

		<p>efficiencies.</p> <ol style="list-style-type: none"> <li>Block chain for business uses a shared and immutable ledger that can only be accessed by members with permission.</li> <li>It maintains a decentralized and secure record of crypto transactions.</li> </ol>
<b>Course Code</b>	<b>Course Name</b>	<b>Course Outcomes</b>
<b>UF-CS-254</b>	<b>Numerical Methods</b>	<ol style="list-style-type: none"> <li>Students would be able to assess the approximation techniques to formulate and apply appropriate strategy to solve real world problems.</li> <li>An ability to apply knowledge of mathematics, science, and engineering.</li> <li>An ability to design a system, component, or process to meet desired needs within realistic constraints.</li> <li>An ability to function on multidisciplinary teams.</li> </ol>
<b>UF-CS-151</b>	<b>Operating Systems</b>	<ol style="list-style-type: none"> <li>Explain main components, services, types and structure of Operating Systems.</li> <li>Apply the various algorithms and techniques to handle the various concurrency control issues.</li> <li>Compare and apply various CPU scheduling algorithms for process execution.</li> <li>Explain and apply various memory, I/O and disk management techniques.</li> </ol>
<b>UF-CS-255</b>	<b>Real Time System</b>	<ol style="list-style-type: none"> <li>Describe concepts of Real-Time systems and modeling.</li> </ol>

		<ol style="list-style-type: none"> <li>Recognize the characteristics of a real-time system in context with real timescheduling.</li> <li>Classify various resource sharing mechanisms and their related protocols.</li> <li>Apply the basics of RTOS in interpretation of real time systems.</li> </ol>
<b>UF-CS-256</b>	<b>Python Programming</b>	<ol style="list-style-type: none"> <li>Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.</li> <li>Express proficiency in the handling of strings and functions.</li> <li>Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.</li> <li>Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python.</li> </ol>
<b>UF-CS-152</b>	<b>Software Engineering</b>	<ol style="list-style-type: none"> <li>Explain various software characteristics and analyze different software Development Models.</li> <li>Demonstrate the contents of a SRS and apply basic software quality assurance practices to ensure that design, development meet or exceed applicable standards.</li> <li>Compare and contrast various methods for software design.</li> <li>Formulate testing strategy for software systems, employ techniques such as unit testing, Test driven development and functional testing.</li> </ol>

<b>UF-CS-150</b>	<b>Operating Systems Lab</b>	<ol style="list-style-type: none"> <li>1. Ability to implement inter process communication between two processes.</li> <li>2. Ability to design and solve synchronization problems.</li> <li>3. Ability to simulate and implement operating system concepts such as scheduling, Deadlock management, file management, and memory management.</li> </ol>
<b>UF-CS-257</b>	<b>Python Programming Lab</b>	<ol style="list-style-type: none"> <li>1. Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.</li> <li>2. Express proficiency in the handling of strings and functions.</li> <li>3. Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries, tuples and sets.</li> <li>4. Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python.</li> </ol>

Course Code	Course Name	Course Outcomes
<b>UF-CS-258</b>	<b>Data Mining &amp; Warehousing</b>	<ol style="list-style-type: none"> <li>1. Develop an understanding of the subject.</li> <li>2. Understanding the concepts of Data Mining &amp; Warehousing.</li> <li>3. Understanding the practical aspects of Data Mining &amp; Warehousing.</li> <li>4. Demonstrate the</li> </ol>

		skills of basic of Data Mining & Warehousing.
<b>UF-CS-259</b>	<b>Mobile Computing</b>	<ol style="list-style-type: none"> <li>1. Explain and discuss issues in mobile computing and illustrate overview of wireless telephony and channel allocation in cellular systems.</li> <li>2. Explore the concept of Wireless Networking and Wireless LAN.</li> <li>3. Analyse and comprehend Data management issues like data replication for mobile computers, adaptive clustering for mobile wireless networks and Disconnected operations.</li> <li>4. Identify Mobile computing Agents and state the issues pertaining to security and fault tolerance in mobile computing environment.</li> </ol>
<b>UF-CS-260</b>	<b>Applications of Soft Computing</b>	<ol style="list-style-type: none"> <li>1. Learn about soft computing techniques and their applications.</li> <li>2. Analyze various neural network architectures.</li> <li>3. Understand perceptions and counter propagation networks.</li> <li>4. Analyze the genetic algorithms and their applications.</li> </ol>

