duties he has emphasised the duties in place of Rights, which are very much logical keeping in view that Rights will be upgraded by performing one's own duty.

### **NVP 203: Relative Economics : Model of Growth**

#### **Objectives**

- i. To have an understanding of Evolution on Political and Historical sociology.
- ii. To know the functioning of Political Sociology.
- iii. To understand Political system of India with special reference to bureaucracy, legitimacy and works.
- iv. To know the interaction society and polity.
- v. To have an indepth knowledge of social satisfaction.

### **Course Outcome**

This has been affirmed that man is a social animal and is invariably related with society and social issues. This course will make the student to understand evolution the political and historical society, what is functioning of political sociology interaction between politics and various categories with are negative for the nation.

### **NVP 204: Nonviolence in Indian Tradition**

#### **Objectives**

- i. To understand the concept of nonviolence in Indian Tradition
- ii. Explore the wider aspect of nonviolence in Vedic tradition
- iii. To study various aspects as propounded in Mahabharat and Geeta
- iv. To analyse minutely the concept of violence and nonviolence.

### **Course Outcome**

Indian culture is a unique culture having its speciality in nonviolence, peaceful coexistence and nonabsolutic outlook. That is why Indian culture has welcomed each religion which has not been originated from Indian soil. These religions also contributed to propogate above mentioned sublime values. But, as Indian concept has its significant characteristics that's, why this is essential to know the hidden treasures from the religious texts of Indian tradition i.e., Ved, Upnishad, Geeta Mahabharat, Jain Agam and Boddh spiritual text. This program will be instrumental in this aspect.

### **NVP 205: Peace Organization and Movements**

#### **Objectives**

- i. To understand the meaning and genises of Panchayati Raj.
- ii. To know the required ammendments of constitution.
- iii. To know the various aspects and plateform of rural development.

### **Course Outcome**

The Panchayati Raj has a basis of the political system of India. Gandhi emphasised in his philosophy the importance of Panchayati Raj and rural development. As the development of India and soul of India relies in rural areas, hence it is important to have indepth knowledge of India. If employment of social people is consumed, which is implemented as MNREGA and have proved to be instrumental for rural upliftment.

### **NVP 301: Peace Education**

#### **Objectives**

- i. To understand the evolution and dimension of peace and peace education
- ii. To explore national and global perspective of peace education
- iii. To find out the limitation of peace education
- iv. To elucidate the social values for enlightened world creation



- v. To review and compare science of living with other school of living, i.e., Gandhian approach of life and living.

### **Course Outcome**

Education is an important factor for the development of any culture, society and individual. No education teaches the negativity. But, at the same time emphasis should be given to that components also which converts a man into human. Value based and peace studies are playing a contributory role for the making aware about the dimensions of peace and how peace can be defined at global perspective. Each person should understand the social values and social justice. Various style of type i.e science of living etc. are the essential part of such type of education.

## **NVP 302: Environmental Ethics and Sustainable Development**

### **Objectives**

- i. To understand the relation of man with nature and various phases of it
- ii. To explore the various causes of environmental degradation
- iii. To elucidate the environmental ethics in various tradition
- iv. To have an outlook on various movements to save the environment.

### **Course Outcome**

Environmental issue is the major issue effecting the mother planet and all living beings. Man has a significant relationship with nature, and if any degradation in environment has taken place, this is the duty of each person to take initiatives for environmental sustainability. Environment is degrading due to several causes such as deforestation, urbanisation, population explosion, energy crises, natural and man made hazards etc. Hence, preventive measures should be taken to eliminate these causes. Several tradition have enlightened we people about environmental ethics, and several movements have taken place to protect the nature.

## **NVP 303: Training in Nonviolence**

### **Objectives**

- i. To understand the consequential results of violence
- ii. To elucidate the factors of change in heart, i.e. detachment, fearlessness, friendliness, forgiveness, compassion, modesty etc.
- iii. To have an outlook on the applied aspect of this training system
- iv. To understand the importance of open-mindedness or non-absolutic outlook
- v. To understand the values inherent in the training module which are related with socio-economical setup.

### **Course Outcome**

Training in nonviolence is having a special characteristics of the offered course. This elucidates various components of the unique training system which in result, makes a significant change in the behaviour of an individual. This programme offer applied aspect as well. Emphasis has been given to both subjectivity as well as objectivity. Several eternal values are to be discussed

comprehensively Life-style change and change in system are the special component of training module.

### **NVP 304: Gandhian Economics**

#### **Objectives**

- i. To understand the philosophical basis of the economic thought of Gandhi
- ii. To understand importance of decentralization and self-reliant economy
- iii. To elucidate the concept of trusteeship
- iv. To findout the relevance of Gandhian/peace economics.

#### **Course Outcome**

Gandhi has played a major role in developing of a new nation, India. He has pondered over almost all the factors which are related with human life. He was not only social or political philosopher but was having economic thought also. The most significant features of his economic thought was trusteeship, swadeshi, decentralization, bread labour, small scale industry, agriculture base economy etc. This programme will enlighten the students on alternative module of economis. This module does not accept the notion that 'globe is a market', rather that it says that' globe is a family'.

### **NVP 305: Nonviolence in Non-Indian Tradition**

#### **Objectives**

- i. To understand various religious traditions comparitively
- ii. To explore the exodur and preaching of Moses
- iii. To understand the life-sketch and teaching of Jesus
- iv. To understand the genesis and teaching of Islam
- v. To have an outlook of various social reformes and peace ambassador.

#### **Course Outcome**

The sublime virtues like nonviolence and peace have been interpreted in all tradition whether Indian and non Indian. Major religions of world i.e. Charistian and Islam propounds the faith on God and depicts various values. Judaism, is believed to be the oldest religion in non-Indian religious faith. There are various thinkers, social reforms, peace ambassador like Marx, Henery Deviad Thorou, Martin Luther King has contributed very significantly in the field of nonviolence and peace.

### **NVP 401: Research Methodology**

#### **Objectives**

- i. To understand the concept of peace research
- ii. To find out the relevance of peace research
- iii. To understand the techniques of research methodology
- iv. To learn the data processing and analysis.

### **Course Outcome**

Research methodology is an important programme, as it gains a path way to a student to have in depth knowledge of his subject. Research especially in peace studies is in few institutes only, and this university is offering this programme, which is very essential for higher studies. In this programme, the component of research methodology is discussed in detail and the techniques i.e., observation, interviews, schedule, questionnaire, sampling are the subject matter of discussion. Data processing and analysing is important factor in research methodology, which are also included in programme.

### **NVP 402: Conflict Resolution with Special Reference to India**

#### **Objectives**

- i. To understand anthropological, social and political bases of conflicts
- ii. To explore the four phases of Satyagraha
- iii. To study Gandhian applied nonviolence on social and political front
- iv. To explore the peace movements in free India.

#### **Course Outcome**

India is nation of diversity, and various culture and traditions are part of this Nation. This diversity proves an uniqueness, but, on the other side some problems can not be overlooked. Ideological, political, religious, economic etc. differences are the causes of various violent conflicts also. We witnessed various conflicts, but, at the same time we have to look for the peaceful resolution also. In this contemporary time Gandhi has proved the potency of nonviolent resolution. Satyagrah is a form of technique which is based on scientific foundation. The Jain technique-Anekant for conflict resolution, Peace Movements, in pre and post independent India will elucidate the students that nonviolence does still exist.

### **NVP 403: Disaster Management**

#### **Objectives**

- i. To understand various types of disaster management
- ii. To study various types of man made disaster
- iii. To explore International strategy for disaster management
- iv. To understand the role of government, NGOs and armed force for disaster management.

#### **Course Outcome**

Disaster, whether natural or man made are hazards for the nature and living beings. Sometimes, the impact of disaster are so vast that it take centuries to overcome the impact. But, in recent time Disaster Management System has emerged and has been developed as a separate discipline in education and a special task force for disaster management. Efforts on governmental part, NGOs, Armed forces have proven their contribution for disaster management.

## **NVP 404: Dissertation and Viva-voce**

### **Objectives**

- i. To have in depth study on identified areas
- ii. To apply the research methodology practically
- iii. To understand the specified problem in its widest aspect
- iv. To motivate student to undertake various research projects and persue for higher studies.

### **Course Outcome**

The programme of dissertation is a part of in-depth study of some identified areas. The research methodology is used to complete the study in the shape of dissertation. This study is focussed on some specified problem and a research aptitude is being developed during the process of study, which proves to be instrumental to motivate students for higher study.

## **NVP 405: Peace Ambassador**

### **Objectives**

- i. To know the life sketch and works of Indian peace ambassadors.
- ii. To have the knowledge of non-indian peace ambassadors.

### **Course Outcome**

World peace in every aspect is having its importance world-wide, the present era is facing hazards and is threatening the world peace. But, it is a matter of pleasure that the world is having various ambassador which have proven to be instrumental to make this hence violent free. The course will be instrumental to know about various national and institutional peace ambassadors.

## **NVP 406 : Human Rights and Social Justice**

### **Objectives**

- i. To understand concepts theories and principles of human rights.
- ii. To know about the instruments of human rights.
- iii. To understand the concept and instruments of social justice.

### **Course Outcome**

The concept of human rights have emerged since after the II<sup>nd</sup> World War. After the declaration of universal distribution of human rights, several development have taken place. This discipline has been introduced in several institutes in national and international level. Social justice is an inherent discipline with human rights. Students will be aware of the

# Syllabus

DEPARTMENT OF EDUCATION  
BACHELOR OF EDUCATION (B. Ed.)  
Two Year Regular Programme



"A" Grade by NAAC & "A" Category by MHRD

**Jain Vishva Bharati Institute**

(Deemed to be University under section 3 of UGC Act, 1956)

**Ladnun-341306 (Raj.)**

2017

Price: Rs.

### **Programme Outcome of B.Ed. (2 Year Integrated Programme)**

The department of education runs the B.Ed. programme which is recognized by NCTE, New Delhi since 2005. The programme has very specific outcomes to spread educational thought, child psychology, creative pedagogy with modern information communication technology. Now a days teacher has to deal with classroom like multilingual, multicultural and multi religions in nature. Diverse socio-culture, economic and linguistic varieties are in the classrooms. The aspiration levels of the students have changed considerably under the hazard influences of Technological revolution and globalization. In this programme mainly a good platform to share learning in varying levels of cognitive, affective and psychomotor abilities.

The programme encompasses with valued education, yoga, and personality development for fullest development of the child. Both theoretical and practical and combined for providing a good knowledge for child's integrated personality.

As per the latest curriculum frame work NCFTE-2009 it spreads the knowledge and understanding of theory and practical in teacher education programme by in corporating the socio-cultural context of education giving more emphasis on the field experience of students teachers in this course with internship.

Enhancing professional capacities are the basis ingredients of the B.Ed. programme for preparing value based and dynamic teachers for the society and nation.

### **Programme Specific Outcomes (PSO) of B.Ed. (2 Year programme)**

After completion of the B.Ed. programme the pupils teachers shall able to:

1. Develop the knowledge, understanding and skill in teaching & learning.
2. Foster professionals in teachers education.
3. Motivate students for all round development.
4. Enhance competent & skill for employability balance mental health.
5. Spread the thought of creativeness and positive thinking.
6. Train about ICT and yoga for balanced personality.
7. Produce teacher trainees for the society
8. Apply innovative teaching pedagogy in class room

### Semester - I

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED101	Childhood and Growing Up	CC	4	30	70	100

#### Objectives:

- ❖ Teacher trainees can aware about concept, methods & applications of Educational Psychology.
- ❖ To aware the trainees about concept and developmental dimensions of childhood.
- ❖ Trainees got informed about imagination, creativity & interests at school level.
- ❖ To know the related problems of Adolescence & remedies through Guidance & Counselling services.
- ❖ To aware about the process of human development
- ❖ To build sensitivity towards childrens' needs and capabilities within their socio-cultural context

#### Course Outcomes: After completion of this course students would able to:

- ❖ Utilize the knowledge of Educational Psychology for school education.
- ❖ Apply the concept of Growth & Development in teaching field.
- ❖ Plan various activities to fostering imagination, creativity & interests at school level.
- ❖ Know about various aspects related to Cognitive, Emotional & Social development of learner.
- ❖ Diagnose related problems of Adolescence & remedies through Guidance & Counselling services.

### Semester I

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED102	Contemporary India and Education	CC	4	30	70	100

#### Objectives:

- ❖ To know the concept and nature of Educaiton.
- ❖ To know the social mobility and social skill.
- ❖ To understand the various committee and commission.
- ❖ To educate about the recent policies of Education.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Know social aspects of education and develop educational perspective.
- ❖ Solve prevailing problems of education in India.
- ❖ Understand the purpose, function and Role of education in nation building.
- ❖ Understand knowledge of the Indian education system as it has evolved from the past, as it is today.
- ❖ Understand the concept, principle of sustainable development and core concept of educational thinkers.
- ❖ Know social equity and equality of educational opportunities.

### Semester - I

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED103	Language Across the curriculum	CC	4	30	70	100

#### Objectives:

- ❖ To understand the various mode of language like reading, writing, speaking and listening.
- ❖ To develop the skill of oral and written language.
- ❖ To acquaint with the idea of composition and art of writing i.e. letter, paragraph, application etc.
- ❖ To develop the Vocabulary Building and Language Problems & its Remedies
- ❖ To develop the vocabulary and language proficiency and related remedies.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the nature and use of language.
- ❖ Develop the idea of Multilingualism in class room teaching.
- ❖ Create the sense of language and its flavor.
- ❖ Inculcate language skills among trainees.
- ❖ Evaluate skills creative writing and expression.
- ❖ Acquire the idea of composition and art of writing i.e. letter, Paragraph, application etc.
- ❖ Develop ornamental use of vocabulary in different curriculum.

### Semester - I

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED 104	Understanding Discipline and Subjects	Any one CE	4	30	70	100
BED 105	Innovative Methods					

#### BED 104 : Understanding Discipline and Subjects

#### Objectives:

- ❖ To make aware the students about the disciplines and its characteristics.
- ❖ To give Introduction of Kalidas, Tulsidas and Shakespeare
- ❖ To understand the scientific idea of science education.
- ❖ To apply the thought of social science language in their day to day life.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand language of various discipline.
- ❖ Develop expression of various language areas.
- ❖ Acquire scientific study of language phonetics.
- ❖ Know the scientific idea of science education.
- ❖ Apply the thought of social science language in their day today life.
- ❖ Develop interdisciplinary approach of language (Hindi/Sanskrit/English).

### Semester - I

#### BED 105 : Innovative Methods

#### Objectives:

- ❖ To introduce students about the concepts of innovations in teaching.
- ❖ To understand the idea of various subject methods.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Develop knowledge of various innovative methods.
- ❖ Understand the idea of methods.



### Semester - I

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
JVB101	Introduction to Jainism	FC	4	30	70	100

#### Objectives:

- ❖ To understanding about Jain Ethics & Conduct.
- ❖ To acquire knowledge of Jain way of life.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Develop understanding about Jainism and its ethics & conduct.
- ❖ Acquire knowledge of Jain way of life.

### Semester - II

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED201	Assessment for Learning	CC	4	30	70	100

#### Objectives:

- ❖ To describe the role of assessment in education.
- ❖ To distinguish among measurement, assessment and evaluation.
- ❖ To explain different forms of assessment that aid student learning.
- ❖ To use wide range of assessment tools, techniques and construct these appropriately.
- ❖ To evolve realistic, comprehensive and dynamic assessment procedures.
- ❖ To calculate item difficulty and discrimination power of a test item.
- ❖ To prepare a good achievement test on any school subject.
- ❖ To realize the importance of continuous and comprehensive evaluation in the process of students learning.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Describe the role of assessment in education.
- ❖ Distinguish measurement, assessment and evaluation.
- ❖ Explain different forms of assessment that aid student learning.
- ❖ Use wide range of assessment tools, techniques and construct these appropriately.
- ❖ Evolve realistic, comprehensive and dynamic assessment procedures.
- ❖ Calculate item difficulty and discrimination power of a test item.
- ❖ Prepare a good achievement test on any school subject.
- ❖ Realize the importance of continuous and comprehensive evaluation in the process of students learning.

### Semester-II

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED202	Learning and Teaching	CC	4	30	70	100

**Objectives:**

- ❖ To acquire the basic knowledge of learning and Teaching.
- ❖ To understand the implications of education.
- ❖ To develop various methods of teaching.
- ❖ To understand the various application of education.

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Acquire knowledge and understanding of learning and Teaching.
- ❖ Understand the theories of learning.
- ❖ Develop the skill of active engagement of students in teaching learning activity.
- ❖ Investigate differences and connections between learning in school and learning outside school.
- ❖ Inculcate the knowledge of teaching and its process.
- ❖ Understand learners, learning process and school.

**Semester II**

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
<b>BED 203</b>	Pre-Internship	<b>CC</b>	<b>4</b>	100	Pre Internship	<b>100</b>

**Pre-internship distribution (4 Weeks)**

**Objectives:**

- ❖ To acquire the knowledge of internship.
- ❖ To understand skill focused teaching.
- ❖ To develop ability of comprehensive school teaching.
- ❖ To understand and organize various school activities.

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Acquire the knowledge of internship.
- ❖ Understand skill focused teaching.
- ❖ Develop ability of comprehensive school teaching.
- ❖ Understand and organize various school activities

### Semester-II

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED 204	Hindi	Pedagogy of a school subject (Any two) CE	4	30	70	100

#### Objectives:

- ❖ भाषा संरचना में हिन्दी भाषा तत्त्वों का ज्ञान प्रदान करना।
- ❖ श्रवण, भाषण, वाचन एवं लेखन सम्बन्धी भाषायी कौशलों का ज्ञान देना।
- ❖ माध्यमिक स्तर के निर्धारित पाठ्यक्रम एवं पाठ्यपुस्तक का विश्लेषण समीक्षा एवं कुशलता का विकास कराना।
- ❖ इकाई, दैनिक व सूक्ष्म पाठ योजनाओं के महत्त्व से अवगत कराना व निर्माण का ज्ञान कराना।
- ❖ हिन्दी भाषा के वैज्ञानिक स्वरूपों और कौशलों का ज्ञान कराना।
- ❖ हिन्दी भाषा की विभिन्न विधाओं एवं उनके व्यावहारिक शिक्षण पाठ योजनाओं का ज्ञान कराना।
- ❖ प्रश्न पत्र के निर्माण का ज्ञान देना।
- ❖ निदानात्मक एवं उपचारात्मक परीक्षण स्वरूप, महत्त्व एवं उपयोग का ज्ञान देना।
- ❖ मातृभाषा एवं राष्ट्रभाषा के रूप में हिन्दी की स्थिति से अवगत कराना।

#### Course Outcomes:

- ❖ भाषा संरचना में हिन्दी भाषा तत्त्वों का ज्ञान प्राप्त कर सकेंगे।
- ❖ श्रवण, भाषण, वाचन एवं लेखन सम्बन्धी भाषायी कौशलों का प्राप्त कर सकेंगे।
- ❖ माध्यमिक स्तर के निर्धारित पाठ्यक्रम एवं पाठ्यपुस्तक का विश्लेषण समीक्षा एवं कुशलता का विकास कर सकेंगे।
- ❖ इकाई, दैनिक व सूक्ष्म पाठ योजनाओं के महत्त्व से अवगत कराना व निर्माण का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी भाषा के वैज्ञानिक स्वरूपों और कौशलों का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी भाषा की विभिन्न विधाओं एवं उनके व्यावहारिक शिक्षण पाठ योजनाओं का ज्ञान प्राप्त कर सकेंगे।
- ❖ प्रश्न पत्र के निर्माण का ज्ञान प्राप्त कर सकेंगे।
- ❖ निदानात्मक एवं उपचारात्मक परीक्षण स्वरूप, महत्त्व एवं उपयोग का ज्ञान प्राप्त कर सकेंगे।
- ❖ मातृभाषा एवं राष्ट्रभाषा के रूप में हिन्दी की स्थिति से अवगत हो सकेंगे।

### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED 205	English	Pedagogy of a school subject Any two CE	4	30	70	100

#### Objectives:

- ❖ To know about various basics of grammar.
- ❖ To explain the place of English language in India.

- ❖ To describe English as a Second language in the multi -lingual country like India.
- ❖ To explain different methods of teaching English.
- ❖ To develop the lesson and its planning.
- ❖ To apply different teaching skills in the class room.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Know about various basic application of grammar
- ❖ Explain the place of English language in India.
- ❖ Describe English as a Second language in the multi -lingual country like India.
- ❖ Explain different methods of teaching English.
- ❖ Apply different teaching skills in the class room.
- ❖ Lesson plan, micro lesson plan, TLM (Teaching Learning Materials) for teaching English as a second Language.

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 206</b>	Sanskrit	Pedagogy of a school subject Any two CE	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

### Objectives:

- ❖ माध्यमिक स्तर के शिक्षकों में संस्कृत भाषा संबंधी व्याकरण की जानकारी एवं उनके प्रयोग की दक्षता का विकास करना ।
- ❖ तृतीय भाषा शिक्षण के आधारभूत सिद्धान्तों का विकास करना ।
- ❖ संस्कृत शिक्षण के उद्देश्यों का निर्धारण एवं व्यावहारिक परिवर्तन हेतु प्रयास करना ।
- ❖ संस्कृत भाषा के विभिन्न कौशलों का पृथक एवं समन्वित शिक्षण का विकास करना ।
- ❖ विभिन्न विधाओं के सफल अध्यापन हेतु विभिन्न विधियों का प्रयोग करना ।
- ❖ संस्कृत भाषा शिक्षण में दृश्य-श्रव्य सामग्री का निर्माण एवं शिक्षण में प्रयोग करना ।
- ❖ संस्कृत शिक्षण के मूल्यांकन हेतु प्रश्नपत्र निर्माण करना एवं कौशलाधारित परीक्षण करना ।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का कौशलानुसार निदान करना ।

### Course Outcomes:

- ❖ माध्यमिक स्तर के शिक्षकों में संस्कृत भाषा संबंधी व्याकरण की जानकारी एवं उनके प्रयोग की दक्षता का विकास कर सकेंगे ।
- ❖ तृतीय भाषा शिक्षण के आधारभूत सिद्धान्तों का विकास कर सकेंगे ।
- ❖ संस्कृत शिक्षण के उद्देश्यों का निर्धारण एवं व्यावहारिक परिवर्तन हेतु प्रयास कर सकेंगे ।
- ❖ संस्कृत भाषा के विभिन्न कौशलों का पृथक एवं समन्वित शिक्षण का विकास कर सकेंगे ।
- ❖ विभिन्न विधाओं के सफल अध्यापन हेतु विभिन्न विधियों का प्रयोग कर सकेंगे ।
- ❖ संस्कृत भाषा शिक्षण में दृश्य-श्रव्य सामग्री का निर्माण एवं शिक्षण में प्रयोग कर सकेंगे ।
- ❖ संस्कृत शिक्षण के मूल्यांकन हेतु प्रश्नपत्र निर्माण करना एवं कौशलाधारित परीक्षण कर सकेंगे ।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का कौशलानुसार निदान कर सकेंगे ।

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 207	History	Pedagogy of a school subject Any two CE	4	30	70	100

**Objectives:**

- ❖ To understand the aim and objectives of teaching history at different levels of the secondary stage.
- ❖ To apply different approach to organize history
- ❖ To understand the types of evaluation of teaching history
- ❖ To develop classroom skills to apply different methods and approaches of teaching history at the secondary stage.
- ❖ To develop the skill to plan for instruction and the instructional support materials.
- ❖ To develop the skill related to diagnostic testing and remedial teaching.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the nature, scope and importance of learning history at secondary.
- ❖ Explain aim and objectives of teaching history at different levels of the secondary stage.
- ❖ Develop knowledge about the basic principles governing the construction of history curriculum and develop the ability history curriculum
- ❖ Organize Co-curricular activities and community resources for promoting history learning.
- ❖ Develop classroom skills needs for applying different methods and approaches of teaching history at the secondary stage.
- ❖ Understand the skill to plan for instruction and the instructional support , materials.
- ❖ Develop the skill needed for diagnostic testing and remedial teaching.

**Semester II**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 208	Civics	Pedagogy of a school subject Any two CE	4	30	70	100

**Objectives:**

- ❖ To explain the role of civics to promote International Understanding.
- ❖ To understand Planning-Annual Plan, Unit Plan, & Daily Lesson Plan.
- ❖ To prepare different methods of teaching civics.
- ❖ To apply various Fundamental Principal of Formulation Curriculum in Civics
- ❖ To develop competencies related to teaching of civics.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the role of civics.
- ❖ Understand the Planning of teaching & Evaluation.
- ❖ Prepare Fundamental Principal of Formulation Curriculum.
- ❖ Develop competencies in teaching of civics.

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 209</b>	Social Science	Pedagogy of a school subject Any two CE	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To enable the students to understand the meaning of social science and correlate with modern social science .
- ❖ To understand the different approaches and organizing Social Science
- ❖ To prepare students for panel discussion , seminar and workshop
- ❖ To enable the student – teacher to critically examine the social science syllabus and text books.
- ❖ To develop the classroom skills and use of techniques for teaching of social science.
- ❖ To develop the ability to organize co-curricular activities and utilize community resources for promoting social science learning.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the need for learning social science .
- ❖ Understand the place of social science in the secondary school curriculum.
- ❖ Develop the skills in student – teachers to select and apply appropriate methods and evaluate social science.
- ❖ Critically examine the social science syllabus and text books.
- ❖ Develop the classroom skills needed for teaching of social science.
- ❖ Develop the ability to organize co-curriculum activity and utilize community resources for promoting social science learning.
- ❖ Acquire the ability to develop instructional support materials.
- ❖ Review the text –book of social science (secondary level).

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 210</b>	Economics	Pedagogy of a school subject Any two CE	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To help the students to acquire the basic understanding in the field of Economics.
- ❖ To enable the student teachers to understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ To develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ To develop the ability to organize group activities and projects in the subject.
- ❖ To develop the ability to use of various methods of teaching Economics.

- ❖ To enable the student to acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ To develop in the students appropriate attitudes towards the country's Economy.
- ❖ To develop in the student an adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ To develop competence in framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of. 10.To develop in the students an ability to conduct various surveys in Economics and organize field trips.
- ❖ To enable the student-teachers to prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ To enable the student teachers to review the text book of Economics.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Explain the basic of Economics.
- ❖ Understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ Develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ Organize group activities and projects in the subject.
- ❖ Use of various methods of teaching Economics.
- ❖ Acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ Appropriate attitudes towards the country's Economy.
- ❖ Adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ Framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of.
- ❖ Prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ Review the text book of Economics.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 211	Geography	Pedagogy of a school subject Any two CE	4	30	70	100

**Objectives:**

- ❖ To understand the modern concept of Geography.
- ❖ To prepare yearly plan, unit plan, lesson plan for different classes.
- ❖ To prepare maps and charts to illustrate the content of different classes and use them effectively.
- ❖ To critically evaluate the existing school syllabus and review the text book of Geography.
- ❖ To apply appropriate method and techniques of teaching to particular topics at different levels.
- ❖ To arrange field trips and local surveys.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the modern concept of Geography and its correlation with other school subjects.

- ❖ Explain co-curricular activities in geography.
- ❖ Prepare various teaching plans.
- ❖ Explain different teaching aids.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 212</b>	Home Science	Pedagogy of a school subject Any two <b>CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To understand the Concept, Nature and Scope of Home science.
- ❖ To provide knowledge related to pedagogical concept like aims, objectives, approaches, methods, blue print and assessment.
- ❖ To stimulate curiosity and creativity for application of different methods according to learning situations.
- ❖ To develop attitude towards skill development, application of new trends and use of information technology to enhance productivity of teaching.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Organize co-curricular activities like Group Discussion, Exhibition, Excursion etc. at school level.
- ❖ Stimulate curiosity and creativity for application of different methods according to learning situations.
- ❖ Develop attitude towards skill development, application of new trends and use of information technology to enhance productivity of teaching.
- ❖ Analyze school syllabus of the subject in relation to its applicability in local situations.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 213</b>	Chemistry	Pedagogy of a school subject Any two <b>CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To develop a broad understanding of the principles and procedures used in modern science specially in chemistry.
- ❖ To develop essential skill for practising modern science education.
- ❖ To understand aims and objectives of chemistry.
- ❖ To gain ability for critically evaluate the existing syllabus of science.
- ❖ To prepare achievement test and diagnostic test.
- ❖ To enable him to organize co-curricular activities related to science.
- ❖ To appreciate the contribution of world scientist in connection with historical development of chemistry.



**Course Outcomes:** After completion of this course students would able to:

- ❖ Understanding Importance of Chemistry and correlate it with other subjects
- ❖ Acquient with the Modern Trends in Chemistry.
- ❖ Gain ability for critically evaluate the existing syllabus of science.
- ❖ Prepare achievement test and diagnostic test.
- ❖ Oorganize co-curricular activities related to science.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 214</b>	Physics	Pedagogy of a school subject Any two <b>CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To appreciate the contribution of eminent physicist in connection with the development of the subject.
- ❖ To familiar with the aims and objective of the subject in relation to the present need of the society and educational policies of India.
- ❖ To plan curriculum at the secondary and senior secondary level and analyze the syllabus of the subject in relation to its applicability to practical situation.
- ❖ To develop scientific attitude and provide training in scientific method to their student.
- ❖ To write objectives in behavioural term content analysis and content mapping .
- ❖ To develop yearly plan, unit plan and lesson plan.
- ❖ To plan, equip and organize physics practical in the laboratory.
- ❖ To use various methods with appropriateness of content, level and classroom situation.
- ❖ To prepare test paper for theory and practical work.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Appreciate the contribution of eminent physicist in connection with the development of the subject.
- ❖ Understand with the aims and objective of the subject in relation to the present need of the society and educational policies of India.
- ❖ Plan curriculum at the secondary and senior secondary level and analyze the syllabus of the subject in relation to its applicability to practical situation.
- ❖ Develop scientific attitude and provide training in scientific method to their student.
- ❖ Write objectives in behavioural term content analysis and content mapping .
- ❖ Develop yearly plan, unit plan and lesson plan.
- ❖ Plan, equip and organize physics practical in the laboratory.
- ❖ Use various methods with appropriateness of content, level and classroom situation.
- ❖ Prepare test paper for theory and practical work.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 215</b>	Mathematics	Pedagogy of a school subject	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

		Any two CE				
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**Objectives:**

- ❖ To understand and appreciate the uses and significance of Mathematics in daily life
- ❖ To learn various approaches of teaching mathematics and use them judiciously.
- ❖ To know the methods of planning instruction for the classroom.
- ❖ To prepare curricular activities and organize the mathematics Laboratory.
- ❖ To appreciate and organize activities to develop aesthetics of mathematics.
- ❖ To give competence in teaching different mathematics topic effectively

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand and appreciate the uses and Significance of Mathematics in daily life
- ❖ Use various approaches of teaching mathematics and use them judiciously.
- ❖ Understand the methods of planning instruction for the classroom.
- ❖ Prepare curricular activities and organize the mathematics Laboratory.
- ❖ Appreciate and organize activities to develop aesthetics of mathematics.
- ❖ Give competence in teaching different mathematics topic effectively

**Semester II**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 216</b>	General Science	Pedagogy of a school subject Any two CE	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To develop the knowledge about science and its nature.
- ❖ To acquire the knowledge about contribution of eminent Indian scientists.
- ❖ To aware about the aims, objectives and construction of curriculum.
- ❖ To develop understanding about co-curricular activities, methods of teaching and preparation of test paper.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Contribution of eminent Indian scientists in connection with the development of the subject.
- ❖ Familiar with the aims and objectives of the subject in relation to present needs of the society and education policies in India.
- ❖ Plan curriculum at secondary and senior secondary level and analyze the syllabus of the subject in relation to its applicability to practical situations.
- ❖ Identify proper methodology to deal with the content which is to be handled by him as teacher in secondary and higher level.
- ❖ Develop a broad understanding of the principles and procedures used in modern science education.
- ❖ Prepare test paper for evaluation.

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 217	Biology	Pedagogy of a school subject Any two CE	4	30	70	100

#### Objectives:

- ❖ To acquire the knowledge of nature and scopes of Biology.
- ❖ To develop understanding the principles of curriculum, planning and E-resources in Biology.
- ❖ To develop awareness about various approaches and innovative methods of Biological science for effective teaching learning process.
- ❖ To develop knowledge of multisensory teaching aids to enhance students engagement and activity based learning.
- ❖ To aware about construction of blue print, dignostic test and remedial self learning material and conduct CCE procedure.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Acquire the knowledge of nature and scopes of Biology.
- ❖ Understand the principles of curriculum, planning and E-resources in Biology.
- ❖ Know and apply the various approaches and innovative methods of Biological science for effective teaching learning process.
- ❖ Apply knowledge of multisensory teaching aids to enhance students engagement and activity based learning.
- ❖ Construct blue print, dignostic test and remedial self learning material and conduct CCE procedure.

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 218	Commercial Practice	Pedagogy of a school subject Any two CE	4	30	70	100

#### Objectives:

- ❖ To acquire the basic understanding in the field of commerce education.
- ❖ To develop the ability to plan curriculum and instructions in commerce at school level.
- ❖ To develop the ability to critically evaluate existing school syllabus and text book.
- ❖ To impart knowledge about the methods and devices of teaching commerce and to develop the skill of using the same.

- ❖ To develop the ability of preparing an achievement test.
- ❖ To develop commercial efficiency among students.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire the basic understanding in the field of commerce education.
- ❖ Develop the ability to plan curriculum and instructions in commerce at school level.
- ❖ Develop the ability to critically evaluate existing school syllabus and text book.
- ❖ Apply impart knowledge about the methods and devices of teaching commerce and to develop the skill of using the same.
- ❖ Prepare an achievement test.
- ❖ Usw commercial efficiency among students.

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 219</b>	Book-keeping	Pedagogy of a school subject Any two <b>CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To acquire the basic understanding of teaching of Book-keeping and Accountancy.
- ❖ To develop the ability to plan curriculum and instruction in Book-keeping and Accountancy.
- ❖ To develop the ability to critically evaluate the existing school curriculum of Book-Keeping.
- ❖ To impart knowledge of the methods and devices of teaching Book-keeping and to develop the skill of using the same.
- ❖ To give information about appropriate methods and devices of teaching particular topics for book-keeping.
- ❖ To develop necessary skill in preparation of using various teaching aids.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire the basic understand of teaching of Book-keeping and Accountancy.
- ❖ Develop the ability to plan curriculum and instruction in Book-keeping and Accountancy.
- ❖ Critically evaluate the existing school curriculum of Book-Keeping.
- ❖ Impart Knowledge of the methods and devices of teaching Book-keeping and to develop the skill of using the same.
- ❖ Apply appropriate methods and devices of teaching particular topics for Book – Keeping.
- ❖ Prepare achievement and diagnostic Tests.
- ❖ Develop necessary skill in preparation of using various teaching aids.

### Semester III

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
BED301	Post Internship distribution	<b>CC</b>	16	160 Intership+120+120=240 Practical (Two Subjects final lesson)		400

### Post Internship distribution (16 Weeks)

#### Objectives:

- ❖ To develop unit plan and lesson plan
- ❖ To write objective in behavioural terms
- ❖ To observe the lessons of the school teachers.
- ❖ To prepare schedule of various activities for students.
- ❖ To organize different co-curricular activities in the school.
- ❖ To prepare blue print and test paper for different classes.

#### Course Outcomes: After completion of this course students would be able to:

- ❖ Develop unit plan and lesson plan
- ❖ Write objective in behavioural terms
- ❖ Observe the lessons of the school teachers.
- ❖ Prepare schedule of various activities for students.
- ❖ Organize different co-curricular activities in the school.
- ❖ Prepare blue print and test paper for different classes.

#### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
JVB 301	Critical Understanding of ICT	FC	2	15 Practical	35	50

#### Objectives:

- ❖ To explain the concept of ICT in education.
- ❖ To develop skills in using MS Office applications for education.
- ❖ To use internet efficiently to access information and communicate with others.
- ❖ To understand the applications of E-learning in education.

#### Course Outcomes: After completion of this course students would be able to:

- ❖ Explain the concept of ICT in education.
- ❖ Develop skills in using MS Office applications for education.
- ❖ Use internet efficiently to access information and communicate with others.
- ❖ Understand the applications of E-learning in education.

#### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
JVB 302	Yoga and Preksha Meditation	FC	2	15 Practical	35	50

**Objectives:**

- ❖ जीवन विज्ञान, प्रेक्षाध्यान एवं योग विद्या की जानकारी प्राप्त कर सकेंगे।
- ❖ संतुलित व्यक्तित्व का निर्माण।
- ❖ विद्यालयस्तरीय ध्यान एवं योग के प्रशिक्षक तैयार करना।

**Course Outcomes:**

- ❖ जीवन विज्ञान, प्रेक्षाध्यान एवं योग विद्या की जानकारी प्राप्त कर सकेंगे।
- ❖ संतुलित व्यक्तित्व का निर्माण।
- ❖ विद्यालयस्तरीय ध्यान एवं योग के प्रशिक्षक तैयार करना।

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 401</b>	Gender, School and Society	CC	4	30	70	100

**Objectives:**

- ❖ To understand the modern concept of society, organization & gender sensitivity.
- ❖ To aware about the dimension of development of school administration.
- ❖ To develop basic understanding & familiarity with key concept, society, social problem, social relationship and new trends
- ❖ To develop knowledge of the role of different NGO & organizations.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Sensitize students about different social & national level problems at school level.
- ❖ Remedies regarding gender discrimination, government schemes and Right to Education.
- ❖ Implement their knowledge to plan community awareness programmes to sensitize weaker section of society.
- ❖ Understanding relationship between education and society as well as NGO's.
- ❖ Utilize their administrative skill to manage different administrative activities at school level.

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 402</b>	Reading& Reflecting on Texts (EPC)	CC	2	15	35 Practical & Viva-Voce	50

**Objectives:**

- ❖ To develop basic Communication Skills.
- ❖ To promote Creative Writing among students.

- ❖ To acquire the knowledge of art of Speaking.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understnd Communication Skills.
- ❖ Promote Creative Writing among students
- ❖ Explain the art of speaking.

#### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 403</b>	Drama and Arts in Education (EPC)	CC	2	15	35 Practical and Viva-voce	50

**Objectives:**

- ❖ To develop skills of role playing and acting.
- ❖ To acquire the knowledge and develop skill of arts, painting and playing musical Instruments.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop skills of role playing and acting.
- ❖ Acquire the knowledge and develop skill of arts, painting and playing musical Instruments.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 404</b>	Knowledge and Curriculum (part-A)	CC Any one	4	30	70	100
<b>BED 405</b>	Knowledge and Curriculum (part-B)					

#### BED 404 : Knowledge and Curriculum (part-A)

**Objectives:**

- ❖ To know the concept objective and principles of curriculum.
- ❖ To develop the idea and bases of curriculum.
- ❖ To understand various types of curriculum.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the concept, objective and principles of curriculum.
- ❖ Develop the idea and bases of curriculum.
- ❖ Evaluate the relevancy of curriculum.
- ❖ Describe various approaches to curriculum construction.

### BED 405 : Knowledge and Curriculum (part-B)

#### Objectives:

- ❖ To develop ideas of philosophical bases of curriculum
- ❖ To various Sociological bases of curriculum
- ❖ To develop various psychological bases of curriculum
- ❖ To develop Educational New Trends of curriculum

#### Course Outcomes: After completion of this course students would able to:

- ❖ Describe various philosophical bases of curriculum
- ❖ Understand various Sociological bases of curriculum
- ❖ Acquire various psychological bases of curriculum
- ❖ Develop Educational New Trends of curriculum

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 406	Creating an Inclusive school	CC	4	30	70	100

#### Objectives:

- ❖ To develop the understanding of the concept and philosophy of inclusive education in the context of education for all.
- ❖ To identify and address diverse needs of all learners
- ❖ To familiarize with the trends and issues in inclusive education
- ❖ To develop an attitude to foster inclusive education
- ❖ To develop and understanding of the role of facilitators in inclusive education
- ❖ To prepare teachers for inclusive schools

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand of the concept and philosophy of inclusive education in the context of education for all.
- ❖ Identify and address diverse needs of all learners
- ❖ Describe the trends and issues in inclusive education
- ❖ Apply the attitude to foster inclusive education
- ❖ Develop and understanding of the role of facilitators in inclusive education
- ❖ Prepare teachers for inclusive schools

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 407	Optional Course 1. Environmental Education	Any one CE	4	30	70	100

### BED 407 : Environmental Education

#### Objectives:

- ❖ To understand the problems of concerning environment through multi disciplinary approach.



- ❖ To develop the skill of planning and organizing ecological activities in the schools.
- ❖ To create consciousness about environment among the adult learners.
- ❖ To give information on different techniques and materials for the affective dissemination of environmental information.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Students are able to understand the problems concerning environment through multi disciplinary approach.
- ❖ Students are able to develop the skill of planning and organizing Ecological activities in the schools so the children can equipped to play their part in protection and enrichment of environment.
- ❖ Students are able to create Environment Consciousness among the adult learners.
- ❖ Students are able to use different Techniques and materials for the affective Dissemination of Environmental information.
- ❖ Students are able to conduct local surveys, arrange field trips Environmental games and hobbies.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 408</b>	2. Health and Physical	Any one CE	4	30	70	100

**Objectives:**

- ❖ To develop the organic system of the body.
- ❖ Development of understanding and appreciation of the techniques and strategies of sports
- ❖ To develop correct health habits.
- ❖ Attainment of knowledge of proper health procedure as related with physical exercise.
- ❖ The physical education program will allow the students to participate in developmentally appropriate activities.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop the organic system of the body.
- ❖ Understand and appreciation of the techniques and strategies of sports
- ❖ Aware about correct health habits.
- ❖ Attain knowledge of proper health procedure as related with physical exercise.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 409</b>	3. Guidance and Counseling	Any one CE	4	30	70	100

**Objectives:**

- ❖ To educateion about the basics concept, nature and scope of Educational and Vocational guidance.
- ❖ To understand the aims objective of educational and vocational guidance.
- ❖ To make enable about the importance of educational and vocational guidance.
- ❖ To give knowledge of role and responsibilities of guidance workers in school.
- ❖ To understand the nature and types of guidance service & with reference to school education.

- ❖ To understand the concept, nature and types of counseling.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the basic concept, Nature and scope of Educational and Vocational guidance.
- ❖ Describe aims objective of educational and vocational guidance.
- ❖ Understand importance of educational and vocational guidance.
- ❖ Identify nature and types of guidance service & with reference to school education.
- ❖ Understand the concept, nature and types of counseling.

#### 1. Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 410	4. Distance Education	Any one CE	4	30	70	100

**Objectives:**

- ❖ To provide an effective alternative path to wider opportunities in education and especially in higher education.
- ❖ To provide an efficient and less expensive education.
- ❖ To provide education facilities to all qualified and willing persons.
- ❖ To provide opportunities of academic pursuits to educate citizens willing to improve their standard of knowledge.
- ❖ To provide education facilities to those individuals who look upon education as a life-long activity.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Provide an effective alternative path to wider opportunities in education and especially in higher education.
- ❖ Understand an efficient and less expensive education.
- ❖ Explain education facilities to all qualified and willing persons.
- ❖ Identify the opportunities of academic pursuits to educate citizens willing to improve their standard of knowledge.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BED 411	5. Additional Course (Any one) 5.1 Hindi	Any one CE	4	30	70	100

**Objectives:**

- ❖ काव्य के विभिन्न घटक तत्त्वों का ज्ञान देना।
- ❖ काव्य के घटक तत्त्व रस, छन्द, अलंकारों का ज्ञान प्रदान करना।
- ❖ काव्य के गुण : माधुर्य, ओज, प्रसाद का ज्ञान देना।
- ❖ हिन्दी की शिक्षण विधियों का ज्ञान देना।
- ❖ हिन्दी के विभिन्न व्याकरणिय घटकों का ज्ञान देना।
- ❖ व्याकरण के घटक अनुवाद, संज्ञा, सर्वनाम, कारक, सन्धि, समास एवं विशेषण का ज्ञान देना।
- ❖ सूक्ष्म शिक्षण के विभिन्न कौशलों की जानकारी देना।
- ❖ हिन्दी के विभिन्न कवियों, लेखकों के उपन्यासों, कहानियों, रचनाओं का ज्ञान प्रदान करना।

**Course Outcomes:** इस पाठ्यक्रम के पूरा होने के बाद छात्र शिक्षक सक्षम होगा।

- ❖ काव्य के विभिन्न घटक तत्त्वों का ज्ञान प्राप्त कर सकेंगे।
- ❖ काव्य के घटक तत्त्व रस, छन्द, अलंकारों का ज्ञान प्राप्त कर सकेंगे।
- ❖ काव्य के गुण : माधुर्य, ओज, प्रसाद का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी की शिक्षण विधियों का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी के विभिन्न व्याकरणिय घटकों का ज्ञान प्राप्त कर सकेंगे।
- ❖ व्याकरण के घटक अनुवाद, संज्ञा, सर्वनाम, कारक, सन्धि, समास एवं विशेषण का ज्ञान प्राप्त कर सकेंगे।
- ❖ सूक्ष्म शिक्षण के विभिन्न कौशलों की जानकारी प्राप्त कर सकेंगे।
- ❖ हिन्दी के विभिन्न कवियों, लेखकों के उपन्यासों, कहानियों, रचनाओं का ज्ञान प्राप्त कर सकेंगे।

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.2 English	Any one CE	4	30	70	100

#### Objectives:

- ❖ To acquire the knowledge of Phonetics and its uses through different organs of speech
- ❖ To develop Understanding of English text
- ❖ To apply the Content knowledge through preparing lesson plan in English Language
- ❖ To explain the idea of assessment of English teaching
- ❖ To describe the Knowledge of diagnostic test and Remedial instruction in English teaching

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire the knowledge of Phonetics and its uses through different organs of speech
- ❖ Develop Understanding of English text
- ❖ Apply the Content knowledge through preparing lesson plan in English Language
- ❖ Explain the idea of assessment of English teaching
- ❖ Describe the Knowledge of diagnostic test and Remedial instruction in English teaching

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.3 Sanskrit	Any one CE	4	30	70	100

#### Objectives:

- ❖ विद्यालयी बालकों में व्याकरण की सामान्य जानकारी एवं उनके प्रयोग की दक्षता का विकास करना।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का निदान करना।
- ❖ संस्कृत महाकाव्यों, गद्यकाव्यों, नाट्यकाव्यों का ज्ञान प्राप्त करना।
- ❖ हिन्दी वाक्यों का संस्कृत भाषा में अनुवाद कर सकने की योग्यता का विकास करना।
- ❖ संस्कृत विद्यालयों के पाठ्यक्रम का समीक्षात्मक मूल्यांकन करना।

### Course Outcomes:

- ❖ विद्यालयी बालकों में व्याकरण की सामान्य जानकारी एवं उनके प्रयोग की दक्षता का विकास कर सकेंगे।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का निदान कर सकेंगे।
- ❖ संस्कृत महाकाव्यों, गद्यकाव्यों, नाट्यकाव्यों का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी वाक्यों का संस्कृत भाषा में अनुवाद कर सकने की योग्यता का विकास कर सकेंगे।
- ❖ संस्कृत विद्यालयों के पाठ्यक्रम का समीक्षात्मक मूल्यांकन कर सकेंगे।

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.4 History	Any one CE	4	30	70	100

### Objectives:

- ❖ To understand ancient history on the basis of political, social and economic conditions.
- ❖ To develop the idea of Vedic Jainism, Buddhism & Shaivism religious.
- ❖ To acquire Knowledge of medieval periods in respect of temple, forts and bhakti movement.
- ❖ To evaluate the historical perspective modern India i.e. 1857 movement, gandhian politics.

### Course Outcomes: After completion of this course students would able to:

- ❖ Understand ancient history on the basis of political, social and economic conditions.
- ❖ Develop the idea of Vedic Jainism, Buddhism & Shaivism religious.
- ❖ Acquire Knowledge of medieval periods in respect of temple, forts and bhakti movement.
- ❖ Evaluate the historical perspective modern India i.e. 1857 movement, gandhian politics.

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.5 Civics	Any one CE	4	30	70	100

### Objectives:

- ❖ To identify political views among students.
- ❖ To acquaint the content knowledge of political science.
- ❖ To comprehend the dynamic political status and issues of our country.
- ❖ To develop reasoning ability among students for various competitive exam.
- ❖ To enable the pupil teacher to review the text-book of civics content (Secondary level).

### Course Outcomes: After completion of this course students would able to:

- ❖ Identify political views among students.
- ❖ Acquaint the content knowledge of political science.
- ❖ Comprehend the dynamic political status and issues of our country.
- ❖ Develop reasoning ability among students for various competitive exam.
- ❖ Enable the pupil teacher to review the text-book of civics content (Secondary level).

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.6 Social Science	Any one CE	4	30	70	100

**Objectives:**

- ❖ To understand Social Science on the basis of political, social and economic conditions.
- ❖ To develop the idea of Society, Social group, Community Marriage.
- ❖ To acquire Knowledge of Indian Social Problems (Culture, Castiesm, Communalism, Poverty, Corruption)
- ❖ To evaluate the Indian Social Issue.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand Social Science on the basis of political, social and economic conditions.
- ❖ Develop the idea of Society, Social group, Community Marriage.
- ❖ Acquire Knowledge of Indian Social Problems (Culture, Castiesm, Communalism, Poverty, Corruption)
- ❖ Evaluate the Indian Social Issue.

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.7 Economics	Any one CE	4	30	70	100

**Objectives:**

- ❖ To help the students to acquire the basic understanding in the field of Economics.
- ❖ To enable the student teachers to understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ To develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ To develop the ability to organize group activities and projects in the subject.
- ❖ To develop the ability to use of various methods of teaching Economics.
- ❖ To enable the student to acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ To develop in the students appropriate attitudes towards the country's Economy.
- ❖ To develop in the student an adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ To develop competence in framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of. 10. To develop in the students an ability to conduct various surveys in Economics and organize field trips.
- ❖ To enable the student-teachers to prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ To enable the student teachers to review the text book of Economics.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Help the students to acquire the basic understanding in the field of Economics.
- ❖ Enable the student teachers to understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ Develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ Enable ability to organize group activities and projects in the subject.
- ❖ Understand to use of various methods of teaching Economics.

- ❖ Enable the student to acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ Develop in the students appropriate attitudes towards the country's Economy.
- ❖ Develop in the student an adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ Develop competence in framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of. 10. To develop in the students an ability to conduct various surveys in Economics and organize field trips.
- ❖ Prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ Review the text book of Economics.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.8 Geography	Any one CE	4	30	70	100

#### Objectives:

- ❖ To understand the modern concept of Geography.
- ❖ To understand the aims and objectives of teaching Geography.
- ❖ To prepare yearly plan, unit plan, lesson plan for different classes.
- ❖ To prepare maps and charts to illustrate the content of different classes and use them effectively.
- ❖ To critically evaluate the existing school syllabus and review the text book of Geography.
- ❖ To apply appropriate method and techniques of teaching to particular topics at different levels.
- ❖ To arrange field trips and local surveys.
- ❖ To prepare achievement test and diagnostic test, administration of the test, analysis of results, make suggestion for remedial teaching.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the modern concept of Geography.
- ❖ Describe aims and objectives of teaching Geography.
- ❖ Prepare yearly plan, unit plan, lesson plan for different classes.
- ❖ Prepare maps and charts to illustrate the content of different classes and use them effectively.
- ❖ Critically evaluate the existing school syllabus and review the text book of Geography.
- ❖ Apply appropriate method and techniques of teaching to particular topics at different levels.
- ❖ Arrange field trips and local surveys.
- ❖ Prepare achievement test and diagnostic test, administration of the test, analysis of results, make suggestion for remedial teaching.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.9 Home Science	Any one CE	4	30	70	100

**Objectives:**

- ❖ To understand the Concept, Nature and scope of Home Science.
- ❖ To explore different ways of creating learning situations for different concepts of Home Science.
- ❖ To facilitate the development of scientific attitude in learner.
- ❖ To provide the knowledge related to Home management, Budgeting, Textile and Fashion as well as common health problems etc.
- ❖ To ensure the application of knowledge to resolve nutritional, health and resources related problems through Home Science
- ❖ To stimulate curiosity, skills and creativity in Home Science.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the Concept, Nature and scope of Home Science.
- ❖ Explore different ways of creating learning situations for different concepts of Home Science.
- ❖ Facilitate the development of scientific attitude in learner.
- ❖ Provide the knowledge related to Home management, Budgeting, Textile and Fashion as well as common health problems etc.
- ❖ Ensure the application of knowledge to resolve nutritional, health and resources related problems through Home Science
- ❖ Stimulate curiosity, skills and creativity in Home Science.

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.10 Chemistry	Any one CE	4	30	70	100

**Objectives:**

- ❖ To gain the knowledge of Chemistry for secondary and senior secondary level.
- ❖ To improve the various skills of student teachers in practical work.
- ❖ To understand the practical and theoretical description of various content.
- ❖ To solve different problems related with the content of chemistry.
- ❖ To know importance and use of course content.
- ❖ To plan, equip and organize chemistry practical in the laboratory.
- ❖ To use various methods with appropriateness of content, level and class room situations.
- ❖ To develop scientific attitude and provide training in scientific method to their students.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Gain the knowledge of Chemistry for secondary and senior secondary level.
- ❖ Improve the various skills of student teachers in practical work.
- ❖ Understand the practical and theoretical description of various content.
- ❖ Solve different problems related with the content of chemistry.
- ❖ Know importance and use of course content.
- ❖ Plan, equip and organize chemistry practical in the laboratory.
- ❖ Use various methods with appropriateness of content, level and class room situations.

- ❖ Develop scientific attitude and provide training in scientific method to their students.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.11 Physics	Any one CE	4	30	70	100

#### Objectives:

- ❖ To gain the knowledge of concepts of physics.
- ❖ To improve the various skills of student teachers in practical work.
- ❖ To understand the practical and theoretical description of various content.
- ❖ To able for solving different problems related with the content of physics.
- ❖ To plan, equip and organize physics practical in the laboratory.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Gain the knowledge of physics for secondary and senior secondary level.
- ❖ Improve the various skills of student teachers in practical work.
- ❖ Understand the practical and theoretical description of various content.
- ❖ Solve different problems related with the content of physics.
- ❖ Plan, equip and organize physics practical in the laboratory.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.12 Mathematics	Any one CE	4	30	70	100

#### Objectives:

- ❖ To gain the knowledge of Mathematics.
- ❖ To know different methods for solve mathematical problems.
- ❖ To understand the mathematics formulas and use them appropriately.
- ❖ To solve various types of mathematical problems

#### Course Outcomes: After completion of this course students would able to:

- ❖ Gain the knowledge of Mathematics.
- ❖ Know the different methods for solve mathematical problems.
- ❖ Understand the mathematics formulas and use them appropriately.
- ❖ Solve various types of mathematical problems



### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.13 General Science	Any one CE	4	30	70	100

### BSE 710 : 5.4. General Science

#### Objectives:

- ❖ To develop knowledge of General Science for secondary and Senior Secondary level
- ❖ To improve various skills of student teachers in practical work
- ❖ To understand the practical and theoretical description of various content
- ❖ To solve different problems related with the content of science
- ❖ To make student teachers to know importance and use of course content
- ❖ To plan, equip and organize physics practical in the laboratory.
- ❖ To use various methods with appropriateness of content, level and class room situation.
- ❖ To develop scientific attitude and provide training in scientific method to their students.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Gain the knowledge of General Science for secondary and Senior Secondary level
- ❖ Improve various skills of student teachers in practical work
- ❖ Understand the practical and theoretical description of various content
- ❖ Different problems related with the content of science
- ❖ Make student teachers to know importance and use of course content
- ❖ Plan, equip and organize physics practical in the laboratory.
- ❖ Use various methods with appropriateness of content, level and class room situation.
- ❖ Develop scientific attitude and provide training in scientific method to their students.

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.14 Biology	Any one CE	4	30	70	100

#### Objectives:

- ❖ To understand the various concepts related to Biology.
- ❖ To facilitate the development of Scientific Temper in learner.
- ❖ To provide critical and analytical knowledge to student teacher.
- ❖ To enhance creativity, skillfulness and teaching abilities among trainees to teach the school level students.
- ❖ To develop the skills related to problem solving, critical analysis and awareness to solve various health problems of community.
- ❖ To stimulate curiosity, application of knowledge and constructive thinking among the student teacher for whole biosphere.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the various concepts related to Biology.
- ❖ Facilitate the development of Scientific Temper in learner.
- ❖ Provide critical and analytical knowledge to student teacher.
- ❖ Enhance creativity, skillfulness and teaching abilities among trainees to teach the school level students.
- ❖ Develop the skills related to problem solving, critical analysis and awareness to solve various health problems of community.
- ❖ Stimulate curiosity, application of knowledge and constructive thinking among the student teacher for whole biosphere.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.15 Commercial Practice	Any one CE	4	30	70	100

**Objectives:**

- ❖ To help the students to acquire the basic understanding in the field of commerce education.
- ❖ To develop the ability to sensitize and equip student teachers to handle issues related to business organization and concerns in responsible manner.
- ❖ To impart knowledge about the methods and devices of teaching.
- ❖ To develop the ability to plan curriculum and instructions in commerce at school level.
- ❖ To develop commercial efficiency among students.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Able to help the students to acquire the basic understanding in the field of commerce education.
- ❖ Develop the ability to sensitize and equip student teachers to handle issues related to business organization and concerns in responsible manner.
- ❖ Impart knowledge about the methods and devices of teaching.
- ❖ Develop the ability to plan curriculum and instructions in commerce at school level.
- ❖ Develop commercial efficiency among students.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BED 411</b>	5. Additional Course (Any one) 5.16 Book-keeping	Any one CE	4	30	70	100

**Objectives:**

- ❖ To acquire the basic understand of teaching of Book-keeping and Accountancy.
- ❖ To develop the ability to plan curriculum and instruction in Book-keeping and Accountancy.

- ❖ To develop the ability to critically evaluate the existing school curriculum of Book–keeping.
- ❖ To impart knowledge of the methods and devices of teaching Book–keeping and to develop the skill of using the same.
- ❖ To apply appropriate methods and devices of teaching Particular topics for Book–keeping.
- ❖ To prepare achievement and diagnostic Tests.
- ❖ To develop necessary skill in preparation of using various teaching aids.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Able to acquire the basic understand of teaching of Book–keeping and Accountancy.
- ❖ Develop the ability to plan curriculum and instruction in Book-keeping and Accountancy.
- ❖ Develop the ability to critically evaluate the existing school curriculum of Book–keeping.
- ❖ Impart knowledge of the methods and devices of teaching Book–keeping and to develop the skill of using the same.
- ❖ Able to apply appropriate methods and devices of teaching Particular topics for Book–keeping.
- ❖ Prepare achievement and diagnostic Tests.
- ❖ Apply necessary skill in preparation of using various teaching aids.

# Syllabus

## DEPARTMENT OF EDUCATION Master of Education (M.Ed.)

Two Year Regular Programme



"A" Grade by NAAC & "A" Category by MHRD

**Jain Vishva Bharati Institute**

(Deemed to be University under section 3 of UGC Act, 1956)

**Ladnun-341306 (Raj.)**

2017

### **Programme Outcome of M.Ed.**

The department of education runs the M.Ed. programme which is recognized by NCTE, New Delhi since 2007. The programme has the specific outcomes for preparing masters in the field of education. The M.Ed. course needs to spell out the vision of school education and teachers education, which should be central focus. Every learner has his/her unique way of learning. The learners would require freedom to explore, enquire and investigate. This would require development of certain abilities like critical thinking, problem solving, logical reasoning and meaning making. The process of learning is facilitate by the teachers and teacher-educators. In order to create such a situation a lot of diversity in pedagogy, andragogy, assessment school organization, creation of an enabling learners environment and community involvement would require. The vision of the school is characterized by constructivist view of education and learning knowledge in education basically refers in individual development in terms of knowledge, understanding, skill, competencies and value orientation. The form of individual development is society, specific or more appropriately in specific context of democratic, secular, socialist and egalitarian society.

The program is devise a social arrangement through which individual engage themselves in knowing, acquiring skills, competencies and values. Education tries to ensure that the use of knowledge and life competence is based on human values and norms of the society. This program aims to ensure students regarding research on the basis of dissertation work with proper field internship work.

#### **Programme Specific Outcomes (PSO) of M.Ed. (2 Year programme)**

After completion of the M.Ed. programme the pupils teachers shall able to:

1. Prepare Masters in the field of education.
2. Develop creative thinking, teaching competencies and moral values among trainees.
3. Foster professionalism in teacher education programme.
4. Diaspora as creative research work and research attitude among trainees .
5. Enhance cognitive, affective, and psychomotor domain of the teacher education.
6. Establish relationship between theory and practical's in term of internship in the field of education .
7. Provide scientific attitude, employability, skill based training, and self-assessment among trainees.

### Semester - I

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 101	Psychology of Learning and Development	CC	4	20	60	20	100

#### Objectives:

- ❖ To understand the concept and process of Educational Psychology.
- ❖ To understand relationship between Education and Psychology.
- ❖ To understand the teaching learning process, cognitive process and intelligence.
- ❖ To understand and assess personality, learning and classroom implications and management.
- ❖ To acquaint the learner with the process and assessment of creativity, adjustment and mental problems.

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Describe the concept and process of Educational Psychology.
- ❖ Understand Cognition and Learning.
- ❖ Explain the concept, components to fostering creativity and creative thinking.
- ❖ Understand about the mental health and hygiene-process of adjustment, conflicts and defence mechanism.

### Semester - I

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 102	History and Political Economy	CC	4	20	60	20	100

#### Objectives:

- ❖ To deliver the Knowledge of the Indian Education System - past and today
- ❖ To help the student to acquire the basic understanding in the field of Economy
- ❖ To develop an ability to Conduct Various surveys in Economies and organize Field trips
- ❖ To understand the Concept, Scope & nature of Political Science

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Explain the Prospective Teacher of the Indian Education System.
- ❖ Understand Indian Economy.
- ❖ Conduct Various surveys in Economies and organize Field trips
- ❖ Describe the Concept, Scope & nature of Political Science

### Semester I

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 103	Education Studies	CC	4	20	60	20	100

#### Objectives:

- ❖ To enable the students to understand the meaning concepts, aims and objectives of education
- ❖ To acquaint the learners with the role of family, society and school
- ❖ To acquaint the learners with the current problems of Indian education
- ❖ To enable the learners to understand the role of NCERT, NCTE, UGC, NIEPA etc.

- ❖ To acquaint the students with the objectives, curriculum and examination system of pre-primary, secondary stages of education

**Course Outcomes:** After completion of this course students would able to:

- ❖ Explain Education Meaning and its Concept
- ❖ Understand various commission and education policies.
- ❖ Acquaint the learners with the current problems of Indian education
- ❖ Acquaint to various agencies of education in India.
- ❖ Understand current problem of society.

#### Semester I

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 104	Introduction to Research Method	CC	4	20	60	20	100

#### Objectives:

- ❖ To develop and understanding about the concept of research in Education and its relevancy.
- ❖ To develop skill in preparing a good research proposal and research design.
- ❖ To include the idea of different bases of research in the field of Education.
- ❖ To impart the sense of scientific attitude in research.
- ❖ To understand about the use of different types of research tools and techniques.
- ❖ To develop skill in analyzing quantitative and qualitative research .
- ❖ To appraise critically about research work in Education field.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand various types of research and formulation of research problems.
- ❖ Explain scientific inquiry and various research methods.
- ❖ Understand the concept, source and types of literature.
- ❖ Understand the quality of sample data and its uses with different techniques

#### Semester I

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 105	Communication and Expository Writing & Self Development (ISB)	CC	2		50 Practical & Viva-Voce		50

#### Objectives:

- ❖ To develop effective communication
- ❖ To develop expository writing
- ❖ To develop self development and confidence
- ❖ To develop self values

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand about the communication and writing methods
- ❖ Identify self development, introspection and extrospection
- ❖ Prepare their self appraisal report

### Semester I

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 101	Introduction to Jainism	FC	4	20	60	20	100

#### Objectives:

- ❖ To understand the Jain History and Literature
- ❖ To understand the Jain Metaphysics and Jain Life Cycle
- ❖ To understand the Non-violence and Jain Karmavda

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understanding about Jainism and its ethics & conduct.
- ❖ Acquire knowledge of Jain way of life.

### Semester II

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED201	Philosophy of Education	CC	4	20	60	20	100

#### Objectives

- ❖ To enable the student to understand the nature and functions of philosophy of education
- ❖ To acquaint the learner with the logical analysis, interpretation and synthesis of various concepts and philosophical assumptions about educational phenomena.
- ❖ To develop the ability to make comparison between different philosophies and their educational implications.
- ❖ To stimulate the students to have their own independent and consistent view point of a philosophy of education and issues.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the nature and functions of philosophy of education
- ❖ Acquaint the learner with the logical analysis, interpretation and synthesis of various concepts and philosophical assumptions about educational phenomena.
- ❖ Critical appraisal of contributions made to education by prominent educational thinkers- Indian and western.
- ❖ Develop the ability to make comparison between different philosophies and their educational implications.
- ❖ Do independent thinking and a deeper insight into the philosophical roots of educational problems.
- ❖ Stimulate the students to have their own independent and consistent view point of a philosophy of education and issues.



### Semester II

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED202	Sociology of Education	CC	4	20	60	20	100

#### Objectives:

- ❖ To develop on global perspective and help in solving the prevailing problems of education in India.
- ❖ To understand concept and process of Educational Sociology, Social Organization and Social Sub-system
- ❖ To understand relationship between education and social sub-system and education and social change.
- ❖ To know issues of equality, excellence and inequalities in education.
- ❖ To know the constraints of society in India.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Develop on global perspective and help in solving the prevailing problems of education in India.
- ❖ Understand concept and process of Educational Sociology, Social Organization and Social Sub-system
- ❖ Establish relationship between education and social sub-system and education and social change.
- ❖ Identify the issues of equality, excellence and inequalities in education.
- ❖ Know the constraints of society in India.

### Semester II

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED203	Teacher Education - I	CC	4	20	60	20	100

#### Objectives:

- ❖ To acquaint the concept, objectives and principles of Teacher education with its historical perspectives.
- ❖ To acquaint the problems and issues related to the Teacher Education.
- ❖ To acquaint essentials of Teacher Education.
- ❖ To understand about the development of teacher education curriculum in India, various organizational, patterns in India.
- ❖ To understand about the various aspects of supervision and feed back.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Acquaint with the concept, objectives and principles of Teacher education with its historical perspectives.
- ❖ Understand problems and issues related to the Teacher Education.
- ❖ Acquaint with essentials of Teacher Education.
- ❖ Development of teacher education curriculum in India, various organizational, patterns in India.
- ❖ Explain the various aspects of supervision and feed back.

### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 204	Dissertation (ISB)	CC	2		50 Practical & Viva-Voce		50

**Objectives:**

- ❖ To develop the research design
- ❖ To develop various research steps
- ❖ To understand the various research methods and techniques

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop the research design
- ❖ Understand various research steps
- ❖ Explain the various research methods and techniques

### Semester II

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED205	Internship in T E I	CC	4		100 Internship		100

**Objectives:**

- ❖ To understand the function of college
- ❖ To develop research steps

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the function of school.
- ❖ Develop various research steps
- ❖ Explain the various research methods and techniques

### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 201	Value Education and Spirituality	FC Any one	4	20	60	20	100

**Objectives:**

- ❖ To understand the need of value oriented education.
- ❖ To understand the process of contemplation for value development.
- ❖ To understand the non-violence and culture of peace.
- ❖ To understand the cardinal principles of Jainism.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the need of value oriented education.
- ❖ Discuss the process of contemplation for value development.
- ❖ Explain the non-violence and culture of peace.
- ❖ Understand the cardinal principles of Jainism.

### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 202	Informational Technology and Computer Application	FC Any one	4	20	60	20	100

#### Objectives:

- ❖ To understand the value of Information Technology.
- ❖ To understand the computer application.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquaint the fundamentals of the IT.
- ❖ Understand MS-Windows
- ❖ Familiar with MS-PowerPoint, MS-Word, MS-Excel and create their own blog.

### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 203	Preksha Meditation and Self Management	FC Any one	4	20	60	20	100

#### Objectives:

- ❖ To understand historical development of Preksha Meditation.
- ❖ To understand the components, spiritual-scientific basis, objectives and benefits of Preksha Meditation.
- ❖ To introduce the practicals & process of Preksha Meditation.

Course Outcomes: After completion of this course students would able to:

- ❖ Describe the general concept of Preksha Meditation and the components of it.
- ❖ Practice and instruct the method of Preksha Meditation.
- ❖ Describe spiritual and scientific basis of each component of Preksha Meditation.
- ❖ Identify the benefits of Preksha Meditation practice.
- ❖ Understand the mechanism of personality development through Preksha Meditation.
- ❖ Develop Preksha Meditation module for self management.

### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 204	The Use of English	FC Any one	4	20	60	20	100

#### Objectives:

- ❖ To help them learn how to form correct sentences.
- ❖ To acquaint them with various types of sentence.
- ❖ To enable them to express their ideas using English correctly.
- ❖ To enrich their vocabulary.
- ❖ To help their transform sentences in different ways.

**Course Outcomes:** After studying this course/paper the learners will certainly be able to write correct sentences.

- ❖ The learners can differentiate between sentences in active and passive voice , direct and indirect speech .
- ❖ The learners can use tenses correctly.
- ❖ They will be able to use modal verbs appropriately.
- ❖ They will learn how to write letters, applications and paragraphs/essays.
- ❖ By doing this practice their vocabulary and writing skill will improve.
- ❖ If they speak and write English correctly their confidence will increase.

#### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 205	Non-Violence and Peace	FC Any one	4	20	60	20	100

**Objectives:**

- ❖ To understand the philosophical and historical development of non-violence.
- ❖ To understand the components and techniques of training in Non-violence.
- ❖ To know about conflicts and its solution.
- ❖ To know about applied aspects of non-violence
- ❖ To understand environmental issue and way out
- ❖ To make a common mindset for world peace.

**Course Outcomes:** After completion of this course students would able to:

- ❖ The subject of non-violence and peace are relevant in this present era. In this course we will be aware of the various types of violence and non-violence.
- ❖ The applied form of non-violence and training in nonviolence are the significant characteristics of this programme.
- ❖ Conflicts are the part of life, with this programme student will be aware of various types of conflict and their resolution through diplomatic, Gandhian and Anekantik Technique. We are living in nature and our survival depends only on the well-being of nature. Now the globe is converted in a village, and our reach to any part of world is very easy. But, at the same time there several threats what world peace is facing students will becomes aware of the threats to world peace and initiatives of peace making.

#### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 206	Social Work :Themes & Practice	FC Any one	4	20	60	20	100

**Objectives:**

- ❖ To acquire a clear understanding of Social Work Concept
- ❖ To gain knowledge about Social Work Practice Methods.
- ❖ To Understand Scope and Settings of Social Work Practice

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire a clear understanding of Social Work Concept
- ❖ Gain knowledge about Social Work Practice Methods.
- ❖ Understand Scope and Settings of Social Work Practice

### Semester II

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
JVB 207	Introduction to Prakrit	FC Any one	4	20	60	20	100

**उद्देश्य—**

1. विद्यार्थियों का प्राकृत भाषा का सामान्य परिचय करवाना।
2. प्राकृत साहित्य का सामान्य परिचय करवाना।
3. आगमों में प्रमुख उत्तराध्ययनसूत्र के माध्यम से आगमों की शैली एवं व्यावहारिक पक्ष का अध्ययन करवाना।

**उपलब्धियाँ—**

1. इससे विद्यार्थियों का प्राकृत भाषा का ज्ञान होगा।
2. प्राकृत साहित्य की जानकारी के साथ-साथ जैन आगमिक परम्परा का भी ज्ञान होगा।
3. हमारी संस्कृति से विद्यार्थी परिचित होगी।

### Semester III

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 301	Research Methods and Advanced Statistics	CC	4	20	60	20	100

**Objectives:**

- ❖ To convey the essential characteristics of a set data by representing in tabular and graphical forms.
- ❖ To compute relevant measures of average and measures of variation.
- ❖ To spell out the characteristics of normal probability of distribution.
- ❖ To examine relationship between and among different types of variables of a research study.
- ❖ To calculate the Significant between two sets of independent and correlated samples.
- ❖ To test the hypotheses based on sample Statistics.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Convey the essential characteristics of a set data by representing in tabular and graphical forms.
- ❖ Compute relevant measures of average and measures of variation.
- ❖ Spell out the characteristics of normal probability of distribution.
- ❖ Examine relationship between and among different types of variables of a research study.
- ❖ Calculate the Significant between two sets of independent and correlated samples.
- ❖ Test the hypotheses based on sample Statistics.

### Semester III

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED302	Curriculum Studies	CC	4	20	60	20	100

**Objectives:**

- ❖ To define Curriculum and its concept
- ❖ To identify the components of Curriculum
- ❖ To describe the various Principles of Curriculum Construction
- ❖ To describe various approaches to curriculum construction
- ❖ To explain and compare various types of curriculum
- ❖ To describe various guiding principles for selection and organization of Learning Experiences
- ❖ To differentiate Formative and Summative Evaluation
- ❖ To explain various tools used in Curriculum Evaluation

**Course Outcomes:** After completion of this course students would able to:

- ❖ Define Curriculum and its concept
- ❖ Identity the components of Curriculum
- ❖ Describe the various Principles of Curriculum Construction
- ❖ Apply various approaches to curriculum construction
- ❖ Explain and compare various types of curriculum
- ❖ Describe various guiding principles for selection and organization of Learning Experiences
- ❖ Differentiate Formative and Summative Evaluation
- ❖ Explain various tools used in Curriculum Evaluation

**Semester III**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 303	Dissertation (ISB) Research design (Quantitative)	CC	2		50 Practical & Viva-Voce		50

**Objectives:**

- ❖ To understand the Research Desing and its quantitative
- ❖ To understand various Research Method

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand various research design
- ❖ Describe the quantitative methods

**Semester III**

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED304	Internship	CC	4		100 Internship		100

**Internship Work (4 Week)**

**Objective:**

- ❖ To know various teaching methods and their use in classes
- ❖ To prepare innovative lesson on different methods

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand various teaching methods used in class

- ❖ Prepare the innovative lesson on different methods

### Semester III

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED305	<b>Any one Area Specialization on course I</b> Area A Elementary education I	CE	4	20	60	20	100

#### Objectives:

- ❖ To understand the concept and History of Primary Education.
- ❖ To understand the problems of Primary Education.
- ❖ To understand the curriculum, evaluation pattern and different activities of Primary Education.
- ❖ To understand the recent plans or scheme of central and state govt. for Primary Education.
- ❖ To provide the solution of different problems of Primary Education.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the concept and History of Primary Education.
- ❖ Describe the problems of Primary Education.
- ❖ Understand curriculum, evaluation pattern and different activities of Primary Education.
- ❖ Acquaint with recent plans or scheme of central and state govt. for Primary Education.
- ❖ Provide the solution of different problems of Primary Education.

### Semester III

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED306	<b>Area B</b> Secondary and Senior Secondary Education I	CE	4	20	60	20	100

#### Objectives:

- ❖ To acquire necessary knowledge, skills and attitudes for the development of the self and the nation.
- ❖ To promote positive environmental and health practice.
- ❖ To enhance enjoyment in learning.
- ❖ To developmentally Society, Morality, Physically and Spirituality.
- ❖ To develop into a responsible and socially well adjusted person.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire necessary knowledge, skills and attitudes for the development of the self and the nation.
- ❖ Promote positive environmental and health practice.
- ❖ Enhance enjoyment in learning.
- ❖ Explain developmentally Society, Morality, Physically and Spirituality.
- ❖ Develop into a responsible and socially well adjusted person.

### Semester III

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED307	<b>Any one Area Specialization on course II</b> Area A Elementary Education II	CE	4	20	60	20	100

#### Objectives:

- ❖ To develop knowledge and understanding of the elementary education, its need and significance.
- ❖ To acquaint the students with the quality concern and administration of elementary education at different levels.
- ❖ To understand the policy perspective on ECCE in India and world.
- ❖ To develop insight for quality dimensions i.e. curriculum, pedagogy and programmes for elementary education.
- ❖ To develop skills for research and evaluation in ECCE and training.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Develop knowledge and understanding of the elementary education, its need and significance.
- ❖ Acquaint the students with the quality concern and administration of elementary education at different levels.
- ❖ Understand the policy perspective on ECCE in India and world.
- ❖ Develop insight for quality dimensions i.e. curriculum, pedagogy and programmes for elementary education.
- ❖ Develop skills for research and evaluation in ECCE and training.

### Semester III

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED308	<b>Area B</b> Secondary and Senior Secondary Education II	CE	4	20	60	20	100

#### Objectives:

- ❖ To acquire necessary knowledge, skills and attitudes for the development of the self and the nation.
- ❖ To promote positive environmental and health practice.
- ❖ To enhance enjoyment in learning.
- ❖ To developmentally Society, Morality, Physically and Spirituality.
- ❖ To develop into a responsible and socially well adjusted person.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Acquire necessary knowledge, skills and attitudes for the development of the self and the nation.
- ❖ Promote positive environmental and health practice.
- ❖ Enhance enjoyment in learning.
- ❖ Developmentally Society, Morality, Physically and Spirituality.



- ❖ Develop into a responsible and socially well adjusted person.

#### Semester IV

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED401	Teacher Education-II	CC	4	20	60	20	100

#### Objectives:

- ❖ To acquaint the concept, aims and organizing the student teaching
- ❖ To understand the place of practice teaching and its principles in teacher education.
- ❖ To know various patterns of student teaching, their methods of organization and evaluation.
- ❖ To understand various skills of teaching, teaching models and different competencies for a teacher for effective classroom teaching.
- ❖ To understand various techniques and methods of evaluation of student teaching.
- ❖ To know various innovative instructional methods used in teacher education programme.
- ❖ To know latest researches done in the field of teacher education and student teaching.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Acquaint the concept, aims and organizing the student teaching
- ❖ Understand the place of practice teaching and its principles in teacher education.
- ❖ Know various patterns of student teaching, their methods of organization and evaluation.
- ❖ Understand various skills of teaching, teaching models and different competencies for a teacher for effective classroom teaching.
- ❖ Understand various techniques and methods of evaluation of student teaching.
- ❖ Know various innovative instructional methods used in teacher education programme.
- ❖ Know latest researches done in the field of teacher education and student teaching.

#### Semester IV

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 402	Academic Writing (ISB)	CC	2		50		50
					Practical & Viva-Voce		

#### Objective:

- ❖ To develop the academic writing
- ❖ To develop research work writing
- ❖ To participate in seminar and workshop

#### Course Outcomes: After completion of this course students would able to:

- ❖ Write on research
- ❖ Understand the concept of seminar and workshop

#### Semester IV

Course code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
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MED403	Dissertation	CC	4	100 (Dissertation-60+Viva-Voce-40)	100
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**Objective:**

- ❖ To prepare for practical work
- ❖ To get the knowledge of field work and related problems.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Do practical work independently
- ❖ Understnd and knowledge of field work problems

**Semester IV**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 404	<b>Specialization on courses - I</b> <b>Area (a) : Educational Administration and Managements</b> Principles of Educational Administration and Management	Choose any one area which will comprise of three papers CE	4	20	60	20	100

**Objectives:**

- ❖ To develop the fundamental perspective of the theoretical tenants of administration and management.
- ❖ To understand the relationship between educational administration and human relations to enhance the effectiveness of organization.
- ❖ To know and analyze the causes and types of role conflicts in organization and resolve them.
- ❖ To be acquainted with the procedure of decision making and scientific management.
- ❖ To make the students with new trends and techniques of educational management.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop the fundamental perspective of the theoretical tenants of administration and management.
- ❖ Understand the relationship between educational administration and human relations to enhance the effectiveness of organization.
- ❖ Know and analyze the causes and types of role conflicts in organization and resolve them.
- ❖ Acquainted with the procedure of decision making and scientific management.
- ❖ Make the students with new trends and techniques of educational management.

**Semester IV**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 405	<b>Willa (b) Educational Technology</b> Principles of Educational Technology	Choose any one willa which will comprise of three papers CE	4	20	60	20	100

**Objectives:**

- ❖ To acquaint the students with the concept, definition and Scope of educational technology.
- ❖ To acquaint the students with the system approach, communication process and content analysis.
- ❖ To enable the students to understand about the principles of programmed learning.
- ❖ To acquaint the student about the role of instructional technology.
- ❖ To acquaint the student about the teaching model.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand with the concept, definition and Scope of educational technology.
- ❖ Explain system approach, communication process and content analysis.
- ❖ Describe about the principles of programmed learning.
- ❖ Understnad about the role of instructional technology.
- ❖ Acquaint about the teaching model.

**Semester IV**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 406	<b>Willa (c) Measurement and Evaluation</b> Principles of Measurement and Evaluation	Choose any one willa which will comprise of three papers CE	4	20	60	20	100

**Objectives:**

- ❖ To understand the meaning and basic concepts of measurments and Evaluation.
- ❖ To differentiate between measurement and evaluation.
- ❖ To acquaint the students with new trends in examination reforms.
- ❖ To develop critical thinking the students to understand the process of test development and their standardization.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the meaning and basic concepts of measurments and Evaluation.
- ❖ Differentiate between measurement and evaluation.
- ❖ Acquaint the students with new trends in examination reforms.
- ❖ Develop critical thinking the students to understand the process of test development and their standardization.

**Semester IV**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 407	<b>Specialization on courses - II</b> <b>Willa (a) : Educational Administration and Managements</b> Educational Administration and Management Practice	Choose any one willa which will comprise of three papers CE	4	20	60	20	100

**Objectives:**

- ❖ To acquaint the knowledge of different Education Administrative Structure in India.
- ❖ To know about various procedures of Educational Supervision an Co-ordination.
- ❖ To develop understanding of the concept and forms of Educational Management.
- ❖ To gain knowledge about the concept and principal of Financial Management.
- ❖ To assess the understanding about different Contemporary Trends in Educational Management.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquaint the knowledge of different Education Administrative Structure in India.
- ❖ Know about various procedures of Educational Supervision an Co-ordination.
- ❖ Develop understanding of the concept and forms of Educational Management.
- ❖ Gain knowledge about the concept and principal of Financial Management.
- ❖ Assess the understanding about different Contemporary Trends in Educational Management.

**Semester IV**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 408	<b>Willa (b) Education Technology</b> Innovative Methods and Techniques in Educational Technology	Choose any one willa which will comprise of three papers CE	4	20	60	20	100

**Objectives:**

- ❖ To understand the idea of Methods, Techniques and Models of Teaching Technology.
- ❖ To develop knowledge of Various Teaching Methods and Techniques.
- ❖ To acquire the knowledge of new trends in teaching technology.
- ❖ To apply teaching for effective and innovative class room teaching.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the idea of Methods, Techniques and Models of Teaching Technology.
- ❖ Develop knowledge of Various Teaching Methods and Techniques.
- ❖ Acquire the knowledge of new trends in teaching technology.
- ❖ Apply teaching for effective and innovative class room teaching.

**Semester IV**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 409	<b>Willa (c) Measurement and Evaluation</b> Tools and Techniques of Evaluation in Education	Choose any one willa which will comprise of three papers CE	4	20	60	20	100

**Objectives:**

1. To understand the process and performance through using various types of test items.
2. To acquaint the knowledge of preparing tools link Check list, Rating scales, Questionnaires etc.
3. To develop understanding about various Evaluation procedures
4. To obtain the knowledge of objectives in Evaluation
5. To know preparation of achievement and diagnostic tests and complete question paper.

**Course Outcomes:** After completion of this course students would able to:

1. Understand the process and performance through using various types of test items.
2. Acquint the knowledge of preparing tools link Check list, Rating scales, Questionnaires etc.
3. Develop understanding about various Evaluation procedures
4. Obtain the knowledge of objectives in Evaluation
5. Know preparation of achievement and diagnostic tests and complete question paper.

**Semester IV**

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 410	<b>Specialization on courses - III</b> <b>Willa (a) : Educational Administration and Management</b> Modern Trends in Educational Administration and Management	Choose any one willa which will comprise of three papers CE	4	20	60	20	100

**Objectives:**

- ❖ To develop an insight into modern perspectives and trends of Educational Administration and Management.
- ❖ To acquire the knowledge of Educational Management at different levels through scientific management.
- ❖ To develop the managerial skills through data analysis, planning proposals and decision making process.
- ❖ To develop knowledge of accreditation process, finance management and its application.
- ❖ To understand the planning procedure, human resource management and some new trends.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop an insight into modern perspectives and trends of Educational Administration and Management.
- ❖ Acquire the knowledge of Educational Management at different levels through scientific management.
- ❖ Develop the managerial skills through data analysis, planning proposals and decision making process.

- ❖ Develop knowledge of accreditation process, finance management and its application.
- ❖ Understand the planning procedure, human resource management and some new trends.

#### Semester IV

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
MED 411	<b>Willa (b) Education Technology</b> Educational Technology and Computer Application	Choose any one willa which will comprise of three papers CE	4	20	60	20	100

#### Objectives:

- ❖ Students will become awwill of various ICT trends.
- ❖ Students will be able to use computer for their studies and get the general introduction about windows operating system.
- ❖ Students can create presentation and use MS Word for their text formatting
- ❖ Students will know how to create simple marksheet and will be able to use Internet for their study purpose.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Aware of various ICT trends.
- ❖ Use computer for their studies and get the general introduction about windows operating system.
- ❖ Create presentation and use MS Word for their text formatting
- ❖ Know how to create simple marksheet and will be able to use Internet for their study purpose.

#### Semester IV

Course Code	Course Title	Course Category	Credit	CIA	Unit End Test	Term Paper	Total
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MED 412	<b>Will (c) Measurement and evaluation</b> New Trends in Educational Assessment and Statistics	Choose any one willa which will comprise of three papers CE	4	20	60	20	100
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**Objectives:**

- ❖ To grasp the holistic idea about Educational Assessment.
- ❖ To enhance skill of new trends in education.
- ❖ To apply and diagnose the learning errors of evaluation.
- ❖ To develop the knowledge and basic use of statistics in education.
- ❖ To create innovation in examination system (CBCS).

**Course Outcomes:** After completion of this course students would able to:

- ❖ Grasp the holistic idea about Educational Assessment.
- ❖ Enhance skill of new trends in education.
- ❖ Apply and diagnose the learning errors of evaluation.
- ❖ Develop the knowledge and basic use of statistics in education.
- ❖ Ceate innovation in examination system (CBCS).

# Syllabus

DEPARTMENT OF EDUCATION

**Bachelor of Arts-Bachelor of Education  
(B.A- B. Ed.)**

Four Years Integrated Regular Programme



"A" Grade by NAAC & "A" Category by MHRD

**Jain Vishva Bharati Institute**  
(Deemed to be University under section 3 of UGC Act, 1956)  
**Ladnun-341306 (Raj.)**

2017

Price: Rs.



### **Programme Outcome of B.A.-B.Ed. (4 Years Integrated Programme)**

The department of education runs the B.A.-B.Ed. programme which is recognized by NCTE, New Delhi since 20015. The programme has very specific outcomes to spread educational thought with creative skills in integrated approach enlighten, emancipated and empowered teachers leads the nation towards strong and global teachers and expected to create social cohesion, national integration, international understanding for prospective society.

This programme boost out the global dynamic values and ethics for teacher trainees. Teachers are backbone of the society, so preparing teachers itself a tedious job for the teacher educators in the field of education. ICT, yoga education, liberal education, skill training, inclusive parameter of institution are the basis ingredients of the innovative integrated programme. Both theoretical and practical knowledge with high standard of internship field work are the beauty of this teacher education programme. Practice makes an individual perfect and needful, so through this programme, more practice work shall be provided for teacher trainees more creative and dexterous for the highly upgraded scientific society.

### **Programme Specific Objectives (PSO) of B.A.-B.Ed. (4 Years Integrated programme)**

After completion of the B.A.-B.Ed. programme the pupil's teachers shall able to:

1. Give a proper training in integrated teacher education in graduate level.
2. Develop skills, attitude, knowledge among trainees.
3. Envisage integrated approach with ICT and creative peadagogy among trainees..
4. Motivate creative and rational thinking among teacher trainees.
5. Foster sound moral and ethical values for personality development among trainees.
6. Apply educational innovation and new strategies of teacher education.
7. Promote about liberal education in teacher education programme.

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU101	Childhood and Growing Up	CC	4	30	70	100

#### Objectives:

- ❖ Teacher trainees can aware about concept, methods & applications of Educational Psychology.
- ❖ To aware the trainees about concept and developmental dimensions of childhood.
- ❖ Trainees got informed about imagination, creativity & interests at school level.
- ❖ To know the related problems of Adolescence & remedies through Guidance & Counselling services.
- ❖ To aware about the process of human development
- ❖ To build sensitivity towards childrens' needs and capabilities within their socio-cultural context

#### Course Outcomes: After completion of this course students would able to:

- ❖ Utilize the knowledge of Educational Psychology for school education.
- ❖ Apply the concept of Growth & Development in teaching field.
- ❖ Plan various activities to fostering imagination, creativity & interests at school level.
- ❖ Know about various aspects related to Cognitive, Emotional & Social development of learner.
- ❖ Diagnose related problems of Adolescence & remedies through Guidance & Counselling services.

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 101	Hindi Literature ( प्राचीन एवं मध्यकालीन काव्य)	Any Three CE	4	30	70	100

#### उद्देश्य—

1. प्राचीन एवं भक्तिकालीन काव्य एवं कवियों से परिचित करवाना।
2. साहित्य के विभिन्न रूपों की जानकारी प्रदान करना।
3. विभिन्न साहित्यकारों की काव्यशैलियों से परिचित करवाना।

#### उपलब्धियाँ—

1. प्राचीन हिन्दी साहित्य का ज्ञान प्राप्त करेंगे।
2. भक्तिकालीन साहित्य से प्रेरणा प्राप्त कर जीवन में आध्यात्मिक मार्ग पर अग्रसर होंगे।
3. विभिन्न साहित्यकारों की लेखनशैली से परिचित होकर स्वयं की लेखन शैली विकसित कर सकेंगे।
4. प्राचीन एवं भक्तिकालीन साहित्य की जानकारी प्राप्त कर भावी प्रतियोगिता परीक्षाओं के लिये स्वयं को तैयार कर सकेंगे।

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 102	English Literature (Poetry and Drama)	Any Three CE	4	30	70	100

#### Objectives:

1. To enable the students to know about Elizabethan and Romantic Poetry.
2. To make them aware about Indian Poetry.
3. To make them familiar with the dramatic art.
4. 4-To acquaint them with some literary terms and Figures of Speech of these genres.

#### Outcomes:

- 1-The students can understand poetry, One-Act Play and Drama.
- 2-They can learn the difference between the Figures of Speech and Literary Terms.

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 103	Sanskrit Literature (संस्कृत व्याकरण एवं साहित्य) (लघुसिद्धांत कौमुदी )	Any Three CE	4	30	70	100

#### उद्देश्य—

1. स्वरों एवं व्यंजनों का सामान्य ज्ञान करवाना।
2. शब्दों की सन्धि एवं सन्धि विच्छेद का अभ्यास करवाना।
3. लघु कथाओं से संस्कृत भाषा का अभ्यास करवाना।

#### उपलब्धियाँ—

1. स्वरों के ज्ञान से उच्चारण शुद्धि होगी।
2. संस्कृत भाषा को बोलने व समझने का अभ्यास होगा।
3. लेखन कला का विकास होगा।

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 104	History (प्राचीन भारत का इतिहास) (प्रारंभ से 1206 ई. तक)	Any Three CE	4	30	70	100

#### उद्देश्य—

1. विद्यार्थियों को प्राचीन भारतीय इतिहास का ज्ञान प्रदान करना।
2. विभिन्न कलाओं की मुख्य विशेषताओं से परिचित करवाना।
3. विद्यार्थियों के प्राप्त इतिहास के ज्ञान को प्रतियोगी परिक्षाओं के लिये उपयोगी बनाना।

### उपलब्धियाँ—

1. विद्यार्थी गौरवशाली प्राचीन भारतीय इतिहास को जान पायेंगे।
2. स्थापत्य कला का तुलनात्मक अध्ययन कर पायेंगे।
3. इतिहास का ज्ञान प्राप्त कर प्रतियोगी परीक्षाओं में सफलता प्राप्त कर पायेंगे।

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 105	Political Science ( राजनीति विज्ञान के मूल आधार)	Any Three CE	4	30	70	100

### उद्देश्य—

1. विद्यार्थियों को राजनीति विज्ञान के आधारभूत सिद्धान्तों की जानकारी देना।
2. विद्यार्थियों को राजनीति विज्ञान की विभिन्न अवधारणाओं से परिचित करवाना।
3. विद्यार्थियों की प्रतियोगी परीक्षाओं में तर्क शक्ति बढ़ाना।

### उपलब्धियाँ—

1. विद्यार्थी राजनीति विज्ञान के आधारभूत सिद्धान्तों को जान सकेंगे।
2. विभिन्न अवधारणाओं के तुलनात्मक अध्ययन से वैज्ञानिक दृष्टिकोण का विकास कर सकेंगे।
3. परम्परागत एवं आधुनिक राजनीतिक सिद्धान्तों की जानकारी प्राप्त कर सकेंगे।

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 106	Sociology (Principales of Sociology)	Any Three CE	4	30	70	100

### Objectives:

- To enable the students to understand the meaning, nature and origion of sociology.
- To acquaint the learners with the concept of culture, society, community, institution, social structure.
- To enable the lerners to understnad the dynamics in sociology.
- To enable the learners to understand the theories of social change.

### Course Outcomes: After completion the course student would be able to:

- Understand the meaning, nature and origion of sociology.
- Acquaint the learners with the concept of culture, society, community, institution, social structure.
- Learn the dynamics in sociology.
- Understand the theories of social change.

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 107	Geography (Physical Geography)	Any Three CE	4	30	50+20 (Practical) 70	100

#### Objectives:

1. To make aware of physical Geography in Detail.
2. Knowledge about interior layers of Earth.
3. Deep Knowledge about all the layers of Atmosphere.

**Course Outcomes:** After completion the course student would be able to:

1. Knowledge about three branches of physical Geography: Geomorphology, Climatology and Oceanography.
2. Get Aware about the reasons of many natural disasters & knowledge to overcome that.
3. Get aware about the atmosphere in which they are living.

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 108	Economics (Salient Features of Indian Economy)	Any Three CE	4	30	70	100

#### Objectives:

- ❖ To enable the students teacher to acquire the basic understanding in the field of Economics.
- ❖ To enable the students teacher to acquire the Indian Economics.
- ❖ To enable the students teacher to understand the main features of Indian agriculture.
- ❖ To enable the students teacher to understand the need for industrialisation in India.

**Course Outcomes:** After completion the course student would be able to:

- ❖ Acquire the basic understanding in the field of Economics.
- ❖ Understand the Indian Economics.
- ❖ Understand the main features of Indian agriculture.
- ❖ Understand the need for industrialisation in India.

### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 109	Home Science (Food and Nutrition)	Any Three CE	4	30	70	100

#### Objective:

- Concept and classification of food, nutrients, vitamins and energy metabolism.
- Meal planning for families and individuals.
- Nutritional requirements, related problems and need based dietary guidelines.

- Methods of cooking, their advantages & disadvantages and effect on nutritive value and improving methods to maintain nutritional quality of foods.
- Difference between normal and therapeutic nutrition.
- Recommended dietary allowances and their effect on health.

**Course Outcomes:** After completion the course student would be able to:

- Classification of food, nutrients, vitamins and energy metabolism.
- Explain Meal planning for families and individuals.
- Understand Nutritional requirements, related problems and need based dietary guidelines.
- Explain Methods of cooking, their advantages & disadvantages and effect on nutritive value and improving methods to maintain nutritional quality of foods.
- Difference between normal and therapeutic nutrition.
- Recommended dietary allowances and their effect on health.

#### Semester I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
JVB 101	Introduction to Jainism	FC	4	30	70	100

#### Objectives:

- ❖ To understanding about Jain Ethics & Conduct.
- ❖ To acquire knowledge of Jain way of life.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop understanding about Jainisim and its ethics & conduct.
- ❖ Acquire knowledge of Jain way of life.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 201	Assessment For Learning	CC	4	30	70	100

#### Objectives:

- ❖ To describe the role of assessment in education.
- ❖ To distinguish among measurement, assessment and evaluation.
- ❖ To explain different forms of assessment that aid student learning.
- ❖ To use wide range of assessment tools, techniques and construct these appropriately.
- ❖ To evolve realistic, comprehensive and dynamic assessment procedures.
- ❖ To calculate item difficulty and discrimination power of a test item.
- ❖ To prepare a good achievement test on any school subject.
- ❖ To realize the importance of continuous and comprehensive evaluation in the process of students learning.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Describe the role of assessment in education.
- ❖ Distinguish measurement, assessment and evaluation.
- ❖ Explain different forms of assessment that aid student learning.
- ❖ Use wide range of assessment tools, techniques and construct these appropriately.
- ❖ Evolve realistic, comprehensive and dynamic assessment procedures.
- ❖ Calculate item difficulty and discrimination power of a test item.
- ❖ Prepare a good achievement test on any school subject.
- ❖ Realize the importance of continuous and comprehensive evaluation in the process of students learning.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 202	Learning And Teaching	CC	4	30	70	100

**Objectives:**

- ❖ To acquire the basic knowledge of learning and Teaching.
- ❖ To understand the implications of education.
- ❖ To develop various methods of teaching.
- ❖ To understand the various application of education.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire knowledge and understanding of learning and Teaching.
- ❖ Understand the theories of learning.
- ❖ Develop the skill of active engagement of students in teaching learning activity.
- ❖ Investigate differences and connections between learning in school and learning outside school.
- ❖ Inculcate the knowledge of teaching and its process.
- ❖ Understand learners, learning process and school.

#### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 201	Hindi Literature कथा साहित्य (उपन्यास एवं कहानी)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. विद्यार्थियों को नवीन गद्य विधा, उपन्यास एवं कहानी से परिचित कराना।
2. विद्यार्थियों में कहानी लेखन कौशल विकसित करना।
3. विद्यार्थियों को गद्य समीक्षा कौशल में निपुण बनाना।

**उपलब्धियाँ—**

1. विद्यार्थी उपन्यास एवं कहानी साहित्य की विस्तृत जानकारी प्राप्त कर विभिन्न लेखन शैलियों से परिचित होंगे।
2. विद्यार्थी स्वयं कहानी लेखन का अभ्यास कर सकेंगे।

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 202	English Literature (Prose and Fiction)	Any Three CE	4	30	70	100

#### Objectives:

1. To enable the students to compose stories.
2. To make them familiar with prose and Narrative art.
3. To acquaint them with some literary terms of these genres.

#### Outcomes:

1. The students can understand Essay, Short Story and Novel.
2. They can learn the difference between the Figures of Speech and Literary Terms.

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 203	Sanskrit Literature (संस्कृत व्याकरण एवं साहित्य) (लघु सिद्धांत कौमुदी)	Any Three CE	4	30	70	100

#### उद्देश्य—

1. शब्दों के स्त्रिलिङ्गी प्रत्ययों का ज्ञान करवाना।
2. अव्ययों का ज्ञान करवाना।
3. शेषुषी में व्याकरण एवं साहित्य का समन्वयात्मक ज्ञान करवाना।

#### उपलब्धियाँ—

1. स्त्रिलिङ्ग शब्दों के निर्माण की प्रक्रिया का ज्ञान होगा।
2. अव्ययों का सामान्य ज्ञान होगा।
3. सरल संस्कृत संभाषण का अभ्यास होगा।

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 204	History (भारतीय संस्कृति के मूलाधार )	Any Three CE	4	30	70	100

#### उद्देश्य—

1. विद्यार्थियों को भारतीय संस्कृति की विशेषताओं से परिचित करवाना।
2. बौद्ध एवं जैन धर्म के सिद्धान्तों एवं शिक्षाओं को समझाना।
3. वर्ण, आश्रम, पुरुषार्थ, संस्कार आदि के महत्त्व को समझाना।
4. कालिदास, तुलसीदास, राजाराममोहनराय, महात्मा गांधी, आचार्य तुलसी, आदि की उपलब्धियों से परिचित करवाना।



### उपलब्धियाँ

1. विद्यार्थी भारतीय संस्कृति की विशेषताओं को समझकर उनको आत्मसात् कर अपने व्यक्तित्व का विकास कर सकेंगे।
2. बौद्ध और जैन धर्म की शिक्षाओं को समझकर उनको अपने जीवन में अपनाकर अपने व्यक्तित्व का विकास एवं आदर्श समाज की स्थापना में योगदान कर पायेंगे।
3. कालिदास, तुलसीदास, राजाराममोहनराय, आचार्य तुलसी, रविन्द्रनाथ टैगोर आदि के जीवन से प्रेरणा प्राप्त कर पायेंगे।

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 205</b>	Political Science ( प्रतिनिधि भारतीय राजनीतिक विचारक)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

### उद्देश्य—

1. विद्यार्थियों को प्राचीन भारतीय राजनैतिक विचारकों की विचारधाराओं से अवगत करवाना।
2. विभिन्न विचारकों के दर्शन की प्रासंगिकता को समझाना।
3. विभिन्न विचारकों का तुलनात्मक अध्ययन कर विद्यार्थियों को नये आयाम देना।

### उपलब्धियाँ—

1. विद्यार्थी प्राचीन विचारकों के दर्शन को जान पायेंगे।
2. विद्यार्थी प्राचीनकाल से लेकर आधुनिक काल तक विभिन्न विचारधाराओं का अध्ययन कर सकेंगे।
3. विद्यार्थी प्राचीन राज व्यवस्था एवं आधुनिक राज—व्यवस्था का तुलनात्मक अध्ययन कर सकेंगे।

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 206</b>	Sociology (Indian Society)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

### Objectivess:

- ❖ To enable the learners to sociological understanding of Indian Society.
- ❖ To enable the learners to understand the structure and compositions of Indian Society.
- ❖ To enable the learners to understand the basic Institutions of Indian Society
- ❖ To enable the learners to understand challenge and problems in Indian Society

### Course Outcomes: After completion of this course students would able to:

- ❖ Explain sociological understanding of Indian Society.
- ❖ Understand the structure and compositions of Indian Society.
- ❖ Understand the basic Institutions of Indian Society
- ❖ Understand challenge and problems in Indian Society

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 207	Geography (Geography of Rajasthan)	Any Three CE	4	30	50+20 (Practical) 70	100

#### Objectives:

- ❖ Giving Deep Knowledge about climate conditions of Rajasthan.
- ❖ Knowledge about human resources of Rajasthan.
- ❖ Knowledge regarding industries of Rajasthan.

**Objectives:** After completion the course student would be able to:

- ❖ Explain the climate conditions of Rajasthan.
- ❖ Understand about human resources of Rajasthan.
- ❖ Describe industries of Rajasthan.

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 208	Economics (Economics Theory)	Any Three CE	4	30	70	100

#### Objectives:

- ❖ The enable the student to understand the Micro and Macro Economics
- ❖ The enable the student to understand the methods of Economics Analysis
- ❖ The acquaint the learner with the logical analysis, Interpretation of Demand, production and market

**Course Outcomes:** After completion of the course student would be able to:

- ❖ Enable the student to understand the Micro and Macro Economics
- ❖ Understand the methods of Economics Analysis
- ❖ Acquaint the learner with the logical analysis, Interpretation of Demand, production and market

### Semester II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 209	Home Science (Family Resource Management)	Any Three CE	4	30	70	100

#### Objectives:

- ❖ To understand the meaning of resources management and concepts related to management.
- ❖ To apply managerial process to management of time, energy and money.
- ❖ To understand saving investment and credit pattern of family.
- ❖ To increase awareness about consumer problems, rights, responsibilities & protection laws.

**Course Outcomes:** After completion of the course student would be able to:

- ❖ Understand the meaning of resources management and concepts related to management.
- ❖ Managerial process to management of time, energy and money.
- ❖ Understand saving investment and credit pattern of family.
- ❖ Increase awareness about consumer problems, rights, responsibilities & protection laws.

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 301	Understanding Discipline and Subjects	Any one CE	4	30	70	100

#### Objectives:

- ❖ To make aware the students about the disciplines and its characteristics.
- ❖ To give Introduction of Kalidas, Tulsidas and Shakespeare
- ❖ To understand the scientific idea of science education.
- ❖ To apply the thought of social science language in their day to day life.

#### Course Contents:

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand language of various discipline.
- ❖ Develop expression of various language areas.
- ❖ Acquire scientific study of language phonetics.
- ❖ Know the scientific idea of science education.
- ❖ Apply the thought of social science language in their day today life.
- ❖ Develop interdisciplinary approach of language (Hindi/Sanskrit/English).

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 302	Innovative Methods	Any one CE	4	30	70	100

#### Objectives:

- ❖ To introduce students about the concepts of innovations in teaching.
- ❖ To understand the idea of various subject methods.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop knowledge of various innovative methods.
- ❖ Understand the idea of methods.

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 301	Hindi Literature (रीतिकालीन काव्य)	Any Three CE	4	30	70	100

#### उद्देश्य—

1. विद्यार्थियों को रीतिकालीन काव्य से परिचित करवाना।
2. विद्यार्थियों को विभिन्न कवियों की काव्यशैली की जानकारी देना।
3. विद्यार्थियों को विभिन्न कवियों की भाषाशैली से परिचित करवाना।

#### उपलब्धियाँ—

1. विद्यार्थी विभिन्न कवियों की लेखनशैली से परिचित होकर अपना मत प्रस्तुत कर सकेंगे।
2. विद्यार्थी रीतिकालीन काव्य का परिचय प्राप्त कर स्वयं काव्य रचना का प्रयास कर सकेंगे।

पाठ्यपुस्तक/संदर्भ ग्रंथ:—

1. रीतिरस तरंगिणी, ऑक्सफोर्ड बुक डिस्ट्रीब्यूटर्स, जयपुर

2. रीतिकाव्य की भूमिका—डॉ नगेन्द्र नेशनल पब्लिशिंग हाउस, नई दिल्ली
3. हिन्दी साहित्य का वृहद इतिहास (16 खण्ड) संपादक डॉ नगेन्द्र प्रचारिणी सभा काशी
4. हिन्दी साहित्य की भूमिका—आचार्य हजारी प्रसाद द्विवेदी हिन्दी ग्रंथ रत्नाकर, मुंबई
5. हिन्दी साहित्य का अतीत(भाग 2) —आचार्य विश्वनाथ प्रसाद मिश्र वाणी प्रकाशन नई दिल्ली
6. हिन्दी साहित्य का इतिहास; रीतिकाल—आचार्य रामचन्द्र शुक्ल नागरी प्रचारिणी सभा काशी

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 302	English Literature (Poetry and Drama)	Any Three CE	4	30	70	100

#### Objectives:

- 1- To enable the students to compose poems.
- 2- To make them familiar with Romantic and Victorian Poetry, Indian Poetry and Drama.
- 3- To acquaint them with some literary terms of these genres.

#### Outcomes:

- 1- The students can understand the changing nature of Literature through ages.
- 2- They will become familiar with various forms of verse and dramatic art.

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 303	Sanskrit Literature संस्कृत व्याकरण एवं साहित्य (लघुसिद्धान्त कौमुदी)	Any Three CE	4	30	70	100

#### उद्देश्य—

1. नाटक एवं महाकाव्य की शैली का अवबोध करवाना।
2. कारक से शब्दरूप की विभक्तियों का ज्ञान करवाना।
3. समास के द्वारा शब्दों के निर्माण की विधि सिखाना।

#### उपलब्धियाँ—

1. नाटक पठन से संभाषण कला का ज्ञान होगा।
2. विभक्ति संबंधी ज्ञान में अशुद्धि नहीं रहेगी।
3. श्लोक रचना आदि में समास का कार्यकारी ज्ञान होगा।

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 304	History (मध्यकालीन भारत का इतिहास)	Any Three CE	4	30	70	100

### उद्देश्य—

1. मध्यकालीन भारत के इतिहास से परिचित करवाना ।
2. अकबर की महानता से परिचित करवाना ।
3. मुगलकालीन कला से परिचित करवाना ।

### उपलब्धियाँ—

1. विद्यार्थी मध्यकालीन भारतीय इतिहास के प्राप्त ज्ञान का उपयोग प्रतियोगी परीक्षाओं में कर पायेंगे ।
2. विद्यार्थी मुगलकालीन संस्कृति, शासन प्रबंध आदि से परिचित हो पायेंगे ।
3. मुगल कला के विश्लेषणात्मक अध्ययन से विद्यार्थियों में कला के तुलनात्मक अध्ययन की क्षमता बढ़ेगी ।

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 305	Political Science (प्रमुख राजनीतिक व्यवस्थायें)	Any Three CE	4	30	70	100

### उद्देश्य—

1. विद्यार्थियों को विश्व के प्रमुख संविधानों की जानकारी देना ।
2. विद्यार्थियों को संघात्मक एवं एकात्मक संविधानों से अवगत कराना ।
3. लिखित एवं अलिखित संविधानों के बारे में बताना ।
4. विद्यार्थियों की प्रतियोगी परीक्षाओं में तर्क शक्ति बढ़ाना ।

### उपलब्धियाँ—

1. विद्यार्थी विभिन्न देशों के संविधानों को विस्तृत रूप से जान सकेंगे ।
2. विभिन्न देशों के संविधानों का तुलनात्मक अध्ययन कर सकेंगे ।
3. परम्परागत एवं आधुनिक संविधानों के दृष्टिकोण को समझ सकेंगे ।
4. विभिन्न संविधानों में संशोधनों की जानकारी प्राप्त कर सकेंगे ।

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 306	Sociology (Social Research Method)	Any Three CE	4	30	70	100

### Objectives:

- ❖ To develop and under standing about the concept of research in social science.
- ❖ To develop skill in pro paring a good research proposal and research design.
- ❖ To include the idea of different bases of research in the field of sociology.
- ❖ To Understand about the use of different types of research tools and techniques.
- ❖ To appraise critically about research work in social science field.

**Course Outcomes: After completion the course students would be able to:**

- ❖ Develop and understanding about the concept of research in social science.
- ❖ Develop skill in preparing a good research proposal and research design.
- ❖ Include the idea of different bases of research in the field of sociology.
- ❖ Understand about the use of different types of research tools and techniques.
- ❖ Appraise critically about research work in social science field.

**Semester III**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 307	Geography (Human Geography)	Any Three CE	4	30	50+20 Practical) 70	100

**Objectives-**

1. To make students aware about human Geography.
2. To make aware about Population Distribution & Human Development.
3. To make students aware about schools & principles of Human Geography.

**Outcomes-**

1. Having Knowledge of human geography & its principles, students can adjust & adapt themselves with different cultures prevailing.
2. Comes to know about problems regarding overpopulation, migration & steps to solve them.
3. Deep knowledge about people residing in urban & rural areas, their problems & solutions.

**Semester III**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 308	Economics (Economics of Development and Planning in India)	Any Three CE	4	30	70	100

**Objectives:**

- ❖ To enable to understand the Economics of development.
- ❖ To enable to understand the Rostow's Theory of Historical stage of Growth.
- ❖ To enable to understand the Economics planning in mixed Economy.
- ❖ To enable to understand the Indian planning system.

**Course Outcomes: After completion the course students would be able to:**

- ❖ Enable to understand the Economics of development.
- ❖ Understand the Rostow's Theory of Historical stage of Growth.
- ❖ Enable to understand the Economics planning in mixed Economy.
- ❖ Understand the Indian planning system.

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 309</b>	Home Science (Human Development)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- To understand Concept, scope and foundation of human development
- To Different life span stages related to human development
- To Major developmental task, problems and support services related to human development
- To famalier with types of families and their related challenges in references to physical, motor and socio- emotional development

#### Course Outcomes : After studying this course students will able to learn-

- Concept, scope and foundation of human development
- Different life span stages related to human development
- Major developmental task, problems and support services related to human development
- Types of families and their related challenges in references to physical, motor and socio- emotional development

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>JVB 301</b>	Critical Understanding of ICT	<b>CF</b>	<b>2</b>	<b>15 Practical</b>	<b>35</b>	<b>50</b>

#### Objectives:

- ❖ To explain the concept of ICT in education.
- ❖ To develop skills in using MS Office applications for education.
- ❖ To use internet efficiently to access information and communicate with others.
- ❖ To understand the applications of E-learning in education.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Explain the concept of ICT in education.
- ❖ Develop skills in using MS Office applications for education.
- ❖ Use internet efficiently to access information and communicate with others.
- ❖ Understand the applications of E-learning in education.

### Semester III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
JVB 302	Yoga and Preksha Meditation	CF	2	15 Practical	35	50

#### Objectives:

- ❖ जीवन विज्ञान, प्रेक्षाध्यान एवं योग विद्या की जानकारी प्राप्त कर सकेंगे।
- ❖ संतुलित व्यक्तित्व का निर्माण।
- ❖ विद्यालयस्तरीय ध्यान एवं योग के प्रशिक्षक तैयार करना।

#### Course Outcomes:

- ❖ जीवन विज्ञान, प्रेक्षाध्यान एवं योग विद्या की जानकारी प्राप्त कर सकेंगे।
- ❖ संतुलित व्यक्तित्व का निर्माण।
- ❖ विद्यालयस्तरीय ध्यान एवं योग के प्रशिक्षक तैयार करना।

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 401	Gender, School and Society	CC	4	30	70	100

#### Objectives:

- ❖ To understand the modern concept of society, organization & gender sensitivity.
- ❖ To aware about the dimension of development of school administration.
- ❖ To develop basic understanding & familiarity with key concept, society, social problem, social relationship and new trends
- ❖ To develop knowledge of the role of different NGO & organizations.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Sensitize students about different social & national level problems at school level.
- ❖ Remedies regarding gender discrimination, government schemes and Right to Education.
- ❖ Implement their knowledge to plan community awareness programmes to sensitize weaker section of society.
- ❖ Understanding relationship between education and society as well as NGO's.
- ❖ Utilize their administrative skill to manage different administrative activities at school level.

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 402	Reading and Reflecting on Texts (EPC)	CC	2	15	35 Practical & Viva-Voce	50

#### Objectives:

- ❖ To develop basic Communication Skills.
- ❖ To promote Creative Writing among students.
- ❖ To acquire the knowledge of art of Speaking.



**Course Outcomes: After completion the course students would be able to:**

- ❖ Develop basic Communication Skills.
- ❖ Creative Writing among students.
- ❖ Acquire the knowledge of art of Speaking.

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 403	Drama and Arts in Education (EPC)	CC	2	15	35 Practical & Viva-Voce	50

**Objectives:**

- ❖ To develop skills of role playing and acting.
- ❖ To acquire the knowledge and develop skill of arts, painting and playing musical Instruments.

**Course Outcomes: After completion of this course students would able to:**

- ❖ Develop skills of role playing and acting.
- ❖ Acquire the knowledge and develop skill of arts, painting and playing musical Instruments.

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 401	Hindi Literature गद्य साहित्य (निबन्ध नाटक एवं एकांकी)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. विद्यार्थियों को नाटक, एकांकी एवं निबंध साहित्य की सामान्य जानकारी देना।
2. हिन्दी के प्रमुख गद्य साहित्यकारों का परिचय देना।
3. हिन्दी की प्रमुख गद्य शैलियों का ज्ञान प्रदान करना।
4. विद्यार्थियों में गद्य लेखन क्षमता का विकास करना।

**उपलब्धियाँ—**

1. विद्यार्थी प्रमुख साहित्यकारों की रचनाओं से प्रेरणा पाकर अपने लेखन कौशल का अभ्यास कर सकेंगे।
2. विद्यार्थी गद्य की विभिन्न शैलियों का ज्ञान प्राप्त कर स्वयं की लेखनशैली का विकास कर सकेंगे।
3. विद्यार्थी स्वयं गद्य लेखन की ओर अग्रसर हो सकेंगे।

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 402</b>	English Literature (Prose and Fiction)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objective :**

1. To enable the students to compose Stories.
2. To make them familiar with English Essay, Short Stories and Partition Fiction.
3. To acquaint them with some literary terms of these genres.

**Outcomes:**

- ❖ The students can understand the changing nature of Literature through ages.
- ❖ They will become familiar with various forms of prose and narrative art.

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 403</b>	Sanskrit Literature संस्कृत व्याकरण एवं साहित्य (लघुसिद्धांतकौमुदी)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**उद्देश्य—**

1. वाक्य निर्माण का अभ्यास कराना।
2. अनुवाद की विधा का प्रशिक्षण देना
3. तद्धित शब्दों की विधि समझाना।

**उपलब्धियाँ—**

1. वाक्य निर्माण की प्रक्रिया का ज्ञात होगा।
2. शब्द कोश का ज्ञान बढ़ेगा।

**Semester IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 404</b>	History (राजस्थान के इतिहास का सर्वेक्षण )	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**उद्देश्य—**

1. विद्यार्थियों को राजस्थान के इतिहास से परिचित करवाना।
2. दुर्ग वास्तुकला से परिचित करवाना।
3. महाराणा कुंभा, महाराणा प्रताप व मानसिंह की उपलब्धियों से परिचित करवाना।
4. किसान आन्दोलन, प्रजामण्डल आन्दोलन व राजस्थान के एकीकरण से परिचित करवाना।

### उपलब्धियाँ-

1. विद्यार्थी राजस्थान के गौरवशाली इतिहास से परिचित हो पायेंगे।
2. महाराणा कुंभा, महाराणा प्रताप, मीरां, दादू दयाल आदि के जीवन से प्रेरणा प्राप्त कर अपने व्यक्तित्व का विकास कर सकेंगे।
3. राजस्थान के एकीकरण के विभिन्न चरणों से परिचित हो पायेंगे।
4. राजस्थान के इतिहास के अध्ययन से विद्यार्थी प्रतियोगी परीक्षाओं में सफलता प्राप्त कर पायेंगे।

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 405	Political Science (भारतीय राजनीतिक व्यवस्था)	Any Three CE	4	30	70	100

### उद्देश्य-

1. भारतीय राजनीतिक व्यवस्था की जानकारी देना।
2. शासन की विभिन्न संस्थाओं से परिचित कराना।
3. भारत की वर्तमान बदलती राजनैतिक दशा एवं दिशा का बोध करवाना।
4. विद्यार्थियों की प्रतियोगी परीक्षाओं में तर्क शक्ति बढ़ाना।

### उपलब्धियाँ-

1. ब्रिटिश सरकार के विभिन्न अधिनियमों की जानकारी प्राप्त कर सकेंगे।
2. शासन की विभिन्न संस्थाओं का तुलनात्मक अध्ययन कर सकेंगे।
3. केन्द्रिय स्तर से लेकर राज्यों की राजनीति की जानकारी प्राप्त कर सकेंगे।

### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 406	Sociology (Social Problems in Contemporary India)	Any Three CE	4	30	70	100

### Objectives:

- ❖ To enable the students to understand the conceptual in contemporary India.
- ❖ To enable the students to understand the structural problems in contemporary India
- ❖ To enable the students to understand the disorganizational problems in contemporary India.
- ❖ To enable the students to understand the development problems in contemporary.

### Course Outcomes:

- ❖ Enable the students to understand the conceptual in contemporary India.
- ❖ Understand the structural problems in contemporary India
- ❖ Understand the disorganizational problems in contemporary India.
- ❖ Understand the development problems in contemporary.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 407</b>	Geography ( <b>Economic Geography</b> )	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>50+20 (Practical) 70</b>	<b>100</b>

#### Objectives-

1. To make students aware about concept of Economic geography, Economic activities & their impact on the environment.
2. Knowledge about various resources : Natural, Soil, Mineral & Energy.
3. Knowledge about agencies (WTO, GATT) engaged in promoting trade & services.

#### Outcomes - After completion the course students would be able to:

1. Explain activities of trade & services will affect the environment. This may lead to the path of Green Environment.
2. Know availability of various resources available, their proper utilisation is possible.
3. Contribute their efforts towards promoting trade in which our country is having self-sufficiency.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 408</b>	Economics ( <b>Macro Economics Theory</b> )	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To enable the student teacher to understand concept of Macro Economics.
- ❖ To enable the student teacher to understand National Income.
- ❖ To enable the student teacher to understand concept of Money and prices.
- ❖ To enable the student teacher to understand Functions of Commercial Bank and central Band.
- ❖ To enable the student teacher to understand difference between private and public finance.

#### Outcomes: After completion the course students would be able to:

- ❖ Understand concept of Macro Economics.
- ❖ Explain the National Income.
- ❖ Understand concept of Money and prices.
- ❖ Describe the Functions of Commercial Bank and central Band.
- ❖ Understand difference between private and public finance.

#### Semester IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 409	Home Science - Textiles & Clothing	Any Three CE	4	30	70	100

#### Objectives:

- ❖ To understand the basic knowledge of textile and clothing.
- ❖ To explain the basic ideas to make decision in selection of clothing.
- ❖ To explain the recent patterns and innovations in the field of textiles and clothing.
- ❖ To provide the knowledge regarding traditional textiles and embroideries of India.

#### Course Outcomes : After studying this course students will able to learn :

- ❖ After studying this course students will able to know:
- ❖ Basic knowledge of textile and clothing.
- ❖ Basic ideas to make decision in selection of clothing.
- ❖ Recent patterns and innovations in the field of textiles and clothing.
- ❖ Knowledge regarding traditional textiles and embroideries of India.

#### Semester V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 501	General English	CC	4	30	70	100

#### Objective:

1. Students will be able to recognize and understand the meaning of targeted grammatical structures in written and spoken form.
2. Students will practice the grammar skills involved in writing sentences and short paragraphs.

#### Outcome:

1. Students will begin to self-edit their oral and written production.
2. Students will make less grammatical errors.
3. Students will become clear of grammatical terms.
4. Students will get exposure of writing letters, application and paragraph.

#### Semester V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 502	Contemporary India and Education	CC	4	30	70	100

#### Objectives:

- ❖ To know the concept and nature of Education.
- ❖ To know the social mobility and social skill.
- ❖ To understand the various committee and commission.
- ❖ To educate about the recent policies of Education.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Know social aspects of education and develop educational perspective.
- ❖ Solve prevailing problems of education in India.
- ❖ Understand the purpose, function and Role of education in nation building.
- ❖ Understand knowledge of the Indian education system as it has evolved from the past, as it is today.
- ❖ Understand the concept, principle of sustainable development and core concept of educational thinkers.
- ❖ Know social equity and equality of educational opportunities.