<p><b>UF-CS-143</b></p>	<p><b>Design and Analysis of Algorithms</b></p>	<ol style="list-style-type: none"> <li>1. Design new algorithms, prove them correct, and analyze their asymptotic and absolute runtime and memory demands.</li> <li>2. Find an algorithm to solve the problem (create) and prove that the algorithm solves the problem correctly (validate).</li> <li>3. Understand the mathematical criterion for deciding whether an algorithm is efficient, and know many practically important problems that do not admit any efficient algorithms.</li> <li>4. Understand basic techniques for designing algorithms, including the techniques of recursion, divide-and conquer, and greedy.</li> </ol>
<p><b>UF-CS-261</b></p>	<p><b>Introduction to Cloud Computing</b></p>	<ol style="list-style-type: none"> <li>1. Develop an understanding of the subject.</li> <li>2. Understanding the concepts of about Cloud Computing.</li> <li>3. Understanding the practical aspects of about Cloud Computing.</li> <li>4. Demonstrate the skills of basic of about Cloud Computing.</li> </ol>
<p><b>UF-CS-144</b></p>	<p><b>Design and Analysis of Algorithms Lab</b></p>	<ol style="list-style-type: none"> <li>1. Design new algorithms, prove them correct, and analyze their</li> </ol>

		<p>asymptotic and absolute runtime and memory demands.</p> <ol style="list-style-type: none"> <li>2. Find an algorithm to solve the problem (create) and prove that the algorithm solves the problem correctly (validate).</li> <li>3. Understand the mathematical criterion for deciding whether an algorithm is efficient, and know many practically important problems that do not admit any efficient algorithms.</li> <li>4. Understand basic techniques for designing algorithms, including the techniques of recursion, divide-and-conquer, and greedy.</li> </ol>
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Course Code	Course Name	Course Outcomes
<b>UF-CS-262</b>	<b>Network Security &amp; Cryptography</b>	<ol style="list-style-type: none"> <li>1. Analyze and design classical encryption techniques and block ciphers.</li> <li>2. Understand and analyze data encryption standard.</li> <li>3. Understand and analyze public-key cryptography, RSA and other public-key cryptosystems.</li> </ol>

<p><b>UF-CS-263</b></p>	<p><b>Fundamentals to Machine Learning</b></p>	<ol style="list-style-type: none"> <li>1. To understand the need for machine learning for various problem solving.</li> <li>2. To understand a wide variety of learning algorithms and how to evaluate Models generated from data.</li> <li>3. To understand the latest trends in machine learning.</li> <li>4. To design appropriate machine learning algorithms and apply the algorithms to a real-world problems.</li> </ol>
<p><b>UF-CS-264</b></p>	<p><b>Web Technology</b></p>	<ol style="list-style-type: none"> <li>1. Explain web development Strategies and Protocols governing Web.</li> <li>2. Develop Java programs for window/web-based applications.</li> <li>3. Design web pages using HTML, XML, CSS and JavaScript.</li> <li>4. Creation of client-server environment using socket programming.</li> </ol>
<p><b>UF-CS-265</b></p>	<p><b>Embedded System &amp; IOT</b></p>	<ol style="list-style-type: none"> <li>1. Provide the participants in-depth knowledge and skills required by Embedded System and IoT Companies around the globe by imparting comprehensi</li> </ol>

		<p>ve understanding about the fundamental principles, methodologies and industry practices.</p> <ol style="list-style-type: none"> <li>2. Makes the successful participants readily employable in multiple roles available in Embedded and IoT Industry.</li> <li>3. Enhances the skill sets and confidence for Embedded Start-ups.</li> </ol>
<b>UF-CS-266</b>	<b>Fundamentals to Machine Learning Lab</b>	<ol style="list-style-type: none"> <li>1. To understand the need for machine learning for various problem solving.</li> <li>2. To understand a wide variety of learning algorithms and how to evaluate models generated from data.</li> <li>3. To understand the latest trends in machine learning.</li> <li>4. To design appropriate machine learning algorithms and apply the algorithms to a real-world problems.</li> </ol>
<b>UF-CS-267</b>	<b>Web Technology Lab</b>	<ol style="list-style-type: none"> <li>1. Explain web development Strategies and Protocols governing Web.</li> </ol>