**Semester V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 501	Hindi Literature (आधुनिक काव्य एवं काव्यशास्त्र)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. विद्यार्थियों को आधुनिक काव्य से परिचित करवाना।
2. विद्यार्थियों को विभिन्न कवियों की काव्यशैली की जानकारी देना।
3. विद्यार्थियों को काव्यशास्त्र की सामान्य जानकारी देना।

**उपलब्धियाँ—**

1. विद्यार्थी विभिन्न कवियों की लेखनशैली से परिचित होकर अपना मत प्रस्तुत कर सकेंगे।
2. विद्यार्थी आधुनिक काव्य का परिचय प्राप्त कर स्वयं काव्य रचना का प्रयास कर सकेंगे।
3. विद्यार्थी स्वयं को भावी प्रतियोगिता परीक्षाओं के लिये तैयार कर सकेंगे।
4. विद्यार्थी काव्यशास्त्र का ज्ञान प्राप्त करेंगे।

**Semester V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 502	English Literature (Poetry and Drama)	Any Three CE	4	30	70	100

**Objectives:**

1. To enable the students to compose poems.
2. To familiarize them with Modern Poetry and Problem Play.
3. To acquaint them with the literary terms related to the genres.

**Outcome:**

1. The students can understand the changing nature of Literature through ages.
2. They will become familiar with various forms of verse and dramatic art.
3. They will be highly motivated to read other compositions and related genres.

**Semester V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 503	Sanskrit Literature संस्कृत व्याकरण एवं साहित्य (लघुसिद्धांत कौमुदी)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. धातुरूप से संस्कृत भाषा की क्रिया संबंधी जानकारी देना।
2. धातुओं के विभिन्न रूपों की जानकारी देना।
3. खण्डकाव्य की विधि से अवगत करवाना।

**उपलब्धियाँ—**

1. विभिन्न धातुओं के अर्थ आदि की जानकारी प्राप्त होगी।
2. संस्कृत की ऐतिहासिकता की जानकारी प्राप्त होगी।
3. काव्य रचना की नवीन विद्या का ज्ञान होगा।

**Semester V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 504	History (आधुनिक भारत का इतिहास)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. विद्यार्थियों को आधुनिक भारतीय इतिहास का ज्ञान प्रदान करना।
2. ब्रिटिश भू-राजस्व व्यवस्था से परिचित करवाना।
3. भारतीय पुनर्जागरण का ज्ञान प्रदान करना।
4. राष्ट्रीय आन्दोलन के महत्त्व को बताना।
5. भारतीय संविधान की जानकारी प्रदान करना।

**उपलब्धियाँ—**

1. ब्रिटिश शासन के सकारात्मक एवं नकारात्मक प्रभाव का विश्लेषणात्मक अध्ययन कर पायेंगे।
2. राजाराममोहनराय, दयानंद सरस्वती एवं स्वामी विवेकानंद आदि के जीवन से प्रेरणा प्राप्त कर अपने व्यक्तित्व का विकास कर पायेंगे।
3. भारतीय संविधान एवं राष्ट्रीय आंदोलन के आदर्शों से प्रेरणा प्राप्त कर पायेंगे।

**Semester V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 505	Political Science (पाश्चात्य प्रतिनिधि राजनीति विचारक)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. विद्यार्थियों को पाश्चात्य राजनीतिक विचारकों की विचारधाराओं से अवगत कराना।
2. विभिन्न विचारकों के दर्शन की वर्तमान में प्रासंगिकता बताना।
3. विभिन्न विचारकों का तुलनात्मक अध्ययन कर विद्यार्थियों को नये आयाम देना।

### उपलब्धियाँ-

1. विद्यार्थी पाश्चात्य विचारकों के दर्शन को जान सकेंगे।
2. विद्यार्थी प्राचीनकाल, मध्यकाल एवं आधुनिक काल में बदलते विचारकों के दर्शन को जान सकेंगे।
3. विद्यार्थी राज्य की उत्पत्ति के सिद्धान्तों को समझ सकेंगे।

### Semester V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 506	Sociology (Foundation of Sociological Thought)	Any Three CE	4	30	70	100

### Learning out comes

- ❖ To enable the students to understand the emergence of sociology.
- ❖ To enable the students to understand the classical sociological tradition.
- ❖ To enable the students to understand the contemporary sociological Tradition.
- ❖ To enable the students to understand the Indian sociological tradition.

### Outcomes: After completion the course student would be able to:

- ❖ Understand the emergence of sociology.
- ❖ Understand the classical sociological tradition.
- ❖ Explain the contemporary sociological Tradition.
- ❖ Understand the Indian sociological tradition.

### Semester V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 507	Geography (Geography of India)	Any Three CE	4	30	50+20 (Practical) 70	100

### Objectivess -

1. To make students aware about the geography of their country.
2. To make aware about the soil, climate, vegetation, agriculture, minerals, drainage system of India.
3. To give knowledge regarding population, Transport, Tourism and religion of India.

### Outcomes-

1. Students after having knowledge of overall climate conditions, can adapt themselves at various parts of country.
2. Can contribute to the Economic growth of the country.
3. Steps may be taken for proper utilisation of resources and controlling population, a major problem.



### Semester V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 508</b>	Economics (History of Economics Thought)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To enable the student teachers to understand the importance of Economics Thought.
- ❖ To enable the student teachers to understand the thought of utopian Socialists.
- ❖ To enable the student teachers to understand the Austrian School of Economics Thought.
- ❖ To enable the student teachers to understand the Indian Economics Thought.

Outcomes: After completion the course student would be able to:

1. Understand the geography of their country.
2. Explain the soil, climate, vegetation, agriculture, minerals, drainage system of India.
3. Know regarding population, Transport, Tourism and religion of India.

### Semester V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 509</b>	Home Science (Advance Family resource management)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To explain the importance and factors of saving, accounts and accounts keeping.
- ❖ To motivating factors of home management and Family resource management.
- ❖ To understand the concept, elements and types of design.
- ❖ To make the planning for construction.

**Learning out comes :** After completion of this course students will able to learn :

- ❖ Concept, importance and scope of Economics.
- ❖ Importance and factors of saving, accounts and accounts keeping.
- ❖ Motivating factors of home management and Family resource management.
- ❖ Concept, elements and types of design.
- ❖ Modern family and housing needs.
- ❖ Effects of housing on family life and activities owning versus rented.
- ❖ Planning for construction.

**Semester VI**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 601	General Hindi	CC	4	30	70	100

**उद्देश्य—**

1. हिन्दी व्याकरण— संज्ञा, सर्वनाम, कारक, पर्यायवाची, विलोमशब्द, समुच्चारित भिन्नार्थक शब्द, मुहावरें, लोकोक्तियाँ आदि का सामान्य ज्ञान करवाना।
2. देवनागरी लिपि का परिचय देना।
3. व्यावहारिक पत्रों की जानकारी देना।

**उपलब्धियाँ—**

1. विद्यार्थियों के व्याकरण ज्ञान में वृद्धि होगी।
2. विद्यार्थी कार्यालय पत्र लिखने में समर्थ हो सकेंगे।
3. विद्यार्थी देवनागरी लिपि के महत्त्व, उसकी विशेषता आदि से अपने ज्ञान में वृद्धि करेंगे।

**Semester VI**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 602	Pre- Internship	CC	4	100	Pre- Internship	100

**Pre-internship distribution (4 Weeks)****Objectives:**

- ❖ To acquire the knowledge of internship.
- ❖ To understand skill focused teaching.
- ❖ To develop ability of comprehensive school teaching.
- ❖ To understand and organize various school activities.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire the knowledge of internship.
- ❖ Understand skill focused teaching.
- ❖ Develop ability of comprehensive school teaching.
- ❖ Understand and organize various school activities

**Semester VI**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 601	Hindi Literature ( हिन्दी भाषा एवं काव्यांग विवेचन)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. विद्यार्थी को प्रयोजनमूलक हिन्दी के बारे में जानकारी देना।
2. विद्यार्थी को पत्र लेखन शैली से अवगत कराना तथा कार्यालयी पत्र लेखन में निपुण बनाना।
3. अनुवाद विज्ञान की जानकारी देकर भावी अनुवादक तैयार करना।
4. पारिभाषिक शब्दावली की जानकारी प्रदान कर भावी पीढ़ी को तैयार करना।

**उपलब्धियाँ—**

1. विद्यार्थी कार्यालयी पत्र व्यवहार सीख सकेंगे तथा भावी प्रतियोगिता परीक्षाओं के लिये तैयार हो सकेंगे।
2. हिन्दी के अपने व्यावहारिक ज्ञान में वृद्धि कर सकेंगे।
3. विद्यार्थी अनुवाद एवं पारिभाषिक शब्दावली का ज्ञान लेकर एक अच्छा अनुवादक एवं भाषा वैज्ञानिक बन सकेगा।

**Semester VI**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 602	English Literature (Prose and Fiction)	Any Three CE	4	30	70	100

**Objectives:**

1. To enable the students to compose short stories.
2. To acquaint them with spirituality and psychology.
3. To inculcate human values in the students.

**Outcome:**

- 1- They will compose stories without the help of a teacher.
- 2- They will understand the relation between literature and Media.

**Semester VI**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 603	Sanskrit Literature संस्कृत व्याकरण एवं साहित्य (लघुसिद्धान्त कौमुदी)	Any Three CE	4	30	70	100

**उद्देश्य—**

1. गणों का परिचय देना।
2. शुकनासोपदेश और कुमारसंभवम के ग्रंथों के चयनित अंशों का अध्यापन करना।
3. जिनन्त आदि दस प्रक्रियाओं का ज्ञान कराना।

**उपलब्धियाँ—**

1. जिनन्त, सनन्त आदि प्रक्रियाओं का ज्ञान होगा।
2. समासबद्ध एवं लघु वाक्यों के निर्माण का अभ्यास होगा।
3. गणों के विभिन्न धातु रूपों का ज्ञान होगा।

**Semester VI**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 604</b>	History (आधुनिक विश्व के इतिहास की रूपरेखा)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**उद्देश्य—**

1. विद्यार्थियों को आधुनिक विश्व के इतिहास से परिचित करवाना।
2. अमेरिकी एवं फ्रांसीसी क्रांति के महत्त्व को बताना।
3. इटली एवं जर्मनी के एकीकरण की प्रेरणादायी प्रक्रिया को बताना।
4. राष्ट्र संघ एवं संयुक्त राष्ट्र संघ के महत्त्व को बताना।

**उपलब्धियाँ—**

1. विद्यार्थी विश्व इतिहास का सामान्य ज्ञान प्राप्त कर सकेंगे।
2. अमेरिकी, फ्रांसिसी, रूसी आदि क्रांति से प्रेरणा प्राप्त कर समाज में व्याप्त अव्यवस्थाओं का विरोध कर पायेंगे।
3. इटली एवं जर्मनी के एकीकरण से राष्ट्र निर्माण की प्रेरणा प्राप्त कर सकेंगे।
4. संयुक्त राष्ट्र संघ के वर्तमान महत्त्व को समझ पायेंगे।

**Semester VI**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 605</b>	Political Science (अन्तर्राष्ट्रीय सम्बन्ध)	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**उद्देश्य—**

1. विद्यार्थियों को आत्मपरकता की शक्ति का विकास करना।
2. विश्व में विभिन्न प्रकार की घटित होने वाली घटनाओं की जानकारी देना।
3. बदलती नई विश्व व्यवस्था की जानकारी देना।
4. विभिन्न देशों की विदेश नीतियों की जानकारी देना।

**उपलब्धियाँ—**

1. विभिन्न राष्ट्रों के आपसी व्यवहार एवं आचरण के मूल कारणों को जान सकेंगे।
2. भूमण्डलीकरण, उदारीकरण, निजीकरण के युग में अन्तर्राष्ट्रीय राजनीति का तुलनात्मक अध्ययन कर सकेंगे।
3. अन्तर्राष्ट्रीय सम्बन्ध एवं अन्तर्राष्ट्रीय राजनीति पहले की अपेक्षा क्यों अधिक प्रासंगिक है? जान सकेंगे।
4. सोवियत खेमों के विघटन के पश्चात बदलते विश्व परिदृश्य को समझ सकेंगे।

### Semester VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 606</b>	Sociology (Social Anthropology)	Any Three CE	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:-

- ❖ To enable the students to understand the concept, nature and scope of social Anthropology.
- ❖ To enable the students to understand the social structure
- ❖ To enable the students to understand the primitive Economics and political system.
- ❖ To enable the students to understand the problem of Tribes.

#### Course Outcomes:- After completion the course students would be able to:

- ❖ Understand the concept, nature and scope of social Anthropology.
- ❖ Understand the social structure
- ❖ Understand the primitive Economics and political system.
- ❖ Understand the problem of Tribes.

### Semester VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 607</b>	Geography (Geography Thought)	Any Three CE	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives-

1. To give knowledge about the concept of geographical thought.
2. To give knowledge about thoughts of various geographical thinkers as of British, German, American, Romans etc.
3. Trends of Modern Geography.

#### Outcomes:- After completion the course student would be able to:

- ❖ Understand the concept, nature and scope of social Anthropology.
- ❖ Understand the social structure
- ❖ Understand the primitive Economics and political system.
- ❖ Understand the problem of Tribes.

### Semester VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 608</b>	Economics <b>(Statistics in Economics)</b>	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To enable the students teacher to acquire the basic understanding use statistics in the field of Economics.
- ❖ To enable the students teacher to understand the measures of central tendency.
- ❖ To enable the students teacher to understand the measures dispersion.
- ❖ To enable the students teacher to understand elementar Mathematics.

#### Outcomes: After completion the course student would be able to:

- ❖ Understanding use statistics in the field of Economics.
- ❖ Understand the measures of central tendency.
- ❖ Understand the measures dispersion.
- ❖ Understand elementar Mathematics.

### Semester VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 609</b>	Home Science <b>(Extension and Communication)</b>	<b>Any Three CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectivess:

- ❖ To explain the concept, determinants and factors of lealth
- ❖ To describe the types of occupational health and related diseases related to workers
- ❖ To different types of pollution and their related remedies
- ❖ To education about the objectivess and Scope of population education

#### Outcomes: After completion the course student would be able to:

- ❖ Explain the concept, determinants and factors of lealth
- ❖ Describe the types of occupational health and related diseases related to workers
- ❖ Different types of pollution and their related remedies
- ❖ Educate about the objectivess and Scope of population education

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>EDU 701</b>	Creating and Inclusive Education	<b>CC</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To develop the understanding of the concept and philosophy of inclusive education in the context of education for all.
- ❖ To identify and address diverse needs of all learners

- ❖ To familiarize with the trends and issues in inclusive education
- ❖ To develop an attitude to foster inclusive education
- ❖ To develop and understanding of the role of facilitators in inclusive education
- ❖ To prepare teachers for inclusive schools

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand of the concept and philosophy of inclusive education in the context of education for all.
- ❖ Identify and address diverse needs of all learners
- ❖ Describe the trends and issues in inclusive education
- ❖ Apply the attitude to foster inclusive education
- ❖ Develop and understanding of the role of facilitators in inclusive education
- ❖ Prepare teachers for inclusive schools

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 702	Language Across the Curriculum	CC	4	30	70	100

**Objectives:**

- ❖ To understand the various mode of language like reading, writing, speaking and listening.
- ❖ To develop the skill of oral and written language.
- ❖ To acquaint with the idea of composition and art of writing i.e. letter, paragraph, application etc.
- ❖ To develop the Vocabulary Building and Language Problems & its Remedies
- ❖ To develop the vocabulary and language proficiency and related remedies.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the nature and use of language.
- ❖ Develop the idea of Multilingualism in class room teaching.
- ❖ Create the sense of language and its flavor.
- ❖ Inculcate language skills among trainees.
- ❖ Evaluate skills creative writing and expression.
- ❖ Acquire the idea of composition and art of writing i.e. letter, Paragraph, application etc.
- ❖ Develop ornamental use of vocabulary in different curriculum.

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 701	Hindi	Pedagogy of a School Subject Any two CE	4	30	70	100

**Objectives:**

- ❖ भाषा संरचना में हिन्दी भाषा तत्त्वों का ज्ञान प्रदान करना।
- ❖ श्रवण, भाषण, वाचन एवं लेखन सम्बन्धी भाषायी कौशलों का ज्ञान देना।
- ❖ माध्यमिक स्तर के निर्धारित पाठ्यक्रम एवं पाठ्यपुस्तक का विश्लेषण समीक्षा एवं कुशलता का विकास कराना।
- ❖ इकाई, दैनिक व सूक्ष्म पाठ योजनाओं के महत्त्व से अवगत कराना व निर्माण का ज्ञान कराना।
- ❖ हिन्दी भाषा के वैज्ञानिक स्वरूपों और कौशलों का ज्ञान कराना।

- ❖ हिन्दी भाषा की विभिन्न विधाओं एवं उनके व्यावहारिक शिक्षण पाठ योजनाओं का ज्ञान कराना।
- ❖ प्रश्न पत्र के निर्माण का ज्ञान देना।
- ❖ निदानात्मक एवं उपचारात्मक परीक्षण स्वरूप, महत्त्व एवं उपयोग का ज्ञान देना।
- ❖ मातृभाषा एवं राष्ट्रभाषा के रूप में हिन्दी की स्थिति से अवगत कराना।

### Course Outcomes:

- ❖ भाषा संरचना में हिन्दी भाषा तत्त्वों का ज्ञान प्राप्त कर सकेंगे।
- ❖ श्रवण, भाषण, वाचन एवं लेखन सम्बन्धी भाषायी कौशलों का प्राप्त कर सकेंगे।
- ❖ माध्यमिक स्तर के निर्धारित पाठ्यक्रम एवं पाठ्यपुस्तक का विश्लेषण समीक्षा एवं कुशलता का विकास कर सकेंगे।
- ❖ इकाई, दैनिक व सूक्ष्म पाठ योजनाओं के महत्त्व से अवगत कराना व निर्माण का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी भाषा के वैज्ञानिक स्वरूपों और कौशलों का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी भाषा की विभिन्न विधाओं एवं उनके व्यावहारिक शिक्षण पाठ योजनाओं का ज्ञान प्राप्त कर सकेंगे।
- ❖ प्रश्न पत्र के निर्माण का ज्ञान प्राप्त कर सकेंगे।
- ❖ निदानात्मक एवं उपचारात्मक परीक्षण स्वरूप, महत्त्व एवं उपयोग का ज्ञान प्राप्त कर सकेंगे।
- ❖ मातृभाषा एवं राष्ट्रभाषा के रूप में हिन्दी की स्थिति से अवगत हो सकेंगे।

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 702	English	Pedagogy of a School Subject Any two CE	4	30	70	100

### Objectives:

- ❖ To know about various basics of grammar.
- ❖ To explain the place of English language in India.
- ❖ To describe English as a Second language in the multi -lingual country like India.
- ❖ To explain different methods of teaching English.
- ❖ To develop the lesson and its planning.
- ❖ To apply different teaching skills in the class room.

### Course Outcomes: After completion of this course students would able to:

- ❖ Know about various basic application of grammar
- ❖ Explain the place of English language in India.
- ❖ Describe English as a Second language in the multi -lingual country like India.
- ❖ Explain different methods of teaching English.
- ❖ Apply different teaching skills in the class room.
- ❖ Lesson plan, micro lesson plan, TLM (Teaching Learning Materials) for teaching English as a second Language.



**Semester VII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 703	Sanskrit	Pedagogy of a School Subject <b>Any two CE</b>	4	30	70	100

**Objectives:**

- ❖ माध्यमिक स्तर के शिक्षकों में संस्कृत भाषा संबंधी व्याकरण की जानकारी एवं उनके प्रयोग की दक्षता का विकास करना।
- ❖ तृतीय भाषा शिक्षण के आधारभूत सिद्धान्तों का विकास करना।
- ❖ संस्कृत शिक्षण के उद्देश्यों का निर्धारण एवं व्यावहारिक परिवर्तन हेतु प्रयास करना।
- ❖ संस्कृत भाषा के विभिन्न कौशलों का पृथक् एवं समन्वित शिक्षण का विकास करना।
- ❖ विभिन्न विधाओं के सफल अध्यापन हेतु विभिन्न विधियों का प्रयोग करना।
- ❖ संस्कृत भाषा शिक्षण में दृश्य-श्रव्य सामग्री का निर्माण एवं शिक्षण में प्रयोग करना।
- ❖ संस्कृत शिक्षण के मूल्यांकन हेतु प्रश्नपत्र निर्माण करना एवं कौशलाधारित परीक्षण करना।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का कौशलानुसार निदान करना।

**Course Outcomes:**

- ❖ माध्यमिक स्तर के शिक्षकों में संस्कृत भाषा संबंधी व्याकरण की जानकारी एवं उनके प्रयोग की दक्षता का विकास कर सकेंगे।
- ❖ तृतीय भाषा शिक्षण के आधारभूत सिद्धान्तों का विकास कर सकेंगे।
- ❖ संस्कृत शिक्षण के उद्देश्यों का निर्धारण एवं व्यावहारिक परिवर्तन हेतु प्रयास कर सकेंगे।
- ❖ संस्कृत भाषा के विभिन्न कौशलों का पृथक् एवं समन्वित शिक्षण का विकास कर सकेंगे।
- ❖ विभिन्न विधाओं के सफल अध्यापन हेतु विभिन्न विधियों का प्रयोग कर सकेंगे।
- ❖ संस्कृत भाषा शिक्षण में दृश्य-श्रव्य सामग्री का निर्माण एवं शिक्षण में प्रयोग कर सकेंगे।
- ❖ संस्कृत शिक्षण के मूल्यांकन हेतु प्रश्नपत्र निर्माण करना एवं कौशलाधारित परीक्षण कर सकेंगे।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का कौशलानुसार निदान कर सकेंगे।

**Semester VII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 704	History	Pedagogy of a School Subject <b>Any two CE</b>	4	30	70	100

**Objectives:**

- ❖ To understand the aim and objectives of teaching history at different levels of the secondary stage.
- ❖ To apply different approach to organize history

- ❖ To understand the types of evaluation of teaching history
- ❖ To develop classroom skills to apply different methods and approaches of teaching history at the secondary stage.
- ❖ To develop the skill to plan for instruction and the instructional support materials.
- ❖ To develop the skill related to diagnostic testing and remedial teaching.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the nature, scope and importance of learning history at secondary.
- ❖ Explain aim and objectives of teaching history at different levels of the secondary stage.
- ❖ Develop knowledge about the basic principles governing the construction of history curriculum and develop the ability history curriculum
- ❖ Organize Co-curricular activities and community resources for promoting history learning.
- ❖ Develop classroom skills needs for applying different methods and approaches of teaching history at the secondary stage.
- ❖ Understand the skill to plan for instruction and the instructional support , materials.
- ❖ Develop the skill needed for diagnostic testing and remedial teaching

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 705</b>	Civics	Pedagogy of a School Subject <b>Any two CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To explain the role of civics to promote International Understanding.
- ❖ To understand Planning-Annual Plan, Unit Plan, & Daily Lesson Plan.
- ❖ To prepare different methods of teaching civics.
- ❖ To apply various Fundamental Principal of Formulation Curriculum in Civics
- ❖ To develop competencies related to teaching of civics.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the role of civics.
- ❖ Understand the Planning of teaching & Evaluation.
- ❖ Prepare Fundamental Principal of Formulation Curriculum.
- ❖ Develop competencies in teaching of civics.

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 706</b>	Social Science	Pedagogy of a School Subject <b>Any two CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To enable the students to understand the meaning of social science and correlate with modern social science .
- ❖ To understand the different approaches and organizing Social Science
- ❖ To prepare students for panel discussion , seminar and workshop
- ❖ To enable the student – teacher to critically examine the social science syllabus and text books.
- ❖ To develop the classroom skills and use of techniques for teaching of social science.
- ❖ To develop the ability to organize co-curricular activities and utilize community resources for promoting social science learning.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the need for learning social science .
- ❖ Understand the place of social science in the secondary school curriculum.
- ❖ Develop the skills in student – teachers to select and apply appropriate methods and evaluate social science.
- ❖ Critically examine the social science syllabus and text books.
- ❖ Develop the classroom skills needed for teaching of social science.
- ❖ Develop the ability to organize co-curriculum activity and utilize community resources for promoting social science learning.
- ❖ Acquire the ability to develop instructional support materials.
- ❖ Review the text –book of social science (secondary level).

**Semester VII**

<b>Course Code</b>	<b>Course Title</b>	<b>Course Category</b>	<b>Credit</b>	<b>C.I.A.</b>	<b>Theory</b>	<b>Total</b>
<b>BAE 707</b>	Economics	Pedagogy of a School Subject <b>Any two CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To help the students to acquire the basic understanding in the field of Economics.
- ❖ To enable the student teachers to understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ To develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ To develop the ability to organize group activities and projects in the subject.
- ❖ To develop the ability to use of various methods of teaching Economics.
- ❖ To enable the student to acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ To develop in the students appropriate attitudes towards the country's Economy.
- ❖ To develop in the student an adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ To develop competence in framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of. 10.To develop in the students an ability to conduct various surveys in Economics and organize field trips.

- ❖ To enable the student-teachers to prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ To enable the student teachers to review the text book of Economics.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Explain the basic of Economics.
- ❖ Understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ Develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ Organize group activities and projects in the subject.
- ❖ Use of various methods of teaching Economics.
- ❖ Acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ Appropriate attitudes towards the country's Economy.
- ❖ Adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ Framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of.
- ❖ Prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ Review the text book of Economics.

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 708	Geography	Pedagogy of a School Subject <b>Any two CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To understand the modern concept of Geography.
- ❖ To prepare yearly plan, unit plan, lesson plan for different classes.
- ❖ To prepare maps and charts to illustrate the content of different classes and use them effectively.
- ❖ To critically evaluate the existing school syllabus and review the text book of Geography.
- ❖ To apply appropriate method and techniques of teaching to particular topics at different levels.
- ❖ To arrange field trips and local surveys.

**Course Contents:**

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the modern concept of Geography and its correlation with other school subjects.
- ❖ Explain co-curriculum activities in geography.
- ❖ Prepare various teaching plans.
- ❖ Explain different teaching aids.
- ❖

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 709	Home Science	Pedagogy of a School Subject Any two CE	4	30	70	100

#### Objectives:

- ❖ To understand the Concept, Nature and Scope of Home science.
- ❖ To provide knowledge related to pedagogical concept like aims, objectives, approaches, methods, blue print and assessment.
- ❖ To stimulate curiosity and creativity for application of different methods according to learning situations.
- ❖ To develop attitude towards skill development, application of new trends and use of information technology to enhance productivity of teaching.

#### Course Outcomes: After completion of this course students would able to:

- Organize co- curricular activities like Group Discussion, Exhibition, Excursion etc. at school level.
- ❖ Stimulate curiosity and creativity for application of different methods according to learning situations.
  - ❖ Develop attitude towards skill development, application of new trends and use of information technology to enhance productivity of teaching.

Analyze school syllabus of the subject in relation to its applicability in local situations

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 710	Optional Course Environmental Education	Any one CE	4	30	70	100

#### Objectives:

- ❖ To understand the problems of concerning environment through multi disciplinary approach.
- ❖ To develop the skill of planning and organizing ecological activities in the schools.
- ❖ To create consciousness about environment among the adult learners.
- ❖ To give information on different techniques and materials for the affective dissemination of environmental information.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Students are able to understand the problems concerning environment through multi disciplinary approach.
- ❖ Students are able to develop the skill of planning and organizing Ecological activities in the schools so the children can equipped to play their part in protection and enrichment of environment.
- ❖ Students are able to create Environment Consciousness among the adult learners.
- ❖ Students are able to use different Techniques and materials for the affective Dissemination of Environmental information.
- ❖ Students are able to conduct local surveys, arrange field trips Environmental games and hobbies

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 711	Health and Physical	Any one CE	4	30	70	100

#### Objectives:

- ❖ To develop the organic system of the body.
- ❖ Development of understanding and appreciation of the techniques and strategies of sports
- ❖ To develop correct health habits.
- ❖ Attainment of knowledge of proper health procedure as related with physical exercise.
- ❖ The physical education program will allow the students to participate in developmentally appropriate activities.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Develop the organic system of the body.
- ❖ Understand and appreciation of the techniques and strategies of sports
- ❖ Aware about correct health habits.
- ❖ Attain knowledge of proper health procedure as related with physical exercise.

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 712	Guidance and Counseling	Any one CE	4	30	70	100

#### Objectives:

- ❖ To educateion about the basics concept, nature and scope of Educational and Vocational guidance.
- ❖ To understand the aims objective of educational and vocational guidance.
- ❖ To make enable about the importance of educational and vocational guidance.
- ❖ To give knowledge of role and responsibilities of guidance workers in school.
- ❖ To understand the nature and types of guidance service & with reference to school education.
- ❖ To understand the concept, nature and types of counseling.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the basic concept, Nature and scope of Educational and Vocational guidance.
- ❖ Describe aims objective of educational and vocational guidance.
- ❖ Understand importance of educational and vocational guidance.
- ❖ Identify nature and types of guidance service & with reference to school education.
- ❖ Understand the concept, nature and types of counseling.

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 713	Distance Education	Any one CE	4	30	70	100

#### Objectives:

- ❖ To provide an effective alternative path to wider opportunities in education and especially in higher education.
- ❖ To provide an efficient and less expensive education.

- ❖ To provide education facilities to all qualified and willing persons.
- ❖ To provide opportunities of academic pursuits to educate citizens willing to improve their standard of knowledge.
- ❖ To provide education facilities to those individuals who look upon education as a life-long activity.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Provide an effective alternative path to wider opportunities in education and especially in higher education.
- ❖ Understand an efficient and less expensive education.
- ❖ Explain education facilities to all qualified and willing persons.
- ❖ Identify the opportunities of academic pursuits to educate citizens willing to improve their standard of knowledge.

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 714	5. Additional Course (Any one) 5.1 Hindi	Any one CE	4	30	70	100

#### Objectives:

- ❖ काव्य के विभिन्न घटक तत्त्वों का ज्ञान देना।
- ❖ काव्य के घटक तत्त्व रस, छन्द, अलंकारों का ज्ञान प्रदान करना।
- ❖ काव्य के गुण : माधुर्य, ओज, प्रसाद का ज्ञान देना।
- ❖ हिन्दी की शिक्षण विधियों का ज्ञान देना।
- ❖ हिन्दी के विभिन्न व्याकरणिय घटकों का ज्ञान देना।
- ❖ व्याकरण के घटक अनुवाद, संज्ञा, सर्वनाम, कारक, सन्धि, समास एवं विशेषण का ज्ञान देना।
- ❖ सूक्ष्म शिक्षण के विभिन्न कौशलों की जानकारी देना।
- ❖ हिन्दी के विभिन्न कवियों, लेखकों के उपन्यासों, कहानियों, रचनाओं का ज्ञान प्रदान करना।

**Course Outcomes:** इस पाठ्यक्रम के पूरा होने के बाद छात्र शिक्षक सक्षम होगा।

- ❖ काव्य के विभिन्न घटक तत्त्वों का ज्ञान प्राप्त कर सकेंगे।
- ❖ काव्य के घटक तत्त्व रस, छन्द, अलंकारों का ज्ञान प्राप्त कर सकेंगे।
- ❖ काव्य के गुण : माधुर्य, ओज, प्रसाद का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी की शिक्षण विधियों का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी के विभिन्न व्याकरणिय घटकों का ज्ञान प्राप्त कर सकेंगे।
- ❖ व्याकरण के घटक अनुवाद, संज्ञा, सर्वनाम, कारक, सन्धि, समास एवं विशेषण का ज्ञान प्राप्त कर सकेंगे।
- ❖ सूक्ष्म शिक्षण के विभिन्न कौशलों की जानकारी प्राप्त कर सकेंगे।
- ❖ हिन्दी के विभिन्न कवियों, लेखकों के उपन्यासों, कहानियों, रचनाओं का ज्ञान प्राप्त कर सकेंगे।

**Semester VII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 714	5.2 English	Any one- CE	4	30	70	100

**Objectives:**

- ❖ To acquire the knowledge of Phonetics and its uses through different organs of speech
- ❖ To develop Understanding of English text
- ❖ To apply the Content knowledge through preparing lesson plan in English Language
- ❖ To explain the idea of assessment of English teaching
- ❖ To describe the Knowledge of diagnostic test and Remedial instruction in English teaching

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire the knowledge of Phonetics and its uses through different organs of speech
- ❖ Develop Understanding of English text
- ❖ Apply the Content knowledge through preparing lesson plan in English Language
- ❖ Explain the idea of assessment of English teaching
- ❖ Describe the Knowledge of diagnostic test and Remedial instruction in English teaching

**Semester VII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 714	5.3 Sanskrit	Any one CE	4	30	70	100

**Objectives:**

- ❖ विद्यालयी बालकों में व्याकरण की सामान्य जानकारी एवं उनके प्रयोग की दक्षता का विकास करना।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का निदान करना।
- ❖ संस्कृत महाकाव्यों, गद्यकाव्यों, नाट्यकाव्यों का ज्ञान प्राप्त करना।
- ❖ हिन्दी वाक्यों का संस्कृत भाषा में अनुवाद कर सकने की योग्यता का विकास करना।
- ❖ संस्कृत विद्यालयों के पाठ्यक्रम का समीक्षात्मक मूल्यांकन करना।

**Course Outcomes:**

- ❖ विद्यालयी बालकों में व्याकरण की सामान्य जानकारी एवं उनके प्रयोग की दक्षता का विकास कर सकेंगे।
- ❖ संस्कृत भाषायी दक्षता में होने वाली अशुद्धियों का निदान कर सकेंगे।
- ❖ संस्कृत महाकाव्यों, गद्यकाव्यों, नाट्यकाव्यों का ज्ञान प्राप्त कर सकेंगे।
- ❖ हिन्दी वाक्यों का संस्कृत भाषा में अनुवाद कर सकने की योग्यता का विकास कर सकेंगे।
- ❖ संस्कृत विद्यालयों के पाठ्यक्रम का समीक्षात्मक मूल्यांकन कर सकेंगे।

**Semester VII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BAE 714	5.4 History	Any one CE	4	30	70	100



**Objectives:**

- ❖ To understand ancient history on the basis of political, social and economic conditions.
- ❖ To develop the idea of Vedic Jainism, Buddhism & Shaivism religious.
- ❖ To acquire Knowledge of medieval periods in respect of temple, forts and bhakti movement.
- ❖ To evaluate the historical perspective modern India i.e. 1857 movement, gandhian politics.

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Understand ancient history on the basis of political, social and economic conditions.
- ❖ Develop the idea of Vedic Jainism, Buddhism & Shaivism religious.
- ❖ Acquire Knowledge of medieval periods in respect of temple, forts and bhakti movement.
- ❖ Evaluate the historical perspective modern India i.e. 1857 movement, gandhian politics.

**Semester VII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 714</b>	5.5 Civics	<b>Any one - CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To identify political views among students.
- ❖ To acquaint the content knowledge of political science.
- ❖ To comprehend the dynamic political status and issues of our country.
- ❖ To develop reasoning ability among students for various competitive exam.
- ❖ To enable the pupil teacher to review the text-book of civics content (Secondary level).

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Identify political views among students.
- ❖ Acquaint the content knowledge of political science.
- ❖ Comprehend the dynamic political status and issues of our country.
- ❖ Develop reasoning ability among students for various competitive exam.
- ❖ Enable the pupil teacher to review the text-book of civics content (Secondary level).

**Semester VII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 714</b>	5.6 Social Science	<b>Any one- CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To understand Social Science on the basis of political, social and economic conditions.
- ❖ To develop the idea of Society, Social group, Community Marriage.
- ❖ To acquire Knowledge of Indian Social Problems (Culture, Castiesm, Communalism, Poverty, Corruption)
- ❖ To evaluate the Indian Social Issue.

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Understand Social Science on the basis of political, social and economic conditions.
- ❖ Develop the idea of Society, Social group, Community Marriage.
- ❖ Acquire Knowledge of Indian Social Problems (Culture, Castiesm, Communalism, Poverty, Corruption)
- ❖ Evaluate the Indian Social Issue.

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 714</b>	5.7 Economics	<b>Any one CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To help the students to acquire the basic understanding in the field of Economics.
- ❖ To enable the student teachers to understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ To develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ To develop the ability to organize group activities and projects in the subject.
- ❖ To develop the ability to use of various methods of teaching Economics.
- ❖ To enable the student to acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ To develop in the students appropriate attitudes towards the country's Economy.
- ❖ To develop in the student an adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ To develop competence in framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of. 10. To develop in the students an ability to conduct various surveys in Economics and organize field trips.
- ❖ To enable the student-teachers to prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ To enable the student teachers to review the text book of Economics.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Help the students to acquire the basic understanding in the field of Economics.
- ❖ Enable the student teachers to understand the aims and objectives of teaching Economics at the secondary school stage.
- ❖ Develop the ability, to evaluate the present curriculum in Economics at the secondary level.
- ❖ Enable ability to organize group activities and projects in the subject.
- ❖ Understand to use of various methods of teaching Economics.
- ❖ Enable the student to acquire necessary skills for the use and preparation of teaching aids and instructional material in Economics.
- ❖ Develop in the students appropriate attitudes towards the country's Economy.
- ❖ Develop in the student an adequate sense of awareness about Economic issues of the country and an out-look of problem solving through analysis and application of the theory of Economics.
- ❖ Develop competence in framing objective based achievement and diagnostic test, their administration and their scoring and drawing conclusions there of. 10. To develop in the students an ability to conduct various surveys in Economics and organize field trips.
- ❖ Prepare unit plan, lesson plan and related teaching learning strategies.
- ❖ Review the text book of Economics.

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 714</b>	5.8 Geography	<b>Any one CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To understand the modern concept of Geography.
- ❖ To understand the aims and objectives of teaching Geography.
- ❖ To prepare yearly plan, unit plan, lesson plan for different classes.
- ❖ To prepare maps and charts to illustrate the content of different classes and use them effectively.
- ❖ To critically evaluate the existing school syllabus and review the text book of Geography.
- ❖ To apply appropriate method and techniques of teaching to particular topics at different levels.
- ❖ To arrange field trips and local surveys.
- ❖ To prepare achievement test and diagnostic test, administration of the test, analysis of results, make suggestion for remedial teaching.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the modern concept of Geography.
- ❖ Describe aims and objectives of teaching Geography.
- ❖ Prepare yearly plan, unit plan, lesson plan for different classes.
- ❖ Prepare maps and charts to illustrate the content of different classes and use them effectively.
- ❖ Critically evaluate the existing school syllabus and review the text book of Geography.
- ❖ Apply appropriate method and techniques of teaching to particular topics at different levels.
- ❖ Arrange field trips and local surveys.
- ❖ Prepare achievement test and diagnostic test, administration of the test, analysis of results, make suggestion for remedial teaching.

### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BAE 714</b>	5.9 Home Science	<b>Any one CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

#### Objectives:

- ❖ To understand the Concept, Nature and scope of Home Science.
- ❖ To explore different ways of creating learning situations for different concepts of Home Science.
- ❖ To facilitate the development of scientific attitude in learner.
- ❖ To provide the knowledge related to Home management, Budgeting, Textile and Fashion as well as common health problems etc.
- ❖ To ensure the application of knowledge to resolve nutritional, health and resources related problems through Home Science
- ❖ To stimulate curiosity, skills and creativity in Home Science.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the Concept, Nature and scope of Home Science.

- ❖ Explore different ways of creating learning situations for different concepts of Home Science.
- ❖ Facilitate the development of scientific attitude in learner.
- ❖ Provide the knowledge related to Home management, Budgeting, Textile and Fashion as well as common health problems etc.
- ❖ Ensure the application of knowledge to resolve nutritional, health and resources related problems through Home Science
- ❖ Stimulate curiosity, skills and creativity in Home Science

#### Semester VIII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU-801	1. Knowledge and Curriculum (Part-A)	Any one- CC	4	30	70	100

#### Objectives:

- ❖ To know the concept objective and principles of curriculum.
- ❖ To develop the idea and bases of curriculum.
- ❖ To understand various types of curriculum.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the concept, objective and principles of curriculum.
- ❖ Develop the idea and bases of curriculum.
- ❖ Evaluate the relevancy of curriculum.
- ❖ Describe various approaches to curriculum construction.

#### Semester VIII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU-802	Knowledge and Curriculum (Part-B)	Any one- CC	4	30	70	100

#### Objectives:

- ❖ To develop ideas of philosophical bases of curriculum
- ❖ To various Sociological bases of curriculum
- ❖ To develop various psychological bases of curriculum
- ❖ To develop Educational New Trends of curriculum

#### Course Outcomes: After completion of this course students would able to:

- ❖ Describe various philosophical bases of curriculum
- ❖ Understand various Sociological bases of curriculum
- ❖ Acquire various psychological bases of curriculum
- ❖ Develop Educational New Trends of curriculum

#### Semester VIII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU-803	Post Internship Internship	CC	16	160	120+120=240 Practical (Two Subjects final lesson)	400

#### Post Internship distribution (16 Weeks)

#### Objectives:

- ❖ To develop unit plan and lesson plan
- ❖ To write objective in behavioural terms
- ❖ To observe the lessons of the school teachers.
- ❖ To prepare schedule of various activities for students.
- ❖ To organize different co-curricular activities in the school.
- ❖ To prepare blue print and test paper for different classes.

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Describe unit plan and lesson plan
- ❖ Observe the lessons of the school teachers.
- ❖ Prepare schedule of various activities for students.
- ❖ Organize different co-curricular activities in the school.
- ❖ Prepare blue print and test paper for different classes.

## **Programme Outcome (PO), Programme Specific Outcomes (PSO) & Course Outcomes of B.Sc**

B.Sc. is Bachelor of Science and it is an undergraduate level degree course in the field of science. It has many different specializations like Zoology, Chemistry, Botany, physics Microbiology, Mathematics, and many more. B.Sc. in PCM Physics, Chemistry Mathematics, and CBZ that are Chemistry, Botany, and Zoology, are a combined course which teaches about all the three subjects in detail. Candidates learn about the science of matter in more specialized manner and learn about its composition, structure, behavior, properties, and the changes it undergoes during any chemical reaction. They also learn about plant biology which includes study about algae, fungi, their growth, reproduction, development, chemical properties, structure, metabolism, etc. as a part of Botany.

The Zoology branch of the course deals with the topics like animal kingdom, their structure, embryology, classification, evolution, etc for both living and extinct animals. Physics: Career Prospects. On successful completion of this course, the candidates are open to working in wide range of employment areas like agriculture research areas, astronomy, aviation industry, colleges, construction firms, cryptography, demolition squads, education firms, hospitals, labs, etc.

Mathematical arguments in a logical manner. and statistics, chosen by the student from the given courses. Understand, formulate and use quantitative models arising in social science, Business and other contexts.

### **Programme Specific Outcomes (PSO) of B.Sc.**

1. Perceive and identify the analysis and planning of problem solving strategies with the aid of good computation skills.
2. Teaching students to work as a team as it plays an essential role in multidisciplinary dimension.
3. Students will develop the basic capability required to evaluate and illustrate basic scientific data.
4. Increment in practical knowledge and skills related to the theories of biotechnology subjects.
5. Consciences inspired with legal ethics of professionalism.

**Acharya Kalu Kanya Mahavidhyalaya,  
Jain Vishva Bharati Institute, Ladnun  
Bachelor of Science (B.Sc.)**

**Semester-I**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 101	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

**Chemistry-Paper-I : Inorganic chemistry**

**Objectives:**

- ❖ To understand about shape of s,p,d,f orbitals and atomic structure.
- ❖ To develop critical understanding about comparative study of different elements on the basis of periodicity .
- ❖ To promote awareness about principles related to atomic structure and chemical bonding.
- ❖ To know about molecular orbital theory of homo and heteronuclear compounds.

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the principles related to atomic structure, periodicity & chemical bonding.
- ❖ Plot and interpret probability distribution curves, electronic configuration, shapes of molecules and bonding structures.
- ❖ Identifies the relationship among periodicity of various elements and properties of chemical bonding.
- ❖ Classify the elements on the basis of atomic structure, periodicity and their basic properties.

**Chemistry-Paper-II : Organic chemistry**

**Objectives:**

- ❖ To understand about reaction mechanism of organic compounds.
- ❖ To aware about different types of chemical reactions.
- ❖ To provide information about nomenclature of alkane and cycloalkane .
- ❖ To know about synthesis of alkenes and cycloalkenes .
- ❖ To acquaint about nomenclature and classification of Dienes and alkynes.

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain about reaction mechanism of organic compound.
- ❖ Know about synthesis of alkane and cycloalkanes .
- ❖ Classify various derivatives on the basis of isomerism, rules of reactivity and theories.
- ❖ Apply the mechanism of chemical reaction for explaining chemical bonding, nomenclature of various compounds.

**Chemistry-Paper-III :Physical chemistry**

**Objectives:**

- ❖ To develop curiosity about mathematical concept and use of computer .
- ❖ To provide information about various laws and their implications .
- ❖ To aware about different states, Vander Waals equation and their derivations.
- ❖ To understand about liquid stage and classification of liquid crystals.

**Course Outcomes:** After completion the course student would able to:

- ❖ Plot and interpret various graphs, probability curves and structures of gaseous and liquid states.
- ❖ Explain logarithmic relations, root mean square and laws of corresponding liquid and gaseous states.
- ❖ Measure and calculate the differentiations of functions, collision number and probability to define various behavior of different states.



Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 102	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I:MECHANICS – I

#### Objectives:

- ❖ To understand the physical laws and frames of reference.
- ❖ To aware the concept of special theory of relativity.
- ❖ To develop knowledge about conservation law.
- ❖ To give information about rigid body dynamics.

**Course Outcomes:** On completion of the course students would able to:

- ❖ Applies relative motion Property.
- ❖ Discuss on the Parameters defining the motion of mechanical systems.
- ❖ Classify the interaction of forces between solids in mechanical systems.
- ❖ Describe the rigid body dynamics.
- ❖ Calculate the moment of inertia about symmetric axis & CM.

### Physics-Paper-II :MECHANICS – II

#### Objectives:

- ❖ To understand the centre of mass frame.
- ❖ To aware the concept of motion under central forces.
- ❖ To develop knowledge about elasticity-I .
- ❖ To give information about elasticity-II and its examples.

**Course Outcomes:** After complition the course student would able to:

- ❖ Describe center of mass.
- ❖ Applies the vector theorems of mechanics.
- ❖ Classify the analytical mechanics.
- ❖ Use of theory of bending of beam & cantilever to determine the deformation. Differentiating various elastic coefficients.

### Physics-Paper-III:ELECTROMAGNETISM – I

#### Objectives:

- ❖ To understand the vector field and vector theory.
- ❖ To aware the concept of curl and the field of stationary charge.
- ❖ To develop knowledge about the field of moving charge.
- ❖ To give information about the magnetic field.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the basic mathematical concepts related to electromagnetic vector fields.
- ❖ Discuss about the principles of electrostatics.
- ❖ Applies the principles of magneto statics.
- ❖ Differentiation between electric field and electric potential.
- ❖ Calculate boundary conditions.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 103	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics -Paper-I : Discrete Mathematics-I

#### Objectives:

- ❖ Discuss about the set, Relation and function-Binary Relation.
- ❖ To aware about the Boolean Algebra- Lattices and Algebraic Structure.
- ❖ Understand the Logic and Propositional Calculation.
- ❖ To discuss about duality.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the terms set, Relation and function-Binary Relation.
- ❖ Interpret the Boolean Algebra- Lattices and Algebraic Structure.
- ❖ Solve the Fundamental Theorem of Arithmetic, Euler's Function.
- ❖ Calculate the Logic Problem.
- ❖ Describe the duality property.

### Mathematics -Paper-II : Differential Calculus

#### Objectives:

- ❖ To understand the series and type of series.
- ❖ To aware the concept of curvature.
- ❖ To develop knowledge about the partial differentiation.
- ❖ To give information about the conic section.

#### Course Outcomes: After completion the course student would able to:

- ❖ Identify the Test of convergence of a series.
- ❖ Calculate the Derivative of the Length of an Arc, Pedal Equation.
- ❖ Classify the Partial Differentiation.
- ❖ Use of theory of Envelopes and Evaluate Maxima & Minima of Functions of Two Variables.
- ❖ Calculate the Euler Theorem for Homogeneous Functions.

### Mathematics -Paper-III : Analytic Geometry I

#### Objectives:

- ❖ To understand the polar equation of conics.
- ❖ To aware the concept of circle of conics.
- ❖ To develop knowledge about the sphere and cone.
- ❖ To give information about the cylinder.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the Concept of Polar Equation of Conics.
- ❖ To understand the 2-D & 3-D Geometry of Sphere and Cone.
- ❖ To identify the Polar Equation of Tangent.
- ❖ To understand the 2-D & 3-D Geometry of cylinder

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Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 104	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany -Paper-I :MICROBIOLOGY

#### Objectives:

- ❖ To learn about the history, discovery, concept and applications of microbiology.
- ❖ To understand the ultra structures and classification of bacteria
- ❖ To know the structural component, cycle of life, reproduction of viruses with their diseases.
- ❖ To comprehend the basic concept of food spoilage and food preservation
- ❖ To aware the economic importance of bacteria and viruses

**Course Outcomes:** After completion the course student would able to

- ❖ Understand the ultra structures and classification of bacteria
- ❖ Describe the structural component, cycle of life, reproduction of viruses with their diseases.
- ❖ Discuss the history, discovery, concept and applications of microbiology.
- ❖ Comprehend the basic concept of food spoilage and food preservation
- ❖ Explain the economic importance of bacteria and viruses

### Botany -Paper-II :ALGAE AND LICHENS

#### Objectives:

- ❖ To know the characteristics, structure, habitat, types and evolution of algae
- ❖ To understand various aspects of photosynthetic pigments with special reference to chlorophyll and xanthophylls.
- ❖ To learn about the characteristics with reference of examples of phaeophyceae and Rhodophyceae
- ❖ To get aware the economic importance of algae
- ❖ To get knowledge about the life cycle and economic importance of lichens.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe various aspects of photosynthetic pigments with special reference to chlorophyll and xanthophylls.
- ❖ Differentiate the characteristics of phaeophyceae and Rhodophyceae
- ❖ Explain characteristics, structure, habitat, types and evolution of algae
- ❖ Interpret the economic importance of algae
- ❖ Comprehend the life cycle and importance of lichens

### Botany -Paper-III: Mycology and Plant Pathology

#### Objectives:

- ❖ To understand general characteristics, classification, structure, reproduction of fungi.
- ❖ To learn about general diseases caused by fungi, bacteria, viruses in plants
- ❖ To know general characteristics of oomycetes, zygomycetes
- ❖ To gain knowledge about other classes i.e. ascomycetes, basidiomycetes and deuteromycetes with examples.
- ❖ To understand the general characteristics of deuteromycetes

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand general characteristics, classification, structure, reproduction of fungi.
- ❖ Discuss general characteristics of oomycetes, zygomycetes
- ❖ Get knowledge about other classes i.e. ascomycetes, basidiomycetes and deuteromycetes .
- ❖ Learn about general diseases caused by fungi, bacteria, viruses in plants
- ❖ Classify the division Fungi.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 105	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology- Paper-I: Life and Diversity of animals - Nonchordata-I

#### Objectives:

- ❖ To discuss the animal kingdom.
- ❖ To understand the general characteristics and Classification of Phylum protozoa.
- ❖ To develop the general characteristics and Classification of Phylum porifera.
- ❖ To understand the general characteristics and Classification of Phylum platy helminthes
- ❖ To understand the external features and life cycle of fasciola.

#### Course Outcomes: After completion the course student would able to:

- ❖ Understand general taxonomic rules on animal classification, the principles and methods of taxonomy, the Levels of structural organization and the Basis of Classification -Coelom, symmetry, segmentation and its types.
- ❖ Classify the phylum Protozoa, Porifera & Coelenterata using examples, Understand the Locomotion in Protozoa, canal system of sponges, Coral and coral reefs & economical importance of Protozoa, Porifera.
- ❖ Clarify the external features and life cycle of fasciala.
- ❖ Discuss the sycom canal sysem of sponges skeletal system.
- ❖ Describe salient features & classification of coelenterate up to class

### Zoology- Paper-II: Life& Diversity of Animals Nonchordata- II

#### Objectives:

- ❖ To discuss the general characteristics and Classification of Phylum Annelida .
- ❖ To understand the general characteristics and Classification of Phylum Arthropod.
- ❖ To understand the general characteristics and Classification of Phylum Echinodermata.
- ❖ To understand the general characteristics and Classification of Phylum Hemichordate.
- ❖ To classify the general characteristics and classification of Phylum Mollusa.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify Phylum Annelida with taxonomic keys, and a basic idea of parasitic adaptations.
- ❖ Write down the classification and characteristics of Phylum Arthropoda,
- ❖ Write down the classification and characteristics of Phylum Mollusca Echinodermata & Hemichordata and Understand the process of pearl formation and water vascular system of star fish.
- ❖ Describe in the productive system of Leech.
- ❖ Classify in salient features of banlanoglessus

### Zoology- Paper-III: Cell Biology

#### Objectives

- ❖ To understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles
- ❖ To understand how these cellular components are used to generate and utilize energy in cells
- ❖ To understand the cellular components underlying mitotic cell division.
- ❖ To develop the structure an function of mitochondria
- ❖ To identify the lysosome structure polymorphism and function

#### Course Outcomes: After completion the course student would able to:

- ❖ Develop an understanding of the cytoskeleton and cell membrane
- ❖ The cell cycle, structure of mitochondria and types of cell divisions.
- ❖ Students are able to discuss the cell, structure of ribosome, lysosome and golgi complex.
- ❖ Students are able to discuss the endoplasmic recticulum structure .
- ❖ Studetns are able to classify in structure and function of mitochondria

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+Practical	Total
JVB 101	General English	Core Foundation(CF)	4	30	70	100

**Objective:**

1. Students will be able to recognize and understand the meaning of targeted grammatical structures in written and spoken form.
2. Students will practice the grammar skills involved in writing sentences and short paragraphs.

**Outcome:**

1. Students will begin to self-edit their oral and written production.
2. Students will make less grammatical errors.
3. Students will become clear of grammatical terms.
4. Students will get exposure of writing letters, application and paragraph.

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 102	अहिंसा एवं शांति (अहिंसा एवं अणुव्रत)	Core Elective (CE)	4	30	70	100

**उद्देश्य—**

1. अणुव्रत के विशेष संदर्भ में अहिंसा तत्त्व को समझाना।

**उपलब्धियाँ—**

1. अणुव्रत आंदोलन को जानकर संयम की दिशा में आगे बढ़ेंगे।

## Semester-II

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 201	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

### Chemistry-Paper-I : Inorganic chemistry

#### Objectives:

- ❖ To give knowledge about the mathematical concepts of ionic solid structure and packing.
- ❖ To aware about metallic bond and weak interactions among molecules.
- ❖ To provide information about various properties of s & p-block elements and their correlations.
- ❖ To develop their concept about structural principles of silicates and their applications.

#### Course Outcomes: After completion the course student would able to:

- ❖ Explain the mathematical concepts of ionic solid structure and packing.
- ❖ Plot and interpret shapes of ions and bonding structures.
- ❖ Identifies the relationship among properties of metals on the basis of various theories of bonding.
- ❖ Classify the s & p block elements like hydrides and halogens on the basis of atomic structure, periodicity and their basic properties.

### Chemistry-Paper-II : Organic chemistry

#### Objectives:

- ❖ To understand isomerism in organic compounds
- ❖ To develop their knowledge about geometric isomerism, aromaticity and halogen compounds.
- ❖ To aware them about nomenclature, mechanism and application of organic compounds.
- ❖ To develop conceptual knowledge about various principles related to geometrical structure, reactions and configuration of various compounds.

#### Course Outcomes: After completion the course student would able to:

- ❖ Explain about elements of symmetry, profile and methods of formation of organic compounds.
- ❖ Apply various mechanism rules to define chain reactions, configuration and formation of arenes, halogen compounds.
- ❖ Classify various derivatives on the basis of isomerism, configuration and energy profile.
- ❖ Describe various rules and reactions about stereochemistry, aromaticity and orientation related to chemical compounds.

### Chemistry-Paper-III :Physical chemistry

#### Objectives:

- ❖ To develop curiosity about laws of crystallography and chemical kinetics. .
- ❖ To provide information about derivation of equations, order and preparation of energy profile .
- ❖ To aware about the scope, factors and theories of chemical kinetics.
- ❖ To give information about colloidal state, their preparation and determinants.

#### Course Outcomes: After completion the course student would able to:

- ❖ Draw and interpret symmetries and structures of crystals and colloids.
- ❖ Compare among various forms of crystals, order and transition state of compounds.
- ❖ Measure and calculate the mathematical characteristics simple chemical reactions and determinants.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 202	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I : ELECTROMAGNETISM – II

#### Objectives:

- ❖ To aware about the of concepts related to Faraday’s law, induced emf.
- ❖ To give information about Maxwell’s equations to solutions of problems relating to transmission lines.
- ❖ To develop knowledge about the transient behavior of R-C circuit.
- ❖ To aware about the transient behavior of R-L circuit.

#### Course Outcomes: After completion the course student would able to:

- ❖ Understand the concepts related to Faraday’s law, induced emf, maxwell’s equations, transit behavior, electric field in matter, atomic & molecular dipoles.
- ❖ Applies Maxwell’s equations to solutions of problems relating to transmission lines, uniform plane wave propagation, magnetic field in matter.
- ❖ Understand the transient behavior of R-C circuit & L-R circuit.
- ❖ Classify the moment of a charge distribution.
- ❖ Discuss on the magnetic susceptibility and free current.

### Physics-Paper-II: OSCILLATIONS AND WAVES –I

#### Objectives:

- ❖ To aware about the concepts of mechanics,
- ❖ To give information about physical characteristics of SHM
- ❖ To calculate logarithmic decrement relaxation factor and quality factor.
- ❖ To aware acoustics and the properties of matter.
- ❖ To develop knowledge about obtaining solution of the oscillator.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the simple harmonic motion and its equation.
- ❖ Differentiate between damped oscillator and driven oscillator.
- ❖ Interpret the term frequency response and phase relation.
- ❖ Applies the concept of Ballistic galvanometer.
- ❖ Identify the coupled oscillator and some electrically coupled oscillators.

### Physics-Paper-III: OSCILLATIONS AND WAVES –II

#### Objectives:

- ❖ To aware about the concepts of lattice dynamics.
- ❖ To give information about electric transmission line.
- ❖ To calculate the wave equation and analysis the fourier series.
- ❖ To aware about the electromagnetic wave.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the group and phase velocities.
- ❖ Differentiate between 1-D mono atomic & diatomic lattice.
- ❖ Interpret the term propagation velocity and losses.
- ❖ Applies the concept of transverse wave in the string.
- ❖ Identify the spectrum of electromagnetic radiation.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 203	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I: Discrete Mathematics II

#### Objectives:

- ❖ To aware the Particular Solutions of Generating Function.
- ❖ To give information about the Graph.
- ❖ To Interpret the Eulerian and Hamiltonian Graphs.
- ❖ To give information about Trees.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies the Particular Solutions of Generating Function.
- ❖ Discuss about the Weighted Graph, Shortest Paths.
- ❖ Plot Eulerian and Hamiltonian Graphs.
- ❖ Discuss about the Trees Properties.
- ❖ Calculate the homogeneous solutions.

### Mathematics-Paper-II :Integral Calculus

#### Objectives:

- ❖ To develop knowledge about the concepts Beta and Gamma Function.
- ❖ To aware the Concept of Double Integrals in Cartesian and Polar Co-ordinates.
- ❖ Calculate Areas and Rectification.
- ❖ To give information about the Volumes and Surfaces of Solids of Revolution.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate the concepts Beta and Gamma Function.
- ❖ Calculate of Double Integrals in Cartesian and Polar Co-ordinates.
- ❖ Calculate Areas and Rectification.
- ❖ Discuss the volumes and Surfaces of Solids of Revolution.
- ❖ Calculate the dirichlet's integral.

### Mathematics-Paper-III :Analytic Geometry II

#### Objectives:

- ❖ To give information about the Central Conicoids.
- ❖ To aware tangent line and tangent plans.
- ❖ To develop concept generating Lines of Hyperboloid of One Sheet and its Properties.
- ❖ To give information about of a General Equation of Second g degree in 3-D to Standard Forms.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the Central Conicoids.
- ❖ Discuss the Generating Lines of Hyperboloid of One Sheet and its Properties.
- ❖ Reduction of a General Equation of Second Degree in 3-D to Standard Forms.
- ❖ Discuss the tangent lines and tangent plans.



Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 204	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I :CELL BIOLOGY

#### Objectives:

- ❖ To distinguish between structure of cell, cell wall and plasma membrane.
- ❖ To understand the concept of cell organelles with their detailed information.
- ❖ To know the ultra structure of Nucleus and chromosome.
- ❖ To compare the different stages of cell division (mitosis and meiosis).
- ❖ To comprehend the structure and composition of chromosomes.

#### Course Outcomes: After completion of the course student would be able to:

- ❖ Know the ultra structure of Nucleus and chromosome.
- ❖ Distinguish between structure of cell, cell wall and plasma membrane.
- ❖ Understand the concept of cell organelles with their detailed information.
- ❖ Know the different stages of cell division (mitosis and meiosis).
- ❖ Discuss the structure and composition of chromosomes.

### Botany-Paper-II :GENETICS AND PLANT BREEDING

#### Objectives:

- ❖ To know the concept of genetic inheritance
- ❖ To study the laws of Mendel
- ❖ To understand the chromosomal theory of inheritance.
- ❖ To learn about the concept of cytoplasmic inheritance.
- ❖ To understand different methods of plant breeding.

#### Course Outcomes: After completion of the course student would be able to:

- ❖ Understand the concept of genetic inheritance
- ❖ Study the laws of Mendel
- ❖ Interpret the chromosomal theory of inheritance.
- ❖ Explain the concept of cytoplasmic inheritance.
- ❖ Discuss different methods of plant breeding.

### Botany-Paper-III :BRYOPHYTA

#### Objectives:

- ❖ To acquire knowledge on bryophytes with its classification, habitat and life cycle.
- ❖ To understand habitat, structure, reproduction with life cycle of Riccia and Marchantia.
- ❖ To learn about class Anthocerotopsida.
- ❖ To know about the life cycle of Funaria.
- ❖ To apply the knowledge of bryophyta in daily life.

#### Course Outcomes: After completion of the course student would be able to:

- ❖ Acquire knowledge on bryophytes with its classification, habitat and cycle.
- ❖ Understand habitat, structure, reproduction with life cycles of Riccia and Marchantia.
- ❖ Describe the class Anthocerotopsida.
- ❖ Explain the concept of life cycle of Funaria.
- ❖ Interpret the importance of bryophyte.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 205	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I :Developmental Biology

#### Objectives

- ❖ To describe how organisms maintain gametic population.
- ❖ To understand fertilization process.
- ❖ To understand way of cleavage and different patterns to form zygote.
- ❖ To understand the fundamental embryonic development.
- ❖ To understand the complete process of formation of germ layers.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the process of: Gametogenesis, Fertilization and early development, Parthenogenesis
- ❖ Understand the concept of embryonic induction: primary organizer and competence, Developmental stages of chick (upto 96 hours).
- ❖ Discuss for the extra embryonic membranes.
- ❖ Discuss for the placenta
- ❖ Describe of stem cell

### Zoology-Paper-II : Genetics

#### Objectives

- ❖ To describe how the behavior of chromosomes during meiosis can explain mendal law.
- ❖ To understand how inheritance patterns are affected by position on chromosomes.
- ❖ To understand the similarities and differences between how genetic information is passed on in prokaryotes and eukaryotes.
- ❖ To understand gene interactions.
- ❖ To classify the sex determination in human.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the Mendelism & Multiple allelism.
- ❖ Understand the concept of gene & gene interaction, and Sex- linked Inheritance.
- ❖ Describe the Blood Group, RH Factor .
- ❖ Interpret the terms Chromosome , Thalassemia,Sickle cell anemia
- ❖ Describe in sex determination in human

### Zoology-Paper-III : Molecular Biology

#### Objectives

- ❖ To Understand about the genetic material (Nucleic acids) and DNA replication.
- ❖ To Understand about various types of RNA and process of Transcription & Translation.
- ❖ To describe the Genetic Code, and protein synthesis.
- ❖ 4.To classify the bacterial DNA structure
- ❖ To describe the nucleolus structure and function

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand about the genetic material (Nucleic acids) and DNA replication.
- ❖ Interpret about various types of RNA and process of Transcription & Translation.
- ❖ Understand the Genetic Code, and protein synthesis.
- ❖ Describe the bacterial DNA structure
- ❖ Discuss the nucleolus structure and function

Course Code	Course Title	Course Category	Credit	C.I.A. (Continouns Internal Assesment)	Theory	Total
JVB201	जैन संस्कृति एवं जीवन मूल्य (अनिवार्य पत्र)	Core Foundation(CF)	4	30	70	100

**उद्देश्य—**

1. जैन संस्कृति एवं भगवान महावीर का परिचय देना
2. जैन सिद्धान्तों का परिचय देना।
3. जीवन मूल्यों का प्रायोगिक प्रशिक्षण देना।

**उपलब्धियाँ—**

1. जैन संस्कृति से परिचित होंगे।
2. जैन साहित्य और सिद्धान्तों से परिचित होंगे।
3. जैन जीवन शैली से मूल्यों का विकास होगा।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continouns Internal Assesment)	Theory	Total
JVB202	अहिंसा एवं शांति (मानवाधिकार एवं कर्त्तव्य)	Core Elective (CE)	4	30	70	100

**उद्देश्य—**

1. मानवाधिकार एवं कर्त्तव्य की जानकारी देना।

**उपलब्धियाँ—**

1. मानवाधिकारों एवं कर्त्तव्यों के प्रति जागरूकता बढ़ेगी।

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 301	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

#### Chemistry-Paper-I :inorganic chemistry

##### Objectives:

- ❖ To develop the conceptual knowledge of acid and bases.
- ❖ To aware about the classification of acids, non aqueous solvents and separation methods.
- ❖ To give information about various characteristics & laws related to hard and soft acid and bases.
- ❖ To acquaint the knowledge of principles and purifying process for various solvents.

##### Course Outcomes: After completion the course student would able to:

- ❖ Differentiate between the various types of acid and bases.
- ❖ Describe the rules and principles related to explain the properties of non aqueous solvents.
- ❖ Apply the rules of separation and purification to extract various impurities.
- ❖ Explain the general characteristics and types of solvents.

#### Chemistry-Paper-II :Organic chemistry

##### Objectives:

- ❖ To develop knowledge about classification & nomenclature of organic compounds.
- ❖ To aware about the chemical reactions, mechanism and properties of alcohol & ethers.
- ❖ To develop understanding the proper use of various laws related to synthesis and catalyzing process.
- ❖ To explain the various reactions on the basis of their mechanism.

##### Course Outcomes: After completion the course student would able to:

- ❖ Classify the various organic compounds on the basis of mechanism and structure.
- ❖ Apply the knowledge of processing derivatives for synthesize various products.
- ❖ Describe and discuss about technical terminology related to alcohols, ketones & ethers etc.
- ❖ Explain different methods of formation according to chemical reactions.

#### Chemistry-Paper-III :Physical chemistry

##### Objectives:

- ❖ To develop knowledge about classification & nomenclature of Physical compounds.
- ❖ To aware about the chemical reactions, mechanism and properties of alcohol & ethers.

##### Course Outcomes: After completion the course student would able to:

- ❖ Calculate and measure equivalent conductance, bond energy and thermo chemical data.
- ❖ Differentiate among intensive and extensive properties of system according to thermodynamics.
- ❖ Plot and interpret graph, equations and interrelationship related to volume, pressure and heat energy.
- ❖ Describe various phenomenon of thermodynamics, thermochemistry and electrochemistry.
- ❖ Measure thermo chemical data, enthalpy, solubility and equilibrium constant etc

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 302	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I: Statistical And Thermodynamical Physics-I

#### Objectives:

- ❖ To aware general thermo-dynamical interaction.
- ❖ To develop concept about carnot's engine and Maxwell relation.
- ❖ 3 To apply the concepts production of low temperature.
- ❖ 4. To apply the concepts of low temperature.

#### Course Outcomes: After completion the course student would able to:

- ❖ Identify and describe the statistical nature of concepts and laws in thermodynamics, in particular: entropy, temperature, chemical potential, Free energies, partition functions.
- ❖ Use the statistical physics methods, such as Boltzmann distribution, Gibbs distribution, Fermi-Dirac and Bose-Einstein distributions to solve problems in some physical systems.
- ❖ Apply the concepts and principles of black-body radiation to analyze radiation phenomena in thermodynamic systems.
- ❖ Apply the concepts and laws of thermodynamics to solve problems in thermodynamic systems such as gases, heat engines and refrigerators etc.

### Physics-Paper-II: Optics –I

#### Objective

- ❖ To give information about geometrical optics.
- ❖ To aware about the lenses and these properties.
- ❖ To develop concept about the interference.
- ❖ To give information about polarization and types of polarization.

#### Course Outcomes: After completion the course student would able to:

- ❖ Gain knowledge on various theories of light
- ❖ Acquire skills to identify and apply formulas of optics and wave physics
- ❖ Classify the properties of light like reflection, refraction, interference, diffraction etc
- ❖ Applies the diffraction and polarization.
- ❖ Classify the theory of double refraction.

### Physics-Paper-III: Electronics & Solid State Devices –I

#### Objectives:

- ❖ To give information about circuit analysis.
- ❖ To aware about the network theorems.
- ❖ To develop concept about the semiconductor.
- ❖ To give information about rectifiers and voltage regulation.

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies the kirchhoff's law (first and second) and circuit analysis.
- ❖ Calculate the network theorem (superposition, thevenin, reciprocity, compensation, maximum power transfer and miller theorems).
- ❖ Discuss the concept of the semiconductor, type of semiconductor, zener diode and hall effect.
- ❖ Identify the concept of rectifiers, voltage regulation, various type of filter.
- ❖ Calculation of ripple factor, efficiency and regulation

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 303	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I :Real Analysis

#### Objectives:

- ❖ To aware the Real Numbers as Complete Ordered Field, Closed & opened Sets.
- ❖ To gain knowledge about the Cauchy's Sequences, SuBSCquences.
- ❖ To develop knowledge about the Notion of Limit & Continuity for Functions of Two Variables.
- ❖ To develop concept about the properties of continuous function on close intervals.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies the Real Numbers as Complete Ordered Field, Closed & opened Sets.
- ❖ Calculate the Cauchy's Sequences, SuBSCquences.
- ❖ Discuss the Properties of Continuous Functions on Closed Intervals.
- ❖ Classify the Notion of Limit & Continuity for Functions of Two Variables.
- ❖ Interprets the fundamental theorem.

### Mathematics-Paper-II : Differential Equations I

#### Objectives

- ❖ To give information about Degree& Order of a Differential Equation.
- ❖ To aware Linear Equation & Exact Differential Equation.
- ❖ To develop concept of the 1<sup>st</sup> Order but Higher Degree Differential Equation Solve for x,y &p.
- ❖ To develop knowledge about the Homogeneous Linear Differential Equations.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate Degree& Order of a Differential Equation.
- ❖ Differentiate between Linear Equation & Exact Differential Equation.
- ❖ Calculate the 1<sup>st</sup> Order but Higher Degree Differential Equation Solve for x,y&p.
- ❖ Discuss on the Homogeneous Linear Differential Equations.
- ❖ Discuss on the linear differential equation constant coefficients.

### Mathematics-Paper-III : Numerical Analysis

#### Objectives:

- ❖ To aware Relation b/w Differences and Derivatives .
- ❖ To Understand the Divided Differences by Newton's .
- ❖ To give knowledge about the Stirling's and Bessel's Interpolation Formulae.
- ❖ To develop concept of Numerical Integration .

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate Relation b/w Differences and Derivatives .
- ❖ Discuss on the Divided Differences by Newton's .
- ❖ Applies the Stirling's and Bessel's Interpolation Formulae.
- ❖ Identify the concept of Numerical Integration.
- ❖ Applies the trapezoidal rule.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 304	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I :Molecular Biology

#### Objectives:

- ❖ To know the concept of genetic material
- ❖ To understand the structure of DNA with its model
- ❖ To get knowledge about the concept, types and process of DNA replication
- ❖ To understand the concept of transcription and Translation
- ❖ To learn about the regulation of gene expression

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the concept of genetic material
- ❖ Understand the structure of DNA with its model
- ❖ Describe the concept, types and process of DNA replication
- ❖ Differentiate the transcription and Translation
- ❖ Interpret the regulation of gene expression

### Botany-Paper-II :Biotechnology

#### Objectives:

- ❖ To know the whole concept of Biotechnology
- ❖ To distinguish between morphogenesis and micro propagation
- ❖ To aware about the mechanism of plant tissue culture.
- ❖ To learn about the isolation, culture and somatic cell hybridization
- ❖ To acquire knowledge about recombinant DNA technology and PCR technique.
- ❖ To understand the introduction, process of transgenic plants.

**Course Outcomes:** After completion the course student would able to:

- ❖ Comprehend the concept of Biotechnology
- ❖ Distinguish between morphogenesis and micro propagation
- ❖ Describe the role of plant tissue culture.
- ❖ Explain the isolation, culture and somatic cell hybridization
- ❖ Acquire knowledge about recombinant DNA technology and PCR technique.
- ❖ Interpret the transgenic plants.

### Botany-Paper-III :Plant Physiology I

#### Objectives:

- ❖ To understand structure, properties, components and phenomenon of water
- ❖ To know about different theories related to water absorption.
- ❖ To learn about Nitrogen and phosphorous cycle
- ❖ To get knowledge about concept and process of photosynthesis and respiration.
- ❖ To distinguish Aerobic and anaerobic pathways

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand structure, properties, components and phenomenon of water
- ❖ C out different theories related to water absorption.
- ❖ Explain the Nitrogen and phosphorous cycle
- ❖ Get knowledge about concept and process of photosynthesis and respiration
- ❖ Distinguish Aerobic and anaerobic pathways

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 305	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I: Life and Diversity of animals – Chordata- I

#### Objectives:

- ❖ To explain what the vertebrates are.
- ❖ To understand the general characters of each class of vertebrates.
- ❖ To understand the origin and evolutionary relationship in different classes of vertebrates.
- ❖ To understand the classification of pisces
- ❖ To develop the general characters and classification in Amphibia

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss and study the classification of Protochordata, Ascidia & Amphioxus
- ❖ Understand the classification of Agnatha & Gnathostomata, Characters of Petromyzon, Ammocoet larva, .
- ❖ Learn about the classification of Pisces, and basics of pisciculture, Scales, Fins, migration in fishes.
- ❖ Understand the classification of Amphibia, Reptilia, and the General Topics like Adaptive radiation in Amphibian, Neoteny, Parental care in Amphibians,
- ❖ Understand the classification of Aves, Mammals and the General Topics like perching mechanism, flight adaptation, migration and feathers in birds and adaptation, hair and dentition in Mammals

### Zoology-Paper-II: Microbiology & Parasitology

#### Objectives:

- ❖ To understand the classification Microorganisms.
- ❖ To Understand and study the Bacteria.
- ❖ To Understand the Parasite Protozoan's.
- ❖ To Understand the Virus, Hepatitis and HIV.
- ❖ To explain the morphology of bacteria

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies the classification Microorganisms.
- ❖ Understand and study the Bacteria.
- ❖ Explain the Parasite Protozoans.
- ❖ Classify the Virus, Hepatitis and HIV.
- ❖ Interprets the plasmodium, trypanosome, leishmania.

### Zoology-Paper-III: Physiology- I

#### Objectives:

- ❖ To develop the metabolic activities in mammalian body.
- ❖ To understand the various Biomolecules in body.
- ❖ To understand the structural chemistry of proteins, carbohydrates, fats.
- ❖ To understand the functions of Biomolecules in body Secretion.
- ❖ To explain the process of digestion.

#### Course Outcomes: After completion the course student would able to:

- ❖ Understand the Physiology of Digestion & Respiration.
- ❖ Discuss the Physiology of Circulation & nerve impulse and Reflex Action.
- ❖ Understand the Physiology of Excretion
- ❖ Describe in nitrogenous waste products.
- ❖ Interprets in hormonal control of renal function



Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 301	हिन्दी (अनिवार्य पत्र)	Core Foundation(CF)	4	30	70	100

**उद्देश्य—**

1. हिन्दी व्याकरण— संज्ञा, सर्वनाम, कारक, पर्यायवाची, विलोमशब्द, समुच्चारित भिन्नार्थक शब्द, मुहावरें, लोकोक्तियाँ आदि का सामान्य ज्ञान करवाना।
2. देवनागरी लिपि का परिचय देना।
3. व्यावहारिक पत्रों की जानकारी देना।

**उपलब्धियाँ—**

1. विद्यार्थियों का व्याकरण के ज्ञान में वृद्धि होगी।
2. विद्यार्थी कार्यालय पत्र लिखने में समर्थ हो सकेंगे।
3. विद्यार्थी देवनागरी लिपि के महत्त्व, उसकी विशेषता आदि से अपने ज्ञान में वृद्धि करेंगे।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 302	Indian Culture	Core Elective(CE)	4	30	70	100

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1. प्राचीन भारतीय संस्कृति की जानकारी प्रदान करना।
2. प्राचीन गौरवशाली विश्वविद्यालयों के बारे में जानकारी प्रदान करना।
3. प्राचीन महाकाव्यों और भारतीय जीवन मूल्यों के बारे में जानकारी प्रदान करना।

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1. विद्यार्थी प्राचीन भारतीय संस्कृति की जानकारी प्राप्त कर सकेंगे।
2. विद्यार्थी प्राचीन गौरवशाली विश्वविद्यालयों के बारे में ज्ञान प्राप्त कर सकेंगे।
3. विद्यार्थी प्राचीन महाकाव्यों और भारतीय जीवन मूल्यों के बारे में जानकारी प्राप्त कर सकेंगे।

### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 401	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

#### Chemistry-Paper -I :Inorganic chemistry

##### Objectives:

- ❖ To develop the knowledge about chromatography, oxidation reduction and polymerization.
- ❖ To aware about the conceptual knowledge of chromatography, polymer chemistry and bioinorganic chemistry.
- ❖ To acquaint about the classification of acids, non aqueous solvents and separation methods.
- ❖ To give information about solvent systems, diagrams and preparation methods.
- ❖ To develop understanding about phosphazenes, trace elements and nitrogen fixation.

**Course Outcomes:** After completion the course student would able to:

- ❖ Differentiate between oxidation & reduction and structures of silicon.
- ❖ Describe the principles related to differential migration, substitution and biochemistry.
- ❖ Apply the methods of chromatography, industrial uses of silicon and biochemistry to solve different issues.
- ❖ Interpret the diagrams related to redox reaction, structure and processes of polymerization.

#### Chemistry-Paper -II :Organic chemistry

##### Objectives:

- ❖ To develop knowledge about classification & nomenclature of carboxylic acid and dicarboxylic acid.
- ❖ To aware about the chemical reactions, mechanism and properties of polymers, halonitroarenes and amines.
- ❖ To develop concept of various laws related to synthesis and catalyzing process.
- ❖ To acquaint the various reactions on the basis of their mechanism.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the various organic compounds on the basis of mechanism and structure.
- ❖ Apply the knowledge of processing derivatives for synthesize various products.
- ❖ Describe and discuss about technical terminology related to acids, alkyl nitrates and amines.
- ❖ Discuss about the methods of formation, structural features and mechanism of various compounds.

#### Chemistry-Paper -III:Physical Chemistry

##### Objectives:

- ❖ To aware about laws of thermodynamics, pH, polarization of molecular structure.
- ❖ To develop conceptual knowledge about entropy, electrolytes dipole moment etc.
- ❖ To develop analytical view about evaluation of absolute entropy, activity coefficient and magnetic properties of compounds.
- ❖ To give information about carnt theorem, mixing of gases, overvoltage and referectivity.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the electrodes, cells and properties of organic compounds.
- ❖ Determine and interpret the function of volumes, equations, coefficients related to entropy, corrosion and molecular structures.
- ❖ Describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ Measure the entropy change, pH and polarization and magnetic properties of compounds.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 402	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper -I: Statistical And Thermodynamical Physics-II

#### Objectives:

- ❖ To aware kinetic theory of gases.
- ❖ To Understand the transport phenomenon of gases.
- ❖ To give knowledge about the classical statistics.
- ❖ To develop concept of quantum statistics.

#### Course Outcomes: After completion the course student would able to:

- ❖ Analyze phase equilibrium condition and identify types of phase transitions of physical systems.
- ❖ Make connections between applications of general statistical theory in various branches of physics.
- ❖ Design, set up, and carry out experiments, analyze data recognising and accounting for errors and compare with theoretical predictions.
- ❖ Differentiate between B-E statistics & F-D statistics
- ❖ Discuss on the nuclear spin statistics.

### Physics-Paper -II :Optics –II

#### Objectives:

- ❖ To aware fraunhofer diffraction.
- ❖ To Understand the Fresnel class of diffraction and resolving power.
- ❖ To give knowledge about the optical activity and holography.
- ❖ To develop concept of lasers.

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies interference in design and working of interferometers.
- ❖ Discuss on the resolving power of different optical instruments.
- ❖ Identify the working of holography and their applications in various fields.
- ❖ Classify the optical fiber and their applications in communication.
- ❖ Differentiate between simple light source and laser

### Physics-Paper -III:Electronics& Solid State Devices –II

#### Objectives:

- ❖ To aware about transistor.
- ❖ To Understand the amplifiers with feedback.
- ❖ To give knowledge about the amplifiers and oscillators.
- ❖ To develop concept of field effect transistor and digital circuits.

#### Course Outcomes: After completion the course student would able to:

- ❖ Identify characteristics of transistor (common base configuration, common emmitter configuration, common collector configuration).
- ❖ Discuss on the amplifiers with feedback.
- ❖ Discuss on the concept of operational amplifier & oscillators.
- ❖ Classify the field effect transistor and digital circuits.
- ❖ Differentiate between TTL and RTL.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 403	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I: Real analysis and matrix space

#### Objectives:

- ❖ To give information about the Sequence and Series of Functions.
- ❖ To aware about the Term by Term Differentiation and Integration.
- ❖ To develop knowledge about the Metric Space
- ❖ To develop knowledge about the Subspace.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Sequence and Series of Functions.
- ❖ Calculate the Term by Term Differentiation and Integration.
- ❖ Classify the Metric Space, Subspace.
- ❖ Applies the Compact Sets and Compact Space.
- ❖ Calculate the connected matrix space.

### Mathematics-Paper-II: Differential Equations II

#### Objectives:

- ❖ To give knowledge about the exact linear differential equations of nth order.
- ❖ To aware about the linear differential equations of second order.
- ❖ To know the partial differential equations of first order.
- ❖ To Understand the homogeneous and non-homogenous linear partial differential equation.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate the exact linear differential equations of nth order.
- ❖ Classify the linear differential equations of second order.
- ❖ Discuss the partial differential equations of first order.
- ❖ Identify the homogeneous and non-homogenous linear partial differential equation.

### Mathematics- Paper-III: Optimization Theory vector calculus

#### Objectives:

- ❖ To aware about the Linear Programming Problem.
- ❖ To develop knowledge of properties and Elementary Theorems on Duality Only.
- ❖ To understand the Differentiation & Integration of vector Point functions.
- ❖ To conceptualize the Divergence & Curls.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies Linear Programming Problem.
- ❖ Classify the Properties and Elementary Theorems on Duality Only.
- ❖ Discuss on the Differentiation & Integration of vector Point functions.
- ❖ Identify the Divergence & Curls.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 404	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I :Pteridophytes

#### Objectives:

- ❖ To develop knowledge on pteridophytes with its origin and classification
- ❖ To know general characteristics of psilophyta.
- ❖ To understand the life cycle of class lycophyta and sphenophyta.
- ❖ To discuss economic importance of pteridophytes.
- ❖ To compare pteridophyte with bryophyte and gymnosperms.

#### Course Outcomes: After completion the course student would able to:

- ❖ Develop knowledge on pteridophytes with its origin and classification
- ❖ Explain general characteristics of psilophyta.
- ❖ Understand the concept of lycophyta and sphenophyta.
- ❖ Discuss concept of filicophyta and their economic importance
- ❖ Compare pteridophyte with bryophyte and gymnosperms.

### Botany- Paper-II:Gymnosperms And Paleobotany

#### Objectives:

- ❖ To know the general characteristics, distribution, classification of gymnosperms
- ❖ To learn about the economic importance of gymnosperms
- ❖ To understand the morphology anatomy, reproduction of the cycadales .
- ❖ To acquire knowledge about Ephedrales and Palaeobotany.
- ❖ To discuss the dominant fossils flora of different ages.

#### Course Outcomes: After completion the course student would able to:

- ❖ Interpret the general characteristics, distribution, classification of gymnosperms
- ❖ Acquaint with the economic importance of gymnosperms
- ❖ Discuss the morphology anatomy, reproduction of the cycadales .
- ❖ Acquire knowledge about Ephedrales and Palaeobotany.
- ❖ Explain the dominant fossils flora of different ages.

### Botany- Paper-III :Plant Physiology II And Biochemistry

#### Objectives:

- ❖ To know structure, biosynthesis and physiological role of plant hormones
- ❖ To understand structure, physiological role with distinguishable factors of hormones
- ❖ To provide knowledge of vernalization and photoperiodism.
- ❖ To comprehend the introduction, importance, nomenclature and classification of carbohydrates lipids, proteins.
- ❖ To acquire knowledge about enzymes.

#### Course Outcomes: After completion the course student would able to:

- ❖ Get knowledge about structure, biosynthesis and physiological role of plant hormones
- ❖ Understand structure, physiological role with distinguishable factors of hormones
- ❖ Discuss the concept of vernalization and photoperiodism.
- ❖ Describe the importance, nomenclature and classification of carbohydrates lipids, proteins.
- ❖ Acquire knowledge about enzymes

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 405	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I :Life and Diversity of animals – Chordata II

#### Objectives:

- ❖ To learn about the comparative study scoliodon and Rana of Integumentary system i.e. Structure of skin.
- ❖ To Understand and study the comparative study scoliodon and Rana of Heart and brain.
- ❖ To Understand and study the comparative study scoliodon and Rana of Bones.
- ❖ To Understand and study the Poisonous and nonpoisonous snakes.
- ❖ To explain the flight adaption

#### Course Outcomes: After complition the course student would able to:

- ❖ Understand and study the comparative study scoliodon and Rana of Integumentary system i.e. Structure of skin.
- ❖ Study the comparative study scoliodon and Rana of Heart and brain.
- ❖ Comparative study scoliodon and Rana of Bones.
- ❖ Interpret Poisonous and nonpoisonous snakes.
- ❖ Discuss the flight adaption

### Zoology-Paper-II: Biochemistry and Endocrinology

#### Objectives

- ❖ To explain the function of Carbohydrates and other metabolism.
- ❖ To aware the function of Lipids and metabolism
- ❖ To understand the importance of Bio molecules
- ❖ To learn about the function of Proteins and metabolism
- ❖ To aware the Types of Endocrine glands

#### Course Outcomes: After complition the course student would able to:

- ❖ Interprets the function of Carbohydrates and other metabolism.
- ❖ Explain the function of Lipids and metabolism
- ❖ Interpret the importance of Bio molecules
- ❖ Understand the function of Proteins and metabolism
- ❖ Explain the Types of Endocrine glands

### Zoology-Paper-III:Physiology- II

#### Objectives:

- ❖ To Understand the Nerve and Muscles.
- ❖ To explain the Sensory Physiology.
- ❖ To Understand the Reproduction.
- ❖ To understand the hormones action.
- ❖ To learn about the human ear mechanism of hearing

#### Course Outcomes: After complition the course student would able to:

- ❖ Interprets the Nerve and Muscles.
- ❖ Understand the Sensory Physiology.
- ❖ Understand the Reproduction.
- ❖ Classify the hormones action.
- ❖ Describe the human ear mechanism of hearing

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+Practical	Total
JVB 401	पर्यावरण (अनिवार्य पत्र)	Core Foundation(CF)	4	30	50+20=70	100

**उद्देश्य—**

1. पर्यावरण के बारे में जानकारी देना।
2. पर्यावरण के प्रति जागरूकता बढ़ाना।

**उपलब्धियाँ—**

1. पर्यावरण के बारे में जानकारी मिलेगी।
2. पर्यावरण के प्रति जागरूकता बढ़ेगी।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 402	Modern Indian Thinkers and Social Reforms	Core Elective(CE)	4	30	70	100

**Objectives -**

1. To Understand about basic knowledge about social reforms.
2. To know about introduction and views of Indian Social Thinkers.

**Out comes -**

1. Student know about social reforms.
2. Student know about views of various Indian Social Thinkers.

### Semester-V

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 501	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

#### Chemistry-Paper-I : Inorganic Chemistry

##### Objectives:

- ❖ To develop the knowledge about coordination compound, lanthanides and actinides.
- ❖ To aware about the conceptual knowledge of valance bond theory, nomenclature, spectral properties of elements of transition series.
- ❖ To give information about coordination theory, magnetic moments, spectral properties and electronic configuration of various elements of transition series.
- ❖ To develop understanding about correlation between periodicity and general features of various elements .

##### Course Outcomes: After completion the course student would able to:

- ❖ Differentiate between lanthanides and actinides on the basis of their properties.
- ❖ Measure the correlation of various values, complex formation and spectral properties of elements of transition series.
- ❖ Classify the coordination compounds, magnetic behavior and stereochemistry of lanthanides and actinides.
- ❖ Define the separation process, structural properties and electronic configuration of compounds

#### Chemistry- Paper-II :Organic Chemistry

##### Objectives:

- ❖ To develop conceptual knowledge about infrared absorption spectroscopy, nomenclature of organometallic compounds.
- ❖ To acquaint about various laws of spectroscopy and methods of synthesis related to organometallic and heterocyclic compounds.
- ❖ To aware about laws related to IR spectrum, types of transitions and preparation of heterocyclic compounds.
- ❖ To develop understanding about effects of solvents, structural features and basicity of pyridine, piperidine and pyrrole.

##### Course Outcomes: After completion the course student would able to:

- ❖ Calssify the various organic compounds on the basis of UV spectra and transition.
- ❖ Describe and discuss about formation, structure and chemical reactions of heterocyclic compounds.
- ❖ Draw and interpret the molecular orbit picture and aromatic characteristics of organometallic and heterocyclic compounds.
- ❖ Define various devivatives and reaction mechanism of synthesis and substitution related to heterocyclic compounds.

#### Chemistry- Paper-III :Physical Chemistry

##### Objectives:

- ❖ To aware about degree of freedom, phase equilibria and quantum mechanism.
- ❖ To develop conceptual knowledge about entropy, electrolytes dipole moment etc.
- ❖ To develop analytical view about evaluation of absolute entropy, activity coefficient and magnetic propertires of compounds.
- ❖ To give information about carnt theorem, mixing of gases, overvoltage and referectivity.

##### Course Outcomes: After completion the course student would able to:

- ❖ Classify the electrodes, cells and properties of organic compounds.
- ❖ Determine and interpret the function of volumes, equations, coefficients related to entropy, corrosion and molecular structures.
- ❖ Describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ Measure the entropy change, pH and polarization and magnetic properties of compounds.



Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 502	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I :Mathematical Physics and Special Theory of Relativity – I

#### Objectives:

- ❖ To understand the concept of co-ordinate transformation.
- ❖ To know the concept of tensor analysis and dirac delta function.
- ❖ 3.To understand the Special functions (Legendre, Bessel, hermite and laguerre) .
- ❖ To aware the techniques of variables and its application to boundary value problems

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the concept of co-ordinate transformation.
- ❖ Classify the concept of tensor analysis and dirac delta function.
- ❖ 3.Differentiate the Special functions (Legendre, Bessel, hermite and laguerre) .
- ❖ Applies the techniques of variables and its application to boundary value problems.
- ❖ 5 Identify the laplace equation in spherical co ordinate system.

### Physics- Paper-II :Quantum Mechanics – I

#### Objectives:

- ❖ To Understand the Origin and Experimental Evidence of Quantum theory.
- ❖ To aware the Uncertainty Principles and Schrodinger's Wave Mechanics.
- ❖ To develop concept the Postulates and Operators of Quantum Mechanics.
- ❖ To understand the Simple Solutions of Schrodinger Equation.

**Course Outcomes: After completion the course student would able to::**

- ❖ Discuss the Origin and Experimental Evidence of Quantum theory.
- ❖ Apply the Uncertainty Principles and Schrodinger's Wave Mechanics.
- ❖ Identify the Postulates and Operators of Quantum Mechanics.
- ❖ Calculate the Simple Solutions of Schrodinger Equation
- ❖ Discuss on the discrete energy level.

### Physics- Paper-III:Solid State Physics

#### Objectives:

- ❖ To know the concept of Crystal Binding and crystal Structure.
- ❖ To understand the Thermal and Electrical Properties of the Solids.
- ❖ To aware the concept of Band Theory of Solids.
- ❖ To develop concept the Magnetic Property of materials.

**Course Outcomes: After completion the course student would able to:**

- ❖ Identify the concept of Crystal Binding and crystal Structure.
- ❖ Study the Thermal and Electrical Properties of the Solids.
- ❖ Classify the concept of Band Theory of Solids.
- ❖ Discuss the Magnetic Property of materials.
- ❖ Identify relation between exchange integral and Weiss constant.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 503	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I:Algebra - I

#### Objectives:

- ❖ To Understand the definition and Simple Properties of Group & Subgroup.
- ❖ To aware the Cayley's Theorem and Fundamental Theorem of Isomorphism.
- ❖ To know the Definition of Ring and Subrings.
- ❖ 4 To gain knowledge of morphism of ring.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on definition and Simple Properties of Group & Subgroup.
- ❖ Apply the Lagrange's Theorem on the Order of Subgroups.
- ❖ Calculate the Cayley's Theorem and Fundamental Theorem of Isomorphism.
- ❖ Discuss the definition of Ring and Subrings.
- ❖ Differentiate group, subgroup and quotient group.

### Mathematics- Paper-II:Complex Analysis -I

#### Objectives:

- ❖ To Understand the Complex Plane, Connected & Compact Set.
- ❖ To Aware the Complex Valued function.
- ❖ To know the Complex Integral.
- ❖ To study taylor's theorem and laurent's theorem .

#### Course Outcomes After completion the course student would able to:

- ❖ Discuss the Complex Plane, Connected & Compact Set.
- ❖ Identify the Complex Valued function.
- ❖ Classify the Complex Integral.
- ❖ Solve the Taylor's Theorem and Maximum Modulus Theorem.
- ❖ Discuss on the fundamental theorem of integral calculus for complex functions.

### Mathematics- Paper-III: Dynamics

#### Objectives:

- ❖ To Understand the Velocity and Acceleration.
- ❖ To Study the Motion along Horizontal & Vertical Elastic String.
- ❖ To aware the Motion in Resisting medium.
- ❖ To know about simple harmonic motion and Hooke's Law.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the Velocity and Acceleration.
- ❖ Classify the Motion along Horizontal & Vertical Elastic String.
- ❖ Identify the Motion in Resisting medium.
- ❖ Calculate Work and Energy.
- ❖ Calculate the motion on the inside and outside of a smooth vertical circle.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 504	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I:Morphology Of Angiosperms

#### Objectives:

- ❖ To understand the basic plan of flowering plants.
- ❖ To get knowledge about the morphology of root system and shoot system.
- ❖ To learn the origin, development and types of leaves
- ❖ To study the detailed structure of flower.
- ❖ To aware students with the concept and significance of seed.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the basic plan of flowering plants.
- ❖ Carry out the comparative morphology of root system and shoot system.
- ❖ Discuss the origin, development, types of leaves
- ❖ Get knowledge about the detailed structure of flower
- ❖ Interpret the concept of seed with its significance.

### Botany- Paper-II :Anatomy Of Flowering Plants

#### Objectives:

- ❖ To understand the structure and classification of tissues
- ❖ To distinguish simple and complex tissues.
- ❖ To know about the definition, classification, types and function of meristem.
- ❖ To study the anatomy of stem, root and leaf.
- ❖ To analyze different types of wood with secondary growth

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the structure and classification of tissues
- ❖ Distinguish simple and complex tissues.
- ❖ Explain the definition, classification, types and function of meristem.
- ❖ Discuss the anatomy of stem, root and leaf.
- ❖ Analyze different types of woods with secondary growth.

### Botany- Paper-III :Anatomy Of Flowering Plants Plant Systematics

#### Objectives:

- ❖ To understand the scope and importance of plant systematics .
- ❖ To study the different taxonomical tools.
- ❖ To get knowledge about the principle and rules of botanical nomenclature.
- ❖ To aware students with different families with Bentham and hooker classification.
- ❖ To learn about the botanical gardens and herbariums.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the scope and importance of angiosperms.
- ❖ Enhance knowledge about the taxonomical tools.
- ❖ Discuss the principle and rules of botanical nomenclature.
- ❖ Compare different families with Bentham and hooker classification
- ❖ Learn about the botanical gardens and herbariums.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 505	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I: Ethology

#### Objectives:

- ❖ To understand Concepts of Ethology- Motivation, Fixed Action Patterns (FAP), Sign Stimulus; Innate Releasing Mechanism (IRM); Action Specific Energy (ASE); Learning; Imprinting.
- ❖ To understand Methods of Studying Behaviour: Studies in Laboratory- Neurotransmitter, physiological and Neurochemical techniques. Brief account on Pheromones,
- ❖ To explain the Social organization.
- ❖ To learn about the Biological Rhythms
- ❖ To explain the control of behavior neural control hormonal control

#### Course Outcomes: After completion the course student would able to:

- ❖ Concepts of Ethology- Motivation, Fixed Action Patterns (FAP), Sign Stimulus; Innate Releasing Mechanism (IRM); Action Specific Energy (ASE); Learning; Imprinting.
- ❖ Methods of Studying Behaviour : Studies in Laboratory- Neurotransmitter, physiological and Neurochemical techniques. Brief account on Pheromones,
- ❖ Understand the Social organization.
- ❖ Interprets the Biological Rhythms
- ❖ Discuss the control of behavior neural control hormonal control

### Zoology-Paper-II :Biotechniques, Instrumentation and Bioinformatics

#### Objectives:

- ❖ To learn about the term Electrophoresis, Radioactivity.
- ❖ To understand the working principle of Centrifuge, Incubator, pH meter.
- ❖ To understand the cell culture techniques and separation techniques in biology.
- ❖ To Understand the Principle, parts, and its application of Microscopic techniques. Understand the working principle of UV-Vis principle, Colorimeter.
- ❖ To aware the recognize the importance of various databases

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the term Electrophoresis, Radioactivity.
- ❖ Understand the working principle of Centrifuge, Incubator, pH meter.
- ❖ Understand the cell culture techniques and separation techniques in biology.
- ❖ Understand the Principle, parts, and its application of Microscopic techniques. Understand the working principle of UV-Vis principle, Colorimeter.

- ❖ Recognize the importance of various databases

### Zoology-Paper-III:Immunology& Biotechnology

#### Objectives:

- ❖ To understand Distinguish Innate immunity and Acquired Immunity
- ❖ To understand the importance of Immune system
- ❖ To understand Study and understand the DNA Recombinant technology
- ❖ To Understand the Scope and Significance of Biotechnology
- ❖ To learn about mechanism of Antigen & Antibody reaction

#### Course Outcomes: After completion the course student would able to:

- ❖ Distinguish innate immunity and Acquired Immunity.
- ❖ Understand the importance of Immune system.
- ❖ Study and understand the DNA Recombinant technology.
- ❖ Understand the Scope and Significance of Biotechnology.
- ❖ Discuss the mechanism of Antigen & Antibody reaction

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+ Practical	Total
JVB501	Basics of Computer (Compulsory Paper)	Core Foundation(CF)	4	30	50+20=70	100

**Objective :**

To enable students to be aware of using MS Word, MS PowerPoint, Excel and Internet. Students will be able to do daily work using these tools and able to surf internet, download and send emails easily.

**Outcome :**

1. Students will be able to apply word, excel and powerpoint in their daily work.
2. Students will be able to make use of internet for their study purpose and will be able to create blog to exhibit their talent.

Course Code	Course Title	CourseCategory	Credit	C.I.A. (Continous Internal Assesment)	Theory+ Practical	Total
JVB502	Psychology (General Psychology-I)	Core Elective(CE)	4	30	50+20=70	100

**Objectives:**

1. To understand the concepts of basic Psychological process.
2. To understand the application of psychological concepts in daily routine problems.

**Outcome -**

1. Students will be aware of various Psychological approach and environment which will lead to the development of human behaviour.

## Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 601	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

### Chemistry-Paper-I :Inorganic chemistry

#### Objectives:

- ❖ To develop understanding about metal ligand bonding, metal complexes and organometallic.
- ❖ To aware about the conceptual knowledge of spectral properties and kinetic aspects of metal complexes.
- ❖ To develop conceptual knowledge about selection rules, trans effect and substitution reactions.
- ❖ To give information about spectrochemical series, kinetic stability and bonding application of alkyls and aryls.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the organometallic compounds and metal complexes on the basis of transition, stability and bonding structures.
- ❖ Measure the correlation among structural & kinetic properties of metal complexes.
- ❖ Apply the knowledge of bonding, spectral properties and structures to define basic properties of compounds.
- ❖ Draw and interpret the energy level diagram and spectroscopic series for various states

### Chemistry-Paper-II :Organic Chemistry

#### Objectives:

- ❖ To develop conceptual knowledge about nuclear magnetic resonance, industrial uses and structures of compounds.
- ❖ To aware about classification, nomenclature and properties of carbohydrates, amino acids, fats and detergents.
- ❖ To develop understanding about synthesis, group analysis and industrial uses of fat, oil and detergents.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the various compounds on the basis of structure, stereochemistry and formation process.
- ❖ Describe and discuss about formation, structure and chemical reactions of carbohydrates, peptides and nucleic acids.
- ❖ Apply the knowledge of industrial uses of fats, oils and detergents to produce some useful products.

### Chemistry-Paper-III: Physical chemistry

#### Objectives:

- ❖ To aware about conceptual knowledge of photochemistry, spectroscopy and mechanics.
- ❖ To develop understanding about qualitative and quantitative description of fluorescence, selection rules and isotopes.
- ❖ To develop analytical view about laws of photochemistry, degree of freedom and energy levels.
- ❖ To give information about transfer process, Raman spectrum and atomic orbitals.

#### Course Outcomes: After completion the course student would able to:

- ❖ To measure the calculation of energy levels, coefficients and spectral intensity of compounds.
- ❖ To plot and interpret the bond energy, force constant, potential energy curves of compounds.
- ❖ To describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ To analyze the various structures of compounds on the basis of quantum mechanics.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 602	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics- Paper-I: Mathematical Physics and Special Theory of Relativity – II

#### Objectives:

- ❖ To Understand the Lorentz Transformation.
- ❖ To know the concepts of Four Vector Formulation, longitudinal and Transverse Doppler's Effect.
- ❖ To aware the Transformation between Laboratory and Centre of mass.
- ❖ To develop concept about the Transformation Electric and Magnetic Field.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the Lorentz Transformation.
- ❖ Classify the concepts of Four Vector Formulation, Longitudinal and Transverse Doppler's Effect.
- ❖ Identify the Transformation between Laboratory and Centre of mass.
- ❖ Calculate the Transformation Electric and Magnetic Field.
- ❖ Differentiate longitudinal and transverse Doppler 's effect.

### Physics- Paper-II: Quantum Mechanics – II

#### Objectives:

- ❖ To Know the Bound State Problem-I
- ❖ To Understand the Bound State Problem-II
- ❖ To aware Application of Quantum Theory.
- ❖ To gain knowledge about molecular spectroscopy.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the Bound State Problem-I (Potential Step, Potential Barrier, Square Well Potential) and Tunnel Effect.
- ❖ Classify the Bound State Problem-II (One Dimensional Potential Box, Eigen Value, Eigen Function).
- ❖ Applies Quantum Theory to Atomic Spectroscopy.
- ❖ Identify the Concept of Molecular Spectroscopy.
- ❖ Differentiate vibrational spectra and rotational spectra

### Physics- Paper-III: Nuclear Physics

#### Objectives:

- ❖ To Understand the Concept of Nuclear Properties like Quadrupole Moment, Nuclear Spin, Nuclear Energy, Mass spectroscopy and Theory of Nuclear Forces.
- ❖ To know the Concept of Nuclear Fission.
- ❖ To Aware the Concept of Elementary Particles.
- ❖ To develop knowledge about the Concept of Detector and Accelerator.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the Concept of Nuclear Properties like Quadrupole Moment, Nuclear Spin, Nuclear Energy, Mass spectroscopy and Theory of Nuclear Forces.
- ❖ Classify the Concept of Nuclear Fission.
- ❖ Identify the Concept of Elementary Particles.
- ❖ Applies the Concept of Detector and Accelerator.
- ❖ Differentiate drift tube linear accelerator and wave guide accelerator.

### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 603	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

#### Mathematics- Paper-I :Algebra - II

##### Objectives:

- ❖ To aware the Integral domain and Field.
- ❖ To Understand the Ideals and Quotient Ring.
- ❖ To develop knowledge the Linear Dependence and Linear Independence of Vectors.
- ❖ To know sum of subspaces.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss about integral domain and Field.
- ❖ Identify the Ideals and Quotient Ring.
- ❖ Classify the Linear Dependence and Linear Independence of Vectors.
- ❖ Applies the Sum of Subspace.
- ❖ Discuss about quotient space

#### Mathematics- Paper-II :Complex Analysis -II

##### Objectives:

- ❖ To understand the Power Series.
- ❖ To develop knowledge about the Branch Point.
- ❖ To develop concept about the Conformal Mapping.
- ❖ To give information about cauchy's residue theorem.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Power Series.
- ❖ Identify the Branch Point.
- ❖ Applies Fundamental Theorem of Algebra.
- ❖ Analyze the Conformal Mapping.
- ❖ Discuss on the circle and radius of convergence

#### Mathematics- Paper-III: Statics

##### Objectives:

- ❖ To understand the Resultant and Equilibrium Coplanar Force Acting on a Rigid Body.
- ❖ To know the Friction.
- ❖ To aware the Virtual Work.
- ❖ To develop knowledge about the Common Catenary Force in the 3-D.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Resultant and Equilibrium Coplanar Force Acting on a Rigid Body.
- ❖ Classify about the Friction.
- ❖ Calculate the Virtual Work.
- ❖ Identify the Common Catenary Force in the 3-D.
- ❖ Differentiate friction and virtual work.



Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 604	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany- Paper-I :Reproductive Biology Of Angiosperms

#### Objectives:

- ❖ To know the detailed structure of flower and male gametophyte.
- ❖ To understand the mechanism of distribution of pollen grains.
- ❖ To learn about the structure of pistil and female gametophyte.
- ❖ To get knowledge about the process of pollination and fertilization
- ❖ To study the development of embryo and endosperm

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the detailed structure of flower and male gametophyte.
- ❖ Discuss the mechanism of distribution of pollen grains.
- ❖ Interpret the structure of pistil and female gametophyte.
- ❖ Describe the process of pollination and fertilization
- ❖ Understand the development of embryo and endosperm

### Botany- Paper-II :Economic Botany And Ethnobotany

#### Objectives:

- ❖ To know the origin of cultivated plants
- ❖ To acquire knowledge of food plants, vegetables and fruits.
- ❖ To analyze the spices, oil yielding plants and Beverages.
- ❖ To understand medicinal plants, fibers and woods.
- ❖

To get

aware about ethical aspects of Ethnobotany

**Course Outcomes:** After completion the course student would able to:

- ❖ Get knowledge about the cultivated plants
- ❖ Interpret different food plants, vegetables and fruits.
- ❖ Enhance knowledge about spices, oil yielding plants and Beverages.
- ❖ Comprehend about medicinal plants, fibers and woods.
- ❖ Acquire knowledge about ethical aspects of Ethnobotany

### Botany- Paper-III :ECOLOGY

#### Objectives:

- ❖ To acquire knowledge of community, ecosystem and phytogeography
- ❖ To know about structure, components, food chains, hub, energy flows.
- ❖ To understand about vegetation and environmental pollution
- ❖ To get aware about environmental management
- ❖ To learn about different protocols.

**Course Outcomes:** After completion the course student would able to:

- ❖ Acquire complete knowledge of community, ecosystem and phytogeography
- ❖ Explain the structure, components, food chains and energy flows.
- ❖ Understand about vegetation and environmental pollution
- ❖ Interpret about environmental management
- ❖ Discuss and different protocols.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 605	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I: Evolution and Biostatistics

#### Objectives:

- ❖ To understand the process of evolution.
- ❖ To discuss concept the Lamarkism, Neo-Lamarkism and Darwinism.
- ❖ To classify and draws the Geological time scale.
- ❖ To understand aware the students for Palaentology Fossils and its significance
- ❖ To describe the Biostatistics and Biostatistical Tools.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the process of evolution.
- ❖ Understand the Lamarkism, Darwinism and Neo-Darwinism.
- ❖ Interpret Geological time scale.
- ❖ Explain Palaentology Fossils and its significance
- ❖ Discuss the Biostatistics and Biostatistical Tools

### Zoology-Paper-II : Economic Zoology

#### Objectives:

- ❖ To Understand the Various concepts in Sericulture, Lac culture and Apiculture.
- ❖ To interprets the various concepts in Chemical Control.
- ❖ To Understand aware the students and provides the economical importance of Vermiculture
- ❖ To Understand the Various concepts in Vector borne diseases, Animal husbandry.
- ❖ To classify the economics of aquaculture.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the various concepts in Sericulture, Lac culture and and Apiculture.
- ❖ Understand the various concepts in Chemical Control.
- ❖ Provide the economical importance of Apiculture
- ❖ Understand the various concepts in Vector borne diseases, and Animal husbandry
- ❖ Explain the Economical of aquaculture

### Zoology-Paper-III:Ecology and Environmental Biology

#### Objectives:

- ❖ To differentiate current environmental issues based on Atmosphere.
- ❖ To understand Gain critical understanding on human influence on environment.
- ❖ To understand Positive attitude towards Biodiversity conservation.
- ❖ To describe the various concepts in Pollution.
- ❖ To know the sources, affect and control measures of water and noise pollution.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the current environmental issues based on ecological principles.
- ❖ Gain critical understanding on human influence on environment.
- ❖ Aware about the positive attitude towards Biodiversity conservation.
- ❖ Understand the various concepts in Pollution.
- ❖ Explain the sources, affect and control measures of water and noise pollution.

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB601	PERSONLITY DEVELOPMENT & YOGA (Compulsory Paper)	Core Foundation(CC)	4	30	70	100

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- 1- विद्यार्थियों को व्यक्तित्व के विभिन्न आयामों की जानकारी देना।
- 2- विद्यार्थियों को प्रबन्धन के विभिन्न पहलुओं की जानकारी देना।

मि yfC/k ; k %

- 1- विद्यार्थी व्यक्तित्व के विभिन्न आयामों की जानकारी प्राप्त करेंगे।
- 2- विद्यार्थी को प्रबन्धन के विभिन्न पहलुओं की जानकारी प्राप्त कर सकेंगे।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+Practical	Total
JVB602	Psychology (General Psychology-II)	Core Elective(CE)	4	30	50+20=70	100

#### Objectives:

- To enable students to develop an understanding of general principles of Psychology.
- To understand the concepts of Psychology and This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.
- To understand how psychological can be hundred in terms of various psychological principle.

#### Outcome-

This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.

# Syllabus

**DEPARTMENT OF EDUCATION**  
**Bachelor of Science-Bachelor of Education (B.Sc- B. Ed.)**  
**Four Year Integrated Regular Programme**



"A" Grade by NAAC & "A" Category by MHRD  
**Jain Vishva Bharati Institute**  
(Deemed to be University under section 3 of UGC Act, 1956)  
**Ladnun-341306 (Raj.)**

**2017**

**Price: Rs.**

### **Programme Outcome of B.Sc.-B.Ed. (4 Years Integrated Programme)**

The department of education runs the B.Sc.-B.Ed. programme which is recognized by NCTE, New Delhi since 20015. B.Sc. is Bachelor of Science and it is an undergraduate level degree course in the field of science. It has many different specializations like Zoology, Chemistry, Botany, physics Microbiology, Mathematics, and many more. B.Sc. in PCM Physics, Chemistry Mathematics, and CBZ that are Chemistry, Botany, and Zoology, are a combined course which teaches about all the three subjects in detail. Candidates learn about the science of matter in more specialized manner and learn about its composition, structure, behavior, properties, and the changes it undergoes during any chemical reaction. They also learn about plant biology which includes study about algae, fungi, their growth, reproduction, development, chemical properties, structure, metabolism , etc. as a part of Botany.

The Zoology branch of the course deals with the topics like animal kingdom, their structure, embryology, classification, evolution, etc for both living and extinct animals. Physics: Career Prospects. On successful completion of this course, the candidates are open to working in wide range of employment areas like agriculture research areas, astronomy, aviation industry, colleges, construction firms, cryptography, demolition squads, education firms, hospitals, labs, etc.

Mathematical arguments in a logical manner. and statistics, chosen by the student from the given courses. Understand, formulate and use quantitative models arising in social science, Business and other contexts.

Initially, establishing a study and robust base for scholars in concepts when it comes to the combination of biology and technology manipulation for human benefit. This course consists of implementing the required talent and ability based on sound practical and theoretical expertise that embarks up the development of modern society

## **Programme Specific Outcomes (PSO) of B.Sc.- B.Ed. (4 Years integrated programme)**

1. Professional growth in order to develop and inspire the influence of professional growth.
2. Perceive and identify the analysis and planning of problem solving strategies with the aid of good computation skills.
3. Teaching students to work as a team as it plays an essential role in multidisciplinary dimension.
4. Academic administration to identify and make the scholar ready for new tasks emerging from the development of global society.
5. Developing new and enhancing conversational skills that lead to not only to good communication but also to the excellent drafting abilities linked with technical reports and presentations.
6. Students will develop the basic capability required to evaluate and illustrate basic scientific data.
7. Eventually making the student aware about the skills and qualities indeed required for being a good entrepreneur.
8. Increment in practical knowledge and skills related to the theories of biotechnology subjects.
9. Consciences inspired with legal ethics of professionalism.

### Semester - I

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
EDU 101	Childhood and Growing Up	CC	4	30	70	100

#### Objectives:

- ❖ Teacher trainees can aware about concept, methods & applications of Educational Psychology.
- ❖ To aware the trainees about concept and developmental dimensions of childhood.
- ❖ Trainees got informed about imagination, creativity & interests at school level.
- ❖ To know the related problems of Adolescence & remedies through Guidance & Counselling services.
- ❖ To aware about the process of human development
- ❖ To build sensitivity towards childrens' needs and capabilities within their socio-cultural context

#### Course Outcomes: After completion of this course students would able to:

- ❖ Utilize the knowledge of Educational Psychology for school education.
- ❖ Apply the concept of Growth & Development in teaching field.
- ❖ Plan various activities to fostering imagination, creativity & interests at school level.
- ❖ Know about various aspects related to Cognitive, Emotional & Social development of learner.
- ❖ Diagnose related problems of Adolescence & remedies through Guidance & Counselling services

### Semester-I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 101	Chemistry-I	Any Three CC	4	15	20	100
	Chemistry-II				20	
	Chemistry-III				20	
	Chemistry Practical				25 Practical	

### Chemistry- Paper I: Inorganic Chemistry

#### Objectives:

- ❖ To understand about shape of s,p,d,f orbitals and atomic structure.
- ❖ To develop critical understanding about comparative study of different elements on the basis of periodicity .
- ❖ To promote awareness about principles related to atomic structure and chemical bonding.
- ❖ To know about molecular orbital theory of homo and heteronuclear compounds.

#### Course Outcomes: After completion the course student would able to:

- ❖ Explain the principles related to atomic structure, periodicity & chemical bonding.
- ❖ Plot and interpret probability distribution curves, electronic configuration, shapes of molecules and bonding structures.
- ❖ Identifies the relationship among periodicity of various elements and properties of chemical bonding.
- ❖ Classify the elements on the basis of atomic structure, periodicity and their basic properties.

## Chemistry- Paper-II: Organic Chemistry

### Objectives:

- ❖ To understand about reaction mechanism of organic compounds.
- ❖ To aware about different types of chemical reactions.
- ❖ To provide information about nomenclature of alkane and cycloalkane .
- ❖ To know about synthesis of alkenes and cycloalkenes .
- ❖ To acquaint about nomenclature and classification of Dienes and alkynes.

### Course Outcomes: After completion the course student would able to:

- ❖ Explain about reaction mechanism of organic compound.
- ❖ Know about synthesis of alkane and cycloalkanes .
- ❖ Classify various derivatives on the basis of isomerism, rules of reactivity and theories.
- ❖ Apply the mechanism of chemical reaction for explaining chemical bonding, nomenclature of various compounds.

## Chemistry-Paper-III: Physical Chemistry

### Objectives:

- ❖ To develop curiosity about mathematical concept and use of computer .
- ❖ To provide information about various laws and their implications .
- ❖ To aware about different states, Vander Waals equation and their derivations.
- ❖ To understand about liquid stage and classification of liquid crystals.

### Course Outcomes: After completion the course student would able to:

- ❖ Plot and interpret various graphs, probability curves and structures of gaseous and liquid states.
- ❖ Explain logarithmic relations, root mean square and laws of corresponding liquid and gaseous states.
- ❖ Measure and calculate the differentiations of functions, collision number and probability to define various behavior of different states.

### Semester-I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 102	Physics-I	CE*	4	15	20	100
	Physics-II				20	
	Physics-III				20	
	Physics Practical				25 Practical	

### Physics-Paper-I Mechanics-I

### Objectives:

- ❖ To understand the physical laws and frames of reference.
- ❖ To aware the concept of special theory of relativity.
- ❖ To develop knowledge about conservation law.
- ❖ To give information about rigid body dynamics.

### Course Outcomes: On completion of the course students would able to:

- ❖ Applies relative motion Property.
- ❖ Discuss on the Parameters defining the motion of mechanical systems.
- ❖ Classify the interaction of forces between solids in mechanical systems.
- ❖ Describe the rigid body dynamics.
- ❖ Calculate the moment of inertia about symmetric axis & CM.



### Physics-Paper-II: Mechanics-II

**Objectives:**

- ❖ To understand the centre of mass frame.
- ❖ To aware the concept of motion under central forces.
- ❖ To develop knowledge about elasticity-I .
- ❖ To give information about elasticity-II and its examples.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe center of mass.
- ❖ Applies the vector theorems of mechanics.
- ❖ Classify the analytical mechanics.
- ❖ Use of theory of bending of beam & cantilever to determine the deformation. Differentiating various elastic coefficients.

### Physics-Paper-III: Electromagnetism-I

**Objectives:**

- ❖ To understand the vector field and vector theory.
- ❖ To aware the concept of curl and the field of stationary charge.
- ❖ To develop knowledge about the field of moving charge.
- ❖ To give information about the magnetic field.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the basic mathematical concepts related to electromagnetic vector fields.
- ❖ Discuss about the principles of electrostatics.
- ❖ Applies the principles of magneto statics.
- ❖ Differentiation between electric field and electric potential.
- ❖ Calculate boundary conditions.

#### Semester-I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 103	Mathematics-I	CE*	4	15	20	100
	Mathematics-II				20	
	Mathematics-III				20	
	Mathematics Practical				25 Practical	

### Mathematics-Paper-I: Discrete Mathematics-I

**Objectives:**

- ❖ Discuss about the set, Relation and function-Binary Relation.
- ❖ To aware about the Boolean Algebra- Lattices and Algebraic Structure.
- ❖ Understand the Logic and Propositional Calculation.
- ❖ To discuss about duality.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the terms set, Relation and function-Binary Relation.
- ❖ Interpret the Boolean Algebra- Lattices and Algebraic Structure.
- ❖ Solve the Fundamental Theorem of Arithmetic, Euler's Function.
- ❖ Calculate the Logic Problem.
- ❖ Describe the duality property.

## Mathematics -Paper-II: Differential Calculus

### Objectives:

- ❖ To understand the series and type of series.
- ❖ To aware the concept of curvature.
- ❖ To develop knowledge about the partial differentiation.
- ❖ To give information about the conic section.

**Course Outcomes:** After completion the course student would able to:

- ❖ Identify the Test of convergence of a series.
- ❖ Calculate the Derivative of the Length of an Arc, Pedal Equation.
- ❖ Classify the Partial Differentiation.
- ❖ Use of theory of Envelopes and Evaluate Maxima & Minima of Functions of Two Variables.
- ❖ Calculate the Euler Theorem for Homogeneous Functions.

## Mathematics -Paper-III: Analytic Geometry-I

### Objectives:

- ❖ To understand the polar equation of conics.
- ❖ To aware the concept of circle of conics.
- ❖ To develop knowledge about the sphere and cone.
- ❖ To give information about the cylinder.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Concept of Polar Equation of Conics.
- ❖ To understand the 2-D & 3-D Geometry of Sphere and Cone.
- ❖ To identify the Polar Equation of Tangent.
- ❖ To understand the 2-D & 3-D Geometry of cylinder

### Semester-I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 104	Botany-I	CE*	4	15	20	100
	Botany-II				20	
	Botany-III				20	
	Botany Practical				25 Practical	

## Botany -Paper-I : MICROBIOLOGY

### Objectives:

- ❖ To learn about the history, discovery, concept and applications of microbiology.
- ❖ To understand the ultra structures and classification of bacteria
- ❖ To know the structural component, cycle of life, reproduction of viruses with their diseases.
- ❖ To comprehend the basic concept of food spoilage and food preservation
- ❖ To aware the economic importance of bacteria and viruses

**Course Outcomes:** After completion the course student would able to

- ❖ Understand the ultra structures and classification of bacteria
- ❖ Describe the structural component, cycle of life, reproduction of viruses with their diseases.
- ❖ Discuss the history, discovery, concept and applications of microbiology.
- ❖ Comprehend the basic concept of food spoilage and food preservation
- ❖ Explain the economic importance of bacteria and viruses

## Botany -Paper-II : ALGAE AND LICHENS

### Objectives:

- ❖ To know the characteristics, structure, habitat, types and evolution of algae
- ❖ To understand various aspects of photosynthetic pigments with special reference to chlorophyll and xanthophylls.
- ❖ To learn about the characteristics with reference of examples of phaeophyceae and Rhodophyceae
- ❖ To get aware the economic importance of algae
- ❖ To get knowledge about the life cycle and economic importance of lichens.