		<ol style="list-style-type: none"><li>2. Develop Java programs for window/web-based applications.</li><li>3. Design web pages using HTML, XML, CSS and JavaScript.</li><li>4. Creation of client-server environment using socket programming.</li></ol>
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**Faculty of Homoeopathic Science Department of Repertory**

1. Receiving the case (Case Taking) – Students should understand how to take detail case homoeopathic point of view.
2. Too understand scope and limitations of Homoeopathic Repertory.
3. Too understand Typography, Gradation.
4. Too understand Classification of Symptoms, Analysis of case, Synthesis of the case (Image), Evaluation of symptoms, Conceptual image.
5. Should have understanding about Construction and use of various repertories like Kents, Bogers, Boenninghausen's repertory, Card Repertory, Concordance Repertory, Clinical Repertory, etc.
6. Too understand various methods of repertorization.
7. Students are able to understand various computer repertory software.
8. Students should understand various repertory software to process the case and how to repertories it by computerized repertorization.
9. Should have understanding about Rubrics, cross references and interpretation of symptoms into rubrics (Conversion into rubric) for repertorization purpose, relationship of remedies.
10. Too understand Construction and Organization of the repertory.

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### **Department of JOURNALISM**

#### *Course Outcomes of Master in Journalism*

##### **Course Outcomes**

1. To enable the student to appreciate the composite nature and the underlying unity amidst diversity in all aspects of Indian culture. To assist the student to situate and assess Inter culture communication in the contemporary globalized world.
2. Communication for development and environmental purposes is believed to lead to change. This course looks at the theoretical and practical perspectives around environment and development communication. Students will study key development and environmental problems, policies, practices, role of the mass media, and will also be expected to critique them. They will also learn how to design communication messages for development. Students are expected to engage in active class discussions apart from regular assessment. They will also have to develop a small development communication project.
3. This course offers a comprehensive approach to Print media and New Media and is designed for those who work in, or want to work in the changing media industries. Students will examine key developments in the media and communications industries associated with the changing nature of the technological development in the media.
4. To provide students a broad view of the evolution of mass media with special emphasis on development of mass media in India.
5. Introduces the student to generally understand and write about business, economic issues, industry and the stock market. The subject does not presume a prior knowledge of business reporting but requires a genuine interest to read and understand business news. It will help develop a skill to follow and prepare print, television and online business reports.
6. The main objective of course is to teach the students the programme production process in Broadcast Media.
7. The course on Research Methodology is being offered to the students to equip them in understanding the media research and also for writing a dissertation as part of their curriculum, in the third semester. The syllabus is designed to provide comprehensive knowledge in the field of communication and enable the students conduct research independently and take up research in the field of mass communication as a career. The

course is compulsory for all students. The course includes the various research methods, primarily quantitative in nature.

8. This course will help you learn how media leaders and their challengers use people, money, research, services, time and technology to market their messages. Student will learn about basic principles and functions of management and how media companies function today, and how they can prepare themselves for the future
9. The course educates the student to understand the basic principles of the advertising and its concept. The course will also introduce the Public Relation field and the students will know the process along with practice in PR industry



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**DEPARTMENT OF Humanities & Social Science**

*Course Outcomes of Master in Sociology*

**Course Outcomes:**

1. The course is intended to introduce some important concepts of sociology. For a student of Sociology, it is very important to understand the structure of society. Therefore, this course enables the learner to understand the emergence of discipline, various perspectives, institutions and structure of society in totality.
2. Indian society is a pluralistic society with a complex social order characterized by a multitude of ethnic, linguistic, religious, and caste divisions. It comprises people living in rural, urban, tribal settings and all these sections carry the ethos of Indianness. So, the paper enables the students to learn Theoretical Perspectives on Indian Society.
3. This course enriches the sociological knowledge of the students by understanding the works and theories of the classical thinkers. Emile Durkheim, Durkheim, Max Weber, Marx, are indispensable for understanding the sociological enterprise. They are among the chief founders of the discipline, and their work can stimulate students to reflect on their own identities and worldviews.
4. This course enables the students to have in depth understanding of the gender related issues and approaches. It also sensitizes them regarding the cultural construction of femininity and masculinity.
5. Kin relationships are traditionally defined as ties based on blood and marriage. They include lineal generational bonds (children, parents,



grandparents, and great-grandparents), collateral bonds (siblings, cousins, nieces and nephews, and aunts and uncles), and ties with in-laws. The course would enhance the knowledge base of the learner regarding the kinship system in general and about marriage, family and kinship pattern existing in India, in particular.