### Course Outcomes: After completion the course student would able to:

- ❖ Describe various aspects of photosynthetic pigments with special reference to chlorophyll and xanthophylls.
- ❖ Differentiate the characteristics of phaeophyceae and Rhodophyceae
- ❖ Explain characteristics, structure, habitat, types and evolution of algae
- ❖ Interpret the economic importance of algae
- ❖ Comprehend the life cycle and importance of lichens.

## Botany -Paper-III: Mycology and Plant Pathology

### Objectives:

- ❖ To understand general characteristics, classification, structure, reproduction of fungi.
- ❖ To learn about general diseases caused by fungi, bacteria, viruses in plants
- ❖ To know general characteristics of oomycetes, zygomycetes
- ❖ To gain knowledge about other classes i.e. ascomycetes, basidiomycetes and deuteromycetes with examples.
- ❖ To understand the general characteristics of deuteromycetes

### Course Outcomes: After completion the course student would able to:

- ❖ Understand general characteristics, classification, structure, reproduction of fungi.
- ❖ Discuss general characteristics of oomycetes, zygomycetes
- ❖ Get knowledge about other classes i.e. ascomycetes, basidiomycetes and deuteromycetes .
- ❖ Learn about general diseases caused by fungi, bacteria, viruses in plants
- ❖ Classify the division Fungi.

## Semester-I

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 105	Zoology-I	CE*	4	15	20	100
	Zoology-II				20	
	Zoology-III				20	
	Zoology Practical				25 Practical	

## Zoology-Paper I: Life and Diversity of Animals (Non Chordates-I)

### Objectives:

- ❖ To discuss the animal kingdom.
- ❖ To understand the general characteristics and Classification of Phylum protozoa.
- ❖ To develop the general characteristics and Classification of Phylum porifera.
- ❖ To understand the general characteristics and Classification of Phylum platy helminthes
- ❖ To understand the external features and life cycle of fasciola.

**Course Outcomes:** After completion the course student would be able to:

- ❖ Understand general taxonomic rules on animal classification, the principles and methods of taxonomy, the Levels of structural organization and the Basis of Classification -Coelom, symmetry, segmentation and its types.
- ❖ Classify the phylum Protozoa, Porifera & Coelenterata using examples, Understand the Locomotion in Protozoa, canal system of sponges, Coral and coral reefs & economical importance of Protozoa, Porifera.
- ❖ Clarify the external features and life cycle of Fasciola.
- ❖ Discuss the sycon canal system of sponges skeletal system.
- ❖ Describe salient features & classification of coelenterate up to class.

### **Zoology-Paper II: Life and Diversity of Animals (Non Chordates-II)**

**Objectives:**

- ❖ To discuss the general characteristics and Classification of Phylum Annelida .
- ❖ To understand the general characteristics and Classification of Phylum Arthropod.
- ❖ To understand the general characteristics and Classification of Phylum Echinodermata.
- ❖ To understand the general characteristics and Classification of Phylum Hemichordate.
- ❖ To classify the general characteristics and classification of Phylum Mollusca.

**Course Outcomes:** After completion the course student would be able to:

- ❖ Classify Phylum Annelida with taxonomic keys, and a basic idea of parasitic adaptations.
- ❖ Write down the classification and characteristics of Phylum Arthropoda,
- ❖ Write down the classification and characteristics of Phylum Mollusca Echinodermata & Hemichordata and Understand the process of pearl formation and water vascular system of star fish.
- ❖ Describe in detail the reproductive system of Leech.
- ❖ Classify in salient features of planarians

### **Zoology-Paper –III: Cell Biology**

**Objectives**

- ❖ To understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles
- ❖ To understand how these cellular components are used to generate and utilize energy in cells
- ❖ To understand the cellular components underlying mitotic cell division.
- ❖ To develop the structure and function of mitochondria
- ❖ To identify the lysosome structure polymorphism and function

**Course Outcomes:** After completion the course student would be able to:

- ❖ Develop an understanding of the cytoskeleton and cell membrane
- ❖ The cell cycle, structure of mitochondria and types of cell divisions.
- ❖ Students are able to discuss the cell, structure of ribosome, lysosome and golgi complex.
- ❖ Students are able to discuss the endoplasmic reticulum structure .
- ❖ Students are able to classify in structure and function of mitochondria

**Semester-I**

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
JVB101	Introduction to Jainism	FC	4	30	70	100

**Objectives:**

- ❖ To understanding about Jain Ethics & Conduct.
- ❖ To acquire knowledge of Jain way of life.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understanding about Jain Ethics & Conduct.
- ❖ Acquire knowledge of Jain way of life.

**Semester - II**

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
EDU 201	Assessment for Learning	CC	4	30	70	100

**Objectives:**

- ❖ To describe the role of assessment in education.
- ❖ To distinguish among measurement, assessment and evaluation.
- ❖ To explain different forms of assessment that aid student learning.
- ❖ To use wide range of assessment tools, techniques and construct these appropriately.
- ❖ To evolve realistic, comprehensive and dynamic assessment procedures.
- ❖ To calculate item difficulty and discrimination power of a test item.
- ❖ To prepare a good achievement test on any school subject.
- ❖ To realize the importance of continuous and comprehensive evaluation in the process of students learning.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Describe the role of assessment in education.
- ❖ Distinguish measurement, assessment and evaluation.
- ❖ Explain different forms of assessment that aid student learning.
- ❖ Use wide range of assessment tools, techniques and construct these appropriately.
- ❖ Evolve realistic, comprehensive and dynamic assessment procedures.
- ❖ Calculate item difficulty and discrimination power of a test item.
- ❖ Prepare a good achievement test on any school subject.
- ❖ Realize the importance of continuous and comprehensive evaluation in the process of students learning.

**Semester-II**

Course Code	Course Title	Course Category	Credit	CIA	Theory	Total
EDU 202	Learning and Teaching	CC	4	30	70	100

**Objectives:**

- ❖ To acquire the basic knowledge of learning and Teaching.
- ❖ To understand the implications of education.
- ❖ To develop various methods of teaching.
- ❖ To understand the various application of education.

**Course Outcomes:** After completion of this course students would be able to:

- ❖ Acquire knowledge and understanding of learning and Teaching.
- ❖ Understand the theories of learning.
- ❖ Develop the skill of active engagement of students in teaching learning activity.
- ❖ Investigate differences and connections between learning in school and learning outside school.
- ❖ Inculcate the knowledge of teaching and its process.
- ❖ Understand learners, learning process and school.

**Semester-II**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 201</b>	Chemistry-I	<b>Any Three CC</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Chemistry-II				<b>20</b>	
	Chemistry-III				<b>20</b>	
	Chemistry Practical				<b>25Practical</b>	

**Chemistry- Paper I: Inorganic Chemistry**

**Objectives:**

- ❖ To give knowledge about the mathematical concepts of ionic solid structure and packing.
- ❖ To aware about metallic bond and weak interactions among molecules.
- ❖ To provide information about various properties of s & p-block elements and their correlations.
- ❖ To develop their concept about structural principles of silicates and their applications.

**Course Outcomes:** After completion the course student would be able to:

- ❖ Explain the mathematical concepts of ionic solid structure and packing.
- ❖ Plot and interpret shapes of ions and bonding structures.

- ❖ Identifies the relationship among properties of metals on the basis of various theories of bonding.
- ❖ Classify the s & p block elements like hydrides and halogens on the basis of atomic structure, periodicity and their basic properties.

### Chemistry- Paper II: Organic Chemistry

#### Objectives:

- ❖ To understand isomerism in organic compounds
- ❖ To develop their knowledge about geometric isomerism, aromaticity and halogen compounds.
- ❖ To aware them about nomenclature, mechanism and application of organic compounds.
- ❖ To develop conceptual knowledge about various principles related to geometrical structure, reactions and configuration of various compounds.

#### Course Outcomes: After completion the course student would able to:

- ❖ Explain about elements of symmetry, profile and methods of formation of organic compounds.
- ❖ Apply various mechanism rules to define chain reactions, configuration and formation of arenes, halogen compounds.
- ❖ Classify various derivatives on the basis of isomerism, configuration and energy profile.
- ❖ Describe various rules and reactions about stereochemistry, aromaticity and orientation related to chemical compounds.

### Chemistry-Paper III: Physical Chemistry

#### Objectives:

- ❖ To develop curiosity about laws of crystallography and chemical kinetics. .
- ❖ To provide information about derivation of equations, order and preparation of energy profile .
- ❖ To aware about the scope, factors and theories of chemical kinetics.
- ❖ To give information about colloidal state, their preparation and determinants.

#### Course Outcomes: After completion the course student would able to:

- ❖ Draw and interpret symmetries and structures of crystals and colloids.
- ❖ Compare among various forms of crystals, order and transition state of compounds.
- ❖ Measure and calculate the mathematical characteristics simple chemical reactions and determinants.

Semester-II						
Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 202	Physics-I	CE*	4	15	20	100
	Physics-II				20	
	Physics-III				20	
	Physics Practical				25Practical	

### SEM-II

#### Physics-Paper-I: Electromagnetism-II

#### Objectives:

- ❖ To aware about the of concepts related to Faraday's law, induced emf.
- ❖ To give information about Maxwell's equations to solutions of problems relating to transmission lines.
- ❖ To develop knowledge about the transient behavior of R-C circuit.
- ❖ To aware about the transient behavior of R-L circuit.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the concepts related to Faraday's law, induced emf, maxwell's equations, transit behavior, electric field in matter, atomic & molecular dipoles.
- ❖ Applies Maxwell's equations to solutions of problems relating to transmission lines, uniform plane wave propagation, magnetic field in matter.
- ❖ Understand the transient behavior of R-C circuit & L-R circuit.
- ❖ Classify the moment of a charge distribution.
- ❖ Discuss on the magnetic susceptibility and free current.

### **Physics-Paper-II: Oscillations and waves-I**

**Objectives:**

- ❖ To aware about the concepts of mechanics,
- ❖ To give information about physical characteristics of SHM
- ❖ To calculate logarithmic decrement relaxation factor and quality factor.
- ❖ To aware acoustics and the properties of matter.
- ❖ To develop knowledge about obtaining solution of the oscillator.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the simple harmonic motion and its equation.
- ❖ Differentiate between damped oscillator and driven oscillator.
- ❖ Interpret the term frequency response and phase relation.
- ❖ Applies the concept of Ballistic galvanometer.
- ❖ Identify the coupled oscillator and some electrically coupled oscillators.

### **Physics-Paper-III: Oscillations and Waves -II**

**Objectives:**

- ❖ To aware about the concepts of lattice dynamics.
- ❖ To give information about electric transmission line.
- ❖ To calculate the wave equation and analysis the fourier series.
- ❖ To aware about the electromagnetic wave.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the group and phase velocities.
- ❖ Differentiate between 1-D mono atomic & diatomic lattice.
- ❖ Interpret the term propagation velocity and losses.
- ❖ Applies the concept of transverse wave in the string.
- ❖ Identify the spectrum of electromagnetic radiation.

#### **Semester-II**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 203	Mathematics-I	CE*	4	15	20	100
	Mathematics-II				20	
	Mathematics-III				20	



	Mathematics Practical				25 Practical	
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### Mathematics-Paper-I: Discrete Mathematics-II

#### Objectives:

- ❖ To aware the Particular Solutions of Generating Function.
- ❖ To give information about the Graph.
- ❖ To Interpret the Eulerian and Hamiltonian Graphs.
- ❖ To give information about Trees.

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies the Particular Solutions of Generating Function.
- ❖ Discuss about the Weighted Graph, Shortest Paths.
- ❖ Plot Eulerian and Hamiltonian Graphs.
- ❖ Discuss about the Trees Properties.
- ❖ Calculate the homogeneous solutions.

### Mathematics--Paper-II: Integral Calculus

#### Objectives:

- ❖ To develop knowledge about the concepts Beta and Gamma Function.
- ❖ To aware the Concept of Double Integrals in Cartesian and Polar Co-ordinates.
- ❖ Calculate Areas and Rectification.
- ❖ To give information about the Volumes and Surfaces of Solids of Revolution.

#### Course Outcomes: After completion the course student would able to:

- ❖ Calculate the concepts Beta and Gamma Function.
- ❖ Calculate of Double Integrals in Cartesian and Polar Co-ordinates.
- ❖ Calculate Areas and Rectification.
- ❖ Discuss the volumes and Surfaces of Solids of Revolution.
- ❖ Calculate the dirichlet's integral.

### Mathematics--Paper-III: Analytic Geometry-II

#### Objectives:

- ❖ To give information about the Central Conicoids.
- ❖ To aware tangent line and tangent plans.
- ❖ To develop concept generating Lines of Hyperboloid of One Sheet and its Properties.
- ❖ To give information about of a General Equation of Second g degree in 3-D to Standard Forms.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the Central Conicoids.
- ❖ Discuss the Generating Lines of Hyperboloid of One Sheet and its Properties.
- ❖ Reduction of a General Equation of Second Degree in 3-D to Standard Forms.
- ❖ Discuss the tangent lines and tangent plans.

#### Semester-II

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Total
BSE 204	Botany-I	CE*	4	15	20	100
	Botany-II				20	
	Botany-III				20	
	Botany Practical				25Practical	

## Botany-Paper-I: CELL BIOLOGY

### Objectives:

- ❖ To distinguish between structure of cell, cell wall and plasma membrane.
- ❖ To understand the concept of cell organelles with their detailed information.
- ❖ To know the ultra structure of Nucleus and chromosome.
- ❖ To compare the different stages of cell division (mitosis and meiosis).
- ❖ To comprehend the structure and composition of chromosomes.

**Course Outcomes:** After completion the course student would able to:

- ❖ Know the ultra structure of Nucleus and chromosome.
- ❖ Distinguish between structure of cell, cell wall and plasma membrane.
- ❖ Understand the concept of cell organelles with their detailed information.
- ❖ Know the different stages of cell division (mitosis and meiosis).
- ❖ Discuss the structure and composition of chromosomes.

## Botany-Paper-II :GENETICS AND PLANT BREEDING

### Objectives:

- ❖ To know the concept of genetic inheritance
- ❖ To study the laws of Mendel
- ❖ To understand the chromosomal theory of inheritance.
- ❖ To learn about the concept of cytoplasmic inheritance.
- ❖ To understand different methods of plant breeding.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the concept of genetic inheritance
- ❖ Study the laws of Mendel
- ❖ Interpret the chromosomal theory of inheritance.
- ❖ Explain the concept of cytoplasmic inheritance.
- ❖ Discuss different methods of plant breeding.

## Botany-Paper-III :BRYOPHYTA

### Objectives:

- ❖ To acquire knowledge on bryophytes with its classification, habitat and life cycle.
- ❖ To understand habitat, structure, reproduction with life cycle of Riccia and Marchantia.
- ❖ To learn about class anthocerotopsida.
- ❖ To know about the life cycle of funeria.
- ❖ To apply the knowledge of bryophyta in daily life.

**Course Outcomes:** After completion the course student would able to:

- ❖ Acquire knowledge on bryophytes with its classification, habitat and cycle.
- ❖ Understand habitat, structure, reproduction with life cycles of Riccia and Marchantia.
- ❖ Describe the class anthocerotopsida.
- ❖ Explain the concept of life cycle of funeria.
- ❖ Interpret the importance of bryophyte.

### Semester-II

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
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<b>BSE 205</b>	Zoology-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Zoology-II				<b>20</b>	
	Zoology-III				<b>20</b>	
	Zoology Practical				<b>25</b> Practical	

### **Zoology-Paper- I: Developmental Biology**

#### **Objectives**

- ❖ To describe how organisms maintain gametic population.
- ❖ To understand fertilization process.
- ❖ To understand way of cleavage and different patterns to form zygote.
- ❖ To understand the fundamental embryonic development.
- ❖ To understand the complete process of formation of germ layers.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the process of: Gametogenesis, Fertilization and early development, Parthenogenesis
- ❖ Understand the concept of embryonic induction: primary organizer and competence, Developmental stages of chick (upto 96 hours).
- ❖ Discuss for the extra embryonic membranes.
- ❖ Discuss for the placenta
- ❖ Describe of stem cell

### **Zoology-Paper II: Genetics**

#### **Objectives**

- ❖ To describe how the behavior of chromosomes during meiosis can explain Mendel's law.
- ❖ To understand how inheritance patterns are affected by position on chromosomes.
- ❖ To understand the similarities and differences between how genetic information is passed on in prokaryotes and eukaryotes.
- ❖ To understand gene interactions.
- ❖ To classify the sex determination in human.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the Mendelism & Multiple allelism.
- ❖ Understand the concept of gene & gene interaction, and Sex- linked Inheritance.
- ❖ Describe the Blood Group, RH Factor .
- ❖ Interpret the terms Chromosome , Thalassemia, Sickle cell anemia
- ❖ Describe in sex determination in human

### **Zoology-Paper -III: Molecular Biology**

#### **Objectives**

- ❖ To Understand about the genetic material (Nucleic acids) and DNA replication.
- ❖ To Understand about various types of RNA and process of Transcription & Translation.
- ❖ To describe the Genetic Code, and protein synthesis.
- ❖ 4.To classify the bacterial DNA structure
- ❖ To describe the nucleolus structure and function

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand about the genetic material (Nucleic acids) and DNA replication.
- ❖ Interpret about various types of RNA and process of Transcription & Translation.

- ❖ Understand the Genetic Code, and protein synthesis.
- ❖ Describe the bacterial DNA structure
- ❖ Discuss the nucleolus structure and function

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 301	Chemistry-I	Any Three CC	4	15	20	100
	Chemistry-II				20	
	Chemistry-III				20	
	Chemistry Practical				25 Practical	

### Chemistry-Paper-I: Inorganic Chemistry

#### Objectives:

- ❖ To develop the conceptual knowledge of acid and bases.
- ❖ To aware about the classification of acids, non aqueous solvents and separation methods.
- ❖ To give information about various characteristics & laws related to hard and soft acid and bases.
- ❖ To acquaint the knowledge of principles and purifying process for various solvents.

**Course Outcomes:** After completion the course student would able to:

- ❖ Differentiate between the various types of acid and bases.
- ❖ Describe the rules and principles related to explain the properties of non aqueous solvents.
- ❖ Apply the rules of separation and purification to extract various impurities.
- ❖ Explain the general characteristics and types of solvents.

### Chemistry-Paper-II: Organic Chemistry

#### Objectives:

- ❖ To develop knowledge about classification & nomenclature of organic compounds.
- ❖ To aware about the chemical reactions, mechanism and properties of alcohol & ethers.
- ❖ To develop understanding the proper use of various laws related to synthesis and catalyzing process.
- ❖ To explain the various reactions on the basis of their mechanism.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the various organic compounds on the basis of mechanism and structure.
- ❖ Apply the knowledge of processing derivatives for synthesize various products.
- ❖ Describe and discuss about technical terminology related to alcohols, ketones & ethers etc.
- ❖ Explain different methods of formation according to chemical reactions.

### Chemistry-Paper-III: Physical Chemistry

#### Objectives:

- ❖ To develop the knowledge about laws of thermodynamics, electrochemistry & equilibrium.
- ❖ To aware about the behavior of ideal gases, enthalpy and process of dissociation.
- ❖ To describe the relationship pressure and heat, conductivity & electrolytes etc.
- ❖ To develop understanding about the thermodynamics process and chemical equilibrium.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate and measure equivalent conductance, bond energy and thermo chemical data.
- ❖ Differentiate among intensive and extensive properties of system according to thermodynamics.
- ❖ Plot and interpret graph, equations and interrelationship related to volume, pressure and heat energy.
- ❖ Describe various phenomenon of thermodynamics, thermochemistry and electrochemistry.

- ❖ Measure thermo chemical data, enthalpy, solubility and equilibrium constant etc.

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 302	Physics-I	CE*	4	15	20	100
	Physics-II				20	
	Physics-III				20	
	Physics Practical				25 Practical	

### Physics-Paper-I: Statistical and Thermodynamical Physics -I

#### Objectives:

- ❖ To aware general thermo-dynamical interaction.
- ❖ To develop concept about carnot's engine and Maxwell relation.
- ❖ 3 To apply the concepts production of low temperature.
- ❖ 4. To apply the concepts of low temperature.

**Course Outcomes:** After completion the course student would able to:

- ❖ Identify and describe the statistical nature of concepts and laws in thermodynamics, in particular: entropy, temperature, chemical potential, Free energies, partition functions.
- ❖ Use the statistical physics methods, such as Boltzmann distribution, Gibbs distribution, Fermi-Dirac and Bose-Einstein distributions to solve problems in some physical systems.
- ❖ Apply the concepts and principles of black-body radiation to analyze radiation phenomena in thermodynamic systems.
- ❖ Apply the concepts and laws of thermodynamics to solve problems in thermodynamic systems such as gases, heat engines and refrigerators etc.

### Physics-Paper-II: Optics -I

#### Objective

- ❖ To give information about geometrical optics.
- ❖ To aware about the lenses and these properties.
- ❖ To develop concept about the interference.
- ❖ To give information about polarization and types of polarization.

**Course Outcomes:** After completion the course student would able to:

- ❖ Gain knowledge on various theories of light
- ❖ Acquire skills to identify and apply formulas of optics and wave physics
- ❖ Classify the properties of light like reflection, refraction, interference, diffraction etc
- ❖ Applies the diffraction and polarization.
- ❖ Classify the theory of double refraction.

### Physics-Paper-III: Electronics and Solid state devices-I

#### Objectives:

- ❖ To give information about circuit analysis.
- ❖ To aware about the network theorems.
- ❖ To develop concept about the semiconductor.
- ❖ To give information about rectifiers and voltage regulation.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies the kirchhoff's law (first and second) and circuit analysis.

- ❖ Calculate the network theorem (superposition, thevenin, reciprocity, compensation, maximum power transfer and miller theorems).
- ❖ Discuss the concept of the semiconductor, type of semiconductor, zener diode and hall effect.
- ❖ Identify the concept of rectifiers, voltage regulation, various type of filter.
- ❖ Calculation of ripple factor, efficiency and regulation.

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 303</b>	Mathematics-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Mathematics-II				<b>20</b>	
	Mathematics-III				<b>20</b>	
	Mathematics Practical				<b>25</b> Practical	

### Mathematics-Paper-I: Real Analysis

#### Objectives:

- ❖ To aware the Real Numbers as Complete Ordered Field, Closed & opened Sets.
- ❖ To gain knowledge about the Cauchy's Sequences, Subsequences.
- ❖ To develop knowledge about the Notion of Limit & Continuity for Functions of Two Variables.
- ❖ To develop concept about the properties of continuous function on close intervals.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies the Real Numbers as Complete Ordered Field, Closed & opened Sets.
- ❖ Calculate the Cauchy's Sequences, Subsequences.
- ❖ Discuss the Properties of Continuous Functions on Closed Intervals.
- ❖ Classify the Notion of Limit & Continuity for Functions of Two Variables.
- ❖ Interprets the fundamental theorem.

### Mathematics -Paper-II: Differential Equations-I

#### Objectives

- ❖ To give information about Degree & Order of a Differential Equation.
- ❖ To aware Linear Equation & Exact Differential Equation.
- ❖ To develop concept of the 1<sup>st</sup> Order but Higher Degree Differential Equation Solve for x,y &p.
- ❖ To develop knowledge about the Homogeneous Linear Differential Equations.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate Degree & Order of a Differential Equation.
- ❖ Differentiate between Linear Equation & Exact Differential Equation.
- ❖ Calculate the 1<sup>st</sup> Order but Higher Degree Differential Equation Solve for x,y &p.
- ❖ Discuss on the Homogeneous Linear Differential Equations.
- ❖ Discuss on the linear differential equation constant coefficients.

### Mathematics -Paper-III: Numerical Analysis

#### Objectives:

- ❖ To aware Relation b/w Differences and Derivatives .
- ❖ To Understand the Divided Differences by Newton's .
- ❖ To give knowledge about the Stirling's and Bessel's Interpolation Formulae.
- ❖ To develop concept of Numerical Integration .

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate Relation b/w Differences and Derivatives .
- ❖ Discuss on the Divided Differences by Newton's .
- ❖ Applies the Stirling's and Bessel's Interpolation Formulae.
- ❖ Identify the concept of Numerical Integration.
- ❖ Applies the trapezoidal rule.

#### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 304</b>	Botany-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Botany-II				<b>20</b>	
	Botany-III				<b>20</b>	
	Botany Practical				<b>25</b> Practical	

#### Botany-Paper-I :Molecular Biology

**Objectives:**

- ❖ To know the concept of genetic material
- ❖ To understand the structure of DNA with its model
- ❖ To get knowledge about the concept, types and process of DNA replication
- ❖ To understand the concept of transcription and Translation
- ❖ To learn about the regulation of gene expression

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the concept of genetic material
- ❖ Understand the structure of DNA with its model
- ❖ Describe the concept, types and process of DNA replication
- ❖ Differentiate the transcription and Translation
- ❖ Interpret the regulation of gene expression

#### Botany-Paper-II :Biotechnology

**Objectives:**

- ❖ To know the whole concept of Biotechnology
- ❖ To distinguish between morphogenesis and micro propagation
- ❖ To aware about the mechanism of plant tissue culture.
- ❖ To learn about the isolation, culture and somatic cell hybridization
- ❖ To acquire knowledge about recombinant DNA technology and PCR technique.
- ❖ To understand the introduction, process of transgenic plants.

**Course Outcomes:** After completion the course student would able to:

- ❖ Comprehend the concept of Biotechnology
- ❖ Distinguish between morphogenesis and micro propagation
- ❖ Describe the role of plant tissue culture.
- ❖ Explain the isolation, culture and somatic cell hybridization
- ❖ Acquire knowledge about recombinant DNA technology and PCR technique.
- ❖ Interpret the transgenic plants.

#### Botany-Paper-III :Plant Physiology I

**Objectives:**

- ❖ To understand structure, properties, components and phenomenon of water

- ❖ To know about different theories related to water absorption.
- ❖ To learn about Nitrogen and phosphorous cycle
- ❖ To get knowledge about concept and process of photosynthesis and respiration.
- ❖ To distinguish Aerobic and anaerobic pathways

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand structure, properties, components and phenomenon of water
- ❖ C out different theories related to water absorption.
- ❖ Explain the Nitrogen and phosphorous cycle
- ❖ Get knowledge about concept and process of photosynthesis and respiration
- ❖ Distinguish Aerobic and anaerobic pathways

#### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 305	Zoology-I	CE*	4	15	20	100
	Zoology-II				20	
	Zoology-III				20	
	Zoology Practical				25 Practical	

#### Zoology-Paper- I: Life and Diversity of animals (Chordates-I)

**Objectives:**

- ❖ To explain what the vertebrates are.
- ❖ To understand the general characters of each class of vertebrates.
- ❖ To understand the origin and evolutionary relationship in different classes of vertebrates.
- ❖ To understand the classification of pisces
- ❖ To develop the general characters and classification in Amphibia

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss and study the classification of Protochordata, Ascidia & Amphioxus
- ❖ Understand the classification of Agnatha & Gnathostomata, Characters of Petromyzon, Ammocoet larva, .
- ❖ Learn about the classification of Pisces, and basics of pisciculture, Scales, Fins, migration in fishes.
- ❖ Understand the classification of Amphibia, Reptilia, and the General Topics like Adaptive radiation in Amphibian, Neoteny, Parental care in Amphibians,
- ❖ Understand the classification of Aves, Mammals and the General Topics like perching mechanism, flight adaptation, migration and feathers in birds and adaptation, hair and dentition in Mammals.

#### Zoology-Paper- II: Microbiology and Parasitology

**Objectives:**

- ❖ To understand the classification Microorganisms.
- ❖ To Understand and study the Bactria.
- ❖ To Understand the Parasite Protozoan's.
- ❖ To Understand the Virus, Hepatitis and HIV.
- ❖ To explain the morphology of bacteria

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies the classification Microorganisms.
- ❖ Understand and study the Bactria.
- ❖ Explain the Parasite Protozoans.



- ❖ Classify the Virus, Hepatitis and HIV.
- ❖ Interprets the plasmodium, trypanosome, leishmania.

### Zoology-Paper- III: Physiology-I

**Objectives:**

- ❖ To develop the metabolic activities in mammalian body.
- ❖ To understand the various Biomolecules in body.
- ❖ To understand the structural chemistry of proteins, carbohydrates, fats.
- ❖ To understand the functions of Biomolecules in body Secretion.
- ❖ To explain the process of digestion.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the Physiology of Digestion & Respiration.
- ❖ Discuss the Physiology of Circulation & nerve impulse and Reflex Action.
- ❖ Understand the Physiology of Excretion
- ❖ Describe in nitrogenous waste products.
- ❖ Interprets in hormonal control of renal function

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>EDU 301</b>	Understanding a Discipline and Subject	Any one <b>CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>
<b>EDU 302</b>	Innovative Methods					

#### EDU 301 : Understanding a Discipline and Subject

**Objectives:**

- ❖ To make aware the students about the disciplines and its characteristics.
- ❖ To give Introduction of Kalidas, Tulsidas and Shakespeare
- ❖ To understand the scientific idea of science education.
- ❖ To apply the thought of social science language in their day to day life.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand language of various discipline.
- ❖ Develop expression of various language areas.
- ❖ Acquire scientific study of language phonetics.
- ❖ Know the scientific idea of science education.
- ❖ Apply the thought of social science language in their day today life.
- ❖ Develop interdisciplinary approach of language (Hindi/Sanskrit/English).

#### EDD 302 : Innovative Methods

**Objectives:**

- ❖ To introduce students about the concepts of innovations in teaching.
- ❖ To understand the idea of various subject methods.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop knowledge of various innovative methods.
- ❖ Understand the idea of methods.

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
JVB 301	Critical Understanding of ICT	FC	2	15 Practical	35	50

#### Objectives:

- ❖ To explain the concept of ICT in education.
- ❖ To develop skills in using MS Office applications for education.
- ❖ To use internet efficiently to access information and communicate with others.
- ❖ To understand the applications of E-learning in education.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Explain the concept of ICT in education.
- ❖ Develop skills in using MS Office applications for education.
- ❖ Use internet efficiently to access information and communicate with others.
- ❖ Understand the applications of E-learning in education.

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
JVB 302	Yoga and Preksha Meditation	FC	2	15 Practical	35	50

#### Objectives:

- ❖ जीवन विज्ञान, प्रेक्षाध्यान एवं योग विद्या की जानकारी प्राप्त कर सकेंगे।
- ❖ संतुलित व्यक्तित्व का निर्माण।
- ❖ विद्यालयस्तरीय ध्यान एवं योग के प्रशिक्षक तैयार करना।

#### Course Outcomes:

- ❖ जीवन विज्ञान, प्रेक्षाध्यान एवं योग विद्या की जानकारी प्राप्त कर सकेंगे।
- ❖ संतुलित व्यक्तित्व का निर्माण।
- ❖ विद्यालयस्तरीय ध्यान एवं योग के प्रशिक्षक तैयार करना।

### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 401	Gender , School and Society	CC	4	30	70	100

#### Objectives:

- ❖ To understand the modern concept of society, organization & gender sensitivity.
- ❖ To aware about the dimension of development of school administration.
- ❖ To develop basic understanding & familiarity with key concept, society, social problem, social relationship and new trends
- ❖ To develop knowledge of the role of different NGO & organizations.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Sensitize students about different social & national level problems at school level.
- ❖ Remedies regarding gender discrimination, government schemes and Right to Education.
- ❖ Implement their knowledge to plan community awareness programmes to sensitize weaker section of society.
- ❖ Understanding relationship between education and society as well as NGO's.  
Utilize their administrative skill to manage different administrative activities at school level

#### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>EDU 402</b>	Reading and Reflecting on texts (EPC)	CC	2	15	35 Practical and Viva-voce	50

**Objectives:**

- ❖ To develop basic Communication Skills.
- ❖ To promote Creative Writing among students.
- ❖ To acquire the knowledge of art of Speaking.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understnd Communication Skills.
- ❖ Promote Creative Writing among students
- ❖ Explain the art of speaking.

#### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>EDU 403</b>	Drama and Arts in Education (EPC)	CC	2	15	35 Practical and Viva-voce	50

**Objectives:**

- ❖ To develop skills of role playing and acting.
- ❖ To acquire the knowledge and develop skill of arts, painting and playing musical Instruments.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop skills of role playing and acting.
- ❖ Acquire the knowledge and develop skill of arts, painting and playing musical Instruments.

Semester-IV						
Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 401	Chemistry-I	Any Three CC	4	15	20	100
	Chemistry-II				20	
	Chemistry-III				20	
	Chemistry Practical				25 Practical	

### Chemistry-Paper-I: Inorganic Chemistry

**Objectives:**

- ❖ To develop the knowledge about chromatography, oxidation reduction and polymerization.
- ❖ To aware about the conceptual knowledge of chromatography, polymer chemistry and bioinorganic chemistry.
- ❖ To acquaint about the classification of acids, non aqueous solvents and separation methods.
- ❖ To give information about solvent systems, diagrams and preparation methods.
- ❖ To develop understanding about phosphazenes, trace elements and nitrogen fixation.

**Course Outcomes:** After completion the course student would able to:

- ❖ Differentiate between oxidation & reduction and structures of silicones.
- ❖ Describe the principles related to differential migration, substitution and biochemistry.
- ❖ Apply the methods of chromatography, industrial uses of silicon and biochemistry to solve different issues.
- ❖ Interpret the diagrams related to redox reaction, structure and processes of polymerization.

### Chemistry-Paper-II: Organic Chemistry

**Objectives:**

- ❖ To develop knowledge about classification & nomenclature of carboxylic acid and dicarboxylic acid.
- ❖ To aware about the chemical reactions, mechanism and properties of polymers, halonitroarenes and amines.
- ❖ To develop concept of various laws related to synthesis and catalyzing process.
- ❖ To acquaint the various reactions on the basis of their mechanism.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the various organic compounds on the basis of mechanism and structure.
- ❖ Apply the knowledge of processing derivatives for synthesize various products.
- ❖ Describe and discuss about technical terminology related to acids, alkyl nitrates and amines.

- ❖ Discuss about the methods of formation, structural features and mechanism of various compounds.

### Chemistry-Paper-III: Physical Chemistry

#### Objectives:

- ❖ To aware about laws of thermodynamics, pH, polarization of molecular structure.
- ❖ To develop conceptual knowledge about entropy, electrolytes dipole moment etc.
- ❖ To develop analytical view about evaluation of absolute entropy, activity coefficient and magnetic properties of compounds.
- ❖ To give information about carnt theorem, mixing of gases, overvoltage and referectivity.

**Course Outcomes:** After complition the course student would able to:

- ❖ Classify the electrodes, cells and properties of organic compounds.
- ❖ Determine and interpret the function of volumes, equations, coefficients related to entropy, corrosion and molecular structures.
- ❖ Describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ Measure the entropy change, pH and polarization and magnetic properties of compounds.

#### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 402	Physics-I	CE*	4	15	20	100
	Physics-II				20	
	Physics-III				20	
	Physics Prcatical				25 Practical	

### Physics-Paper-I: Electronics and Solid state devices-I

#### Objectives:

- ❖ To aware kinetic theory of gases.
- ❖ To Understand the transport phenomenon of gases.
- ❖ To give knowledge about the classical statistics.
- ❖ To develop concept of quantum statistics.

**Course Outcomes:** After complition the course student would able to:

- ❖ Analyze phase equilibrium condition and identify types of phase transitions of physical systems.
- ❖ Make connections between applications of general statistical theory in various branches of physics.
- ❖ Design, set up, and carry out experiments, analyze data recognising and accounting for errors and compare with theoretical predictions.
- ❖ Differentiate between B-E statistics & F-D statistics
- ❖ Discuss on the nuclear spin statistics.

### Physics-Paper-II: Optics-II

#### Objectives:

- ❖ To aware fraunhofer diffraction.
- ❖ To Understand the Fresnel class of diffraction and resolving power.
- ❖ To give knowledge about the optical activity and holography.
- ❖ To develop concept of lasers.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies interference in design and working of interferometers.
- ❖ Discuss on the resolving power of different optical instruments.
- ❖ Identify the working of holography and their applications in various fields.
- ❖ Classify the optical fiber and their applications in communication.
- ❖ Differentiate between simple light source and laser.

### **Physics-Paper-III: Electronics and Solid state devices-II**

**Objectives:**

- ❖ To aware about transistor.
- ❖ To Understand the amplifiers with feedback.
- ❖ To give knowledge about the amplifiers and oscillators.
- ❖ To develop concept of field effect transistor and digital circuits.

**Course Outcomes:** After completion the course student would able to:

- ❖ Identify characteristics of transistor (common base configuration, common emitter configuration, common collector configuration).
- ❖ Discuss on the amplifiers with feedback.
- ❖ Discuss on the concept of operational amplifier & oscillators.
- ❖ Classify the field effect transistor and digital circuits.
- ❖ Differentiate between TTL and RTL.

#### **Semester-IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 403</b>	Mathematics-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Mathematics-II				<b>20</b>	
	Mathematics-III				<b>20</b>	
	Mathematics Practical				<b>25 Practical</b>	

### **Mathematics-Paper-I: Real Analysis and Metric Space**

**Objectives:**

- ❖ To give information about the Sequence and Series of Functions.
- ❖ To aware about the Term by Term Differentiation and Integration.
- ❖ To develop knowledge about the Metric Space
- ❖ To develop knowledge about the Subspace.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Sequence and Series of Functions.
- ❖ Calculate the Term by Term Differentiation and Integration.
- ❖ Classify the Metric Space, Subspace.
- ❖ Applies the Compact Sets and Compact Space.
- ❖ Calculate the connected metric space.

### **Mathematics -Paper-II: Differential Equations-II**

**Objectives:**

- ❖ To give knowledge about the exact linear differential equations of nth order.
- ❖ To aware about the linear differential equations of second order.

- ❖ To know the partial differential equations of first order.
- ❖ To Understand the homogeneous and non-homogenous linear partial differential equation.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate the exact linear differential equations of nth order.
- ❖ Classify the linear differential equations of second order.
- ❖ Discuss the partial differential equations of first order.
- ❖ Identify the homogeneous and non-homogenous linear partial differential equation.

### Mathematics -Paper-III: Optimization Theory Vector Calculus

**Objectives:**

- ❖ To aware about the Linear Programming Problem.
- ❖ To develop knowledge of properties and Elementary Theorems on Duality Only.
- ❖ To understand the Differentiation & Integration of vector Point functions.
- ❖ To conceptualize the Divergence & Curls.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies Linear Programming Problem.
- ❖ Classify the Properties and Elementary Theorems on Duality Only.
- ❖ Discuss on the Differentiation & Integration of vector Point functions.
- ❖ Identify the Divergence & Curls.

### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 404</b>	Botany-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Botany-II				<b>20</b>	
	Botany-III				<b>20</b>	
	Botany Practical				<b>25 Practical</b>	

### Botany-Paper-I :Pteridophytes

**Objectives:**

- ❖ To develop knowledge on pteridophytes with its origin and classification
- ❖ To know general characteristics of psilophyta.
- ❖ To understand the life cycle of class lycophyta and sphenophyta.
- ❖ To discuss economic importance of pteridophytes.
- ❖ To compare pteridophyte with bryophyte and gymnosperms.

**Course Outcomes:** After completion the course student would able to:

- ❖ Develop knowledge on pteridophytes with its origin and classification
- ❖ Explain general characteristics of psilophyta.
- ❖ Understand the concept of lycophyta and sphenophyta.
- ❖ Discuss concept of filicophyta and their economic importance
- ❖ Compare pteridophyte with bryophyte and gymnosperms.

### Botany-Paper-II:Gymnosperms And Paleobotany

**Objectives:**

- ❖ To know the general characteristics, distribution, classification of gymnosperms
- ❖ To learn about the economic importance of gymnosperms
- ❖ To understand the morphology anatomy, reproduction of the cycadales .
- ❖ To acquire knowledge about Ephedrales and Palaeobotany.
- ❖ To discuss the dominant fossils flora of different ages.

**Course Outcomes:** After completion the course student would able to:

- ❖ Interpret the general characteristics, distribution, classification of gymnosperms
- ❖ Acquaint with the economic importance of gymnosperms
- ❖ Discuss the morphology anatomy, reproduction of the cycadales .
- ❖ Acquire knowledge about Ephedrales and Palaeobotany.
- ❖ Explain the dominant fossils flora of different ages.

### **Botany-Paper-III :Plant Physiology II And Biochemistry**

**Objectives:**

- ❖ To know structure, biosynthesis and physiological role of plant hormones
- ❖ To understand structure, physiological role with distinguishable factors of hormones
- ❖ To provide knowledge of vernalization and photoperiodism.
- ❖ To comprehend the introduction, importance, nomenclature and classification of carbohydrates lipids, proteins.
- ❖ To acquire knowledge about enzymes.

**Course Outcomes:** After completion the course student would able to:

- ❖ Get knowledge about structure, biosynthesis and physiological role of plant hormones
- ❖ Understand structure, physiological role with distinguishable factors of hormones
- ❖ Discuss the concept of vernalization and photoperiodism.
- ❖ Describe the importance, nomenclature and classification of carbohydrates lipids, proteins.
- ❖ Acquire knowledge about enzymes

#### **Semester-IV**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 405</b>	Zoology-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Zoology-II				<b>20</b>	
	Zoology-III				<b>20</b>	
	Zoology Practical				<b>25</b> <b>Practical</b>	

### **Zoology-Paper -I: Life and Diversity of Animals (Chordates-II)**

**Objectives:**



- ❖ To learn about the comparative study scoliodon and Rana of Integumentary system i.e. Structure of skin.
- ❖ To Understand and study the comparative study scoliodon and Rana of Heart and brain.
- ❖ To Understand and study the comparative study scoliodon and Rana of Bones.
- ❖ To Understand and study the Poisonous and nonpoisonous snakes.
- ❖ To explain the flight adaption

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand and study the comparative study scoliodon and Rana of Integumentary system i.e. Structure of skin.
- ❖ Study the comparative study scoliodon and Rana of Heart and brain.
- ❖ Comparative study scoliodon and Rana of Bones.
- ❖ Interpret Poisonous and nonpoisonous snakes.
- ❖ Discuss the flight adaption

### **Zoology-Paper II: Biochemistry and Endocrinology**

**Objectives**

- ❖ To explain the function of Carbohydrates and other metabolism.
- ❖ To aware the function of Lipids and metabolism
- ❖ To understand the importance of Bio molecules
- ❖ To learn about the function of Proteins and metabolism
- ❖ To aware the Types of Endocrine glands

**Course Outcomes:** After completion the course student would able to:

- ❖ Interprets the function of Carbohydrates and other metabolism.
- ❖ Explain the function of Lipids and metabolism
- ❖ Interpret the importance of Bio molecules
- ❖ Understand the function of Proteins and metabolism
- ❖ Explain the Types of Endocrine glands

### **Zoology-Paper III: Physiology -II**

**Objectives:**

- ❖ To Understand the Nerve and Muscles.
- ❖ To explain the Sensory Physiology.
- ❖ To Understand the Reproduction.
- ❖ To understand the hormones action.
- ❖ To learn about the human ear mechanism of hearing

**Course Outcomes:** After completion the course student would able to:

- ❖ Interprets the Nerve and Muscles.
- ❖ Understand the Sensory Physiology.
- ❖ Understand the Reproduction.
- ❖ Classify the hormones action.
- ❖ Describe the human ear mechanism of hearing

### **Semester-V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 501	General English	CC	4	30	70	100

**Objectives:**

- ❖ Students will be able to recognize and understand the meaning of targeted grammatical structures in written and spoken form.
- ❖ Students will practice the grammar skills involved in writing sentences and short paragraphs.

**Learning Outcome:** After completion the course student would able to:

- ❖ Begin to self-edit their oral and written production.
- ❖ Make less grammatical errors.
- ❖ Clear of grammatical terms.
- ❖ Get exposure of writing letters, application and paragraph.

#### Semester-V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 502	Contemporary India and Education	CC	4	30	70	100

#### Objectives:

- ❖ To know the concept and nature of Educaiton.
- ❖ To know the social mobility and social skill.
- ❖ To understand the various committee and commission.
- ❖ To educate about the recent policies of Education.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Know social aspects of education and develop educational perspective.
- ❖ Solve prevailing problems of education in India.
- ❖ Understand the purpose, function and Role of education in nation building.
- ❖ Understand knowledge of the Indian education system as it has evolved from the past, as it is today.
- ❖ Understand the concept, principle of sustainable development and core concept of educational thinkers.
- ❖ Know social equity and equality of educational opportunities.

#### Semester-V

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 501	Chemistry-I	Any Three CC	4	15	20	100
	Chemistry-II				20	
	Chemistry-III				20	
	Chemistry Practical				25 Practical	

#### Chemistry-Paper-I: Inorganic Chemistry

#### Objectives:

- ❖ To develop the knowledge about coordination compound, lanthanides and actinides.
- ❖ To aware about the conceptual knowledge of valance bond theory, nomenclature, spectral properties of elements of transition series.
- ❖ To give information about coordination theory, magnetic moments, spectral properties and electronic configuration of various elements of transition series.
- ❖ To develop understanding about correlation between periodicity and general features of various elements .
- ❖

**Course Outcomes:** After completion the course student would able to:

- ❖ Differentiate between lanthanides and actinides on the basis of their properties.
- ❖ Measure the correlation of various values, complex formation and spectral properties of elements of transition series.
- ❖ Classify the coordination compounds, magnetic behavior and stereochemistry of lanthanides and actinides.
- ❖ Define the separation process, structural properties and electronic configuration of compounds.

### **Chemistry-Paper-II: Organic Chemistry**

**Objectives:**

- ❖ To develop conceptual knowledge about infrared absorption spectroscopy, nomenclature of organometallic compounds.
- ❖ To acquaint about various laws of spectroscopy and methods of synthesis related to organometallic and heterocyclic compounds.
- ❖ To aware about laws related to IR spectrum, types of transitions and preparation of heterocyclic compounds.
- ❖ To develop understanding about effects of solvents, structural features and basicity of pyridine, piperidine and pyrrole.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the various organic compounds on the basis of UV spectra and transition.
- ❖ Describe and discuss about formation, structure and chemical reactions of heterocyclic compounds.
- ❖ Draw and interpret the molecular orbit picture and aromatic characteristics of organometallic and heterocyclic compounds.
- ❖ Define various derivatives and reaction mechanism of synthesis and substitution related to heterocyclic compounds.

### **Chemistry-Paper-III: Physical Chemistry**

**Objectives:**

- ❖ To aware about degree of freedom, phase equilibria and quantum mechanism.
- ❖ To develop conceptual knowledge about entropy, electrolytes dipole moment etc.
- ❖ To develop analytical view about evaluation of absolute entropy, activity coefficient and magnetic properties of compounds.
- ❖ To give information about carnt theorem, mixing of gases, overvoltage and referectivity.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the electrodes, cells and properties of organic compounds.
- ❖ Determine and interpret the function of volumes, equations, coefficients related to entropy, corrosion and molecular structures.
- ❖ Describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ Measure the entropy change, pH and polarization and magnetic properties of compounds.

#### **Semester-V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total

<b>BSE 502</b>	<b>Physics-I</b>	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Physics-II				<b>20</b>	
	Physics-III				<b>20</b>	
	Physics Practical				<b>25</b> Practical	

### **Physics-Paper-I: Mathematical Physics and Special Theory of Relativity-I**

#### **Objectives:**

- ❖ To understand the concept of co-ordinate transformation.
- ❖ To know the concept of tensor analysis and dirac delta function.
- ❖ 3.To understand the Special functions (Legendre, Bessel, hermite and laguerre) .
- ❖ To aware the techniques of variables and its application to boundary value problems

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the concept of co-ordinate transformation.
- ❖ Classify the concept of tensor analysis and dirac delta function.
- ❖ 3.Differentiate the Special functions (Legendre, Bessel, hermite and laguerre) .
- ❖ Applies the techniques of variables and its application to boundary value problems.
- ❖ 5 Identify the laplace equation in spherical co ordinate system.

### **Physics-Paper-II: .Quantum Mechanics-I**

#### **Objectives:**

- ❖ To Understand the Origin and Experimental Evidence of Quantum theory.
- ❖ To aware the Uncertainty Principles and Schrodinger's Wave Mechanics.
- ❖ To develop concept the Postulates and Operators of Quantum Mechanics.
- ❖ To understand the Simple Solutions of Schrodinger Equation.

**Course Outcomes: After completion the course student would able to: :**

- ❖ Discuss the Origin and Experimental Evidence of Quantum theory.
- ❖ Apply the Uncertainty Principles and Schrodinger's Wave Mechanics.
- ❖ Identify the Postulates and Operators of Quantum Mechanics.
- ❖ Calculate the Simple Solutions of Schrodinger Equation
- ❖ Discuss on the discrete energy level.

### **Physics-Paper-III: Solid State Physics-I**

#### **Objectives:**

- ❖ To know the concept of Crystal Binding and crystal Structure.
- ❖ To understand the Thermal and Electrical Properties of the Solids.
- ❖ To aware the concept of Band Theory of Solids.
- ❖ To develop concept the Magnetic Property of materials.

**Course Outcomes: After completion the course student would able to:**

- ❖ Identify the concept of Crystal Binding and crystal Structure.
- ❖ Study the Thermal and Electrical Properties of the Solids.
- ❖ Classify the concept of Band Theory of Solids.
- ❖ Discuss the Magnetic Property of materials.
- ❖ Identify relation between exchange integral and Weiss constant.

#### **Semester-V**

<b>Course</b>	<b>Course Title</b>	<b>Course</b>	<b>Credit</b>	<b>C.I.A.</b>	<b>Theory</b>	<b>Total</b>
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Code		Category				
BSE 503	Mathematics-I	CE*	4	15	20	100
	Mathematics-II				20	
	Mathematics-III				20	
	Mathematics Practical				25 Practical	

### Mathematics-Paper-I: Algebra-I

#### Objectives:

- ❖ To Understand the definition and Simple Properties of Group & Subgroup.
- ❖ To aware the Cayley's Theorem and Fundamental Theorem of Isomorphism.
- ❖ To know the Definition of Ring and Subrings.
- ❖ 4 To gain knowledge of morphism of ring.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on definition and Simple Properties of Group & Subgroup.
- ❖ Apply the Lagrange's Theorem on the Order of Subgroups.
- ❖ Calculate the Cayley's Theorem and Fundamental Theorem of Isomorphism.
- ❖ Discuss the definition of Ring and Subrings.
- ❖ Differentiate group, subgroup and quotient group.

### Mathematics -Paper-II: Complex analysis-I

#### Objectives:

- ❖ To Understand the Complex Plane, Connected & Compact Set.
- ❖ To Aware the Complex Valued function.
- ❖ To know the Complex Integral.
- ❖ To study taylor's theorem and laurent's theorem .

**Course Outcomes** After completion the course student would able to:

- ❖ Discuss the Complex Plane, Connected & Compact Set.
- ❖ Identify the Complex Valued function.
- ❖ Classify the Complex Integral.
- ❖ Solve the Taylor's Theorem and Maximum Modulus Theorem.
- ❖ Discuss on the fundamental theorem of integral calculus for complex functions.

### Mathematics -Paper-III: Dynamics

#### Objectives:

- ❖ To Understand the Velocity and Acceleration.
- ❖ To Study the Motion along Horizontal & Vertical Elastic String.
- ❖ To aware the Motion in Resisting medium.
- ❖ To know about simple harmonic motion and Hooke's Law.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the Velocity and Acceleration.
- ❖ Classify the Motion along Horizontal & Vertical Elastic String.
- ❖ Identify the Motion in Resisting medium.
- ❖ Calculate Work and Energy.
- ❖ Calculate the motion on the inside and outside of a smooth vertical circle.

### Semester-V

Course	Course Title	Course	Credit	C.I.A.	Theory	Total
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Code		Category				
<b>BSE 504</b>	Botany-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Botany-II				<b>20</b>	
	Botany-III				<b>20</b>	
	Botany Practical				<b>25</b> Practical	

### **Botany-Paper-I: Morphology Of Angiosperms**

#### **Objectives:**

- ❖ To understand the basic plan of flowering plants.
- ❖ To get knowledge about the morphology of root system and shoot system.
- ❖ To learn the origin, development and types of leaves
- ❖ To study the detailed structure of flower.
- ❖ To aware students with the concept and significance of seed.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the basic plan of flowering plants.
- ❖ Carry out the comparative morphology of root system and shoot system.
- ❖ Discuss the origin, development, types of leaves
- ❖ Get knowledge about the detailed structure of flower
- ❖ Interpret the concept of seed with its significance.

### **Botany-Paper-II : Anatomy Of Flowering Plants**

#### **Objectives:**

- ❖ To understand the structure and classification of tissues
- ❖ To distinguish simple and complex tissues.
- ❖ To know about the definition, classification, types and function of meristem.
- ❖ To study the anatomy of stem, root and leaf.
- ❖ To analyze different types of wood with secondary growth

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the structure and classification of tissues
- ❖ Distinguish simple and complex tissues.
- ❖ Explain the definition, classification, types and function of meristem.
- ❖ Discuss the anatomy of stem, root and leaf.
- ❖ Analyze different types of woods with secondary growth.

### **Botany-Paper-III : Plant Systematics**

#### **Semester-V**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
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<b>BSE 505</b>	Zoology-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Zoology-II				<b>20</b>	
	Zoology-III				<b>20</b>	
	Zoology Practical				<b>25</b> Practical	

### **Zoology-Paper I: Ethology**

#### **Objectives:**

- ❖ To understand Concepts of Ethology- Motivation, Fixed Action Patterns (FAP), Sign Stimulus; Innate Releasing Mechanism (IRM); Action Specific Energy (ASE); Learning; Imprinting.
- ❖ To understand Methods of Studying Behaviour: Studies in Laboratory- Neurotransmitter, physiological and Neurochemical techniques. Brief account on Pheromones,
- ❖ To explain the Social organization.
- ❖ To learn about the Biological Rhythms
- ❖ To explain the control of behavior neural control hormonal control

#### **Course Outcomes:** After completion the course student would able to:

- ❖ Concepts of Ethology- Motivation, Fixed Action Patterns (FAP), Sign Stimulus; Innate Releasing Mechanism (IRM); Action Specific Energy (ASE); Learning; Imprinting.
- ❖ Methods of Studying Behaviour : Studies in Laboratory- Neurotransmitter, physiological and Neurochemical techniques. Brief account on Pheromones,
- ❖ Understand the Social organization.
- ❖ Interprets the Biological Rhythms
- ❖ Discuss the control of behavior neural control hormonal control

### **Zoology-Paper II: Biotechniques, Instrumentation, and Bioinformatics**

#### **Objectives:**

- ❖ To learn about the term Electrophoresis, Radioactivity.
- ❖ To understand the working principle of Centrifuge, Incubator, pH meter.
- ❖ To understand the cell culture techniques and separation techniques in biology.
- ❖ To Understand the Principle, parts, and its application of Microscopic techniques. Understand the working principle of UV-Vis principle, Colorimeter.
- ❖ To aware the recognize the importance of various databases

#### **Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the term Electrophoresis, Radioactivity.
- ❖ Understand the working principle of Centrifuge, Incubator, pH meter.
- ❖ Understand the cell culture techniques and separation techniques in biology.
- ❖ Understand the Principle, parts, and its application of Microscopic techniques. Understand the working principle of UV-Vis principle, Colorimeter.
- ❖ Recognize the importance of various databases

### **Zoology-Paper- III: Immunology &Biotechnology**

#### **Objectives:**

- ❖ To understand Distinguish Innate immunity and Acquired Immunity
- ❖ To understand the importance of Immune system
- ❖ To understand Study and understand the DNA Recombinant technology
- ❖ To Understand the Scope and Significance of Biotechnology
- ❖ To learn about mechanism of Antigen & Antibody reaction

**Course Outcomes:** After completion the course student would able to:

- ❖ Distinguish innate immunity and Acquired Immunity.
- ❖ Understand the importance of Immune system.
- ❖ Study and understand the DNA Recombinant technology.
- ❖ Understand the Scope and Significance of Biotechnology.
- ❖ Discuss the mechanism of Antigen & Antibody reaction

#### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 601	General Hindi	CC	4	30	70	100

**उद्देश्य—**

- ❖ हिन्दी व्याकरण— संज्ञा, सर्वनाम, कारक, पर्यायवाची, विलोमशब्द, समुच्चारित भिन्नार्थक शब्द, मुहावरें, लोकोक्तियाँ आदि का सामान्य ज्ञान करवाना।
- ❖ देवनागरी लिपि का परिचय देना।
- ❖ व्यावहारिक पत्रों की जानकारी देना।

**उपलब्धियाँ—**

- ❖ विद्यार्थियों के व्याकरण ज्ञान में वृद्धि होगी।
- ❖ विद्यार्थी कार्यालय पत्र लिखने में समर्थ हो सकेंगे।
- ❖ विद्यार्थी देवनागरी लिपि के महत्त्व, उसकी विशेषता आदि से अपने ज्ञान में वृद्धि करेंगे।

#### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 602	Pre. Internship	CC	4		100 Pre. Internship	100

#### Pre-internship distribution (4 Weeks)

**Objectives:**

- ❖ To acquire the knowledge of internship.
- ❖ To understand skill focused teaching.
- ❖ To develop ability of comprehensive school teaching.
- ❖ To understand and organize various school activities.



**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire the knowledge of internship.
- ❖ Understand skill focused teaching.
- ❖ Develop ability of comprehensive school teaching.
- ❖ Understand and organize various school activities

### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 601</b>	Chemistry-I	<b>Any Three CC</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Chemistry-II				<b>20</b>	
	Chemistry-III				<b>20</b>	
	Chemistry Practical				<b>25 Practical</b>	

### Chemistry-Paper-I: Inorganic Chemistry

**Objectives:**

- ❖ To develop understanding about metal ligand bonding, metal complexes and organometallic.
- ❖ To aware about the conceptual knowledge of spectral properties and kinetic aspects of metal complexes.
- ❖ To develop conceptual knowledge about selection rules, trans effect and substitution reactions.
- ❖ To give information about spectrochemical series, kinetic stability and bonding application of alkyls and aryls.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the organometallic compounds and metal complexes on the basis of transition, stability and bonding structures.
- ❖ Measure the correlation among structural & kinetic properties of metal complexes.
- ❖ Apply the knowledge of bonding, spectral properties and structures to define basic properties of compounds.
- ❖ Draw and interpret the energy level diagram and spectroscopic series for various states.

### Chemistry-Paper-II: Organic Chemistry

**Objectives:**

- ❖ To develop conceptual knowledge about nuclear magnetic resonance, industrial uses and structures of compounds.
- ❖ To aware about classification, nomenclature and properties of carbohydrates, amino acids, fats and detergents.
- ❖ To develop understanding about synthesis, group analysis and industrial uses of fat, oil and detergents.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the various compounds on the basis of structure, stereochemistry and formation process.
- ❖ Describe and discuss about formation, structure and chemical reactions of carbohydrates, peptides and nucleic acids.
- ❖ Apply the knowledge of industrial uses of fats, oils and detergents to produce

some useful products.

### Chemistry-Paper-II: Physical Chemistry

#### Objectives:

- ❖ To aware about conceptual knowledge of photochemistry, spectroscopy and mechanics.
- ❖ To develop understanding about qualitative and quantitative description of fluorescence, selection rules and isotopes.
- ❖ To develop analytical view about laws of photochemistry, degree of freedom and energy levels.
- ❖ To give information about transfer process, Raman spectrum and atomic orbitals.

**Course Outcomes:** After completion the course student would able to:

- ❖ To measure the calculation of energy levels, coefficients and spectral intensity of compounds.
- ❖ To plot and interpret the bond energy, force constant, potential energy curves of compounds.
- ❖ To describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ To analyze the various structures of compounds on the basis of quantum mechanics.

#### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 602	Physics-I	CE*	4	15	20	100
	Physics-II				20	
	Physics-III				20	
	Physics Practical				25 Practical	

### Physics-Paper-I: Mathematical Physics and Special Theory of Relativity-II

#### Objectives:

- ❖ To Understand the Lorentz Transformation.
- ❖ To know the concepts of Four Vector Formulation, longitudinal and Transverse Doppler's Effect.
- ❖ To aware the Transformation between Laboratory and Centre of mass.
- ❖ To develop concept about the Transformation Electric and Magnetic Field.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the Lorentz Transformation.
- ❖ Classify the concepts of Four Vector Formulation, Longitudinal and Transverse Doppler's Effect.
- ❖ Identify the Transformation between Laboratory and Centre of mass.
- ❖ Calculate the Transformation Electric and Magnetic Field.
- ❖ Differentiate longitudinal and transverse Doppler 's effect.

### Physics-Paper-II: Quantum Mechanics-II

#### Objectives:

- ❖ To Know the Bound State Problem-I
- ❖ To Understand the Bound State Problem-II
- ❖ To aware Application of Quantum Theory.
- ❖ To gain knowledge about molecular spectroscopy.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Bound State Problem-I (Potential Step, Potential Barrier, Square Well Potential) and Tunnel Effect.
- ❖ Classify the Bound State Problem-II (One Dimensional Potential Box, Eigen Value, Eigen Function).
- ❖ Applies Quantum Theory to Atomic Spectroscopy.
- ❖ Identify the Concept of Molecular Spectroscopy.

- ❖ Differentiate vibrational spectra and rotational spectra.

### Physics-Paper-III: Nuclear Physics

#### Objectives:

- ❖ To Understand the Concept of Nuclear Properties like Quadrupole Moment, Nuclear Spin, Nuclear Energy, Mass spectroscopy and Theory of Nuclear Forces.
- ❖ To know the Concept of Nuclear Fission.
- ❖ To Aware the Concept of Elementary Particles.
- ❖ To develop knowledge about the Concept of Detector and Accelerator.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the Concept of Nuclear Properties like Quadrupole Moment, Nuclear Spin, Nuclear Energy, Mass spectroscopy and Theory of Nuclear Forces.
- ❖ Classify the Concept of Nuclear Fission.
- ❖ Identify the Concept of Elementary Particles.
- ❖ Applies the Concept of Detector and Accelerator.
- ❖ Differentiate drift tube linear accelerator and wave guide accelerator.

#### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 603	Mathematics-I	CE*	4	15	20	100
	Mathematics-II				20	
	Mathematics-III				20	
	Mathematics Practical				25 Practical	

### Mathematics-Paper-I: Algebra-II

#### Objectives:

- ❖ To aware the Integral domain and Field.
- ❖ To Understand the Ideals and Quotient Ring.
- ❖ To develop knowledge the Linear Dependence and Linear Independence of Vectors.
- ❖ To know sum of subspaces.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss about integral domain and Field.
- ❖ Identify the Ideals and Quotient Ring.
- ❖ Classify the Linear Dependence and Linear Independence of Vectors.
- ❖ Applies the Sum of Subspace.
- ❖ Discuss about quotient space.

### Mathematics -Paper-II: Complex analysis-II

#### Objectives:

- ❖ To understand the Power Series.
- ❖ To develop knowledge about the Branch Point.
- ❖ To develop concept about the Conformal Mapping.
- ❖ To give information about cauchy's residue theorem.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Power Series.
- ❖ Identify the Branch Point.
- ❖ Applies Fundamental Theorem of Algebra.
- ❖ Analyze the Conformal Mapping.
- ❖ Discuss on the circle and radius of convergence.

### Mathematics-Paper-III: Statics

**Objectives:**

- ❖ To understand the Resultant and Equilibrium Coplanar Force Acting on a Rigid Body.
- ❖ To know the Friction.
- ❖ To aware the Virtual Work.
- ❖ To develop knowledge about the Common Catenary Force in the 3-D.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Resultant and Equilibrium Coplanar Force Acting on a Rigid Body.
- ❖ Classify about the Friction.
- ❖ Calculate the Virtual Work.
- ❖ Identify the Common Catenary Force in the 3-D.
- ❖ Differentiate friction and virtual work.

### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 604</b>	Botany-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Botany-II				<b>20</b>	
	Botany-III				<b>20</b>	
	Botany Practical				<b>25 Practical</b>	

### Botany-Paper-I :Reproductive Biology Of Angiosperms

**Objectives:**

- ❖ To know the detailed structure of flower and male gametophyte.
- ❖ To understand the mechanism of distribution of pollen grains.
- ❖ To learn about the structure of pistil and female gametophyte.
- ❖ To get knowledge about the process of pollination and fertilization
- ❖ To study the development of embryo and endosperm

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the detailed structure of flower and male gametophyte.
- ❖ Discuss the mechanism of distribution of pollen grains.
- ❖ Interpret the structure of pistil and female gametophyte.
- ❖ Describe the process of pollination and fertilization
- ❖ Understand the development of embryo and endosperm

### Botany-Paper-II: Economic Botany And Ethnobotany

**Objectives:**

- ❖ To know the origin of cultivated plants
- ❖ To acquire knowledge of food plants, vegetables and fruits.
- ❖ To analyze the spices, oil yielding plants and Beverages.
- ❖ To understand medicinal plants, fibers and woods.
- ❖ To get aware about ethical aspects of Ethnobotany

**Course Outcomes:** After completion the course student would able to:

- ❖ Get knowledge about the cultivated plants
- ❖ Interpret different food plants, vegetables and fruits.
- ❖ Enhance knowledge about spices, oil yielding plants and Beverages.
- ❖ Comprehend about medicinal plants, fibers and woods.
- ❖ Acquire knowledge about ethical aspects of Ethnobotany

### **Botany-Paper-III : ECOLOGY**

**Objectives:**

- ❖ To acquire knowledge of community, ecosystem and phytogeography
- ❖ To know about structure, components, food chains, hub, energy flows.
- ❖ To understand about vegetation and environmental pollution
- ❖ To get aware about environmental management
- ❖ To learn about different protocols.

**Course Outcomes:** After completion the course student would able to:

- ❖ Acquire complete knowledge of community, ecosystem and phytogeography
- ❖ Explain the structure, components, food chains and energy flows.
- ❖ Understand about vegetation and environmental pollution
- ❖ Interpret about environmental management
- ❖ Discuss and different protocols.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>BSE 605</b>	Zoology-I	<b>CE*</b>	<b>4</b>	<b>15</b>	<b>20</b>	<b>100</b>
	Zoology-II				<b>20</b>	
	Zoology-III				<b>20</b>	
	Zoology Practical				<b>25 Practical</b>	

### **Zoology-Paper- I Evolution and Biostatistics**

**Objectives:**

- ❖ To understand the process of evolution.
- ❖ To discuss concept the Lamarkism, Neo-Lamarkism and Darwinism.
- ❖ To classify and draws the Geological time scale.
- ❖ To understand aware the students for Palaentology Fossils and its significance
- ❖ To describe the Biostatistics and Biostatistical Tools.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the process of evolution.
- ❖ Understand the Lamarkism, Darwinism and Neo-Darwinism.
- ❖ Interpret Geological time scale.
- ❖ Explain Palaentology Fossils and its significance
- ❖ Discuss the Biostatistics and Biostatistical Tools

### **Zoology-Paper II: Economic Zoology**

**Objectives:**

- ❖ To Understand the Various concepts in Sericulture, Lac culture and Apiculture.
- ❖ To interprets the various concepts in Chemical Control.
- ❖ To Understand aware the students and provides the economical importance of Vermiculture
- ❖ To Understand the Various concepts in Vector borne diseases, Animal husbandry.
- ❖ To classify the economics of aquaculture.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the various concepts in Sericulture, Lac culture and and Apiculture.
- ❖ Understand the various concepts in Chemical Control.
- ❖ Provide the economical importance of Apiculture
- ❖ Understand the various concepts in Vector borne diseases, and Animal husbandry
- ❖ Explain the Economical of aquaculture

### **Zoology-Paper III: Ecology and Environmental Biology**

**Objectives:**

- ❖ To differentiate current environmental issues based on Atmosphere.
- ❖ To understand Gain critical understanding on human influence on environment.
- ❖ To understand Positive attitude towards Biodiversity conservation.
- ❖ To describe the various concepts in Pollution.
- ❖ To know the sources, affect and control measures of water and noise pollution.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the current environmental issues based on ecological principles.
- ❖ Gain critical understanding on human influence on environment.
- ❖ Aware about the positive attitude towards Biodiversity conservation.
- ❖ Understand the various concepts in Pollution.
- ❖ Explain the sources, affect and control measures of water and noise pollution.

#### **Semester VII**

<b>Course Code</b>	<b>Course Title</b>	<b>Course Category</b>	<b>Credit</b>	<b>C.I.A.</b>	<b>Theory</b>	<b>Total</b>
<b>EDU 701</b>	Creating and Inclusive Education	<b>CC</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>

**Objectives:**

- ❖ To develop the understanding of the concept and philosophy of inclusive education in the context of education for all.
- ❖ To identify and address diverse needs of all learners
- ❖ To familiarize with the trends and issues in inclusive education
- ❖ To develop an attitude to foster inclusive education
- ❖ To develop and understanding of the role of facilitators in inclusive education
- ❖ To prepare teachers for inclusive schools

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand of the concept and philosophy of inclusive education in the context of education for all.
- ❖ Identify and address diverse needs of all learners
- ❖ Describe the trends and issues in inclusive education

- ❖ Apply the attitude to foster inclusive education
- ❖ Develop and understanding of the role of facilitators in inclusive education
- ❖ Prepare teachers for inclusive schools

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU 702	Language Across the Curriculum	CC	4	30	70	100

#### Objectives:

- ❖ To understand the various mode of language like reading, writing, speaking and listening.
- ❖ To develop the skill of oral and written language.
- ❖ To acquaint with the idea of composition and art of writing i.e. letter, paragraph, application etc.
- ❖ To develop the Vocabulary Building and Language Problems & its Remedies
- ❖ To develop the vocabulary and language proficiency and related remedies.

#### Course Outcomes: After completion of this course students would able to:

- ❖ Understand the nature and use of language.
- ❖ Develop the idea of Multilingualism in class room teaching.
- ❖ Create the sense of language and its flavor.
- ❖ Inculcate language skills among trainees.
- ❖ Evaluate skills creative writing and expression.
- ❖ Acquire the idea of composition and art of writing i.e. letter, Paragraph, application etc.
- ❖ Develop ornamental use of vocabulary in different curriculum.

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 701	Chemistry	Pedagogy of a School Subject <b>Any two CE</b>	4	30	70	100
BSE 702	Physics					
BSE 703	Mathematics					
BSE 704	General Science					
BSE 705	Biology	CE	4	30	70	100

#### BSE 701 : Chemistry

#### Objectives:

- ❖ To develop a broad understanding of the principles and procedures used in modern science specially in chemistry.
- ❖ To develop essential skill for practising modern science education.
- ❖ To understand aims and objectives of chemistry.
- ❖ To gain ability for critically evaluate the existing syllabus of science.
- ❖ To prepare achievement test and diagnostic test.
- ❖ To enable him to organize co-curricular activities related to science.
- ❖ To appreciate the contribution of world scientist in connection with historical development of chemistry.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understanding Importance of Chemistry and correlate it with other subjects
- ❖ Acquaint with the Modern Trends in Chemistry.
- ❖ Gain ability for critically evaluate the existing syllabus of science.
- ❖ Prepare achievement test and diagnostic test.
- ❖ Organize co-curricular activities related to science.

### **BSE 702 : Physics**

**Objectives:**

- ❖ To appreciate the contribution of eminent physicist in connection with the development of the subject.
- ❖ To familiar with the aims and objective of the subject in relation to the present need of the society and educational policies of India.
- ❖ To plan curriculum at the secondary level and analyze the syllabus of the subject in relation to its applicability to practical situation.
- ❖ To develop scientific attitude and provide training in scientific method to their student.
- ❖ To write objectives in behavioural term content analysis and content mapping .
- ❖ To develop yearly plan, unit plan and lesson plan.
- ❖ To plan, equip and organize physics practical in the laboratory.
- ❖ To use various methods with appropriateness of content, level and classroom situation.
- ❖ To prepare test paper for theory and practical work.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Appreciate the contribution of eminent physicist in connection with the development of the subject.
- ❖ Understand with the aims and objective of the subject in relation to the present need of the society and educational policies of India.
- ❖ Plan curriculum at the secondary level and analyze the syllabus of the subject in relation to its applicability to practical situation.
- ❖ Develop scientific attitude and provide training in scientific method to their student.
- ❖ Write objectives in behavioural term content analysis and content mapping .
- ❖ Develop yearly plan, unit plan and lesson plan.
- ❖ Plan, equip and organize physics practical in the laboratory.
- ❖ Use various methods with appropriateness of content, level and classroom situation.
- ❖ Prepare test paper for theory and practical work.

### **BSE 703 : Mathematics**

**Objectives:**

- ❖ To understand and appreciate the uses and significance of Mathematics in daily life
- ❖ To learn various approaches of teaching mathematics and use them judiciously.
- ❖ To know the methods of planning instruction for the classroom.
- ❖ To prepare curricular activities and organize the mathematics Laboratory.
- ❖ To appreciate and organize activities to develop aesthetics of mathematics.



- ❖ To give competence in teaching different mathematics topic effectively

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand and appreciate the uses and Significance of Mathematics in daily life
- ❖ Use various approaches of teaching mathamethics and use them judiciously.
- ❖ Understand the methods of planning instruction for the classroom.
- ❖ Prepare curricular activities and organize the mathematics Laboratory.
- ❖ Appreciate and organize activities to develop aesthetics of mathematics.
- ❖ Give competence in teaching different mathematics topic effectively

### **BSE 704 : General Science**

**Objectives:**

- ❖ To develop the knowledge about science and its nature.
- ❖ To acquire the knowledge about contribution of eminent Indian scientists.
- ❖ To aware about the aims, objectives and construction of curriculum.
- ❖ To develop understanding aout co-curricular activities, methods of teaching and preparation of test paper.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Contribution of eminent Indian scientists in connection with the development of the subject.
- ❖ Familiar with the aims and objectives of the subject in relation to present needs of the society and education policies in India.
- ❖ Plan curriculum at secondary and senior secondary level and analyze the syllabus of the subject in relation to its applicability to practical situations.
- ❖ Identify proper methodology to deal with the content which is to be handled by him as teacher in secondary and higher level.
- ❖ Develop a broad understanding of the principles and procedures used in modern science education.
- ❖ Prepare test paper for evaluation.

### **BSE 705 : Biology**

**Objectives:**

- ❖ To acquire the knowledge of nature and scopes of Biology.
- ❖ To develop understanding the principles of curriculum, planning and E-resources in Biology.
- ❖ To develop awareness about various approches and innovative methods of Biological science for effective teaching learning process.
- ❖ To develop knowledge of multisensory teaching aids to enhance students engagement and activity based learning.
- ❖ To aware about construction of blue print, dignostic test and remedial self learning material and conduct CCE procedure.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Acquire the knowledge of nature and scopes of Biology.

- ❖ Understand the principles of curriculum, planning and E-resources in Biology.
- ❖ Know and apply the various approaches and innovative methods of Biological science for effective teaching learning process.
- ❖ Apply knowledge of multisensory teaching aids to enhance students engagement and activity based learning.
- ❖ Construct blue print, diagnostic test and remedial self learning material and conduct CCE procedure.

#### Semester VII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
BSE 706	Optional Course Environmental Education	<b>Any one CE</b>	<b>4</b>	<b>30</b>	<b>70</b>	<b>100</b>
BSE 707	Health and Physical					
BSE 708	Guidance and Counseling					
BSE 709	Distance Education					
BSE 710	Additional Course (Any one)					
	5.1 Chemistry					
	5.2 Physics					
	5.3 Mathematics					
	5.4 General Science					
	5.5 Biology					

#### BSE 706 : Environmental Education

##### Objectives:

- ❖ To understand the problems of concerning environment through multi disciplinary approach.
- ❖ To develop the skill of planning and organizing ecological activities in the schools.
- ❖ To create consciousness about environment among the adult learners.
- ❖ To give information on different techniques and materials for the affective dissemination of environmental information.

##### Course Outcomes: After completion of this course students would able to:

- ❖ Students are able to understand the problems concerning environment through multi disciplinary approach.
- ❖ Students are able to develop the skill of planning and organizing Ecological activities in the schools so the children can equipped to play their part in protection and enrichment of environment.
- ❖ Students are able to create Environment Consciousness among the adult learners.
- ❖ Students are able to use different Techniques and materials for the affective Dissemination of Environmental information.
- ❖ Students are able to conduct local surveys, arrange field trips Environmental games and hobbies.

#### BSE 707 : Health and Physics

##### Objectives:

- ❖ To develop the organic system of the body.
- ❖ Development of understanding and appreciation of the techniques and strategies of sports
- ❖ To develop correct health habits.

- ❖ Attainment of knowledge of proper health procedure as related with physical exercise.
- ❖ The physical education program will allow the students to participate in developmentally appropriate activities.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop the organic system of the body.
  - ❖ Understand and appreciation of the techniques and strategies of sports
  - ❖ Aware about correct health habits.
- Attain knowledge of proper health procedure as related with physical exercise

### **BSE 708: Guidance and Counseling**

**Objectives:**

- ❖ To educate about the basics concept, nature and scope of Educational and Vocational guidance.
- ❖ To understand the aims objective of educational and vocational guidance.
- ❖ To make enable about the importance of educational and vocational guidance.
- ❖ To give knowledge of role and responsibilities of guidance workers in school.
- ❖ To understand the nature and types of guidance service & with reference to school education.
- ❖ To understand the concept, nature and types of counseling.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the basic concept, Nature and scope of Educational and Vocational guidance.
- ❖ Describe aims objective of educational and vocational guidance.
- ❖ Understand importance of educational and vocational guidance.
- ❖ Identify nature and types of guidance service & with reference to school education.
- ❖ Understand the concept, nature and types of counseling.

### **BSE 709: Distance Education**

**Objectives:**

- ❖ To provide an effective alternative path to wider opportunities in education and especially in higher education.
- ❖ To provide an efficient and less expensive education.
- ❖ To provide education facilities to all qualified and willing persons.
- ❖ To provide opportunities of academic pursuits to educate citizens willing to improve their standard of knowledge.
- ❖ To provide education facilities to those individuals who look upon education as a life-long activity.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Provide an effective alternative path to wider opportunities in education and especially in higher education.
- ❖ Understand an efficient and less expensive education.
- ❖ Explain education facilities to all qualified and willing persons.
- ❖ Identify the opportunities of academic pursuits to educate citizens willing to improve their standard of knowledge.

### **BSE 710: 5.1 Chemistry**

**Objectives:**

- ❖ To gain the knowledge of Chemistry for secondary and senior secondary level.
- ❖ To improve the various skills of student teachers in practical work.
- ❖ To understand the practical and theoretical description of various content.
- ❖ To solve different problems related with the content of chemistry.
- ❖ To know importance and use of course content.
- ❖ To plan, equip and organize chemistry practical in the laboratory.
- ❖ To use various methods with appropriateness of content, level and class room situations.
- ❖ To develop scientific attitude and provide training in scientific method to their students.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Gain the knowledge of Chemistry for secondary and senior secondary level.
- ❖ Improve the various skills of student teachers in practical work.
- ❖ Understand the practical and theoretical description of various content.
- ❖ Solve different problems related with the content of chemistry.
- ❖ Know importance and use of course content.
- ❖ Plan, equip and organize chemistry practical in the laboratory.
- ❖ Use various methods with appropriateness of content, level and class room situations.
- ❖ Develop scientific attitude and provide training in scientific method to their students.

**BSE 710: 5.2 Physics****Objectives:**

- ❖ To gain the knowledge of concepts of physics.
- ❖ To improve the various skills of student teachers in practical work.
- ❖ To understand the practical and theoretical description of various content.
- ❖ To able for solving different problems related with the content of physics.
- ❖ To plan, equip and organize physics practical in the laboratory.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Gain the knowledge of physics for secondary and senior secondary level.
- ❖ Improve the various skills of student teachers in practical work.
- ❖ Understand the practical and theoretical description of various content.
- ❖ Solve different problems related with the content of physics.
- ❖ Plan, equip and organize physics practical in the laboratory.

**BSE 710: 5.3 Mathematics****Objectives:**

- ❖ To gain the knowledge of Mathematics.
- ❖ To know different methods for solve mathematical problems.
- ❖ To understand the mathematics formulas and use them appropriately.
- ❖ To solve various types of mathematical problems

**Course Outcomes:** After completion of this course students would able to:

- ❖ Gain the knowledge of Mathematics.
- ❖ Know the different methods for solve mathematical problems.
- ❖ Understand the mathematics formulas and use them appropriately.
- ❖ Solve various types of mathematical problems

### **BSE 710: 5.4 General Science**

**Objectives:**

- ❖ To develop knowledge of General Science for secondary and Senior Secondary level
- ❖ To improve various skills of student teachers in practical work
- ❖ To understand the practical and theoretical description of various content
- ❖ To solve different problems related with the content of science
- ❖ To make student teachers to know importance and use of course content
- ❖ To plan, equip and organize physics practical in the laboratory.
- ❖ To use various methods with appropriateness of content, level and class room situation.
- ❖ To develop scientific attitude and provide training in scientific method to their students.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Gain the knowledge of General Science for secondary and Senior Secondary level
- ❖ Improve various skills of student teachers in practical work
- ❖ Understand the practical and theoretical description of various content
- ❖ Different problems related with the content of science
- ❖ Make student teachers to know importance and use of course content
- ❖ Plan, equip and organize physics practical in the laboratory.
- ❖ Use various methods with appropriateness of content, level and class room situation.
- ❖ Develop scientific attitude and provide training in scientific method to their students.

### **BSE 710: 5.5 Biology**

**Objectives:**

- ❖ To understand the various concepts related to Biology.
- ❖ To facilitate the development of Scientific Temper in learner.
- ❖ To provide critical and analytical knowledge to student teacher.
- ❖ To enhance creativity, skillfulness and teaching abilities among trainees to teach the school level students.
- ❖ To develop the skills related to problem solving, critical analysis and awareness to solve various health problems of community.
- ❖ To stimulate curiosity, application of knowledge and constructive thinking among the student teacher for whole biosphere.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the various concepts related to Biology.
- ❖ Facilitate the development of Scientific Temper in learner.
- ❖ Provide critical and analytical knowledge to student teacher.
- ❖ Enhance creativity, skillfulness and teaching abilities among trainees to teach the school level students.
- ❖ Develop the skills related to problem solving, critical analysis and awareness to solve various health problems of community.
- ❖ Stimulate curiosity, application of knowledge and constructive thinking among the student teacher for whole biosphere.

#### Semester VIII

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
EDU-801	Knowledge and Curriculum (part-A)	CC Any one	4	30	70	100
EDU -802	Knowledge and Curriculum (part-B)					

#### EDU 801 : Knowledge and Curriculum (part-A)

**Objectives:**

- ❖ To know the concept objective and principles of curriculum.
- ❖ To develop the idea and bases of curriculum.
- ❖ To understand various types of curriculum.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Understand the concept, objective and principles of curriculum.
- ❖ Develop the idea and bases of curriculum.
- ❖ Evaluate the relevancy of curriculum.
- ❖ Describe various approaches to curriculum construction.

#### EDU 802 : Knowledge and Curriculum (part-B)

**Objectives:**

- ❖ To develop ideas of philosophical bases of curriculum
- ❖ To various Sociological bases of curriculum
- ❖ To develop various psychological bases of curriculum
- ❖ To develop Educational New Trends of curriculum

**Course Outcomes:** After completion of this course students would able to:

- ❖ Describe various philosophical bases of curriculum
- ❖ Understand various Sociological bases of curriculum
- ❖ Acquire various psychological bases of curriculum
- ❖ Develop Educational New Trends of curriculum

**Semester VIII**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Total
<b>EDU -803</b>	Post Internship	CC	16	<b>160 Internship+ 120+120=240 Practical (Two Subjects final lesson)</b>		<b>400</b>

**Post Internship distribution (16 Weeks)**

**Objectives:**

- ❖ To develop unit plan and lesson plan
- ❖ To write objective in behavioural terms
- ❖ To observe the lessons of the school teachers.
- ❖ To prepare schedule of various activities for studentns.
- ❖ To organize different co-curricular activities in the school.
- ❖ To prepare blue pring and test paper for different classes.

**Course Outcomes:** After completion of this course students would able to:

- ❖ Develop unit plan and lesson plan
- ❖ Write objective in behavioural terms
- ❖ Observe the lessons of the school teachers.
- ❖ Prepare schedule of various activities for studentns.
- ❖ Organize different co-curricular activities in the school.
- ❖ Prepare blue pring and test paper for different classes.

## Programmes Outcomes and Course Outcomes of B.Com

### बी.कॉम. पाठ्यक्रम की उपलब्धि

उपलब्धियां :

1. इस पाठ्यक्रम द्वारा ABST, EAFM and Business administration के क्षेत्र में विद्यार्थी की ज्ञानात्मक और अनुप्रयोगात्मक क्षमता का विकास होगा।
2. विद्यमान एवं भावी व्यावसायिक गतिविधियों से परिचित होंगे।
3. उच्च शिक्षा एवं प्रतियोगी परीक्षाओं की आधारभूमि तैयार होगी जो विद्यार्थियों के लिए लाभदायी होगी।
4. रोजागारोन्मुखी क्षमता का विकास होगा।



# Objectives and Course Outcomes

**B.Com. (First Year) Semester-I**  
**SUBJECT : GENERAL ENGLISH**  
**(Core Foundation Paper)**

**M.M. : 70**  
**Credit 3+1=4**

## Objective:

1. Students will be able to recognize and understand the meaning of targeted grammatical structures in written and spoken form.
2. Students will practice the grammar skills involved in writing sentences and short paragraphs.

## Course Outcomes::

1. Students will begin to self-edit their oral and written production.
2. Students will make less grammatical errors.
3. Students will become clear of grammatical terms.
4. Students will get exposure of writing letters, application and paragraph.

स्नातक बी.कॉम. प्रथम वर्ष (अनिवार्य चयनित पत्र) समूह (द)  
विषय— अहिंसा एवं शांति  
पत्र— अहिंसा एवं अणुव्रत

पूर्णांक : 50  
क्रेडिट : 2+1+1=4

## उद्देश्य—

1. अणुव्रत के विशेष संदर्भ में अहिंसा तत्त्व को समझाना।

## उपलब्धियाँ—

1. अणुव्रत आंदोलन को जानकर संयम की दिशा में आगे बढ़ेंगे।

## B.Com. (First Year)

### PAPER-I: FINANCIAL ACCOUNTING

**M.M. : 70**  
**Credit : 3+1=4**

## Objectives -

1. To give primary knowledge of accountancy.
2. Knowledge of principal of accountancy.
3. To tell concepts of accountancy.
4. Checking of accountancy.

## Course Outcomes:-

1. To receive knowledge of fundamental of accounts.

2. Increase in knowledge of auditing.
3. Students let experience of all type of accounts information.

**B.Com. (First Year)**  
**PAPER-II: BUSINESS LAW**

**M.M. : 70**  
**Credits : 3+1=4**

**Objective:**

1. This Course enables the students to know about the laws enforced for proper regulation of Trade & Business.
2. To have deep knowledge of contract act and sale of Goods Act
3. To make aware of their rights & duties as a seller and as a buyer.

**Course Outcomes:-**

1. After studying this paper, students will come to know1. About the basics of the Act running for smooth functioning of business.
2. Complete knowledge of Contract Act
3. Complete Knowledge of Sale of Goods Act.
4. Awareness about their right & duties.

**B.Com. (First Year)**  
**PAPER-III: BUSINESS ECONOMICS**

**M.M.: 70**  
**Credit : 3+1=4**

**Objective-**

1. Acquainted the student with information of economics.
2. Aware the students about basic principle of economics.
3. To get knowledge of market and their conditions.
4. To understand micro and macro economics concepts.

**Course Outcomes -**

1. By studying this students know about the primary information of economics.
2. Students know the recent trends in banking.
3. Know banking act, their sections and current changes.
4. Students aware current banking condition of India.

**स्नातक बी.कॉम (प्रथम वर्ष)**  
**विषय—जैन संस्कृति एवं जीवन मूल्य (अनिवार्य पत्र)**

**पूर्णांक 50**  
**क्रेडिट : 2+1+1=4**

**उद्देश्य—**

1. जैन संस्कृति एवं भगवान महावीर का परिचय देना
2. जैन सिद्धान्तों का परिचय देना।
3. जीवन मूल्यों का प्रायोगिक प्रशिक्षण देना।

**उपलब्धियाँ—**

1. जैन संस्कृति से परिचित होंगे।
2. जैन साहित्य और सिद्धान्तों से परिचित होंगे।
3. जैन जीवन शैली से मूल्यों का विकास होगा।



स्नातक बी.कॉम प्रथम वर्ष (चयनित अनिवार्य पत्र)  
विषय—अहिंसा एवं शांति  
पत्र— मानवाधिकार एवं कर्तव्य की जानकारी देना  
सेमेस्टर – II

पूर्णांक : 50  
क्रेडिट : 2+1+1=4

**उद्देश्य—**

1. मानवाधिकार एवं कर्तव्य की जानकारी देना।

**उपलब्धियाँ—**

1. मानवाधिकारों एवं कर्तव्यों के प्रति जागरूकता बढेगी।

**B.Com. (First Year)**  
**PAPER-I: BUSINESS STATISTICS**

**M.M. : 70**  
**Credit : 3+1=4**

**Objectives -**

1. To give knowledge of data system.
2. Knowledge of principal of Statistics.
3. Application of statistics in different situation.
4. Apply differential methods of statistics.

**Course Outcomes: -**

1. Fundamental knowledge of Statistics.
2. Apply different method of Economics in Statistics.
3. Application of Statistics in Mathematics.

**B.Com. (First Year)**  
**PAPER-II : BUSINESS MANAGEMENT**

**M.M. : 70**  
**Credits : 3+1=4**

**Objectives :**

1. To make students aware of the basics of the management.
2. To make aware of the skills of communication.
3. To have knowledge of various theories like motivation, leadership.
4. To know about stress and time management.

**Course Outcomes: :**

After Studying this paper, students will come to know the following-

1. About Management and its functions.
2. About theories of Motivation & Leadership.
3. To cope up with stress.
4. To Manage time.

**B.Com. (First Year)**  
**PAPER-III : INDIAN BANKING SYSTEMS**

**M.M. : 70**

**Credit : 3+1=4**

**Objectives-**

1. To get knowledge of basic banking (Primary & Secondary Banking)
2. Students aware of current changes in Banking System.
3. To get knowledge of banking Regulation Act (1934 and 1949)
4. To aware them about banks type and Negotiable Instrument.

**Course Outcomes:-**

1. Students are aware about banking and recent changes.
2. Students know the recent trends in banking.
3. Know banking act, their sections and current changes.
4. Aware about current banking condition of india students.

स्नातक बी.कॉम. द्वितीय वर्ष  
विषय-हिन्दी (अनिवार्य पत्र)  
सेमेस्टर-III

पूर्णांक-70  
क्रेडिट: 3+1=4

**उद्देश्य-**

1. हिन्दी व्याकरण- संज्ञा, सर्वनाम, कारक, पर्यायवाची, विलोमशब्द, समुच्चारित भिन्नार्थक शब्द, मुहावरें, लोकोक्तियाँ आदि का सामान्य ज्ञान करवाना।
2. देवनागरी लिपि का परिचय देना।
3. व्यावहारिक पत्रों की जानकारी देना।

**उपलब्धियाँ-**

1. विद्यार्थियों का व्याकरण के ज्ञान में वृद्धि होगी।
2. विद्यार्थी कार्यालय पत्र लिखने में समर्थ हो सकेंगे।
3. विद्यार्थी देवनागरी लिपि के महत्त्व, उसकी विशेषता आदि से अपने ज्ञान में वृद्धि करेंगे।

**B.Com. IInd Year (Core Elective Subject)**

**Subject - Social Work**

**Paper - Introduction to Social Work**

**M.M. - 70**  
**Credit - 3+1=4**

**Objectives -**

1. To Understand about basic concepts of Social Work.

**Course Outcomes:** - Students will under stand the basic concepts of social work.

**B.Com. (Second Year)**

**PAPER-I: CORPORATE ACCOUNTING**

**M.M. : 70**  
**Credit : 3+1=4**

**Objectives -**

1. To give knowledge of company accounts
2. Create a company & data base
3. To give knowledge of Auditing & checking.

**Course Outcomes-**

1. Fundamental knowledge of Accounting.
2. Apply different methods of Company A/C
3. Tax & Rebates in corporate sector.

**B.Com. (Second Year)**  
**PAPER-II : COMPANY LAW**

**M.M. : 70**  
**Credits : 3+1=4**

**Objectives:**

1. To make students aware of The New Companies Act, 2013.
2. To have basic Knowledge of company regarding. Its Meaning, types & formation.
3. About Basic Documents of Company.
4. To know about winding up of company.

**Course Outcomes -**

After studying this paper. Students will come to know about -

1. Basics of the company.
2. Formalities required for opening up of a company.
3. How company can be winded up.
4. Amendments in the Act from time to time.

**B.Com. (Second Year)**  
**PAPER-III : FINANCIAL MANAGEMENT**

**M.M. : 70**  
**Credit : 3+1=4**

**Objective-**

1. To aware the nature and objective of financial management.
2. To aware about different aspects of inventory & dividend management.
3. Aware about cost of capital and different capital budgeting techniques.
4. To aware about different aspect of financial management.

**Course Outcomes -**

1. Students gets knowledge of financial management Principles.
2. Students know about recent financial of changes.
3. Students know the different concept of Financial management

स्नातक बी.कॉम द्वितीय वर्ष  
विषय-पर्यावरण (अनिवार्य पत्र)  
सेमेस्टर-IV

पूर्णांक-50  
क्रेडिट : 2+1+1=4

**उद्देश्य-**

1. पर्यावरण के बारे में जानकारी देना।
2. पर्यावरण के प्रति जागरूकता बढ़ाना।

**उपलब्धियाँ-**

1. पर्यावरण के बारे में जानकारी मिलेगी।
2. पर्यावरण के प्रति जागरूकता बढ़ेगी।

**B.Com (Core elective) Group (D)**  
**Subject - Social Work**  
**Paper - Social Work Methods & Interventions**

M.M. 70  
Credit : 3+1=4

**Objectives -**

1. To Understand Methods of Social Work.
2. To know about fields of Social Work.

**Course Outcomes: -**

Students will know methods of Social work and be able to apply in his society.

**B.Com. (Second Year)**

**PAPER-I : INCOME TAX LAW**

**M.M. : 70**  
**Credit : 3+1=4**

**Objectives -**

1. To give knowledge of Taxation.
2. To give knowledge of rates of tax individual HUF & Firm.
3. Apply different heads as salary, House property Business & Profession. Capital gain others sources.

**Course Outcomes -**

1. Fundamental Knowledge of Income Tax.
2. Knowledge of direct tax impact on individual.
3. Knowledge of principal of income tax.



**B.Com. (Second Year)**  
**PAPER-II : HUMAN RESOURCE MANAGEMENT**

**M.M. : 70**  
**Credit : 3+1=4**

**Objective-**

This paper deals with providing knowledge regarding:

1. Human Resource Management, as a part of management.
2. Human Resource Planning, their recruitment, selection process and methods of training and development.
3. How employees are compensated and performance of employees is evaluated.

**Course Outcomes: –**

1. Knowledge regarding Personnel Management/HR management will be enhanced.
2. Students as a job seeker will come to know about the barriers.
3. As a manager, this paper will help them to manage & motivate people for fulfillment of any task
4. Leadership quality will be inculcated.

**B.Com. (Second Year)**  
**PAPER-III : BUSINESS ENVIRONMENT**

**M.M. : 70**  
**Credit : 3+1=4**

**Objective-**

1. Understanding of Business Environment and Its different components and aspects.
2. To understand about social problem, their removal and Govt. steps taken to remove these.
3. To understand, Liberalization, Privatization and Globalization and their Impact.
4. Aware the students about different Policies. Like (Monetary, fiscal, Export Import etc.)
5. Student came to know about international trading environment.

**Course Outcomes: -**

1. Understanding of Business Environment and Its different components, Aspects.
2. To understand about social problem, their removal and Govt. steps taken to remove these.
3. To understand, LPG and their impact on Indian economy.
4. Students know about different policies of India.
5. Students came to know about international trading environment.

**B.Com. (Third Year)**  
**Subject : Basics of Computer**  
**(Compulsory Paper)**  
**Semester - V**

**M.M. 50**  
**Credit - 2+1+1=4**

**Objective :**

To enable students to be aware of using MS Word, MS PowerPoint, Excel and Internet. Students will be able to do daily work using these tools and able to surf internet, download and send emails easily.

**Course Outcomes: :**

1. Students will be able to apply word, excel and powerpoint in their daily work.
2. Students will be able to make use of internet for their study purpose and will be able to create blog to exhibit their talent.

**B.Com. Third Year (Core Elective Paper) (Group C)**  
**Subject – Psychology**  
**Paper - General Psychology-I**  
**Semester – V**

**Marks 50**  
**Credit : 2+1+1=4**

**Objectives:**

1. To understand the concepts of basic Psychological process.
2. To understand the application of psychological concepts in daily routine problems.

**Course Outcomes: -**

1. Students will be aware of various Psychological approach and environment which will lead to the development of human behaviour.

**B.Com. (Third Year)**  
**PAPER-I: COST ACCOUNTING**

**M.M. : 70**  
**Credit : 3+1=4**

**Objectives-**

1. To give knowledge of Costing.
2. Knowledge of the elements of Cost.
3. Application of Costing in different methods.
4. Apply Standard & Marginal Costing.

**Course Outcomes: -**

1. Fundamental Knowledge of Costing.
2. Apply different methods of cost accounting.
3. Budgetary control in Costing.

**B.Com. (Third Year)**  
**PAPER-II: INDUSTRIAL LAW**

**M.M. : 70**  
**Credit : 3+1=4**

**Objective -**

**This Paper aims of at providing knowledge regarding-**

1. Acts and laws prevailing in the country for industries.
2. Factory Act, Bonus Act, Wages, Act, Trade Union Act and Disputes Act and Disputes Act.
3. Importance of the above acts for proper maintenance of industries and solving grievances arising in an industry.

**Course Outcomes:-**

1. Students will aware about various laws prevailing in the country for proper regulation of industries.
2. This paper will help to know their rights & duties as an employee/worker.
3. The impact of working of industries on country is economic development can be assessed, up to some extent.

**B.Com. (Third Year)**

**PAPER-III : AUDITING**

**M.M.: 70**

**Credit : 3+1=4**

**Objectives-**

1. To make student understand about the auditing & their Importance.
2. Students came to know about the fundamental and types of auditing.
3. Students came to know about different concept like CARO and others.
4. Students came to know concept like Vouching, internal control and check etc.
5. Students aware about Right, Duties and power of an auditor

**Objectives -**

1. Students acquainted with auditing and their importance.
2. Students know about relevance and current trends of auditing.
3. Different auditing concepts have to be known by students.

**B.Com. (Third Year)**  
**SUBJECT : PREKSHA LIFE SKILLS**  
**(Compulsory Paper)**  
**Semester – VI**

**M.M. : 50**  
**Credit : 2+1+1=4**

**Objective of PLS :**

To develop multi-dimensional personality with :

1. Self-confidence by mastering Inter personal skill, Team management skill and Leadership skill.
2. A mature outlook by increasing attitudes and attributes to function effectively in different circumstances.
3. Effective Communication Skill to express attitudes, ideas and other thoughts well.
4. Effective Presentation Skill that increases creativity.

**Course Outcomes :**

1. Student acquainted with different managerial concepts.
2. Students are able to handle pressure conditions with ease.
3. Students become good with their communications skills and presentation skills.

**B.Com. Third Year ( Core Elective Paper) (Group D)**  
**Subject – Psychology**  
**Paper - General Psychology-II**

Marks 50  
Credit : 2+1+1=4

**Objectives:**

- To enable students to develop an understanding of general principles of Psychology.
- To understand the concepts of Psychology and This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.
- To understand how psychological can be hundred in terms of various psychological principle.

**Course Outcomes:-**

1. This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.

**B.Com. (Third Year)**  
**PAPER-I : MANAGEMENT ACCOUNTING**

**M.M. : 70**  
**Credit Allotted 3+1=4**

**Objectives -**

1. To give knowledge of Management Accounting.
2. Knowledge of Principal of Management.
3. Create Ratio fund flow & Cash flow in Management Accounting.

**Course Outcomes: -**

1. Fundamental knowledge of Management A/C.
2. Apply different Methods of Management Accounting.
3. Useful for Managers & Directors of a Company.

**B.Com. (Third Year)**

**PAPER-II : MARKETING MANAGEMENT**

**M.M. : 70**

**Credit : 3+1=4**

**Objectives-**

1. Concept of Marketing and selling.
2. Marketing Mix, Market Segmentation & Marketing Environment.
3. Distribution Channels.
4. Product Planning & Development.

**Course Outcomes:-**

1. Students will be aware of the current system of marketing going on.
2. Knowledge regarding product (Its quality, value, packaging, branding) will be enhanced.
3. As a customer, they will be able to purchase right product at right time & in a right price.
4. In short, knowledge about current market scenario will enhance.

**B.Com. (Third Year)**

**PAPER-III: FUNDAMENTAL OF ENTREPRENEURSHIP**

**M.M. : 70**

**Credit : 3+1=4**

**Objectives -**

1. Role of Entrepreneur & their Importance & Economic development
2. Tell them about different theories of Entrepreneurship.
3. To tell them about EDP
4. To tell about Venture, Legality for establishing a venture.
5. Student interaction with Entrepreneurs.

**Course Outcomes: -**

1. The acquainted about the role of Entrepreneurship
2. Students understand different Innovation technique adopted by entrepreneur.
3. Understand & implementing these in their lives about different concepts.
4. To be self employed.
5. To Contribute in countries Growth.

## **Programmes Outcomes and Course Outcomes of B.A.**

### **बी.ए. पाठ्यक्रम की उपलब्धि**

**उपलब्धियाँ :**

1. इस पाठ्यक्रम द्वारा चयनित विषयों के क्षेत्र में विद्यार्थी की ज्ञानात्मक और अनुप्रयोगात्मक क्षमता का विकास होगा।
2. विद्यमान एवं भावी चुनौतियों से परिचित होंगे।
3. उच्च शिक्षा एवं प्रतियोगी परीक्षाओं की आधारभूमि तैयार होगी।
4. रोजागारोन्मुखी क्षमता का विकास होगा।

# Objectives and Course Outcomes

B.A. (First Year)  
SUBJECT : GENERAL ENGLISH  
(Core Foundation Paper)  
Semester-I

M.M. : 70  
Credit 3+1=4

## Objective:

1. Students will be able to recognize and understand the meaning of targeted grammatical structures in written and spoken form.
2. Students will practice the grammar skills involved in writing sentences and short paragraphs.

## Course Outcomes::

1. Students will begin to self-edit their oral and written production.
2. Students will make less grammatical errors.
3. Students will become clear of grammatical terms.
4. Students will get exposure of writing letters, application and paragraph.

स्नातक प्रथम वर्ष (अनिवार्य चयनित पत्र) समूह (द)  
विषय— अहिंसा एवं शांति  
पत्र— अहिंसा एवं अणुव्रत

पूर्णांक : 50  
क्रेडिट : 2+1+1=4

## उद्देश्य—

1. अणुव्रत के विशेष संदर्भ में अहिंसा तत्त्व को समझाना।

## उपलब्धियाँ—

1. अणुव्रत आंदोलन को जानकर संयम की दिशा में आगे बढ़ेंगे।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (अ)  
विषय—आगम विद्या एवं प्राकृत साहित्य  
पत्र—प्राकृत व्याकरण एवं साहित्य

पूर्णांक : 70  
क्रेडिट : 3+1=4

## उद्देश्य—

1. प्राकृत की परिभाषा, उसके साधारण नियम एवं स्वर परिवर्तन बताना।
2. प्राकृत स्वयं शिक्षक के माध्यम से प्राकृत में वाक्य बनाने का अभ्यास करवाना।
3. दसवेआलियं आगम का अध्ययन करवाना।

## उपलब्धियाँ—

1. प्राकृत भाषा सीखने का विकास होगा।
2. दसवेआलियं के द्वारा आगम शैली से अवगत होंगे।



स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (अ)

विषय—अहिंसा एवं शांति

पत्र—अहिंसा और शांति भारतीय दृष्टि

पूर्णांक : 70

क्रेडिट अलॉटेड : 3+1=4

**उद्देश्य—**

1. अहिंसा के स्वरूप की जानकारी देना।
2. भारतीय दर्शनों में वर्णित अहिंसा दर्शन से परिचित करवाना।

**उपलब्धियाँ—**

1. अहिंसा का स्वरूप जानेंगे।
2. भारतीय परिप्रेक्ष्य में अहिंसा दर्शन को समझेंगे।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (अ)

विषय—हिन्दी साहित्य

पत्र—मध्यकालीन साहित्य

पूर्णांक : 70

क्रेडिट : 3+1=4

**उद्देश्य—**

1. भक्तिकालीन काव्य एवं कवियों से परिचित करवाना।
2. साहित्य के विभिन्न रूपों की जानकारी प्रदान करना।
3. विभिन्न साहित्यकारों की काव्यशैलियों से परिचित करवाना।

**उपलब्धियाँ—**

1. भक्तिकालीन साहित्य से प्रेरणा प्राप्त कर जीवन में आध्यात्मिक मार्ग पर अग्रसर होंगे।
2. विभिन्न साहित्यकारों की लेखनशैली से परिचित होकर स्वयं की लेखन शैली विकसित कर सकेंगे।
3. भक्तिकालीन साहित्य की जानकारी प्राप्त कर भावी प्रतियोगिता परीक्षाओं के लिये स्वयं को तैयार कर सकेंगे।

**B.A. (First Year) (Optional Paper) Group - 'A'**

**Subject - English Literature**

**Paper : Poetry and Drama**

**MM : 70**

**Credit : 3+1=4**

**Objectives -**

1. To enable the students to know about the Elizabethan poetry and Romantic Poetry.
2. To give them the knowledge of the Forms of Literature.
3. To make them aware about Indian poetry.

**Course Outcomes:s –**

1. The students can understand poetry.
2. They learn the differences between the Figures of Speech and Forms of Literature.

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (कालू कौमुदी)

पूर्णांक : 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. स्वरों एवं व्यंजनों का सामान्य ज्ञान करवाना।
2. शब्दों की सन्धि एवं सन्धि विच्छेद का अभ्यास करवाना।
3. लघु कथाओं से संस्कृत भाषा का अभ्यास करवाना।

उपलब्धियाँ—

1. स्वरों के ज्ञान से उच्चारण शुद्धि होगी।
2. संस्कृत भाषा को बोलने व समझने का अभ्यास होगा।
3. लेखन कला का विकास होगा।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (लघुसिद्धांत कौमुदी)

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. स्वरों एवं व्यंजनों का सामान्य ज्ञान करवाना।
2. शब्दों की सन्धि एवं सन्धि विच्छेद का अभ्यास करवाना।
3. लघु कथाओं से संस्कृत भाषा का अभ्यास करवाना।

उपलब्धियाँ—

1. स्वरों के ज्ञान से उच्चारण शुद्धि होगी।
2. संस्कृत भाषा को बोलने व समझने का अभ्यास होगा।
3. लेखन कला का विकास होगा।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय—राजनीति विज्ञान  
पत्र—राजनीति विज्ञान के मूल आधार  
सेमेस्टर – I

पूर्णांक : 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. विद्यार्थियों को राजनीति विज्ञान के आधारभूत सिद्धान्तों की जानकारी देना।
2. विद्यार्थियों को राजनीति विज्ञान की विभिन्न अवधारणाओं से परिचित करवाना।
3. विद्यार्थियों की प्रतियोगी परीक्षाओं में तर्क शक्ति बढ़ाना।

उपलब्धियाँ—

1. विद्यार्थी राजनीति विज्ञान के आधारभूत सिद्धान्तों को जान सकेंगे।
2. विभिन्न अवधारणाओं के तुलनात्मक अध्ययन से वैज्ञानिक दृष्टिकोण का विकास कर सकेंगे।
3. परम्परागत एवं आधुनिक राजनीतिक सिद्धान्तों की जानकारी प्राप्त कर सकेंगे।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (ब)

विषय—जीवन विज्ञान

पत्र—जीवन विज्ञान के सिद्धान्त

पूर्णांक : 50

क्रेडिट : 2+1+1=4

**उद्देश्य—**

1. भारतीय संस्कृति की जानकारी देना।
2. जीवन विज्ञान के उद्भव और विकास को समझाना।
3. जीवन विज्ञान के मूल अंगों से परिचित करवाना।
4. अनेकांत और अहिंसा के सैद्धांतिक और प्रायोगिक बिन्दुओं को समझाना।

**उपलब्धियाँ—**

1. भारतीय संस्कृति की सुरक्षा के उपायों की जानकारी प्राप्त कर सकेंगे।
2. जीवन-विज्ञान विषय को जान सकेंगे।
3. वर्तमान में अनेकान्त की प्रासंगिकता को जान सकेंगे।
4. विश्व शान्ति एवं आतंकवाद के निवारण में अहिंसा की भूमिका को जान सकेंगे।

**B.A. First Year (Optional Subject) (Group B)**

**Subject : Social Work**

**Paper - Social Work: Concept and Practice**

**Semester – I**

**M.M. : 70**

**Credit : 3+1=4**

**Objectives:**

1. Understand the basic Social Work concepts, principles, theories & its application in social work profession.
2. Understand the history of Social Work Profession in India & abroad.
3. Understand the basic values and principles of Social Work profession.

**Course Outcomes:-**

1. Student will understand the basic Social Work concepts, principles, theories & its application in social work profession.
2. Student will understand the history of Social Work Profession in India & abroad.
3. Student will Understand the basic values and principles of Social Work profession.

**B.A (I & II Semester)**

**Subject: Information Technology**

**Objective:**

1. This paper is intended to be the first basic course for the students of Information Technology. The main objectives of this course are;
2. It will expose the students to the fundamentals of the IT
3. Students will be having the introductory knowledge of the MS-Windows
4. Practically students will be able to use MS-PowerPoint and MS-Word.

**Course Outcomes::**

- Students will apply the knowledge of IT practically in their day to day life.
- Students will be able to work on computers comfortably.
- Students will be able to create well formatted documents and attractive presentations.

**B.A I Year (Optional Subject) (Group C)**  
**Subject: Information Technology**  
**Paper: FUNDAMENTALS OF IT & APPLICATION SOFTWARE– I**

**M.M. 50**  
**Credit : 2+1+1=4**

**Objective:**

This paper is intended to be the first basic course for the students of Information Technology. The main objectives of this course are;

- It will expose the students to the fundamentals of the IT
- Students will be having the introductory knowledge of the MS-Windows
- Practically students will be able to use MS-PowerPoint and MS-Word.

**Course Outcomes::**

- Students will apply the knowledge of IT practically in their day to day life.
- Students will be able to work on computers comfortably.
- Students will be able to create well formatted documents and attractive presentations.

**B.A. Ist Year (Optional Subject) (Group C)**

**SUBJECT - PSYCHOLOGY**  
**PAPER - BASIC PSYCHOLOGICAL PROCESSES**

Marks 50  
Credit : 2+1+1=4

**Objective:**

1. To understand the fundamental principles of Psychology of human behaviour.
2. To understand the functional inter relationship of different concepts of Psychology.

**Out Comes :**

1. Understand the fundamental principles of Psychology of human behaviour.
2. Understand the functional inter relationship of different concepts of Psychology.

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह-स  
सेमेस्टर-I  
विषय : इतिहास  
पत्र : प्राचीन भारत का इतिहास  
(प्रारंभ से 1206 ई. तक)

पूर्णांक : 70  
क्रेडिट : 3+1=4

**उद्देश्य-**

1. विद्यार्थियों को प्राचीन भारतीय इतिहास का ज्ञान प्रदान करना।
2. विभिन्न कलाओं की मुख्य विशेषताओं से परिचित करवाना।
3. विद्यार्थियों के प्राप्त इतिहास के ज्ञान को प्रतियोगी परीक्षाओं के लिये उपयोगी बनाना।

**उपलब्धियाँ-**

1. विद्यार्थी गौरवशाली प्राचीन भारतीय इतिहास को जान पायेंगे।
2. स्थापत्य कला का तुलनात्मक अध्ययन कर पायेंगे।
3. इतिहास का ज्ञान प्राप्त कर प्रतियोगी परीक्षाओं में सफलता प्राप्त कर पायेंगे।

**B.A I Year (Optional subject) Group C**  
**Subject: Geography**  
**Paper : Physical Geography**

M.M.-50  
Credit-2+1+1=4

**Objects-**

1. To make aware of physical Geography in Detail.
2. Knowledge about interior layers of Earth.
3. Deep Knowledge about all the layers of Atmosphere.

**Course Outcomes:-**

1. Knowledge about three branches of physical geography : Geomorphology, Climatology and Oceanography.
2. Get Aware about the reasons of many natural disasters & knowledge to overcome that.
3. Get aware about the atmosphere in which they are living.

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (स)  
विषय : जैन विद्या  
पत्र : जैन इतिहास और संस्कृति

पूर्णांक 70  
क्रेडिट : 3+1=4

**उद्देश्य-**

1. जैन धर्म की संस्कृति, कालक्रम एवं भगवान ऋषभ के चरित्र को समझाना।
2. अरिष्टनेमि, पार्श्वनाथ एवं महावीर के जीवन चरित्र को समझाना।
3. जैन साहित्य पर प्रकाश डालना।
4. जैन चिन्तन का योगदान बताना।

**उपलब्धियाँ-**

1. जैन संस्कृति एवं तीर्थंकर परम्परा से परिचित होंगे।
2. जैन साहित्य का परिचय प्राप्त होगा।
3. समस्या समाधान के सूत्र प्राप्त होंगे।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (स)  
विषय-जैन एवं जैनेतर दर्शन  
पत्र-जैन दर्शन के मौलिक सिद्धान्त

पूर्णांक : 70  
क्रेडिट : 3+1=4

**उद्देश्य-**

1. जैन द्रव्य, गुण, पर्याय को समझाना।
2. जैन ज्ञान मीमांसा, इन्द्रिय, भाव एवं जीव को समझाना।
3. कर्म, गुणस्थान के बारे में जानकारी देना।
4. धर्म, दया, दान और निक्षेप का परिचय देना।

**उपलब्धियाँ-**

1. जैन द्रव्य मीमांसा का परिचय होगा।
2. जैन ज्ञान मीमांसा में प्रवेश होगा।
3. इन्द्रिय, भाव, जीव, कर्म, लेश्या, गुणस्थान के बारे में ज्ञान वृद्धि होगी।
4. धर्म, दया, दान और नय के स्वरूप को जानेंगे।

**स्नातक (प्रथम वर्ष)**  
**विषय—जैन संस्कृति एवं जीवन मूल्य (अनिवार्य पत्र)**  
**सेमेस्टर—II**

पूर्णांक 50  
क्रेडिट : 2+1+1=4

**उद्देश्य—**

1. जैन संस्कृति एवं भगवान महावीर का परिचय देना
2. जैन सिद्धान्तों का परिचय देना।
3. जीवन मूल्यों का प्रायोगिक प्रशिक्षण देना।

**उपलब्धियाँ—**

1. जैन संस्कृति से परिचित होंगे।
2. जैन साहित्य और सिद्धान्तों से परिचित होंगे।
3. जैन जीवन शैली से मूल्यों का विकास होगा।

**स्नातक प्रथम वर्ष (चयनित अनिवार्य पत्र)**  
**विषय—अहिंसा एवं शांति**  
**पत्र— मानवाधिकार एवं कर्तव्य**

पूर्णांक : 50  
क्रेडिट : 2+1+1=4

**उद्देश्य—**

1. मानवाधिकार एवं कर्तव्य की जानकारी देना।

**उपलब्धियाँ—**

1. मानवाधिकारों एवं कर्तव्यों के प्रति जागरूकता बढ़ेगी।

**स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (अ)**  
**विषय : आगम विद्या एवं प्राकृत साहित्य**  
**पत्र : प्राकृत व्याकरण एवं साहित्य**  
**सेमेस्टर—II**

पूर्णांक 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. व्यंजनों के स्थान पर होने वाले परिवर्तनों को समझाना।
2. प्राकृत के स्वर, व्यंजन का परिचय एवं संधि की प्रक्रिया बताना।
3. व्याकरण के साथ-साथ प्राकृत साहित्य का ज्ञान करवाना।

**उपलब्धियाँ—**

1. संस्कृत के साथ-साथ प्राकृत के स्वर-व्यंजनों की जानकारी होगी।
2. मूल व्यंजनों के स्थान पर होने वाले अन्य व्यंजनों का ज्ञान होने से शब्द कोश बढ़ेगा।
3. प्राकृत गद्य सोपान के द्वारा पठित व्याकरण का उपयोग सीखेंगे।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (अ)  
विषय—अहिंसा एवं शांति  
पत्र—अहिंसा और शांति : भारतीयेतर दृष्टि - I  
सेमेस्टर – II

पूर्णांक : 70  
क्रेडिट अलॉटेड : 3+1=4

**उद्देश्य—**

1. विभिन्न धर्मों में वर्णित अहिंसा एवं शांति तत्त्व को समझाना।

**उपलब्धियाँ—**

1. सभी धर्मों के प्रति सद्भावना बढेगी।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह अ  
विषय—हिन्दी साहित्य  
पत्र—उपन्यास एवं कथा साहित्य

पूर्णांक 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. विद्यार्थियों को नवीन गद्य विद्या, उपन्यास एवं कहानी से परिचित कराना।
2. विद्यार्थियों में कहानी लेखन कौशल विकसित करना।
3. विद्यार्थियों को गद्य समीक्षा कौशल में निपुण बनाना।

**उपलब्धियाँ—**

1. विद्यार्थी उपन्यास एवं कहानी साहित्य की विस्तृत जानकारी प्राप्त कर विभिन्न लेखन शैलियों से परिचित होंगे।
2. विद्यार्थी स्वयं कहानी लेखन का अभ्यास कर सकेंगे।

**B.A. (First Year) (Optional Paper) Group - 'A'  
English Literature  
Paper : Prose and Fiction**

MM : 70  
Credit : 3+1=4

**Objectives-**

1. To enable the students to composed stories.
2. To make them aware about the government system and corruption.
3. To give them knowledge of Grammar.
4. To give them inspiration through great writings.

**Course Outcomes:-**

- 1.They will be able to composed stories.
2. They will be aware about the different government systems.

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (कालूकौमुदी)

पूर्णांक : 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. कारक से शब्दरूप की विभक्तियों का ज्ञान कराना।
2. समास के द्वारा शब्दों के निर्माण की विधि को सीखाना।
3. शेषुषी में व्याकरण एवं साहित्य का समन्वयात्मक ज्ञान करवाना।

उपलब्धियाँ—

1. विभक्ति संबंधी ज्ञान में अशुद्धि नहीं रहेगी।
2. श्लोक रचना आदि में समास का कार्यकारी ज्ञान होगा।
3. सरल संस्कृत संभाषण का अभ्यास होगा।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (लघु सिद्धांत कौमुदी)

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. शब्दों के स्त्रिलिङ्गी प्रत्ययों का ज्ञान करवाना।
2. अव्ययों का ज्ञान करवाना।
3. शेषुषी में व्याकरण एवं साहित्य का समन्वयात्मक ज्ञान करवाना।

उपलब्धियाँ—

1. स्त्रिलिङ्ग शब्दों के निर्माण की प्रक्रिया का ज्ञान होगा।
2. अव्ययों का सामान्य ज्ञान होगा।
3. सरल संस्कृत संभाषण का अभ्यास होगा।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह ब  
विषय—राजनीति विज्ञान  
पत्र—प्रतिनिधि भारतीय राजनीतिक विचारक  
सेमेस्टर – II

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. विद्यार्थियों को प्राचीन भारतीय राजनैतिक विचारकों की विचारधाराओं से अवगत करवाना।
2. विभिन्न विचारकों के दर्शन की प्रासंगिकता को समझाना।
3. विभिन्न विचारकों का तुलनात्मक अध्ययन कर विद्यार्थियों को नये आयाम देना।

उपलब्धियाँ—

1. विद्यार्थी प्राचीन विचारकों के दर्शन को जान पायेंगे।
2. विद्यार्थी प्राचीनकाल से लेकर आधुनिक काल तक विभिन्न विचारधाराओं का अध्ययन कर सकेंगे।
3. विद्यार्थी प्राचीन राज व्यवस्था एवं आधुनिक राज—व्यवस्था का तुलनात्मक अध्ययन कर सकेंगे।



स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (ब)

विषय : जीवन विज्ञान

पत्र : योग एवं प्रेक्षाध्यान

पूर्णांक 50

क्रेडिट : 2+1+1=4

**उद्देश्य-**

1. योग के अंगों का परिचय करवाना।
2. योग पद्धतियों का परिचय करवाना।
3. प्रेक्षाध्यान के मुख्य अंगों के आध्यात्मिक और वैज्ञानिक दृष्टिकोण का ज्ञान करवाना।
4. प्रेक्षाध्यान के मुख्य अंगों के प्रयोजन और निष्पत्तियों का ज्ञान करवाना।

**उपलब्धियाँ-**

1. योग की विभिन्न परम्पराओं से परिचित हो सकेंगे।
2. प्रेक्षाध्यान की आध्यात्मिकता एवं वैज्ञानिकता को जान सकेंगे।
3. प्रेक्षाध्यान के मुख्य अंगों के प्रयोजन और निष्पत्तियों से परिचित हो सकेंगे।
4. तनाव मुक्ति की प्रक्रिया से परिचित हों सकेंगे।
5. शरीर एवं मन की आन्तरिक शक्तियों की जागरण की विधि को जान सकेंगे।

**B.A. Ist year (Optional Subject) Group B**

**Subject - Social Work**

**Paper : Human Behaviour and Personality**

**Semester – II**

**M.M. : 70**

**Credit : 3+1=4**

**Objectives:**

1. To acquire a clear understanding of Human Behaviour
2. To develop knowledge and skills regarding the nature and conditions of personality.
3. To gain knowledge about normal and abnormal behaviours.
4. To know attitudes which are basics for the social behaviour

**Course Outcomes:-**

1. Student will acquire a clear understanding of Human Behaviour
2. Student will develop knowledge and skills regarding the nature and conditions of personality.
3. Student will gain knowledge about normal and abnormal behaviours.
4. Student will know attitudes which are basics for the social behaviour

**B.A I Year (Optional Subject) Group -C**

**Subject: Information Technology**

**Paper : FUNDANMENTALS OF IT & APPLICATION SOFTWARE – II**

**Semester II**

**M.M. 50**

**Credit : 2+1+1=4**

**Objective:**

This paper is intended to be the first basic course for the students of Information Technology. The main objectives of this course are;

- Students will be exposed to networking concepts including internet.
- Students will be exposed to work on numbers including formulas using MS-Excel.
- Students will be able to create and edit videos using Windows movie maker.