6. The course Supplement students' knowledge beyond the sociological field. The Constitution of India is the supreme law of India. The document lays down the framework that demarcates fundamental political code, structure, procedures, powers, and duties of government institutions and sets out fundamental rights, directive principles, and the duties of citizens. Through the course, Students are made aware of the fundamental rights that are enforceable by law and the role of the state and the judiciary in its protection.



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**DEPARTMENT OF EDUCATION & METHODOLOGY**

*Course Outcomes of Master in English*

Course Code	Course Name	Course Outcomes
UF-ED-756	ENGLISH LITERATURE CHAUCER TO MILTON	<ol style="list-style-type: none"><li>1. Understand the theoretical framework of English literature and related standards.</li><li>2. Demonstrate the knowledge of English literature from Chaucer to Milton period.</li><li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li><li>4. Outline the emerging trends in the field of language, art and literature.</li></ol>
UF-ED-755	EIGHTEENTH CENTURY ENGLISH LITERATURE	<ol style="list-style-type: none"><li>1. Understand the theoretical frame work of eighteenth century English literature and related standards.</li><li>2. Demonstrate the knowledge of eighteenth century English literature.</li><li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li><li>4. Outline the emerging trends in the field of language, art and literature.</li></ol>

<b>UF-ED-758</b>	<b>PRE-ROMANTICS AND ROMANTICS</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of pre-romantics and romantics English literature and related standards.</li> <li>2. Demonstrate the knowledge of pre-romantics and romantics English literature.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-762</b>	<b>WOMEN WRITING</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of women writings in English literature and related issues .</li> <li>2. Demonstrate the knowledge of women writings in English literature.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-761</b>	<b>VICTORIAN LITERATURE</b>	<ol style="list-style-type: none"> <li>1. Victorian Literature, will transform the students in almost aspects of English life.</li> <li>2. How English will effect scientific, economic and technological advances .</li> <li>3. It will impart role of religion in society.</li> </ol>
<b>UF-ED-759</b>	<b>BRITISH DRAMA AND NOVEL</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of British drama and novel</li> </ol>




		<p>in English literature and related issues .</p> <ol style="list-style-type: none"> <li>2. Demonstrate the knowledge of British drama and novels of English literature.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-760</b>	<b>LITERATURE AND GENDER</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of literature, gender and related issues .</li> <li>2. Demonstrate the knowledge of literature and gender.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-765</b>	<b>LITERARY THEORY</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of literary theory in literature and related issues .</li> <li>2. Demonstrate the knowledge of literary theories in English literature.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>

<p><b>UF-ED-766</b></p>	<p><b>TWENTIETH CENTURY: POETRY AND DRAMA</b></p>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of drama and its forms in English literature and related issues .</li> <li>2. Demonstrate the knowledge of drama of English literature and other related disciplines.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<p><b>UF-ED-767</b></p>	<p><b>TWENTIETH CENTURY: PROSE AND FICTION</b></p>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of twentieth century prose and fiction in English literature and related issues .</li> <li>2. Demonstrate the knowledge of twentieth century prose and fiction in English literature.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<p><b>UF-ED-763</b></p>	<p><b>AMERICAN LITERATURE I</b></p>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of American literature and related issues .</li> <li>2. Demonstrate the knowledge of American literature.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> </ol>

		<ol style="list-style-type: none"> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-764</b>	<b>INDIAN LITERATURE IN ENGLISH-I</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of Indian literature in English and related issues.</li> <li>2. Demonstrate the knowledge of Indian literature in English.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-772</b>	<b>PROJECT WORK</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of genres of Indian, English and American in English literature and related issues .</li> <li>2. Demonstrate the application of knowledge in preparing minor projects on literature related issues/topics.</li> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends through writing projects in the field of language, art and literature.</li> </ol>
<b>UF-ED-770</b>	<b>INDIAN LITERATURE IN ENGLISH -II</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of Indian literature in studying select works English and related issues.</li> <li>2. Demonstrate the knowledge of Indian literature in English.</li> </ol>