**Course Outcomes::**

Students will use the Internet in their day to day life, use MS-Excel to create spreadsheets and learn to create the dynamic videos using movie maker.

**B.A. First Year (Optional subject) Group (C)**  
**SUBJECT – PSYCHOLOGY**  
**PAPER - SOCIAL PSYCHOLOGY**

Marks 50  
Credit : 2+1+1=4

**Objective :**

1. To enable students to appreciate how individual behavior is influenced by social and cultural contexts.
2. To enable students to develop an understanding of functioning of dyads, groups and organizations.
3. To understand how social problems can be analyzed in terms of various social psychological theories.

**Course Outcomes:s :**

1. Students develop an understanding of functioning of organizations.
2. Student understand about the problem of various social psychological theories.

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (स)

विषय : इतिहास

पत्र : भारतीय संस्कृति के मूलाधार

पूर्णांक : 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. विद्यार्थियों को भारतीय संस्कृति की विशेषताओं से परिचित करवाना।
2. बौद्ध एवं जैन धर्म के सिद्धान्तों एवं शिक्षाओं को समझाना।
3. वर्ण, आश्रम, पुरुषार्थ, संस्कार आदि के महत्त्व को समझाना।
4. कालिदास, तुलसीदास, राजाराममोहनराय, महात्मा गांधी, आचार्य तुलसी, आदि की उपलब्धियों से परिचित करवाना।

**उपलब्धियाँ**

1. विद्यार्थी भारतीय संस्कृति की विशेषताओं को समझकर उनको आत्मसात कर अपने व्यक्तित्व का विकास कर सकेंगे।
2. बौद्ध और जैन धर्म की शिक्षाओं को समझकर उनको अपने जीवन में अपनाकर अपने व्यक्तित्व का विकास एवं आदर्श समाज की स्थापना में योगदान कर पायेंगे।
3. कालिदास, तुलसीदास, राजाराममोहनराय, आचार्य तुलसी, रविन्द्रनाथ टैगोर आदि के जीवन से प्रेरणा प्राप्त कर पायेंगे।

**B.A. Ist Year (Optional Paper) (Group C)**

**Subject- Geography**

**Paper - Geography of Rajasthan**

**M.M. 50**  
**Credit : 2+1+1=4**

**Objects-**

1. Giving Deep Knowledge about climate conditions of Rajasthan.
2. Knowledge about human resources of Rajasthan.
3. Knowledge regarding industries of Rajasthan.

**Course Outcomes:s -**

1. The students after getting aware about climate conditions, can adapt themselves as per climate.
2. Proper utilisation of available resources (Physical & Human) can be made possible.
3. Will be aware about various industries of Rajasthan.

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (स)

विषय : जैन विद्या

पत्र : जैन तत्त्व विद्या

पूर्णांक 70

क्रेडिट : 3+1=4

**उद्देश्य-**

1. जैन तत्त्व मीमांसा का परिचय देना।
2. पुद्गल, परमाणु की अवधारणा समझाना।
3. प्राण, पर्याप्ति, लेश्या और इन्द्रिय तत्त्व का विवेचन करना।

**उपलब्धियाँ-**

1. जैन तत्त्वों की जानकारी होगी।
2. पुद्गल, परमाणु की अवधारणा का ज्ञान होगा।
3. जीवनोपयोगी तत्त्वों की जानकारी प्राप्त होगी।

स्नातक प्रथम वर्ष (ऐच्छिक विषय) समूह (स)

विषय : जैन एवं जैनेतर दर्शन

पत्र : भारतीय दर्शन

पूर्णांक 70

क्रेडिट : 3+1=4

**उद्देश्य-**

1. भारतीय दर्शनों का संक्षिप्त परिचय देना।
2. उनके प्रमुख सिद्धान्तों की जानकारी देना।

**उद्देश्य-**

1. भारतीय दर्शन से परिचित होंगे।
2. जीव, जगत एवं ईश्वर संबंधी सिद्धान्तों की जानकारी प्राप्त करेंगे।

स्नातक द्वितीय वर्ष  
विषय—हिन्दी (अनिवार्य पत्र)  
सेमेस्टर—III

पूर्णांक—70  
क्रेडिट: 3+1=4

**उद्देश्य—**

1. हिन्दी व्याकरण— संज्ञा, सर्वनाम, कारक, पर्यायवाची, विलोमशब्द, समुच्चारित भिन्नार्थक शब्द, मुहावरें, लोकोक्तियाँ आदि का सामान्य ज्ञान करवाना।
2. देवनागरी लिपि का परिचय देना।
3. व्यावहारिक पत्रों की जानकारी देना।

**उपलब्धियाँ—**

1. विद्यार्थियों का व्याकरण के ज्ञान में वृद्धि होगी।
2. विद्यार्थी कार्यालय पत्र लिखने में समर्थ हो सकेंगे।
3. विद्यार्थी देवनागरी लिपि के महत्त्व, उसकी विशेषता आदि से अपने ज्ञान में वृद्धि करेंगे।

**B.A. IInd Year (Core Elective Subject)  
Subject - Social Work  
Paper - Introduction to Social Work**

M.M. - 70  
Credit - 3+1=4

**Objectives -**

1. To Understand about basic concepts of Social Work.

**Course Outcomes:** - Students will under stand the basic concepts of social work.

बी.ए. द्वितीय वर्ष (ऐच्छिक विषय) समूह (अ)  
विषय : आगम विद्या एवं प्राकृत साहित्य  
पत्र : प्राकृत व्याकरण एवं साहित्य

पूर्णांक—70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. शब्द रूप प्रक्रिया, कारक एवं स्त्री प्रत्यय प्रकरण समझाना।
2. वाक्य बनाने का अभ्यास करवाना।
3. पाइयगज्जसंगहो पढ़ाना।
4. उत्तराध्ययन (3,4,8) आगम का अध्ययन करवाना।

**उपलब्धियाँ—**

1. शब्द रूप, कारक, स्त्री प्रत्यय को समझकर इनका सम्यक् प्रयोग करेंगे।
2. वाक्य प्रयोग से प्राकृत में रचना धर्मिता का विकास होगा।
3. कथा के माध्यम से शब्द प्रयोग, प्राकृत संभाषण का अभ्यास होगा एवं सांस्कृतिक मूल्यों से परिचय होगा।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (अ)  
विषय : अहिंसा और शांति  
पत्र : अहिंसा और शांति—भारतीयेतर दृष्टि - II

पूर्णांक—70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. विभिन्न विचारकों के अहिंसा और शांति के चिन्तन को समझाना।

**उपलब्धियाँ—**

1. भारतीय एवं पाश्चात्य चिंतकों की विचारधारा को जानने से तुलनात्मक दृष्टि का विकास होगा।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (अ)  
विषय : हिन्दी साहित्य  
पत्र : आधुनिक हिन्दी काव्य

पूर्णांक—70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. विद्यार्थियों को आधुनिक काव्य से परिचित करवाना।
2. विद्यार्थियों को विभिन्न कवियों की काव्यशैली की जानकारी देना।
3. विद्यार्थियों को विभिन्न कवियों की भाषाशैली से परिचित करवाना।

**उपलब्धियाँ—**

1. विद्यार्थी विभिन्न कवियों की लेखनशैली से परिचित होकर अपना मत प्रस्तुत कर सकेंगे।
2. विद्यार्थियों में देश-प्रेम एवं वीरता के भाव जागृत होंगे।
3. विद्यार्थी आधुनिक काव्य का परिचय प्राप्त कर स्वयं काव्य रचना का प्रयास कर सकेंगे।

**B.A. (Second Year) (Optional Paper) Group-‘A’  
Subject - English Lit  
Paper - Poetry and Drama**

M.M. : 70  
Credit: 3+1=4

**Objectives-**

1. To enable the students how to composed a poem .
2. To make them able to make difference between Figure of speech and Forms of Literature.
3. To give them a practical knowledge of English speaking.
4. To make them familiar with Indian dramatic style.

**Course Outcomes:-**

1. They can speak English Friquantly.
2. They become able to compose a poem.

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (कालुकौमुदी)

पूर्णांक-70  
क्रेडिट : 3+1=4

उद्देश्य-

1. शब्दों के स्त्रिलिङ्गी प्रत्ययों का ज्ञान करवाना।
2. तद्धित शब्दों की विधि सीखाना।
3. नाटक एवं महाकाव्य की शैली का अवबोध करवाना।

उपलब्धियाँ-

1. शब्दों के विभिन्न रूपों की जानकारी होगी।
2. नाटक पठन से संभाषण कला का ज्ञान होगा।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (लघुसिद्धान्त कौमुदी)

पूर्णांक-70  
क्रेडिट : 3+1=4

उद्देश्य-

1. नाटक एवं महाकाव्य की शैली का अवबोध करवाना।
2. कारक से शब्दरूप की विभक्तियों का ज्ञान करवाना।
3. समास के द्वारा शब्दों के निर्माण की विधि सीखाना।

उपलब्धियाँ-

1. नाटक पठन से संभाषण कला का ज्ञान होगा।
2. विभक्ति संबंधी ज्ञान में अशुद्धि नहीं रहेगी।
3. श्लोक रचना आदि में समास का कार्यकारी ज्ञान होगा।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (ब)

विषय : राजनीति विज्ञान

पत्र : प्रमुख राजनीतिक व्यवस्थायें

पूर्णांक-70

क्रेडिट : 3+1=4

**उद्देश्य-**

1. विद्यार्थियों को विश्व के प्रमुख संविधानों की जानकारी देना।
2. विद्यार्थियों को संघात्मक एवं एकात्मक संविधानों से अवगत कराना।
3. लिखित एवं अलिखित संविधानों के बारे में बताना।
4. विद्यार्थियों की प्रतियोगी परीक्षाओं में तर्क शक्ति बढ़ाना।

**उपलब्धियाँ-**

1. विद्यार्थी विभिन्न देशों के संविधानों को विस्तृत रूप से जान सकेंगे।
2. विभिन्न देशों के संविधानों का तुलनात्मक अध्ययन कर सकेंगे।
3. परम्परागत एवं आधुनिक संविधानों के दृष्टिकोण को समझ सकेंगे।
4. विभिन्न संविधानों में संशोधनों की जानकारी प्राप्त कर सकेंगे।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (ब)

विषय : जीवन-विज्ञान

पत्र : मूल्यपरक प्रशिक्षण

पूर्णांक-50

क्रेडिट : 2+1+1=4

**उद्देश्य-**

1. वर्तमान शिक्षा पद्धति में मूल्यपरक शिक्षा की आवश्यकता को समझना।
2. स्वस्थ समाज संरचना एवं मूल्यों के उत्थान में जीवन विज्ञान की महत्ता को समझना।
3. जीवन विज्ञान शिक्षा द्वारा मूल्यों के विकास की प्रक्रिया को समझना और अभ्यास करना।

**उपलब्धियाँ-**

1. वर्तमान में मूल्यों की आवश्यकता को समझ सकेंगे।
2. विभिन्न शिक्षा शास्त्रियों के जीवन एवं शिक्षा दर्शन से परिचित हो सकेंगे।
3. शिक्षा के क्षेत्र में जीवन विज्ञान की उपयोगिता को जान सकेंगे।
4. व्यक्तित्व विकास एवं संवेगों पर नियन्त्रण की पद्धति को जान सकेंगे।

**B.A. (Second Year) (Optional Paper) Group-B**

**Subject - Social Work**

**Paper – Society, Culture and Contemporary Concerns**

**M.M. : 70**

**Credit : 3+1=4**

**Objectives:**

1. To give awareness about reciprocal relationship between women & men in society
2. To understand key concepts, issues in gender and development
3. To create awareness about the magnitude of gender disparities in the present context

**Course Outcomes:s :**

1. Student will be aware about reciprocal relationship between women & men in society
2. Student will understand key concepts, issues in gender and development
3. Student will create awareness about the magnitude of gender disparities in the present context

**B.A II Year (Optional Subject) (Group - C)**  
**Subject: Information Technology**  
**Semester III**  
**Paper : Web Technologies**

M.M. 50  
Credit - 2+1+1=4

**Objective:**

1. To make the students aware of various tags of HTML and CSS.
2. To give the hands on experience on Adobe Dreamweaver.

**Course Outcomes::**

After completing the course, the students will be able to create website using HTML tags and Adobe DreamWeaver

**B.A. IInd Year (Optional Subject) (Group C)**  
**SUBJECT – PSYCHOLOGY**  
**PAPER - BASIC PRINCIPLES OF PSYCHOLOGICAL ASSESSMENT**

Marks 50  
Credit : 2+1+1=4

**Objective :**

1. To train students in various psychological assessment techniques.
2. To impart skills necessary for selecting and applying different tests for different purposes.

**Out Comes :**

1. Students know about psychological assessment techniques.
2. To know different skills for different tests for different purposes.

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह स  
विषय— इतिहास  
पत्र—मध्यकालीन भारत का इतिहास

पूर्णांक—70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. विद्यार्थियों को मध्यकालीन भारत के इतिहास से परिचित करवाना।
2. अकबर की महानता से परिचित करवाना।
3. मुगलकालीन कला से परिचित करवाना।

**उपलब्धियाँ—**

1. विद्यार्थी मध्यकालीन भारतीय इतिहास के प्राप्त ज्ञान का उपयोग प्रतियोगी परीक्षाओं में कर पायेंगे।
2. विद्यार्थी मुगलकालीन संस्कृति, शासन प्रबंध आदि से परिचित हो पायेंगे।
3. मुगल कला के विश्लेषणात्मक अध्ययन से विद्यार्थियों में कला के तुलनात्मक अध्ययन की क्षमता बढ़ेगी।



**B.A. IInd Year (Optional subject) Group (C)**  
**Subject - Geography**  
**Paper - Human Geography**

**MM 50**  
**Credit : 2+1+1=4**

**Objects-**

1. To make students aware about human Geography.
2. To make aware about population Distribution & human development.
3. To make students aware about schools & principles of Human Geography.

**Course Outcomes:-**

1. Having Knowledge of human geography & its principles, students can adjust & adapt themselves with different cultures prevailing.
2. Comes to know about problems regarding overpopulation, migration & steps to solve them.
3. Deep knowledge about people residing in urban & rural areas, their problems & solutions.

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह स  
विषय— जैन विद्या  
पत्र—जैन आचार मीमांसा

पूर्णांक—70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. जैन—आचार मीमांसा की जानकारी देना।
2. जैन ध्यान पद्धति को समझाना।
3. अहिंसा और अणुव्रत की जानकारी देना।

**उपलब्धियाँ—**

1. जैन—आचार विधि से परिचय होगा।
2. जैन—ध्यान प्रणाली की जानकारी मिलेगी।
3. अहिंसा और अणुव्रत की चेतना का विकास होगा।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह स  
विषय — जैन एवं जैनेतर दर्शन  
पत्र — पाश्चात्य दर्शन

पूर्णांक 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. पाश्चात्य दार्शनिक सिद्धान्तों से परिचित करवाना।
2. पाश्चात्य दार्शनिक परम्परा से परिचित करवाना।

**उपलब्धियाँ—**

1. पाश्चात्य दार्शनिक विचारों से परिचित होगा।
2. बुद्धिवादी, अनुभववादी एवं प्रत्ययवादी दार्शनिक सिद्धान्तों की जानकारी होगी।

स्नातक द्वितीय वर्ष  
विषय-पर्यावरण (अनिवार्य पत्र)

पूर्णांक-50  
क्रेडिट : 2+1+1=4

उद्देश्य-

1. पर्यावरण के बारे में जानकारी देना।
2. पर्यावरण के प्रति जागरूकता बढ़ाना।

उपलब्धियाँ-

1. पर्यावरण के बारे में जानकारी मिलेगी।
2. पर्यावरण के प्रति जागरूकता बढ़ेगी।

**BA (Core elective) Group (D)**  
**Subject - Social Work**  
**Paper - Social Work Methods & Interventions**

M.M. 70  
Credit : 3+1=4

**Objectives -**

1. To Understand Methods of Social Work.
2. To know about fields of Social Work.

**Course Outcomes: -**

Students will know methods of Social work and be able to apply in his society.

बी.ए. द्वितीय वर्ष (ऐच्छिक विषय) समूह (अ)

विषय : आगम विद्या एवं प्राकृत साहित्य  
पत्र : प्राकृत व्याकरण एवं साहित्य

पूर्णांक-70  
क्रेडिट : 3+1=4

उद्देश्य-

1. तद्धित, लिंगानुशासनम् एवं गण प्रकरण पर प्रकाश डालना।
2. स्वयं वाक्यों का प्राकृत से हिन्दी एवं हिन्दी से प्राकृत अनुवाद करना।
3. अगडदत्तचरियं का अध्ययन करवाना।
4. उत्तराध्ययन के नवम् एवं दशम अध्याय के श्लोकार्थ एवं विषय-वस्तु समझाना।

उपलब्धियाँ-

1. तद्धित प्रत्यय, धातु रूप एवं लिंगानुशासनम् प्रक्रिया समझकर उसका यथोचित प्रयोग करेंगे।
2. प्राकृत लेखन शैली का और अधिक विकास होगा।
3. प्राकृत चरित्र काव्य की विशेषताएं एवं उसके स्वरूप का ज्ञान होगा।
4. उत्तराध्ययन के दो अध्ययन की विषय वस्तु को समग्रता से जान सकेंगे।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (अ)

विषय : अहिंसा एवं शांति

पत्र : अहिंसा का व्यवहार

सेमेस्टर-IV

पूर्णांक-70

क्रेडिट : 3+1=4

उद्देश्य-

1. जीवन के विभिन्न क्षेत्रों में अहिंसा के अनुप्रयोगों की जानकारी देना।

उपलब्धियाँ-

1. अहिंसा के व्यावहारिक कार्य क्षेत्रों से परिचित होंगे।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (अ)

विषय - हिन्दी साहित्य

पत्र - गद्य साहित्य (नाटक, एकांकी, निबन्ध)

पूर्णांक-70

क्रेडिट : 3+1=4

उद्देश्य-

1. विद्यार्थियों को नाटक, एकांकी एवं निबन्ध साहित्य की सामान्य जानकारी देना।
2. हिन्दी के प्रमुख गद्य साहित्यकारों का परिचय देना।
3. हिन्दी की प्रमुख गद्य शैलियों का ज्ञान प्रदान करना।
4. विद्यार्थियों में गद्य लेखन क्षमता का विकास करना।

उपलब्धियाँ-

1. विद्यार्थी प्रमुख साहित्यकारों की रचनाओं से प्रेरणा पाकर अपने लेखन कौशल का अभ्यास कर सकेंगे।
2. विद्यार्थी गद्य की विभिन्न शैलियों का ज्ञान प्राप्त कर स्वयं की लेखनशैली का विकास कर सकेंगे।
3. विद्यार्थी स्वयं गद्य लेखन की ओर अग्रसर हो सकेंगे।

**B.A. (Second Year) (Optional Paper) Group-‘A’**

**Subject - English Literature**

**Paper - Prose and Fiction**

MM:70

Credits : 3+1=4

**Objectives -**

1. To enable the students to compose stories.
2. To make aware about the government system and corruption.
3. To give knowledge of grammar.
4. To give inspiration through great writings.

**Course Outcomes:-**

1. The students will be able to compose a short play based on a story.
2. They will learn to compose essays.
4. They will understand the purpose of education.

बी.ए. द्वितीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (कालूकौमुदी)

पूर्णांक-70  
क्रेडिट : 3+1=4

उद्देश्य-

1. धातुरूप से संस्कृत भाषा की क्रिया संबंधी जानकारी देना।
2. वाक्य निर्माण का अभ्यास कराना।
3. अर्थ करने की शैली सीखाना।

उपलब्धियाँ-

1. विभिन्न धातुओं के अर्थ आदि की जानकारी देना।
2. शब्द कोश का ज्ञान बढ़ेगा।

बी.ए. द्वितीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
चतुर्थ पत्र : संस्कृत व्याकरण एवं साहित्य (लघुसिद्धांतकौमुदी)

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य-

1. वाक्य निर्माण का अभ्यास कराना।
2. अनुवाद की विधा का प्रशिक्षण देना
3. तद्धित शब्दों की विधि समझाना।

उपलब्धियाँ-

1. वाक्य निर्माण की प्रक्रिया का ज्ञात होगा।
2. शब्द कोश का ज्ञान बढ़ेगा।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह ब  
विषय- राजनीति विज्ञान  
पत्र- भारतीय राजनीतिक व्यवस्था

पूर्णांक-70  
क्रेडिट : 3+1=4

उद्देश्य-

1. भारतीय राजनीतिक व्यवस्था की जानकारी देना।
2. शासन की विभिन्न संस्थाओं से परिचित कराना।
3. भारत की वर्तमान बदलती राजनैतिक दशा एवं दिशा का बोध करवाना।
4. विद्यार्थियों की प्रतियोगी परीक्षाओं में तर्क शक्ति बढ़ाना।

उपलब्धियाँ-

1. ब्रिटिश सरकार के विभिन्न अधिनियमों की जानकारी प्राप्त कर सकेंगे।
2. शासन की विभिन्न संस्थाओं का तुलनात्मक अध्ययन कर सकेंगे।
3. केन्द्रिय स्तर से लेकर राज्यों की राजनीति की जानकारी प्राप्त कर सकेंगे।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह ब

विषय : जीवन-विज्ञान

पत्र : जीवन-विज्ञान एवं स्वास्थ्य

पूर्णांक-50

क्रेडिट : 2+1+1=4

**उद्देश्य-**

1. स्वास्थ्य की जानकारी देना।
2. शारीरिक रचना को समझना।
3. शरीर में होने वाले विचारों का अध्ययन।
4. भोजन, उपवास व शाकाहार को जानना।

**उपलब्धियाँ-**

1. जीवन में स्वास्थ्य का महत्त्व एवं स्वास्थ्य संवर्धन के उपायों को जान सकेंगे।
2. शरीर के विभिन्न तंत्रों एवं अंगों से परिचित हो सकेंगे।
3. विभिन्न शारीरिक बीमारियों का योग द्वारा प्रबन्धन को समझ सकेंगे।
4. संतुलित आहार, उपवास एवं शाकाहार के महत्त्व को जान सकेंगे।

**B.A. (Second Year) (Optional Paper) Group-B**

**Subject - Social Work**

**Paper - Social Change and Development**

**M.M. : 70**

**Credit - 3+1=4**

**Objectives:**

1. To develop a meaningful understanding about past & present social change
2. To equip students to examine social realities from different perspectives
3. To familiarize with the contemporary discourse on social movements & social development

**Course Outcomes: -**

1. Student will develop a meaningful understanding about past & present social change
2. To equip students to examine social realities from different perspectives
3. To familiarize with the contemporary discourse on social movements & social development

**B.A II Year (Optional Subject) (Group-C)**

**Subject: Information Technology**

**Paper: Advanced Web Technologies**

**Semester IV**

**M.M. 50**

**Credit : 2+1+1=4**

**Objective:**

This paper will familiarize the students with client side scripting language and will expose the students to create dynamic WebPages.

**Course Outcomes:**

Students will be able to create dynamic WebPages using JavaScript.

**B.A. IInd Year (Optional Subject) (Group C)**

**SUBJECT – PSYCHOLOGY**

**PAPER – PSYCHOPATHOLOGY**

Marks 50

Credit : 2+1+1=4

**Objective :**

1. To impart knowledge about the normality and abnormality.
2. To make students understand the nature and course of various abnormal conditions.
3. To impart knowledge and skills needed for psychological assessment of different abnormal conditions.

**Out comes :**

1. Student know about the normality and abnormality.
2. Students understand the nature and course of various abnormal conditions.

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (स)

विषय– इतिहास

पत्र– राजस्थान के इतिहास का सर्वेक्षण

पूर्णांक–70

क्रेडिट : 3+1=4

**उद्देश्य–**

1. विद्यार्थियों को राजस्थान के इतिहास से परिचित करवाना।
2. दुर्ग वास्तुकला से परिचित करवाना।
3. महाराणा कुंभा, महाराणा प्रताप व मानसिंह की उपलब्धियों से परिचित करवाना।
4. किसान आन्दोलन, प्रजामण्डल आन्दोलन व राजस्थान के एकीकरण से परिचित करवाना।

**उपलब्धियाँ–**

1. विद्यार्थी राजस्थान के गौरवशाली इतिहास से परिचित हो पायेंगे।
2. महाराणा कुंभा, महाराणा प्रताप, मीरा, दादू दयाल आदि के जीवन से प्रेरणा प्राप्त कर अपने व्यक्तित्व का विकास कर सकेंगे।
3. राजस्थान के एकीकरण के विभिन्न चरणों से परिचित हो पायेंगे।
4. राजस्थान के इतिहास के अध्ययन से विद्यार्थी प्रतियोगी परीक्षाओं में सफलता प्राप्त कर पायेंगे।

**B.A. (Second Year) (Optional Paper) Group-C**

**Subject - Geography**

**Paper - Economic Geography**

MM 50

Credit : 2+1+1=4

**Objects-**

1. To make students aware about concept of economic geography, economic activities & their impact on the environment.
2. Knowledge about various resources : Natural, Soil, Mineral & Energy.
3. Knowledge about agencies (WTO, GATT) engaged in promoting trade & services.

**Course Outcomes:-**

1. Students can know how their activities of trade & services will affect the environment. This may lead to the path of Green Environment.
2. After knowing availability of various resources available, their proper utilisation is possible.
3. Students can contribute their efforts towards promoting trade in which our country is having self-sufficiency.

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह (स)

विषय— जैन विद्या

पत्र—जैन दर्शन के मौलिक तत्व

पूर्णांक—70

क्रेडिट : 3+1=4

**उद्देश्य—**

1. जैन सृष्टिवाद को समझाना।
2. कर्म—सिद्धान्त की जानकारी देना।
3. अनेकान्त को समझाना।
4. आत्मवाद और कारणवाद को समझाना।

**उपलब्धियाँ—**

1. जैन सृष्टिवाद से परिचय होगा।
2. कर्म जानने से जागरूकता बढ़ेगी।
3. अनेकान्त पूर्ण चिंतन शैली का विकास होगा।
4. कारणवाद से परिचय होगा।

स्नातक द्वितीय वर्ष (ऐच्छिक विषय) समूह स

विषय — जैन एवं जैनेतर दर्शन

पत्र — जैन न्याय और पाश्चात्य तर्कशास्त्र

पूर्णांक 70

क्रेडिट : 3+1=4

**उद्देश्य—**

1. न्याय और प्रत्यक्ष प्रमाण का संक्षिप्त परिचय देना।
2. परोक्ष प्रमाण की जानकारी देना।
3. नय, आत्मा की सिद्धि की युक्तियाँ समझाना।
4. पाश्चात्य तर्कशास्त्र का परिचय देना।

**उपलब्धियाँ—**

1. प्रत्यक्ष और परोक्ष प्रमाण का ज्ञान होगा।
2. नय की जानकारी होगी।
3. पाश्चात्य तर्कशास्त्र में प्रवेश होगा।

**B.A. (Third Year)**  
**Subject : Basics of Computer**  
**(Compulsory Paper)**  
**Semester - V**

**M.M. 50**  
**Credit - 2+1+1=4**

**Objective :**

1. To enable students to be aware of using MS Word, MS PowerPoint, Excel and Internet.
2. Students will be able to do daily work using these tools and able to surf internet, download and send emails easily.

**Course Outcomes :**

1. Students will be able to apply word, excel and powerpoint in their daily work.
2. Students will be able to make use of internet for their study purpose and will be able to create blog to exhibit their talent.

**B.A. Third Year (Core Elective Paper) (Group D)**  
**Subject – Psychology**  
**Paper - General Psychology-I**

**Marks 50**  
**Credit : 2+1+1=4**

**Objectives:**

1. To understand the concepts of basic Psychological process.
2. To understand the application of psychological concepts in daily routine problems.

**Course Outcomes: -**

1. Students will be aware of various Psychological approach and environment which will lead to the development of human behaviour.

बी.ए. तृतीय वर्ष (ऐच्छिक विषय) समूह (अ)  
विषय : आगम विद्या एवं प्राकृत साहित्य  
पत्र : प्राकृत भाषा व्याकरण एवं साहित्य

**पूर्णांक- 70**  
**क्रेडिट : 3+1=4**

**उद्देश्य-**

1. धात्वादेश, अिन्नत प्रक्रिया, भाव कर्म प्रक्रिया एवं कृदन्त प्रकरण समझाना ।
2. कुमारपालचरियं का अध्ययन करवाना ।
3. कुर्मापुत्र के जीवन के बारे में बताना ।
4. प्राकृत में कथा रचना का अभ्यास कराना ।

**उपलब्धियाँ-**

1. धातु को होने वाले आदेश जानकर एवं भाव कर्म प्रक्रिया और कृदन्त प्रक्रिया समझकर यथास्थान प्रयोग करेंगे ।
2. कुमारपाल एवं कुर्मापुत्रचरित्र की जानकारी मिलेगी ।
3. प्राकृत में रचनाधर्मिता का अभ्यास बढ़ता रहेगा ।



स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (अ)

विषय : अहिंसा एवं शांति

पत्र : शांति आंदोलन एवं संगठन

पूर्णांक-70

क्रेडिट : 3+1=4

**उद्देश्य-**

1. शांति आंदोलनों एवं संगठनों की जानकारी देना।

**उपलब्धियाँ-**

1. अहिंसक आंदोलनों की जानकारी प्राप्त कर उनमें सक्रिय सहभागिता का मनोभाव विकसित होगा।

बी.ए. तृतीय वर्ष (ऐच्छिक विषय) समूह (अ)

विषय : हिन्दी साहित्य

पत्र : हिन्दी साहित्य का इतिहास एवं काव्यशास्त्र

अंक 70

क्रेडिट : 3+1=4

**उद्देश्य-**

1. विद्यार्थी को हिन्दी साहित्य के इतिहास का ज्ञान करवाना।
2. विद्यार्थी को काव्यशास्त्र की जानकारी प्रदान करना।

**उपलब्धियाँ-**

1. विद्यार्थी हिन्दी साहित्य के इतिहास एवं परंपरा को जानकार अपने ज्ञान में अभिवृद्धि करेंगे।
2. विद्यार्थी हिन्दी के काव्यशास्त्र का ज्ञान प्राप्त कर हिन्दी कविता का अर्थ ग्रहण कर सकेंगे तथा कविता की व्याख्या कर सकेंगे।
3. विद्यार्थी स्वयं को भावी प्रतियोगिता परीक्षाओं के लिये तैयार कर सकेंगे।

**B.A. (Third Year) (Optional Paper) Group - 'A'**

**Subject- English Literature**

**Paper- Poetry and Drama**

**MM : 70**

**Credits : 3+1=4**

**Objectives -**

1. To enable the students to make recitation of poems.
2. They become able to act in a play.
3. To make them aware about the modern poetry.
4. They become aware about the rights of women.

**Course Outcomes:-**

1. They will compose stories without the help of a teacher.
2. They will recite the poems.
3. They will compose short plays and take part in plays.

बी.ए. तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (कालुकौमुदी)

पूर्णांक : 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. धातुओं के विभिन्न रूपों की जानकारी देना।
2. खण्डकाव्य की विधि से अवगत करवाना।
3. संस्कृत के प्राचीन व अर्वाचीन इतिहास का ज्ञान करवाना।

उपलब्धियाँ—

1. संस्कृत साहित्य के इतिहास की जानकारी देना।
2. काव्य रचना की नवीन विद्या का ज्ञान होगा।
3. अलंकार आदि को जानने का अवसर मिलेगा।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय— संस्कृत  
पत्र— संस्कृत व्याकरण एवं साहित्य (लघुसिद्धांत कौमुदी)

पूर्णांक—70  
क्रेडिट : 3+1=4

उद्देश्य—

1. धातुरूप से संस्कृत भाषा की क्रिया संबंधी जानकारी देना।
2. धातुओं के विभिन्न रूपों की जानकारी देना।
3. खण्डकाव्य की विधि से अवगत करवाना।

उपलब्धियाँ—

1. विभिन्न धातुओं के अर्थ आदि की जानकारी प्राप्त होगी।
2. संस्कृत की ऐतिहासिकता की जानकारी प्राप्त होगी।
3. काव्य रचना की नवीन विद्या का ज्ञान होगा।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय— राजनीति विज्ञान  
पत्र— (पाश्चात्य प्रतिनिधि राजनीति विचारक)

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य—

1. विद्यार्थियों को पाश्चात्य राजनीतिक विचारकों की विचारधाराओं से अवगत कराना।
2. विभिन्न विचारकों के दर्शन की वर्तमान में प्रासंगिकता बताना।
3. विभिन्न विचारकों का तुलनात्मक अध्ययन कर विद्यार्थियों को नये आयाम देना।

उपलब्धियाँ—

1. विद्यार्थी पाश्चात्य विचारकों के दर्शन को जान सकेंगे।
2. विद्यार्थी प्राचीनकाल, मध्यकाल एवं आधुनिक काल में बदलते विचारकों के दर्शन को जान सकेंगे।
3. विद्यार्थी राज्य की उत्पत्ति के सिद्धान्तों को समझ सकेंगे।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय- जीवन-विज्ञान  
पत्र- जीवन विज्ञान के मनोवैज्ञानिक सिद्धान्त

पूर्णांक-50  
क्रेडिट : 2+1+1

**उद्देश्य-**

1. मनोविज्ञान का अध्ययन करना।
2. बुद्धि एवं इसकी अभिवृद्धि को समझना।
3. भाव, संवेग एवं अभिप्रेरणा को जानना।
4. व्यक्तित्व विकास एवं जीवन-विज्ञान के सम्बन्ध को जानना।

**उपलब्धियाँ-**

1. जीवन के विभिन्न पहलुओं की मनोवैज्ञानिक व्याख्या के परिचित हो सकेंगे।
2. बुद्धि अभिवृद्धि में ध्यान की भूमिका के परिचित हो सकेंगे।
3. जीवन में सफलता के लिये अभिप्रेरणा की महत्ता को जान सकेंगे।
4. प्राण शक्ति को बढ़ाने की प्रक्रिया को जान सकेंगे।

**B.A IIIrd Year (Optional Subject) (Group - B)**  
**Subject - Social Work**  
**Paper- Social Work Research and Statistics**

**M.M. - 70**  
**Credit : 3+1=4**

**Objectives:**

1. To develop a scientific approach for systematic procedure in social work research
2. Acquire understanding about the nature and steps in the research process.
3. Develop theoretical knowledge about the different methods and tools in social work research.
4. Acquire skills and knowledge in the use of appropriate statistical methods in research.

**Course Outcomes:-**

1. Student will develop a scientific approach for systematic procedure in social work research
2. Student will understand about the nature and steps in the research process.
3. Student will Develop theoretical knowledge about the different methods and tools in social work research.
4. Student will acquire skills and knowledge in the use of appropriate statistical methods in research.

**B.A III Year (Optional Subject) (Group- C)**  
**Subject: Information Technology**

**Paper: Business Data Processing & Programming in Visual Basic- I**

**M.M. 50**  
**Credit : 2+1+1=4**

**Objective:**

- Students will be exposed to the concepts of DBMS design.
- Students will be introduced to the GUI based programming using Visual Basic 6.0.

**Course Outcomes::**

- Students will be able to create, edit database using MS-Access including filtering and query of records.
- Students will be able to create small applications using Visual Basic.

**B.A. Third Year (Optional Subject) (Group C)**  
**Subject – Psychology**  
**Paper- PERSONALITY PSYCHOLOGY**

Marks 50  
Credit 2+1+1=4

**Objective :**

1. To understand the concept of personality
2. To understand the determinants of Personality

**Out comes :**

1. Student know the concept of personality
2. Student know different determinants of Personality

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह-स  
विषय- इतिहास  
पत्र-आधुनिक भारत का इतिहास

पूर्णांक 70  
क्रेडिट : 3+1=4

**उद्देश्य-**

1. विद्यार्थियों को आधुनिक भारतीय इतिहास का ज्ञान प्रदान करना।
2. ब्रिटिश भू-राजस्व व्यवस्था से परिचित करवाना।
3. भारतीय पुनर्जागरण का ज्ञान प्रदान करना।
4. राष्ट्रीय आन्दोलन के महत्त्व को बताना।
5. भारतीय संविधान की जानकारी प्रदान करना।

**उपलब्धियाँ-**

1. ब्रिटिश शासन के सकारात्मक एवं नकारात्मक प्रभाव का विश्लेषणात्मक अध्ययन कर पायेंगे।
2. राजाराममोहनराय, दयानंद सरस्वती एवं स्वामी विवेकानंद आदि के जीवन से प्रेरणा प्राप्त कर अपने व्यक्तित्व का विकास कर पायेंगे।
3. भारतीय संविधान एवं राष्ट्रीय आंदोलन के आदर्शों से प्रेरणा प्राप्त कर पायेंगे।

**B.A. (IIIrd Year) (Optional Paper) Group-C**  
**Subject - Geography**  
**Paper - Geography of India**

**MM: 50**  
**Credit : 2+1+1= 4**

**Objects -**

1. To make students aware about the geography of their country.
2. To make aware about the soil, climate, vegetation, agriculture, minerals, drainage system of India.
3. To give knowledge regarding population, Transport, Tourism and religion of India.

**Course Outcomes:-**

1. Students after having knowledge of overall climate conditions, can adapt themselves at various parts of country.
2. Can contribute to the economic growth of the country.
3. Steps may be taken for proper utilisation of resources and controlling population, a major problem.

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह-(स)  
विषय- जैन विद्या  
पत्र-ज्ञानमीमांसा एवं प्रमाणमीमांसा

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य-

1. ज्ञान सिद्धान्त को समझाना।
2. न्याय प्रणाली को समझाना।

उपलब्धियाँ-

1. ज्ञानमीमांसा से परिचय होगा।
2. यौक्तिक परीक्षा की क्षमता का विकास होगा।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह-स  
विषय- जैन एवं जैनेतर दर्शन  
पत्र-जैन दर्शन के दार्शनिक सिद्धांत एवं नीतिशास्त्र

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य-

1. जैन दर्शन एवं जैनेतर भारतीय दर्शनों के पूर्व पक्ष एवं उत्तर पक्ष की जानकारी देना।
2. तार्किक क्षमता का विकास करना।
3. नीतिशास्त्र का परिचय देना।

उपलब्धियाँ-

1. यौक्तिक क्षमता का विकास होगा।
2. स्व समय एवं पर समय की सम्यक् जानकारी होगी।
3. स्व सिद्धान्त की सिद्धि का कौशल विकसित होगा।
4. नीतिशास्त्रीय अवधारणा से परिचित होंगे।

**B.A. (Third Year) Semester-VI**  
**SUBJECT : PREKSHA LIFE SKILLS**  
**(Compulsory Paper)**

**M.M. : 50**  
**Credit : 2+1+1=4**

**Objective of PLS :**

To develop multi-dimensional personality with :

1. Self-confidence by mastering Inter personal skill, Team management skill and Leadership skill.
2. A mature outlook by increasing attitudes and attributes to function effectively in different circumstances.
3. Effective Communication Skill to express attitudes, ideas and other thoughts well.
4. Effective Presentation Skill that increases creativity.

**Course Outcomes:s :**

1. Student acquainted with different managerial concepts.
2. Students are able to handle pressure conditions with ease.
3. Students become good with their communications skills and presentation skills.

**B.A. Third Year ( Core Elective Paper) (Group D)**  
**Subject – Psychology**  
**Paper - General Psychology-II**

Marks 50  
Credit : 2+1+1=4

**Objectives:**

- To enable students to develop an understanding of general principles of Psychology.
- To understand the concepts of Psychology and This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.
- To understand how psychological can be hundred in terms of various psychological principle.

**Course Outcomes:-**

1. This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.

बी.ए. तृतीय वर्ष (ऐच्छिक विषय) समूह (अ)  
विषय : आगम विद्या एवं प्राकृत साहित्य  
पत्र : प्राकृत भाषा व्याकरण एवं साहित्य

पूर्णांक 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. शौरसेनी, मागधी, पैशाची, चूलिका पैशाची एवं अपभ्रंश प्राकृत पढ़ाना।
2. पाइयसंगहो पढ़ाना।
3. निबंध रचना का अभ्यास कराना।

**उपलब्धियाँ—**

1. महाराष्ट्री प्राकृत के साथ—साथ अन्य प्राकृत की भी जानकारी होगी।
2. आगम की शैली के साथ—साथ आगम में वर्णित कथाओं की जानकारी मिलेगी।
3. प्राकृत में लेखन शैली का विकास होगा।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (अ)

विषय : अहिंसा एवं शांति

पत्र : अहिंसा प्रशिक्षण

पूर्णांक-70

क्रेडिट : 3+1=4

**उद्देश्य-**

1. अहिंसा- प्रशिक्षण एवं उसके प्रयोग क्षेत्रों की जानकारी देना।

**उपलब्धियाँ-**

1. अहिंसा प्रशिक्षण प्राप्त कर विद्यार्थी शान्ति पूर्ण एवं सहवास के लिए भूमिका तैयार करेगा।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (अ)

विषय- हिन्दी साहित्य

पत्र- प्रयोजनमूलक हिन्दी एवं अनुवाद

पूर्णांक-70

क्रेडिट : 3+1=4

**उद्देश्य-**

1. विद्यार्थी को प्रयोजनमूलक हिन्दी के बारे में जानकारी देना।
2. विद्यार्थी को पत्र लेखन शैली से अवगत कराना तथा कार्यालयी पत्र लेखन में निपुण बनाना।
3. अनुवाद विज्ञान की जानकारी देकर भावी अनुवादक तैयार करना।
4. पारिभाषिक शब्दावली की जानकारी प्रदान कर भावी पीढ़ी को तैयार करना।

**उपलब्धियाँ-**

1. विद्यार्थी कार्यालयी पत्र व्यवहार सीख सकेंगे तथा भावी प्रतियोगिता परीक्षाओं के लिये तैयार हो सकेंगे।
2. हिन्दी के अपने व्यावहारिक ज्ञान में वृद्धि कर सकेंगे।
3. विद्यार्थी अनुवाद एवं पारिभाषिक शब्दावली का ज्ञान लेकर एक अच्छा अनुवादक एवं भाषा वैज्ञानिक बन सकेगा।

**B.A. (Third Year) (Optional Paper) Group - 'A'**

**English Literature**

**Paper : Prose and Fiction**

**MM : 70**

**Credit : 3+1=4**

**Objectives:**

1. To enable the students to compose stories..
- 2 . They become aware about the spirituality and psychology..
3. To make them aware about the modern writings.
4. They become aware about the rights of women

**Course Outcomes:-**

- 1.They will compose stories without the help of a teacher
- 2.They will compose short plays and take part in plays.
3. They will be able to express their ideas .

बी.ए. तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (कालू कौमुदी)

पूर्णांक : 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. गणों का परिचय देना।
2. शुकनासोपदेश और कुमारसंभव के ग्रंथों के चयनित अंशों का अध्यापन करना।

**उपलब्धियाँ—**

1. जिनन्त, सनन्त आदि प्रक्रियाओं का ज्ञान होगा।
2. समासबद्ध एवं लघु वाक्यों के निर्माण का अभ्यास होगा।

बी.ए. तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय : संस्कृत  
पत्र : संस्कृत व्याकरण एवं साहित्य (लघुसिद्धान्त कौमुदी)

पूर्णांक : 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. गणों का परिचय देना।
2. शुकनासोपदेश और कुमारसंभव के ग्रंथों के चयनित अंशों का अध्यापन करना।
3. जिनन्त आदि दस प्रक्रियाओं का ज्ञान कराना।

**उपलब्धियाँ—**

1. जिनन्त, सनन्त आदि प्रक्रियाओं का ज्ञान होगा।
2. समासबद्ध एवं लघु वाक्यों के निर्माण का अभ्यास होगा।
3. गणों के विभिन्न धातु रूपों का ज्ञान होगा।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)  
विषय— राजनीति विज्ञान  
पत्र— (अन्तर्राष्ट्रीय सम्बन्ध)

पूर्णांक 70  
क्रेडिट : 3+1=4

**उद्देश्य—**

1. विद्यार्थियों को आत्मपरकता की शक्ति का विकास करना।
2. विश्व में विभिन्न प्रकार की घटित होने वाली घटनाओं की जानकारी देना।
3. बदलती नई विश्व व्यवस्था की जानकारी देना।
4. विभिन्न देशों की विदेश नीतियों की जानकारी देना।

**उपलब्धियाँ—**

1. विभिन्न राष्ट्रों के आपसी व्यवहार एवं आचरण के मूल कारणों को जान सकेंगे।
2. भूमण्डलीकरण, उदारीकरण, निजीकरण के युग में अन्तर्राष्ट्रीय राजनीति का तुलनात्मक अध्ययन कर सकेंगे।
3. अन्तर्राष्ट्रीय सम्बन्ध एवं अन्तर्राष्ट्रीय राजनीति पहले की अपेक्षा क्यों अधिक प्रासंगिक है? जान सकेंगे।
4. सोवियत खेमों के विघटन के पश्चात बदलते विश्व परिदृश्य को समझ सकेंगे।



स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह (ब)

विषय – जीवन–विज्ञान  
पत्र– व्यक्तित्व विकास और प्रबंधन

पूर्णांक 50  
क्रेडिट: 2+1+1=4

**उद्देश्य–**

1. व्यक्तित्व की अवधारणा को समझाना।
2. व्यक्तित्व विकास एवं इसके प्रबंधन को जानना।
3. क्षमताओं के विकास की विधियां जानना।
4. योग द्वारा व्यक्तित्व विकास को समझाना।

**उपलब्धियाँ–**

1. जीवन में स्वास्थ्य का महत्त्व एवं स्वास्थ्य संवर्धन के उपायों को जान सकेंगे।
2. शरीर के विभिन्न तंत्रों एवं अंगों से परिचित हो सकेंगे।
3. विभिन्न शारीरिक बीमारियों का योग द्वारा प्रबंधन को समझ सकेंगे।
4. संतुलित आहार, उपवास एवं शाकाहार के महत्त्व को जान सकेंगे।

**B.A. IIIrd Year (Optional Subject) (Group-B)**  
**Subject - Social Work**  
**Paper – Social Work: Themes and Practice skills**

**M.M. : 70**  
**Credit : 3+1=4**

**Objective:**

1. Create awareness about enlarging scope of Social Work profession
2. To get equipped with the practice skills in different social work related settings.
3. Acquire skills for working in different areas of Social Work
4. To develop an integrated approach to Social Work practice to uphold Human Rights and Social Justice.

**Course Outcomes:-**

1. Student will be aware about enlarging scope of Social Work profession
2. Student will be equipped with the practice skills in different social work related settings.
3. Student Acquire skills for working in different areas of Social Work
4. Student will develop an integrated approach to Social Work practice to uphold Human Rights and Social Justice.

**B.A III Year (Optional Subject) (Group -C)**  
**Subject: Information Technology**  
**Paper: Business Data Processing & Programming in Visual Basic II**

**M.M. 50**  
**Credit : 2+1+1=4**

**Objective:**

1. Students will get exposure to the concept of database connectivity using MS-Access and will be introduced to the advance concept of Visual basic programming.

**Course Outcomes::**

Students will be able to create small applications using MS-Access and Visual Basic 6.0.

**B.A. Third Year (Optional Subject) (Group C)**  
**Subject – Psychology**  
**Paper - Counseling and Guidance**

Marks 50  
Credit : 2+1+1=4

**Objective :**

1. The impart knowledge about the Counseling and Guidance.
2. To make students understand the nature and course of various Counseling and Guidance Settings.

**Course Outcomes::**

1. Students will be able to the Counseling and Guidance.

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह-स  
विषय- इतिहास  
पत्र-आधुनिक विश्व के इतिहास की रूपरेखा

पूर्णांक-70  
क्रेडिट : 3+1=4

**उद्देश्य-**

1. विद्यार्थियों को आधुनिक विश्व के इतिहास से परिचित करवाना।
2. अमेरिकी एवं फ्रांसीसी क्रांति के महत्त्व को बताना।
3. इटली एवं जर्मनी के एकीकरण की प्रेरणादायी प्रक्रिया को बताना।
4. राष्ट्र संघ एवं संयुक्त राष्ट्र संघ के महत्त्व को बताना।

**उपलब्धियाँ-**

1. विद्यार्थी विश्व इतिहास का सामान्य ज्ञान प्राप्त कर सकेंगे।
2. अमेरिकी, फ्रांसिसी, रूसी आदि क्रांति से प्रेरणा प्राप्त कर समाज में व्याप्त अव्यवस्थाओं का विरोध कर पायेंगे।
3. इटली एवं जर्मनी के एकीकरण से राष्ट्र निर्माण की प्रेरणा प्राप्त कर सकेंगे।
4. संयुक्त राष्ट्र संघ के वर्तमान महत्त्व को समझ पायेंगे।

**B.A. IIIrd Year (Optional Subject) (Group C)**  
**Subject - Geography**  
**Paper- Geographical Thought**

MM 50  
Credit : 2+1+1=4

**Objects-**

1. To give knowledge about the concept of geographical thought.
2. To give knowledge about thoughts of various geographical thinkers as of British, German, American, Romans etc.
3. Trends of Modern Geography.

**Course Outcomes:-**

1. This paper will lead to the expansion of knowledge about various thoughts regarding geography.
2. Along with Indian thinkers, Student will touch the thinkings of world's thinkers.
3. Comparisons can be made about thinking of various thinkers.

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह-स

विषय- जैन विद्या

पत्र-जैन दर्शन और विज्ञान

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य-

1. अध्यात्म और विज्ञान की जानकारी देना।
2. जैन जीवनशैली को समझाना।
3. नशा करने के कारण एवं निवारण समझाना।

उपलब्धियाँ-

1. अध्यात्म और किसान के समन्वय की समझ बढ़ेगी।
2. संयम प्रधान जीवनचर्या का विकास होगा।
3. नशामुक्ति की प्रेरणा मिलेगी।

स्नातक तृतीय वर्ष (ऐच्छिक विषय) समूह-स

विषय- जैन एवं जैनेतर दर्शन

पत्र- जैन दर्शन के दार्शनिक सिद्धान्त एवं नीतिशास्त्र

पूर्णांक 70  
क्रेडिट : 3+1=4

उद्देश्य-

1. बौद्ध एवं चार्वाक दर्शन के उत्तरपक्ष एवं पूर्वपक्ष की जानकारी देना।
2. जैन दर्शन के सिद्धान्तों की जानकारी देना।
3. नीतिशास्त्रीय अवधारणाओं को विस्तार से समझाना।

उपलब्धियाँ-

1. पूर्व पक्ष के खण्डन तथा उत्तर पक्ष के मंडन की क्षमता का विकास होगा।
2. अनेकान्त, स्याद्वाद सिद्धान्त का सम्यक् ज्ञान होना।
3. नीतिशास्त्र की मौलिक अवधारणाओं से परिचय होगा।

## **Programme Outcome (PO), Programme Specific Outcomes (PSO) & Course Outcomes of B.Sc**

B.Sc. is Bachelor of Science and it is an undergraduate level degree course in the field of science. It has many different specializations like Zoology, Chemistry, Botany, physics Microbiology, Mathematics, and many more. B.Sc. in PCM Physics, Chemistry Mathematics, and CBZ that are Chemistry, Botany, and Zoology, are a combined course which teaches about all the three subjects in detail. Candidates learn about the science of matter in more specialized manner and learn about its composition, structure, behavior, properties, and the changes it undergoes during any chemical reaction. They also learn about plant biology which includes study about algae, fungi, their growth, reproduction, development, chemical properties, structure, metabolism, etc. as a part of Botany.

The Zoology branch of the course deals with the topics like animal kingdom, their structure, embryology, classification, evolution, etc for both living and extinct animals. Physics: Career Prospects. On successful completion of this course, the candidates are open to working in wide range of employment areas like agriculture research areas, astronomy, aviation industry, colleges, construction firms, cryptography, demolition squads, education firms, hospitals, labs, etc.

Mathematical arguments in a logical manner. and statistics, chosen by the student from the given courses. Understand, formulate and use quantitative models arising in social science, Business and other contexts.

### **Programme Specific Outcomes (PSO) of B.Sc.**

1. Perceive and identify the analysis and planning of problem solving strategies with the aid of good computation skills.
2. Teaching students to work as a team as it plays an essential role in multidisciplinary dimension.
3. Students will develop the basic capability required to evaluate and illustrate basic scientific data.
4. Increment in practical knowledge and skills related to the theories of biotechnology subjects.
5. Consciences inspired with legal ethics of professionalism.

**Acharya Kalu Kanya Mahavidhyalaya,  
Jain Vishva Bharati Institute, Ladnun  
Bachelor of Science (B.Sc.)**

**Semester-I**

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 101	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

**Chemistry-Paper-I : Inorganic chemistry**

**Objectives:**

- ❖ To understand about shape of s,p,d,f orbitals and atomic structure.
- ❖ To develop critical understanding about comparative study of different elements on the basis of periodicity .
- ❖ To promote awareness about principles related to atomic structure and chemical bonding.
- ❖ To know about molecular orbital theory of homo and heteronuclear compounds.

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the principles related to atomic structure, periodicity & chemical bonding.
- ❖ Plot and interpret probability distribution curves, electronic configuration, shapes of molecules and bonding structures.
- ❖ Identifies the relationship among periodicity of various elements and properties of chemical bonding.
- ❖ Classify the elements on the basis of atomic structure, periodicity and their basic properties.

**Chemistry-Paper-II : Organic chemistry**

**Objectives:**

- ❖ To understand about reaction mechanism of organic compounds.
- ❖ To aware about different types of chemical reactions.
- ❖ To provide information about nomenclature of alkane and cycloalkane .
- ❖ To know about synthesis of alkenes and cycloalkenes .
- ❖ To acquaint about nomenclature and classification of Dienes and alkynes.

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain about reaction mechanism of organic compound.
- ❖ Know about synthesis of alkane and cycloalkanes .
- ❖ Classify various derivatives on the basis of isomerism, rules of reactivity and theories.
- ❖ Apply the mechanism of chemical reaction for explaining chemical bonding, nomenclature of various compounds.

**Chemistry-Paper-III :Physical chemistry**

**Objectives:**

- ❖ To develop curiosity about mathematical concept and use of computer .
- ❖ To provide information about various laws and their implications .
- ❖ To aware about different states, Vander Waals equation and their derivations.
- ❖ To understand about liquid stage and classification of liquid crystals.

**Course Outcomes:** After completion the course student would able to:

- ❖ Plot and interpret various graphs, probability curves and structures of gaseous and liquid states.
- ❖ Explain logarithmic relations, root mean square and laws of corresponding liquid and gaseous states.
- ❖ Measure and calculate the differentiations of functions, collision number and probability to define various behavior of different states.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 102	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I:MECHANICS – I

#### Objectives:

- ❖ To understand the physical laws and frames of reference.
- ❖ To aware the concept of special theory of relativity.
- ❖ To develop knowledge about conservation law.
- ❖ To give information about rigid body dynamics.

**Course Outcomes:** On completion of the course students would able to:

- ❖ Applies relative motion Property.
- ❖ Discuss on the Parameters defining the motion of mechanical systems.
- ❖ Classify the interaction of forces between solids in mechanical systems.
- ❖ Describe the rigid body dynamics.
- ❖ Calculate the moment of inertia about symmetric axis & CM.

### Physics-Paper-II :MECHANICS – II

#### Objectives:

- ❖ To understand the centre of mass frame.
- ❖ To aware the concept of motion under central forces.
- ❖ To develop knowledge about elasticity-I .
- ❖ To give information about elasticity-II and its examples.

**Course Outcomes:** After complition the course student would able to:

- ❖ Describe center of mass.
- ❖ Applies the vector theorems of mechanics.
- ❖ Classify the analytical mechanics.
- ❖ Use of theory of bending of beam & cantilever to determine the deformation. Differentiating various elastic coefficients.

### Physics-Paper-III:ELECTROMAGNETISM – I

#### Objectives:

- ❖ To understand the vector field and vector theory.
- ❖ To aware the concept of curl and the field of stationary charge.
- ❖ To develop knowledge about the field of moving charge.
- ❖ To give information about the magnetic field.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the basic mathematical concepts related to electromagnetic vector fields.
- ❖ Discuss about the principles of electrostatics.
- ❖ Applies the principles of magneto statics.
- ❖ Differentiation between electric field and electric potential.
- ❖ Calculate boundary conditions.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 103	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics -Paper-I : Discrete Mathematics-I

#### Objectives:

- ❖ Discuss about the set, Relation and function-Binary Relation.
- ❖ To aware about the Boolean Algebra- Lattices and Algebraic Structure.
- ❖ Understand the Logic and Propositional Calculation.
- ❖ To discuss about duality.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the terms set, Relation and function-Binary Relation.
- ❖ Interpret the Boolean Algebra- Lattices and Algebraic Structure.
- ❖ Solve the Fundamental Theorem of Arithmetic, Euler's Function.
- ❖ Calculate the Logic Problem.
- ❖ Describe the duality property.

### Mathematics -Paper-II : Differential Calculus

#### Objectives:

- ❖ To understand the series and type of series.
- ❖ To aware the concept of curvature.
- ❖ To develop knowledge about the partial differentiation.
- ❖ To give information about the conic section.

#### Course Outcomes: After completion the course student would able to:

- ❖ Identify the Test of convergence of a series.
- ❖ Calculate the Derivative of the Length of an Arc, Pedal Equation.
- ❖ Classify the Partial Differentiation.
- ❖ Use of theory of Envelopes and Evaluate Maxima & Minima of Functions of Two Variables.
- ❖ Calculate the Euler Theorem for Homogeneous Functions.

### Mathematics -Paper-III : Analytic Geometry I

#### Objectives:

- ❖ To understand the polar equation of conics.
- ❖ To aware the concept of circle of conics.
- ❖ To develop knowledge about the sphere and cone.
- ❖ To give information about the cylinder.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the Concept of Polar Equation of Conics.
- ❖ To understand the 2-D & 3-D Geometry of Sphere and Cone.
- ❖ To identify the Polar Equation of Tangent.
- ❖ To understand the 2-D & 3-D Geometry of cylinder



1.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 104	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany -Paper-I :MICROBIOLOGY

#### Objectives:

- ❖ To learn about the history, discovery, concept and applications of microbiology.
- ❖ To understand the ultra structures and classification of bacteria
- ❖ To know the structural component, cycle of life, reproduction of viruses with their diseases.
- ❖ To comprehend the basic concept of food spoilage and food preservation
- ❖ To aware the economic importance of bacteria and viruses

**Course Outcomes:** After completion the course student would able to

- ❖ Understand the ultra structures and classification of bacteria
- ❖ Describe the structural component, cycle of life, reproduction of viruses with their diseases.
- ❖ Discuss the history, discovery, concept and applications of microbiology.
- ❖ Comprehend the basic concept of food spoilage and food preservation
- ❖ Explain the economic importance of bacteria and viruses

### Botany -Paper-II :ALGAE AND LICHENS

#### Objectives:

- ❖ To know the characteristics, structure, habitat, types and evolution of algae
- ❖ To understand various aspects of photosynthetic pigments with special reference to chlorophyll and xanthophylls.
- ❖ To learn about the characteristics with reference of examples of phaeophyceae and Rhodophyceae
- ❖ To get aware the economic importance of algae
- ❖ To get knowledge about the life cycle and economic importance of lichens.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe various aspects of photosynthetic pigments with special reference to chlorophyll and xanthophylls.
- ❖ Differentiate the characteristics of phaeophyceae and Rhodophyceae
- ❖ Explain characteristics, structure, habitat, types and evolution of algae
- ❖ Interpret the economic importance of algae
- ❖ Comprehend the life cycle and importance of lichens

### Botany -Paper-III: Mycology and Plant Pathology

#### Objectives:

- ❖ To understand general characteristics, classification, structure, reproduction of fungi.
- ❖ To learn about general diseases caused by fungi, bacteria, viruses in plants
- ❖ To know general characteristics of oomycetes, zygomycetes
- ❖ To gain knowledge about other classes i.e. ascomycetes, basidiomycetes and deuteromycetes with examples.
- ❖ To understand the general characteristics of deuteromycetes

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand general characteristics, classification, structure, reproduction of fungi.
- ❖ Discuss general characteristics of oomycetes, zygomycetes
- ❖ Get knowledge about other classes i.e. ascomycetes, basidiomycetes and deuteromycetes .
- ❖ Learn about general diseases caused by fungi, bacteria, viruses in plants
- ❖ Classify the division Fungi.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 105	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology- Paper-I: Life and Diversity of animals - Nonchordata-I

#### Objectives:

- ❖ To discuss the animal kingdom.
- ❖ To understand the general characteristics and Classification of Phylum protozoa.
- ❖ To develop the general characteristics and Classification of Phylum porifera.
- ❖ To understand the general characteristics and Classification of Phylum platy helminthes
- ❖ To understand the external features and life cycle of fasciola.

#### Course Outcomes: After completion the course student would able to:

- ❖ Understand general taxonomic rules on animal classification, the principles and methods of taxonomy, the Levels of structural organization and the Basis of Classification -Coelom, symmetry, segmentation and its types.
- ❖ Classify the phylum Protozoa, Porifera & Coelenterata using examples, Understand the Locomotion in Protozoa, canal system of sponges, Coral and coral reefs & economical importance of Protozoa, Porifera.
- ❖ Clarify the external features and life cycle of fasciala.
- ❖ Discuss the sycom canal sysem of sponges skeletal system.
- ❖ Describe salient features & classification of coelenterate up to class

### Zoology- Paper-II: Life& Diversity of Animals Nonchordata- II

#### Objectives:

- ❖ To discuss the general characteristics and Classification of Phylum Annelida .
- ❖ To understand the general characteristics and Classification of Phylum Arthropod.
- ❖ To understand the general characteristics and Classification of Phylum Echinodermata.
- ❖ To understand the general characteristics and Classification of Phylum Hemichordate.
- ❖ To classify the general characteristics and classification of Phylum Mollusa.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify Phylum Annelida with taxonomic keys, and a basic idea of parasitic adaptations.
- ❖ Write down the classification and characteristics of Phylum Arthropoda,
- ❖ Write down the classification and characteristics of Phylum Mollusca Echinodermata & Hemichordata and Understand the process of pearl formation and water vascular system of star fish.
- ❖ Describe in the productive system of Leech.
- ❖ Classify in salient features of banlanoglessus

### Zoology- Paper-III: Cell Biology

#### Objectives

- ❖ To understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles
- ❖ To understand how these cellular components are used to generate and utilize energy in cells
- ❖ To understand the cellular components underlying mitotic cell division.
- ❖ To develop the structure an function of mitochondria
- ❖ To identify the lysosome structure polymorphism and function

#### Course Outcomes: After completion the course student would able to:

- ❖ Develop an understanding of the cytoskeleton and cell membrane
- ❖ The cell cycle, structure of mitochondria and types of cell divisions.
- ❖ Students are able to discuss the cell, structure of ribosome, lysosome and golgi complex.
- ❖ Students are able to discuss the endoplasmic recticulum structure .
- ❖ Studetns are able to classify in structure and function of mitochondria

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+Practical	Total
JVB 101	General English	Core Foundation(CF)	4	30	70	100

**Objective:**

1. Students will be able to recognize and understand the meaning of targeted grammatical structures in written and spoken form.
2. Students will practice the grammar skills involved in writing sentences and short paragraphs.

**Outcome:**

1. Students will begin to self-edit their oral and written production.
2. Students will make less grammatical errors.
3. Students will become clear of grammatical terms.
4. Students will get exposure of writing letters, application and paragraph.

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 102	अहिंसा एवं शांति (अहिंसा एवं अणुव्रत)	Core Elective (CE)	4	30	70	100

**उद्देश्य—**

1. अणुव्रत के विशेष संदर्भ में अहिंसा तत्त्व को समझाना।

**उपलब्धियाँ—**

1. अणुव्रत आंदोलन को जानकर संयम की दिशा में आगे बढ़ेंगे।

## Semester-II

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 201	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

### Chemistry-Paper-I : Inorganic chemistry

#### Objectives:

- ❖ To give knowledge about the mathematical concepts of ionic solid structure and packing.
- ❖ To aware about metallic bond and weak interactions among molecules.
- ❖ To provide information about various properties of s & p-block elements and their correlations.
- ❖ To develop their concept about structural principles of silicates and their applications.

#### Course Outcomes: After completion the course student would able to:

- ❖ Explain the mathematical concepts of ionic solid structure and packing.
- ❖ Plot and interpret shapes of ions and bonding structures.
- ❖ Identifies the relationship among properties of metals on the basis of various theories of bonding.
- ❖ Classify the s & p block elements like hydrides and halogens on the basis of atomic structure, periodicity and their basic properties.

### Chemistry-Paper-II : Organic chemistry

#### Objectives:

- ❖ To understand isomerism in organic compounds
- ❖ To develop their knowledge about geometric isomerism, aromaticity and halogen compounds.
- ❖ To aware them about nomenclature, mechanism and application of organic compounds.
- ❖ To develop conceptual knowledge about various principles related to geometrical structure, reactions and configuration of various compounds.

#### Course Outcomes: After completion the course student would able to:

- ❖ Explain about elements of symmetry, profile and methods of formation of organic compounds.
- ❖ Apply various mechanism rules to define chain reactions, configuration and formation of arenes, halogen compounds.
- ❖ Classify various derivatives on the basis of isomerism, configuration and energy profile.
- ❖ Describe various rules and reactions about stereochemistry, aromaticity and orientation related to chemical compounds.

### Chemistry-Paper-III :Physical chemistry

#### Objectives:

- ❖ To develop curiosity about laws of crystallography and chemical kinetics. .
- ❖ To provide information about derivation of equations, order and preparation of energy profile .
- ❖ To aware about the scope, factors and theories of chemical kinetics.
- ❖ To give information about colloidal state, their preparation and determinants.

#### Course Outcomes: After completion the course student would able to:

- ❖ Draw and interpret symmetries and structures of crystals and colloids.
- ❖ Compare among various forms of crystals, order and transition state of compounds.
- ❖ Measure and calculate the mathematical characteristics simple chemical reactions and determinants.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 202	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I : ELECTROMAGNETISM – II

#### Objectives:

- ❖ To aware about the of concepts related to Faraday’s law, induced emf.
- ❖ To give information about Maxwell’s equations to solutions of problems relating to transmission lines.
- ❖ To develop knowledge about the transient behavior of R-C circuit.
- ❖ To aware about the transient behavior of R-L circuit.

#### Course Outcomes: After completion the course student would able to:

- ❖ Understand the concepts related to Faraday’s law, induced emf, maxwell’s equations, transit behavior, electric field in matter, atomic & molecular dipoles.
- ❖ Applies Maxwell’s equations to solutions of problems relating to transmission lines, uniform plane wave propagation, magnetic field in matter.
- ❖ Understand the transient behavior of R-C circuit & L-R circuit.
- ❖ Classify the moment of a charge distribution.
- ❖ Discuss on the magnetic susceptibility and free current.

### Physics-Paper-II: OSCILLATIONS AND WAVES –I

#### Objectives:

- ❖ To aware about the concepts of mechanics,
- ❖ To give information about physical characteristics of SHM
- ❖ To calculate logarithmic decrement relaxation factor and quality factor.
- ❖ To aware acoustics and the properties of matter.
- ❖ To develop knowledge about obtaining solution of the oscillator.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the simple harmonic motion and its equation.
- ❖ Differentiate between damped oscillator and driven oscillator.
- ❖ Interpret the term frequency response and phase relation.
- ❖ Applies the concept of Ballistic galvanometer.
- ❖ Identify the coupled oscillator and some electrically coupled oscillators.

### Physics-Paper-III: OSCILLATIONS AND WAVES –II

#### Objectives:

- ❖ To aware about the concepts of lattice dynamics.
- ❖ To give information about electric transmission line.
- ❖ To calculate the wave equation and analysis the fourier series.
- ❖ To aware about the electromagnetic wave.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the group and phase velocities.
- ❖ Differentiate between 1-D mono atomic & diatomic lattice.
- ❖ Interpret the term propagation velocity and losses.
- ❖ Applies the concept of transverse wave in the string.
- ❖ Identify the spectrum of electromagnetic radiation.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 203	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I: Discrete Mathematics II

#### Objectives:

- ❖ To aware the Particular Solutions of Generating Function.
- ❖ To give information about the Graph.
- ❖ To Interpret the Eulerian and Hamiltonian Graphs.
- ❖ To give information about Trees.

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies the Particular Solutions of Generating Function.
- ❖ Discuss about the Weighted Graph, Shortest Paths.
- ❖ Plot Eulerian and Hamiltonian Graphs.
- ❖ Discuss about the Trees Properties.
- ❖ Calculate the homogeneous solutions.

### Mathematics-Paper-II :Integral Calculus

#### Objectives:

- ❖ To develop knowledge about the concepts Beta and Gamma Function.
- ❖ To aware the Concept of Double Integrals in Cartesian and Polar Co-ordinates.
- ❖ Calculate Areas and Rectification.
- ❖ To give information about the Volumes and Surfaces of Solids of Revolution.

#### Course Outcomes: After completion the course student would able to:

- ❖ Calculate the concepts Beta and Gamma Function.
- ❖ Calculate of Double Integrals in Cartesian and Polar Co-ordinates.
- ❖ Calculate Areas and Rectification.
- ❖ Discuss the volumes and Surfaces of Solids of Revolution.
- ❖ Calculate the dirichlet's integral.

### Mathematics-Paper-III :Analytic Geometry II

#### Objectives:

- ❖ To give information about the Central Conicoids.
- ❖ To aware tangent line and tangent plans.
- ❖ To develop concept generating Lines of Hyperboloid of One Sheet and its Properties.
- ❖ To give information about of a General Equation of Second g degree in 3-D to Standard Forms.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the Central Conicoids.
- ❖ Discuss the Generating Lines of Hyperboloid of One Sheet and its Properties.
- ❖ Reduction of a General Equation of Second Degree in 3-D to Standard Forms.
- ❖ Discuss the tangent lines and tangent plans.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 204	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I :CELL BIOLOGY

#### Objectives:

- ❖ To distinguish between structure of cell, cell wall and plasma membrane.
- ❖ To understand the concept of cell organelles with their detailed information.
- ❖ To know the ultra structure of Nucleus and chromosome.
- ❖ To compare the different stages of cell division (mitosis and meiosis).
- ❖ To comprehend the structure and composition of chromosomes.

#### Course Outcomes: After completion of the course student would be able to:

- ❖ Know the ultra structure of Nucleus and chromosome.
- ❖ Distinguish between structure of cell, cell wall and plasma membrane.
- ❖ Understand the concept of cell organelles with their detailed information.
- ❖ Know the different stages of cell division (mitosis and meiosis).
- ❖ Discuss the structure and composition of chromosomes.

### Botany-Paper-II :GENETICS AND PLANT BREEDING

#### Objectives:

- ❖ To know the concept of genetic inheritance
- ❖ To study the laws of Mendel
- ❖ To understand the chromosomal theory of inheritance.
- ❖ To learn about the concept of cytoplasmic inheritance.
- ❖ To understand different methods of plant breeding.

#### Course Outcomes: After completion of the course student would be able to:

- ❖ Understand the concept of genetic inheritance
- ❖ Study the laws of Mendel
- ❖ Interpret the chromosomal theory of inheritance.
- ❖ Explain the concept of cytoplasmic inheritance.
- ❖ Discuss different methods of plant breeding.

### Botany-Paper-III :BRYOPHYTA

#### Objectives:

- ❖ To acquire knowledge on bryophytes with its classification, habitat and life cycle.
- ❖ To understand habitat, structure, reproduction with life cycle of Riccia and Marchantia.
- ❖ To learn about class Anthocerotopsida.
- ❖ To know about the life cycle of Funaria.
- ❖ To apply the knowledge of bryophyta in daily life.

#### Course Outcomes: After completion of the course student would be able to:

- ❖ Acquire knowledge on bryophytes with its classification, habitat and cycle.
- ❖ Understand habitat, structure, reproduction with life cycles of Riccia and Marchantia.
- ❖ Describe the class Anthocerotopsida.
- ❖ Explain the concept of life cycle of Funaria.
- ❖ Interpret the importance of bryophyte.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 205	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I :Developmental Biology

#### Objectives

- ❖ To describe how organisms maintain gametic population.
- ❖ To understand fertilization process.
- ❖ To understand way of cleavage and different patterns to form zygote.
- ❖ To understand the fundamental embryonic development.
- ❖ To understand the complete process of formation of germ layers.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the process of: Gametogenesis, Fertilization and early development, Parthenogenesis
- ❖ Understand the concept of embryonic induction: primary organizer and competence, Developmental stages of chick (upto 96 hours).
- ❖ Discuss for the extra embryonic membranes.
- ❖ Discuss for the placenta
- ❖ Describe of stem cell

### Zoology-Paper-II : Genetics

#### Objectives

- ❖ To describe how the behavior of chromosomes during meiosis can explain mendal law.
- ❖ To understand how inheritance patterns are affected by position on chromosomes.
- ❖ To understand the similarities and differences between how genetic information is passed on in prokaryotes and eukaryotes.
- ❖ To understand gene interactions.
- ❖ To classify the sex determination in human.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the Mendelism & Multiple allelism.
- ❖ Understand the concept of gene & gene interaction, and Sex- linked Inheritance.
- ❖ Describe the Blood Group, RH Factor .
- ❖ Interpret the terms Chromosome , Thalassemia,Sickle cell anemia
- ❖ Describe in sex determination in human

### Zoology-Paper-III : Molecular Biology

#### Objectives

- ❖ To Understand about the genetic material (Nucleic acids) and DNA replication.
- ❖ To Understand about various types of RNA and process of Transcription & Translation.
- ❖ To describe the Genetic Code, and protein synthesis.
- ❖ 4.To classify the bacterial DNA structure
- ❖ To describe the nucleolus structure and function

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand about the genetic material (Nucleic acids) and DNA replication.
- ❖ Interpret about various types of RNA and process of Transcription & Translation.
- ❖ Understand the Genetic Code, and protein synthesis.
- ❖ Describe the bacterial DNA structure
- ❖ Discuss the nucleolus structure and function



Course Code	Course Title	Course Category	Credit	C.I.A. (Continouns Internal Assesment)	Theory	Total
JVB201	जैन संस्कृति एवं जीवन मूल्य (अनिवार्य पत्र)	Core Foundation(CF)	4	30	70	100

**उद्देश्य—**

1. जैन संस्कृति एवं भगवान महावीर का परिचय देना
2. जैन सिद्धान्तों का परिचय देना।
3. जीवन मूल्यों का प्रायोगिक प्रशिक्षण देना।

**उपलब्धियाँ—**

1. जैन संस्कृति से परिचित होंगे।
2. जैन साहित्य और सिद्धान्तों से परिचित होंगे।
3. जैन जीवन शैली से मूल्यों का विकास होगा।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continouns Internal Assesment)	Theory	Total
JVB202	अहिंसा एवं शांति (मानवाधिकार एवं कर्त्तव्य)	Core Elective (CE)	4	30	70	100

**उद्देश्य—**

1. मानवाधिकार एवं कर्त्तव्य की जानकारी देना।

**उपलब्धियाँ—**

1. मानवाधिकारों एवं कर्त्तव्यों के प्रति जागरूकता बढ़ेगी।

### Semester-III

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 301	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

#### Chemistry-Paper-I :inorganic chemistry

##### Objectives:

- ❖ To develop the conceptual knowledge of acid and bases.
- ❖ To aware about the classification of acids, non aqueous solvents and separation methods.
- ❖ To give information about various characteristics & laws related to hard and soft acid and bases.
- ❖ To acquaint the knowledge of principles and purifying process for various solvents.

**Course Outcomes:** After completion the course student would able to:

- ❖ Differentiate between the various types of acid and bases.
- ❖ Describe the rules and principles related to explain the properties of non aqueous solvents.
- ❖ Apply the rules of separation and purification to extract various impurities.
- ❖ Explain the general characteristics and types of solvents.

#### Chemistry-Paper-II :Organic chemistry

##### Objectives:

- ❖ To develop knowledge about classification & nomenclature of organic compounds.
- ❖ To aware about the chemical reactions, mechanism and properties of alcohol & ethers.
- ❖ To develop understanding the proper use of various laws related to synthesis and catalyzing process.
- ❖ To explain the various reactions on the basis of their mechanism.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the various organic compounds on the basis of mechanism and structure.
- ❖ Apply the knowledge of processing derivatives for synthesize various products.
- ❖ Describe and discuss about technical terminology related to alcohols, ketones & ethers etc.
- ❖ Explain different methods of formation according to chemical reactions.

#### Chemistry-Paper-III :Physical chemistry

##### Objectives:

- ❖ To develop knowledge about classification & nomenclature of Physical compounds.
- ❖ To aware about the chemical reactions, mechanism and properties of alcohol & ethers.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate and measure equivalent conductance, bond energy and thermo chemical data.
- ❖ Differentiate among intensive and extensive properties of system according to thermodynamics.
- ❖ Plot and interpret graph, equations and interrelationship related to volume, pressure and heat energy.
- ❖ Describe various phenomenon of thermodynamics, thermochemistry and electrochemistry.
- ❖ Measure thermo chemical data, enthalpy, solubility and equilibrium constant etc

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 302	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I:Statistical And Thermodynamical Physics-I

#### Objectives:

- ❖ To aware general thermo-dynamical interaction.
- ❖ To develop concept about carnot's engine and Maxwell relation.
- ❖ 3 To apply the concepts production of low temperature.
- ❖ 4. To apply the concepts of low temperature.

#### Course Outcomes: After completion the course student would able to:

- ❖ Identify and describe the statistical nature of concepts and laws in thermodynamics, in particular: entropy, temperature, chemical potential, Free energies, partition functions.
- ❖ Use the statistical physics methods, such as Boltzmann distribution, Gibbs distribution, Fermi-Dirac and Bose-Einstein distributions to solve problems in some physical systems.
- ❖ Apply the concepts and principles of black-body radiation to analyze radiation phenomena in thermodynamic systems.
- ❖ Apply the concepts and laws of thermodynamics to solve problems in thermodynamic systems such as gases, heat engines and refrigerators etc.

### Physics-Paper-II:Optics –I

#### Objective

- ❖ To give information about geometrical optics.
- ❖ To aware about the lenses and these properties.
- ❖ To develop concept about the interference.
- ❖ To give information about polarization and types of polarization.

#### Course Outcomes: After completion the course student would able to:

- ❖ Gain knowledge on various theories of light
- ❖ Acquire skills to identify and apply formulas of optics and wave physics
- ❖ Classify the properties of light like reflection, refraction, interference, diffraction etc
- ❖ Applies the diffraction and polarization.
- ❖ Classify the theory of double refraction.

### Physics-Paper-III:Electronics& Solid State Devices –I

#### Objectives:

- ❖ To give information about circuit analysis.
- ❖ To aware about the network theorems.
- ❖ To develop concept about the semiconductor.
- ❖ To give information about rectifiers and voltage regulation.

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies the kirchhoff's law (first and second) and circuit analysis.
- ❖ Calculate the network theorem (superposition, thevenin, reciprocity, compensation, maximum power transfer and miller theorems).
- ❖ Discuss the concept of the semiconductor, type of semiconductor, zener diode and hall effect.
- ❖ Identify the concept of rectifiers, voltage regulation, various type of filter.
- ❖ Calculation of ripple factor, efficiency and regulation

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 303	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I :Real Analysis

#### Objectives:

- ❖ To aware the Real Numbers as Complete Ordered Field, Closed & opened Sets.
- ❖ To gain knowledge about the Cauchy's Sequences, SuBSCquences.
- ❖ To develop knowledge about the Notion of Limit & Continuity for Functions of Two Variables.
- ❖ To develop concept about the properties of continuous function on close intervals.

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies the Real Numbers as Complete Ordered Field, Closed & opened Sets.
- ❖ Calculate the Cauchy's Sequences, SuBSCquences.
- ❖ Discuss the Properties of Continuous Functions on Closed Intervals.
- ❖ Classify the Notion of Limit & Continuity for Functions of Two Variables.
- ❖ Interprets the fundamental theorem.

### Mathematics-Paper-II : Differential Equations I

#### Objectives

- ❖ To give information about Degree& Order of a Differential Equation.
- ❖ To aware Linear Equation & Exact Differential Equation.
- ❖ To develop concept of the 1<sup>st</sup> Order but Higher Degree Differential Equation Solve for x,y &p.
- ❖ To develop knowledge about the Homogeneous Linear Differential Equations.

#### Course Outcomes: After completion the course student would able to:

- ❖ Calculate Degree& Order of a Differential Equation.
- ❖ Differentiate between Linear Equation & Exact Differential Equation.
- ❖ Calculate the 1<sup>st</sup> Order but Higher Degree Differential Equation Solve for x,y&p.
- ❖ Discuss on the Homogeneous Linear Differential Equations.
- ❖ Discuss on the linear differential equation constant coefficients.

### Mathematics-Paper-III : Numerical Analysis

#### Objectives:

- ❖ To aware Relation b/w Differences and Derivatives .
- ❖ To Understand the Divided Differences by Newton's .
- ❖ To give knowledge about the Stirling's and Bessel's Interpolation Formulae.
- ❖ To develop concept of Numerical Integration .

#### Course Outcomes: After completion the course student would able to:

- ❖ Calculate Relation b/w Differences and Derivatives .
- ❖ Discuss on the Divided Differences by Newton's .
- ❖ Applies the Stirling's and Bessel's Interpolation Formulae.
- ❖ Identify the concept of Numerical Integration.
- ❖ Applies the trapezoidal rule.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 304	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I :Molecular Biology

#### Objectives:

- ❖ To know the concept of genetic material
- ❖ To understand the structure of DNA with its model
- ❖ To get knowledge about the concept, types and process of DNA replication
- ❖ To understand the concept of transcription and Translation
- ❖ To learn about the regulation of gene expression

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the concept of genetic material
- ❖ Understand the structure of DNA with its model
- ❖ Describe the concept, types and process of DNA replication
- ❖ Differentiate the transcription and Translation
- ❖ Interpret the regulation of gene expression

### Botany-Paper-II :Biotechnology

#### Objectives:

- ❖ To know the whole concept of Biotechnology
- ❖ To distinguish between morphogenesis and micro propagation
- ❖ To aware about the mechanism of plant tissue culture.
- ❖ To learn about the isolation, culture and somatic cell hybridization
- ❖ To acquire knowledge about recombinant DNA technology and PCR technique.
- ❖ To understand the introduction, process of transgenic plants.

**Course Outcomes:** After completion the course student would able to:

- ❖ Comprehend the concept of Biotechnology
- ❖ Distinguish between morphogenesis and micro propagation
- ❖ Describe the role of plant tissue culture.
- ❖ Explain the isolation, culture and somatic cell hybridization
- ❖ Acquire knowledge about recombinant DNA technology and PCR technique.
- ❖ Interpret the transgenic plants.

### Botany-Paper-III :Plant Physiology I

#### Objectives:

- ❖ To understand structure, properties, components and phenomenon of water
- ❖ To know about different theories related to water absorption.
- ❖ To learn about Nitrogen and phosphorous cycle
- ❖ To get knowledge about concept and process of photosynthesis and respiration.
- ❖ To distinguish Aerobic and anaerobic pathways

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand structure, properties, components and phenomenon of water
- ❖ C out different theories related to water absorption.
- ❖ Explain the Nitrogen and phosphorous cycle
- ❖ Get knowledge about concept and process of photosynthesis and respiration
- ❖ Distinguish Aerobic and anaerobic pathways

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 305	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I: Life and Diversity of animals – Chordata- I

#### Objectives:

- ❖ To explain what the vertebrates are.
- ❖ To understand the general characters of each class of vertebrates.
- ❖ To understand the origin and evolutionary relationship in different classes of vertebrates.
- ❖ To understand the classification of pisces
- ❖ To develop the general characters and classification in Amphibia

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss and study the classification of Protochordata, Ascidia & Amphioxus
- ❖ Understand the classification of Agnatha & Gnathostomata, Characters of Petromyzon, Ammocoet larva, .
- ❖ Learn about the classification of Pisces, and basics of pisciculture, Scales, Fins, migration in fishes.
- ❖ Understand the classification of Amphibia, Reptilia, and the General Topics like Adaptive radiation in Amphibian, Neoteny, Parental care in Amphibians,
- ❖ Understand the classification of Aves, Mammals and the General Topics like perching mechanism, flight adaptation, migration and feathers in birds and adaptation, hair and dentition in Mammals

### Zoology-Paper-II: Microbiology & Parasitology

#### Objectives:

- ❖ To understand the classification Microorganisms.
- ❖ To Understand and study the Bacteria.
- ❖ To Understand the Parasite Protozoan's.
- ❖ To Understand the Virus, Hepatitis and HIV.
- ❖ To explain the morphology of bacteria

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies the classification Microorganisms.
- ❖ Understand and study the Bacteria.
- ❖ Explain the Parasite Protozoans.
- ❖ Classify the Virus, Hepatitis and HIV.
- ❖ Interprets the plasmodium, trypanosome, leishmania.

### Zoology-Paper-III: Physiology- I

#### Objectives:

- ❖ To develop the metabolic activities in mammalian body.
- ❖ To understand the various Biomolecules in body.
- ❖ To understand the structural chemistry of proteins, carbohydrates, fats.
- ❖ To understand the functions of Biomolecules in body Secretion.
- ❖ To explain the process of digestion.

#### Course Outcomes: After completion the course student would able to:

- ❖ Understand the Physiology of Digestion & Respiration.
- ❖ Discuss the Physiology of Circulation & nerve impulse and Reflex Action.
- ❖ Understand the Physiology of Excretion
- ❖ Describe in nitrogenous waste products.
- ❖ Interprets in hormonal control of renal function

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 301	हिन्दी (अनिवार्य पत्र)	Core Foundation(CF)	4	30	70	100

**उद्देश्य—**

1. हिन्दी व्याकरण— संज्ञा, सर्वनाम, कारक, पर्यायवाची, विलोमशब्द, समुच्चारित भिन्नार्थक शब्द, मुहावरें, लोकोक्तियाँ आदि का सामान्य ज्ञान करवाना।
2. देवनागरी लिपि का परिचय देना।
3. व्यावहारिक पत्रों की जानकारी देना।

**उपलब्धियाँ—**

1. विद्यार्थियों का व्याकरण के ज्ञान में वृद्धि होगी।
2. विद्यार्थी कार्यालय पत्र लिखने में समर्थ हो सकेंगे।
3. विद्यार्थी देवनागरी लिपि के महत्त्व, उसकी विशेषता आदि से अपने ज्ञान में वृद्धि करेंगे।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 302	Indian Culture	Core Elective(CE)	4	30	70	100

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1. प्राचीन भारतीय संस्कृति की जानकारी प्रदान करना।
2. प्राचीन गौरवशाली विश्वविद्यालयों के बारे में जानकारी प्रदान करना।
3. प्राचीन महाकाव्यों और भारतीय जीवन मूल्यों के बारे में जानकारी प्रदान करना।

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1. विद्यार्थी प्राचीन भारतीय संस्कृति की जानकारी प्राप्त कर सकेंगे।
2. विद्यार्थी प्राचीन गौरवशाली विश्वविद्यालयों के बारे में ज्ञान प्राप्त कर सकेंगे।
3. विद्यार्थी प्राचीन महाकाव्यों और भारतीय जीवन मूल्यों के बारे में जानकारी प्राप्त कर सकेंगे।

### Semester-IV

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 401	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

#### Chemistry-Paper -I :Inorganic chemistry

##### Objectives:

- ❖ To develop the knowledge about chromatography, oxidation reduction and polymerization.
- ❖ To aware about the conceptual knowledge of chromatography, polymer chemistry and bioinorganic chemistry.
- ❖ To acquaint about the classification of acids, non aqueous solvents and separation methods.
- ❖ To give information about solvent systems, diagrams and preparation methods.
- ❖ To develop understanding about phosphazenes, trace elements and nitrogen fixation.

**Course Outcomes:** After completion the course student would able to:

- ❖ Differentiate between oxidation & reduction and structures of silicon.
- ❖ Describe the principles related to differential migration, substitution and biochemistry.
- ❖ Apply the methods of chromatography, industrial uses of silicon and biochemistry to solve different issues.
- ❖ Interpret the diagrams related to redox reaction, structure and processes of polymerization.

#### Chemistry-Paper -II :Organic chemistry

##### Objectives:

- ❖ To develop knowledge about classification & nomenclature of carboxylic acid and dicarboxylic acid.
- ❖ To aware about the chemical reactions, mechanism and properties of polymers, halonitroarenes and amines.
- ❖ To develop concept of various laws related to synthesis and catalyzing process.
- ❖ To acquaint the various reactions on the basis of their mechanism.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the various organic compounds on the basis of mechanism and structure.
- ❖ Apply the knowledge of processing derivatives for synthesize various products.
- ❖ Describe and discuss about technical terminology related to acids, alkyl nitrates and amines.
- ❖ Discuss about the methods of formation, structural features and mechanism of various compounds.

#### Chemistry-Paper -III:Physical Chemistry

##### Objectives:

- ❖ To aware about laws of thermodynamics, pH, polarization of molecular structure.
- ❖ To develop conceptual knowledge about entropy, electrolytes dipole moment etc.
- ❖ To develop analytical view about evaluation of absolute entropy, activity coefficient and magnetic properties of compounds.
- ❖ To give information about carnt theorem, mixing of gases, overvoltage and referectivity.

**Course Outcomes:** After completion the course student would able to:

- ❖ Classify the electrodes, cells and properties of organic compounds.
- ❖ Determine and interpret the function of volumes, equations, coefficients related to entropy, corrosion and molecular structures.
- ❖ Describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ Measure the entropy change, pH and polarization and magnetic properties of compounds.



Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 402	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper -I: Statistical And Thermodynamical Physics-II

#### Objectives:

- ❖ To aware kinetic theory of gases.
- ❖ To Understand the transport phenomenon of gases.
- ❖ To give knowledge about the classical statistics.
- ❖ To develop concept of quantum statistics.

#### Course Outcomes: After completion the course student would able to:

- ❖ Analyze phase equilibrium condition and identify types of phase transitions of physical systems.
- ❖ Make connections between applications of general statistical theory in various branches of physics.
- ❖ Design, set up, and carry out experiments, analyze data recognising and accounting for errors and compare with theoretical predictions.
- ❖ Differentiate between B-E statistics & F-D statistics
- ❖ Discuss on the nuclear spin statistics.

### Physics-Paper -II :Optics –II

#### Objectives:

- ❖ To aware fraunhofer diffraction.
- ❖ To Understand the Fresnel class of diffraction and resolving power.
- ❖ To give knowledge about the optical activity and holography.
- ❖ To develop concept of lasers.

#### Course Outcomes: After completion the course student would able to:

- ❖ Applies interference in design and working of interferometers.
- ❖ Discuss on the resolving power of different optical instruments.
- ❖ Identify the working of holography and their applications in various fields.
- ❖ Classify the optical fiber and their applications in communication.
- ❖ Differentiate between simple light source and laser

### Physics-Paper -III:Electronics& Solid State Devices –II

#### Objectives:

- ❖ To aware about transistor.
- ❖ To Understand the amplifiers with feedback.
- ❖ To give knowledge about the amplifiers and oscillators.
- ❖ To develop concept of field effect transistor and digital circuits.

#### Course Outcomes: After completion the course student would able to:

- ❖ Identify characteristics of transistor (common base configuration, common emmitter configuration, common collector configuration).
- ❖ Discuss on the amplifiers with feedback.
- ❖ Discuss on the concept of operational amplifier & oscillators.
- ❖ Classify the field effect transistor and digital circuits.
- ❖ Differentiate between TTL and RTL.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 403	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I: Real analysis and matrix space

#### Objectives:

- ❖ To give information about the Sequence and Series of Functions.
- ❖ To aware about the Term by Term Differentiation and Integration.
- ❖ To develop knowledge about the Metric Space
- ❖ To develop knowledge about the Subspace.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Sequence and Series of Functions.
- ❖ Calculate the Term by Term Differentiation and Integration.
- ❖ Classify the Metric Space, Subspace.
- ❖ Applies the Compact Sets and Compact Space.
- ❖ Calculate the connected matrix space.

### Mathematics-Paper-II: Differential Equations II

#### Objectives:

- ❖ To give knowledge about the exact linear differential equations of nth order.
- ❖ To aware about the linear differential equations of second order.
- ❖ To know the partial differential equations of first order.
- ❖ To Understand the homogeneous and non-homogenous linear partial differential equation.

**Course Outcomes:** After completion the course student would able to:

- ❖ Calculate the exact linear differential equations of nth order.
- ❖ Classify the linear differential equations of second order.
- ❖ Discuss the partial differential equations of first order.
- ❖ Identify the homogeneous and non-homogenous linear partial differential equation.

### Mathematics- Paper-III: Optimization Theory vector calculus

#### Objectives:

- ❖ To aware about the Linear Programming Problem.
- ❖ To develop knowledge of properties and Elementary Theorems on Duality Only.
- ❖ To understand the Differentiation & Integration of vector Point functions.
- ❖ To conceptualize the Divergence & Curls.

**Course Outcomes:** After completion the course student would able to:

- ❖ Applies Linear Programming Problem.
- ❖ Classify the Properties and Elementary Theorems on Duality Only.
- ❖ Discuss on the Differentiation & Integration of vector Point functions.
- ❖ Identify the Divergence & Curls.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 404	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I :Pteridophytes

#### Objectives:

- ❖ To develop knowledge on pteridophytes with its origin and classification
- ❖ To know general characteristics of psilophyta.
- ❖ To understand the life cycle of class lycophyta and sphenophyta.
- ❖ To discuss economic importance of pteridophytes.
- ❖ To compare pteridophyte with bryophyte and gymnosperms.

#### Course Outcomes: After completion the course student would able to:

- ❖ Develop knowledge on pteridophytes with its origin and classification
- ❖ Explain general characteristics of psilophyta.
- ❖ Understand the concept of lycophyta and sphenophyta.
- ❖ Discuss concept of filicophyta and their economic importance
- ❖ Compare pteridophyte with bryophyte and gymnosperms.

### Botany- Paper-II:Gymnosperms And Paleobotany

#### Objectives:

- ❖ To know the general characteristics, distribution, classification of gymnosperms
- ❖ To learn about the economic importance of gymnosperms
- ❖ To understand the morphology anatomy, reproduction of the cycadales .
- ❖ To acquire knowledge about Ephedrales and Palaeobotany.
- ❖ To discuss the dominant fossils flora of different ages.

#### Course Outcomes: After completion the course student would able to:

- ❖ Interpret the general characteristics, distribution, classification of gymnosperms
- ❖ Acquaint with the economic importance of gymnosperms
- ❖ Discuss the morphology anatomy, reproduction of the cycadales .
- ❖ Acquire knowledge about Ephedrales and Palaeobotany.
- ❖ Explain the dominant fossils flora of different ages.

### Botany- Paper-III :Plant Physiology II And Biochemistry

#### Objectives:

- ❖ To know structure, biosynthesis and physiological role of plant hormones
- ❖ To understand structure, physiological role with distinguishable factors of hormones
- ❖ To provide knowledge of vernalization and photoperiodism.
- ❖ To comprehend the introduction, importance, nomenclature and classification of carbohydrates lipids, proteins.
- ❖ To acquire knowledge about enzymes.

#### Course Outcomes: After completion the course student would able to:

- ❖ Get knowledge about structure, biosynthesis and physiological role of plant hormones
- ❖ Understand structure, physiological role with distinguishable factors of hormones
- ❖ Discuss the concept of vernalization and photoperiodism.
- ❖ Describe the importance, nomenclature and classification of carbohydrates lipids, proteins.
- ❖ Acquire knowledge about enzymes

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 405	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I :Life and Diversity of animals – Chordata II

#### Objectives:

- ❖ To learn about the comparative study scoliodon and Rana of Integumentary system i.e. Structure of skin.
- ❖ To Understand and study the comparative study scoliodon and Rana of Heart and brain.
- ❖ To Understand and study the comparative study scoliodon and Rana of Bones.
- ❖ To Understand and study the Poisonous and nonpoisonous snakes.
- ❖ To explain the flight adaption

#### Course Outcomes: After complition the course student would able to:

- ❖ Understand and study the comparative study scoliodon and Rana of Integumentary system i.e. Structure of skin.
- ❖ Study the comparative study scoliodon and Rana of Heart and brain.
- ❖ Comparative study scoliodon and Rana of Bones.
- ❖ Interpret Poisonous and nonpoisonous snakes.
- ❖ Discuss the flight adaption

### Zoology-Paper-II: Biochemistry and Endocrinology

#### Objectives

- ❖ To explain the function of Carbohydrates and other metabolism.
- ❖ To aware the function of Lipids and metabolism
- ❖ To understand the importance of Bio molecules
- ❖ To learn about the function of Proteins and metabolism
- ❖ To aware the Types of Endocrine glands

#### Course Outcomes: After complition the course student would able to:

- ❖ Interprets the function of Carbohydrates and other metabolism.
- ❖ Explain the function of Lipids and metabolism
- ❖ Interpret the importance of Bio molecules
- ❖ Understand the function of Proteins and metabolism
- ❖ Explain the Types of Endocrine glands

### Zoology-Paper-III:Physiology- II

#### Objectives:

- ❖ To Understand the Nerve and Muscles.
- ❖ To explain the Sensory Physiology.
- ❖ To Understand the Reproduction.
- ❖ To understand the hormones action.
- ❖ To learn about the human ear mechanism of hearing

#### Course Outcomes: After complition the course student would able to:

- ❖ Interprets the Nerve and Muscles.
- ❖ Understand the Sensory Physiology.
- ❖ Understand the Reproduction.
- ❖ Classify the hormones action.
- ❖ Describe the human ear mechanism of hearing

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+Practical	Total
JVB 401	पर्यावरण (अनिवार्य पत्र)	Core Foundation(CF)	4	30	50+20=70	100

#### उद्देश्य—

1. पर्यावरण के बारे में जानकारी देना।
2. पर्यावरण के प्रति जागरूकता बढ़ाना।

#### उपलब्धियाँ—

1. पर्यावरण के बारे में जानकारी मिलेगी।
2. पर्यावरण के प्रति जागरूकता बढ़ेगी।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB 402	Modern Indian Thinkers and Social Reforms	Core Elective(CE)	4	30	70	100

#### Objectives -

1. To Understand about basic knowledge about social reforms.
2. To know about introduction and views of Indian Social Thinkers.

#### Out comes -

1. Student know about social reforms.
2. Student know about views of various Indian Social Thinkers.

### Semester-V

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 501	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

#### Chemistry-Paper-I : Inorganic Chemistry

##### Objectives:

- ❖ To develop the knowledge about coordination compound, lanthanides and actinides.
- ❖ To aware about the conceptual knowledge of valance bond theory, nomenclature, spectral properties of elements of transition series.
- ❖ To give information about coordination theory, magnetic moments, spectral properties and electronic configuration of various elements of transition series.
- ❖ To develop understanding about correlation between periodicity and general features of various elements .

##### Course Outcomes: After completion the course student would able to:

- ❖ Differentiate between lanthanides and actinides on the basis of their properties.
- ❖ Measure the correlation of various values, complex formation and spectral properties of elements of transition series.
- ❖ Classify the coordination compounds, magnetic behavior and stereochemistry of lanthanides and actinides.
- ❖ Define the separation process, structural properties and electronic configuration of compounds

#### Chemistry- Paper-II :Organic Chemistry

##### Objectives:

- ❖ To develop conceptual knowledge about infrared absorption spectroscopy, nomenclature of organometallic compounds.
- ❖ To acquaint about various laws of spectroscopy and methods of synthesis related to organometallic and heterocyclic compounds.
- ❖ To aware about laws related to IR spectrum, types of transitions and preparation of heterocyclic compounds.
- ❖ To develop understanding about effects of solvents, structural features and basicity of pyridine, piperidine and pyrrole.

##### Course Outcomes: After completion the course student would able to:

- ❖ Calssify the various organic compounds on the basis of UV spectra and transition.
- ❖ Describe and discuss about formation, structure and chemical reactions of heterocyclic compounds.
- ❖ Draw and interpret the molecular orbit picture and aromatic characteristics of organometallic and heterocyclic compounds.
- ❖ Define various devivatives and reaction mechanism of synthesis and substitution related to heterocyclic compounds.

#### Chemistry- Paper-III :Physical Chemistry

##### Objectives:

- ❖ To aware about degree of freedom, phase equilibria and quantum mechanism.
- ❖ To develop conceptual knowledge about entropy, electrolytes dipole moment etc.
- ❖ To develop analytical view about evaluation of absolute entropy, activity coefficient and magnetic propertires of compounds.
- ❖ To give information about carnt theorem, mixing of gases, overvoltage and referectivity.

##### Course Outcomes: After completion the course student would able to:

- ❖ Classify the electrodes, cells and properties of organic compounds.
- ❖ Determine and interpret the function of volumes, equations, coefficients related to entropy, corrosion and molecular structures.
- ❖ Describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ Measure the entropy change, pH and polarization and magnetic properties of compounds.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 502	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics-Paper-I :Mathematical Physics and Special Theory of Relativity – I

#### Objectives:

- ❖ To understand the concept of co-ordinate transformation.
- ❖ To know the concept of tensor analysis and dirac delta function.
- ❖ 3.To understand the Special functions (Legendre, Bessel, hermite and laguerre) .
- ❖ To aware the techniques of variables and its application to boundary value problems

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the concept of co-ordinate transformation.
- ❖ Classify the concept of tensor analysis and dirac delta function.
- ❖ 3.Differentiate the Special functions (Legendre, Bessel, hermite and laguerre) .
- ❖ Applies the techniques of variables and its application to boundary value problems.
- ❖ 5 Identify the laplace equation in spherical co ordinate system.

### Physics- Paper-II :Quantum Mechanics – I

#### Objectives:

- ❖ To Understand the Origin and Experimental Evidence of Quantum theory.
- ❖ To aware the Uncertainty Principles and Schrodinger's Wave Mechanics.
- ❖ To develop concept the Postulates and Operators of Quantum Mechanics.
- ❖ To understand the Simple Solutions of Schrodinger Equation.

**Course Outcomes: After completion the course student would able to::**

- ❖ Discuss the Origin and Experimental Evidence of Quantum theory.
- ❖ Apply the Uncertainty Principles and Schrodinger's Wave Mechanics.
- ❖ Identify the Postulates and Operators of Quantum Mechanics.
- ❖ Calculate the Simple Solutions of Schrodinger Equation
- ❖ Discuss on the discrete energy level.

### Physics- Paper-III:Solid State Physics

#### Objectives:

- ❖ To know the concept of Crystal Binding and crystal Structure.
- ❖ To understand the Thermal and Electrical Properties of the Solids.
- ❖ To aware the concept of Band Theory of Solids.
- ❖ To develop concept the Magnetic Property of materials.

**Course Outcomes: After completion the course student would able to:**

- ❖ Identify the concept of Crystal Binding and crystal Structure.
- ❖ Study the Thermal and Electrical Properties of the Solids.
- ❖ Classify the concept of Band Theory of Solids.
- ❖ Discuss the Magnetic Property of materials.
- ❖ Identify relation between exchange integral and Weiss constant.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 503	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

### Mathematics-Paper-I:Algebra - I

#### Objectives:

- ❖ To Understand the definition and Simple Properties of Group & Subgroup.
- ❖ To aware the Cayley's Theorem and Fundamental Theorem of Isomorphism.
- ❖ To know the Definition of Ring and Subrings.
- ❖ 4 To gain knowledge of morphism of ring.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on definition and Simple Properties of Group & Subgroup.
- ❖ Apply the Lagrange's Theorem on the Order of Subgroups.
- ❖ Calculate the Cayley's Theorem and Fundamental Theorem of Isomorphism.
- ❖ Discuss the definition of Ring and Subrings.
- ❖ Differentiate group, subgroup and quotient group.

### Mathematics- Paper-II:Complex Analysis -I

#### Objectives:

- ❖ To Understand the Complex Plane, Connected & Compact Set.
- ❖ To Aware the Complex Valued function.
- ❖ To know the Complex Integral.
- ❖ To study taylor's theorem and laurent's theorem .

#### Course Outcomes After completion the course student would able to:

- ❖ Discuss the Complex Plane, Connected & Compact Set.
- ❖ Identify the Complex Valued function.
- ❖ Classify the Complex Integral.
- ❖ Solve the Taylor's Theorem and Maximum Modulus Theorem.
- ❖ Discuss on the fundamental theorem of integral calculus for complex functions.

### Mathematics- Paper-III: Dynamics

#### Objectives:

- ❖ To Understand the Velocity and Acceleration.
- ❖ To Study the Motion along Horizontal & Vertical Elastic String.
- ❖ To aware the Motion in Resisting medium.
- ❖ To know about simple harmonic motion and Hooke's Law.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the Velocity and Acceleration.
- ❖ Classify the Motion along Horizontal & Vertical Elastic String.
- ❖ Identify the Motion in Resisting medium.
- ❖ Calculate Work and Energy.
- ❖ Calculate the motion on the inside and outside of a smooth vertical circle.



Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 504	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany-Paper-I:Morphology Of Angiosperms

#### Objectives:

- ❖ To understand the basic plan of flowering plants.
- ❖ To get knowledge about the morphology of root system and shoot system.
- ❖ To learn the origin, development and types of leaves
- ❖ To study the detailed structure of flower.
- ❖ To aware students with the concept and significance of seed.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the basic plan of flowering plants.
- ❖ Carry out the comparative morphology of root system and shoot system.
- ❖ Discuss the origin, development, types of leaves
- ❖ Get knowledge about the detailed structure of flower
- ❖ Interpret the concept of seed with its significance.

### Botany- Paper-II :Anatomy Of Flowering Plants

#### Objectives:

- ❖ To understand the structure and classification of tissues
- ❖ To distinguish simple and complex tissues.
- ❖ To know about the definition, classification, types and function of meristem.
- ❖ To study the anatomy of stem, root and leaf.
- ❖ To analyze different types of wood with secondary growth

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the structure and classification of tissues
- ❖ Distinguish simple and complex tissues.
- ❖ Explain the definition, classification, types and function of meristem.
- ❖ Discuss the anatomy of stem, root and leaf.
- ❖ Analyze different types of woods with secondary growth.

### Botany- Paper-III :Anatomy Of Flowering Plants Plant Systematics

#### Objectives:

- ❖ To understand the scope and importance of plant systematics .
- ❖ To study the different taxonomical tools.
- ❖ To get knowledge about the principle and rules of botanical nomenclature.
- ❖ To aware students with different families with Bentham and hooker classification.
- ❖ To learn about the botanical gardens and herbariums.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the scope and importance of angiosperms.
- ❖ Enhance knowledge about the taxonomical tools.
- ❖ Discuss the principle and rules of botanical nomenclature.
- ❖ Compare different families with Bentham and hooker classification
- ❖ Learn about the botanical gardens and herbariums.

Course Code	Course Title	CourseCategory	Credit	C.I.A.	Theory	Practical	Total
BSC 505	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I: Ethology

#### Objectives:

- ❖ To understand Concepts of Ethology- Motivation, Fixed Action Patterns (FAP), Sign Stimulus; Innate Releasing Mechanism (IRM); Action Specific Energy (ASE); Learning; Imprinting.
- ❖ To understand Methods of Studying Behaviour: Studies in Laboratory- Neurotransmitter, physiological and Neurochemical techniques. Brief account on Pheromones,
- ❖ To explain the Social organization.
- ❖ To learn about the Biological Rhythms
- ❖ To explain the control of behavior neural control hormonal control

#### Course Outcomes: After completion the course student would able to:

- ❖ Concepts of Ethology- Motivation, Fixed Action Patterns (FAP), Sign Stimulus; Innate Releasing Mechanism (IRM); Action Specific Energy (ASE); Learning; Imprinting.
- ❖ Methods of Studying Behaviour : Studies in Laboratory- Neurotransmitter, physiological and Neurochemical techniques. Brief account on Pheromones,
- ❖ Understand the Social organization.
- ❖ Interprets the Biological Rhythms
- ❖ Discuss the control of behavior neural control hormonal control

### Zoology-Paper-II :Biotechniques, Instrumentation and Bioinformatics

#### Objectives:

- ❖ To learn about the term Electrophoresis, Radioactivity.
- ❖ To understand the working principle of Centrifuge, Incubator, pH meter.
- ❖ To understand the cell culture techniques and separation techniques in biology.
- ❖ To Understand the Principle, parts, and its application of Microscopic techniques. Understand the working principle of UV-Vis principle, Colorimeter.
- ❖ To aware the recognize the importance of various databases

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the term Electrophoresis, Radioactivity.
- ❖ Understand the working principle of Centrifuge, Incubator, pH meter.
- ❖ Understand the cell culture techniques and separation techniques in biology.
- ❖ Understand the Principle, parts, and its application of Microscopic techniques. Understand the working principle of UV-Vis principle, Colorimeter.

- ❖ Recognize the importance of various databases

### Zoology-Paper-III:Immunology& Biotechnology

#### Objectives:

- ❖ To understand Distinguish Innate immunity and Acquired Immunity
- ❖ To understand the importance of Immune system
- ❖ To understand Study and understand the DNA Recombinant technology
- ❖ To Understand the Scope and Significance of Biotechnology
- ❖ To learn about mechanism of Antigen & Antibody reaction

#### Course Outcomes: After completion the course student would able to:

- ❖ Distinguish innate immunity and Acquired Immunity.
- ❖ Understand the importance of Immune system.
- ❖ Study and understand the DNA Recombinant technology.
- ❖ Understand the Scope and Significance of Biotechnology.
- ❖ Discuss the mechanism of Antigen & Antibody reaction

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+ Practical	Total
JVB501	Basics of Computer (Compulsory Paper)	Core Foundation(CF)	4	30	50+20=70	100

**Objective :**

To enable students to be aware of using MS Word, MS PowerPoint, Excel and Internet. Students will be able to do daily work using these tools and able to surf internet, download and send emails easily.

**Outcome :**

1. Students will be able to apply word, excel and powerpoint in their daily work.
2. Students will be able to make use of internet for their study purpose and will be able to create blog to exhibit their talent.

Course Code	Course Title	CourseCategory	Credit	C.I.A. (Continous Internal Assesment)	Theory+ Practical	Total
JVB502	Psychology (General Psychology-I)	Core Elective(CE)	4	30	50+20=70	100

**Objectives:**

1. To understand the concepts of basic Psychological process.
2. To understand the application of psychological concepts in daily routine problems.

**Outcome -**

1. Students will be aware of various Psychological approach and environment which will lead to the development of human behaviour.

## Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 601	Chemistry-I	Any Three CC	4	15	20	25	100
	Chemistry-II				20		
	Chemistry-III				20		

### Chemistry-Paper-I :Inorganic chemistry

#### Objectives:

- ❖ To develop understanding about metal ligand bonding, metal complexes and organometallic.
- ❖ To aware about the conceptual knowledge of spectral properties and kinetic aspects of metal complexes.
- ❖ To develop conceptual knowledge about selection rules, trans effect and substitution reactions.
- ❖ To give information about spectrochemical series, kinetic stability and bonding application of alkyls and aryls.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the organometallic compounds and metal complexes on the basis of transition, stability and bonding structures.
- ❖ Measure the correlation among structural & kinetic properties of metal complexes.
- ❖ Apply the knowledge of bonding, spectral properties and structures to define basic properties of compounds.
- ❖ Draw and interpret the energy level diagram and spectroscopic series for various states

### Chemistry-Paper-II :Organic Chemistry

#### Objectives:

- ❖ To develop conceptual knowledge about nuclear magnetic resonance, industrial uses and structures of compounds.
- ❖ To aware about classification, nomenclature and properties of carbohydrates, amino acids, fats and detergents.
- ❖ To develop understanding about synthesis, group analysis and industrial uses of fat, oil and detergents.

#### Course Outcomes: After completion the course student would able to:

- ❖ Classify the various compounds on the basis of structure, stereochemistry and formation process.
- ❖ Describe and discuss about formation, structure and chemical reactions of carbohydrates, peptides and nucleic acids.
- ❖ Apply the knowledge of industrial uses of fats, oils and detergents to produce some useful products.

### Chemistry-Paper-III: Physical chemistry

#### Objectives:

- ❖ To aware about conceptual knowledge of photochemistry, spectroscopy and mechanics.
- ❖ To develop understanding about qualitative and quantitative description of fluorescence, selection rules and isotopes.
- ❖ To develop analytical view about laws of photochemistry, degree of freedom and energy levels.
- ❖ To give information about transfer process, Raman spectrum and atomic orbitals.

#### Course Outcomes: After completion the course student would able to:

- ❖ To measure the calculation of energy levels, coefficients and spectral intensity of compounds.
- ❖ To plot and interpret the bond energy, force constant, potential energy curves of compounds.
- ❖ To describes various properties of compounds on the basis of energy, potential and dipole moment etc.
- ❖ To analyze the various structures of compounds on the basis of quantum mechanics.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 602	Physics-I	CE*	4	15	20	25	100
	Physics-II				20		
	Physics-III				20		

### Physics- Paper-I: Mathematical Physics and Special Theory of Relativity – II

#### Objectives:

- ❖ To Understand the Lorentz Transformation.
- ❖ To know the concepts of Four Vector Formulation, longitudinal and Transverse Doppler's Effect.
- ❖ To aware the Transformation between Laboratory and Centre of mass.
- ❖ To develop concept about the Transformation Electric and Magnetic Field.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the Lorentz Transformation.
- ❖ Classify the concepts of Four Vector Formulation, Longitudinal and Transverse Doppler's Effect.
- ❖ Identify the Transformation between Laboratory and Centre of mass.
- ❖ Calculate the Transformation Electric and Magnetic Field.
- ❖ Differentiate longitudinal and transverse Doppler 's effect.

### Physics- Paper-II: Quantum Mechanics – II

#### Objectives:

- ❖ To Know the Bound State Problem-I
- ❖ To Understand the Bound State Problem-II
- ❖ To aware Application of Quantum Theory.
- ❖ o gain knowledge about molecular spectroscopy.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss on the Bound State Problem-I (Potential Step, Potential Barrier, Square Well Potential) and Tunnel Effect.
- ❖ Classify the Bound State Problem-II (One Dimensional Potential Box, Eigen Value, Eigen Function).
- ❖ Applies Quantum Theory to Atomic Spectroscopy.
- ❖ Identify the Concept of Molecular Spectroscopy.
- ❖ Differentiate vibrational spectra and rotational spectra

### Physics- Paper-III: Nuclear Physics

#### Objectives:

- ❖ To Understand the Concept of Nuclear Properties like Quadrupole Moment, Nuclear Spin, Nuclear Energy, Mass spectroscopy and Theory of Nuclear Forces.
- ❖ To know the Concept of Nuclear Fission.
- ❖ To Aware the Concept of Elementary Particles.
- ❖ To develop knowledge about the Concept of Detector and Accelerator.

#### Course Outcomes: After completion the course student would able to:

- ❖ Discuss the Concept of Nuclear Properties like Quadrupole Moment, Nuclear Spin, Nuclear Energy, Mass spectroscopy and Theory of Nuclear Forces.
- ❖ Classify the Concept of Nuclear Fission.
- ❖ Identify the Concept of Elementary Particles.
- ❖ Applies the Concept of Detector and Accelerator.
- ❖ Differentiate drift tube linear accelerator and wave guide accelerator.

### Semester-VI

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 603	Mathematics-I	CE*	4	15	20	25	100
	Mathematics-II				20		
	Mathematics-III				20		

#### Mathematics- Paper-I :Algebra - II

##### Objectives:

- ❖ To aware the Integral domain and Field.
- ❖ To Understand the Ideals and Quotient Ring.
- ❖ To develop knowledge the Linear Dependence and Linear Independence of Vectors.
- ❖ To know sum of subspaces.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss about integral domain and Field.
- ❖ Identify the Ideals and Quotient Ring.
- ❖ Classify the Linear Dependence and Linear Independence of Vectors.
- ❖ Applies the Sum of Subspace.
- ❖ Discuss about quotient space

#### Mathematics- Paper-II :Complex Analysis -II

##### Objectives:

- ❖ To understand the Power Series.
- ❖ To develop knowledge about the Branch Point.
- ❖ To develop concept about the Conformal Mapping.
- ❖ To give information about cauchy's residue theorem.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Power Series.
- ❖ Identify the Branch Point.
- ❖ Applies Fundamental Theorem of Algebra.
- ❖ Analyze the Conformal Mapping.
- ❖ Discuss on the circle and radius of convergence

#### Mathematics- Paper-III: Statics

##### Objectives:

- ❖ To understand the Resultant and Equilibrium Coplanar Force Acting on a Rigid Body.
- ❖ To know the Friction.
- ❖ To aware the Virtual Work.
- ❖ To develop knowledge about the Common Catenary Force in the 3-D.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss on the Resultant and Equilibrium Coplanar Force Acting on a Rigid Body.
- ❖ Classify about the Friction.
- ❖ Calculate the Virtual Work.
- ❖ Identify the Common Catenary Force in the 3-D.
- ❖ Differentiate friction and virtual work.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 604	Botany-I	CE*	4	15	20	25	100
	Botany-II				20		
	Botany-III				20		

### Botany- Paper-I :Reproductive Biology Of Angiosperms

#### Objectives:

- ❖ To know the detailed structure of flower and male gametophyte.
- ❖ To understand the mechanism of distribution of pollen grains.
- ❖ To learn about the structure of pistil and female gametophyte.
- ❖ To get knowledge about the process of pollination and fertilization
- ❖ To study the development of embryo and endosperm

**Course Outcomes:** After completion the course student would able to:

- ❖ Explain the detailed structure of flower and male gametophyte.
- ❖ Discuss the mechanism of distribution of pollen grains.
- ❖ Interpret the structure of pistil and female gametophyte.
- ❖ Describe the process of pollination and fertilization
- ❖ Understand the development of embryo and endosperm

### Botany- Paper-II :Economic Botany And Ethnobotany

#### Objectives:

- ❖ To know the origin of cultivated plants
- ❖ To acquire knowledge of food plants, vegetables and fruits.
- ❖ To analyze the spices, oil yielding plants and Beverages.
- ❖ To understand medicinal plants, fibers and woods.
- ❖

To get

aware about ethical aspects of Ethnobotany

**Course Outcomes:** After completion the course student would able to:

- ❖ Get knowledge about the cultivated plants
- ❖ Interpret different food plants, vegetables and fruits.
- ❖ Enhance knowledge about spices, oil yielding plants and Beverages.
- ❖ Comprehend about medicinal plants, fibers and woods.
- ❖ Acquire knowledge about ethical aspects of Ethnobotany

### Botany- Paper-III :ECOLOGY

#### Objectives:

- ❖ To acquire knowledge of community, ecosystem and phytogeography
- ❖ To know about structure, components, food chains, hub, energy flows.
- ❖ To understand about vegetation and environmental pollution
- ❖ To get aware about environmental management
- ❖ To learn about different protocols.

**Course Outcomes:** After completion the course student would able to:

- ❖ Acquire complete knowledge of community, ecosystem and phytogeography
- ❖ Explain the structure, components, food chains and energy flows.
- ❖ Understand about vegetation and environmental pollution
- ❖ Interpret about environmental management
- ❖ Discuss and different protocols.

Course Code	Course Title	Course Category	Credit	C.I.A.	Theory	Practical	Total
BSC 605	Zoology-I	CE*	4	15	20	25	100
	Zoology-II				20		
	Zoology-III				20		

### Zoology-Paper-I: Evolution and Biostatistics

#### Objectives:

- ❖ To understand the process of evolution.
- ❖ To discuss concept the Lamarkism, Neo-Lamarkism and Darwinism.
- ❖ To classify and draws the Geological time scale.
- ❖ To understand aware the students for Palaentology Fossils and its significance
- ❖ To describe the Biostatistics and Biostatistical Tools.

**Course Outcomes:** After completion the course student would able to:

- ❖ Understand the process of evolution.
- ❖ Understand the Lamarkism, Darwinism and Neo-Darwinism.
- ❖ Interpret Geological time scale.
- ❖ Explain Palaentology Fossils and its significance
- ❖ Discuss the Biostatistics and Biostatistical Tools

### Zoology-Paper-II : Economic Zoology

#### Objectives:

- ❖ To Understand the Various concepts in Sericulture, Lac culture and Apiculture.
- ❖ To interprets the various concepts in Chemical Control.
- ❖ To Understand aware the students and provides the economical importance of Vermiculture
- ❖ To Understand the Various concepts in Vector borne diseases, Animal husbandry.
- ❖ To classify the economics of aquaculture.

**Course Outcomes:** After completion the course student would able to:

- ❖ Discuss the various concepts in Sericulture, Lac culture and and Apiculture.
- ❖ Understand the various concepts in Chemical Control.
- ❖ Provide the economical importance of Apiculture
- ❖ Understand the various concepts in Vector borne diseases, and Animal husbandry
- ❖ Explain the Economical of aquaculture

### Zoology-Paper-III:Ecology and Environmental Biology

#### Objectives:

- ❖ To differentiate current environmental issues based on Atmosphere.
- ❖ To understand Gain critical understanding on human influence on environment.
- ❖ To understand Positive attitude towards Biodiversity conservation.
- ❖ To describe the various concepts in Pollution.
- ❖ To know the sources, affect and control measures of water and noise pollution.

**Course Outcomes:** After completion the course student would able to:

- ❖ Describe the current environmental issues based on ecological principles.
- ❖ Gain critical understanding on human influence on environment.
- ❖ Aware about the positive attitude towards Biodiversity conservation.
- ❖ Understand the various concepts in Pollution.
- ❖ Explain the sources, affect and control measures of water and noise pollution.



Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory	Total
JVB601	PERSONLITY DEVELOPMENT & YOGA (Compulsory Paper)	Core Foundation(CC)	4	30	70	100

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- 1- विद्यार्थियों को व्यक्तित्व के विभिन्न आयामों की जानकारी देना।
- 2- विद्यार्थियों को प्रबन्धन के विभिन्न पहलुओं की जानकारी देना।

मि yfC/k ; k %

- 1- विद्यार्थी व्यक्तित्व के विभिन्न आयामों की जानकारी प्राप्त करेंगे।
- 2- विद्यार्थी को प्रबन्धन के विभिन्न पहलुओं की जानकारी प्राप्त कर सकेंगे।

Course Code	Course Title	Course Category	Credit	C.I.A. (Continous Internal Assesment)	Theory+Practical	Total
JVB602	Psychology (General Psychology-II)	Core Elective(CE)	4	30	50+20=70	100

#### Objectives:

- To enable students to develop an understanding of general principles of Psychology.
- To understand the concepts of Psychology and This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.
- To understand how psychological can be hundred in terms of various psychological principle.

#### Outcome-

This course will familiarize students with the basic psychological processes and the studies relating to the factors which influence them.