		<ol style="list-style-type: none"> <li>3. Exercise the knowledge in developing the major issues related to literature and existing and modern literatures.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-774</b>	<b>RESEARCH METHODOLOGY</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of research, research methodology and related issues.</li> <li>2. Demonstrate the knowledge of different components of research in writing research papers, minor, or major projects related to art and literature.</li> <li>3. Exercise the knowledge in developing the major issues related to research.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>
<b>UF-ED-773</b>	<b>DISSERTATION</b>	<ol style="list-style-type: none"> <li>1. Understand the theoretical framework of research, research methodology and related issues.</li> <li>2. Demonstrate the knowledge of different components of research in writing research papers, minor, or major projects related to art and literature.</li> <li>3. Exercise the knowledge in developing the major issues related to research.</li> <li>4. Outline the emerging trends in the field of language, art and literature.</li> </ol>

  
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### DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

#### *Course Outcomes of MASTER IN GEOGRAPGY*

#### **EVOLUTION OF GEOGRAPHICAL THOUGHTS(upto1800AD)**

**Course outcomes:** On the completion of this course students will be able to learn the following:

- CO 1. To develop an understanding of historical and evolutionary perspective of the subject
- CO 2. To make students learn new concepts and recent developments in the subject.
- CO 3. To develop fundamental understanding of various approaches to geographical studies.
- CO 4. Basic contents for various competitive examinations for civil services, lecturership, schooleducation, UGC NET-JRF and so on.

#### **STRUCTURAL AND DYNAMIC BASIS OF GEOMORPHOLOGY**

**Course outcomes:** On the completion of this course students will be able to learn the following:

- CO 1. To develop an understanding of major relief features and process of their formation on the earth surface.
- CO 2. To develop an understanding of landform dynamics and predict their changes on the earth surface.
- CO 3. To develop knowledge and skills to carry out geomorphological mapping and field investigations.
- CO 4. To develop research aptitude in the field of Geomorphology.

- CO 5. Basic contents for various competitive examinations for civil services, lecturership, schooleducation, UGC NET-JRF and so on.

### **PRINCIPLES AND THEORY OF ECONOMIC GEOGRAPHY**

**Course outcomes:** On the completion of this course students will be able to learn the following:

- CO 1. To enhance spatial knowledge of various economic activities of man in relation to his natural milieu.
- CO 2. To develop an understanding of diversified economic regions of the world in context of case studies.
- CO 3. Basic contents for various competitive examinations for civil services, lecturership, schooleducation, UGC NET-JRF and so on.
- CO 4. To develop insight into various issues for applied research in the field of economic geography.
- CO 5. To develop a comprehensive understanding of the agro, economic and industrial landscape at regional level.

### **Climatology and Oceanography**

**Course outcomes:** On the completion of this course students will be able to learn the following:

- CO 1. To extend knowledge of major climatic and oceanic phenomena and their inter-related processes taking place on the earth surface.
- CO 2. To develop an understanding of applying knowledge of day to day weather and climatic phenomenon which is very significant in everyday life.
- CO 3. To develop a perspective of impact of climatic change on our ecosystem.
- CO 4. Basic contents for various competitive examinations for civil services, lecturership, schooleducation, UGC NET-JRF and so on.

### **Surveying & Leveling**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To develop skill to map locations of real-world features.
- CO 2. Develops skill to determine the distances on ground and height of various features on the earth.

- CO 3. Develops a sound knowledge of surveying and levelling instruments with focus on improving precision in field measurements.
- CO 4. To develop vocational expertise for work as surveyors, town planners and cartographers.

### **ADVANCED GEOGRAPHY OF INDIA**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To develop a sound understanding of natural and cultural landscape of India.
- CO 2. To develop comprehensive understanding of the physical, economic, demographic, social and environmental aspects of the country.
- CO 3. To develop understanding of the resource base and developmental challenges on regional basis.
- CO 4. To cover the fundamental contents of general studies for various competitive examinations.

### **MAN AND NATURAL ENVIRONMENT**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To develop an understanding of distribution of various resources in the world.
- CO 2. To foster knowledge about conservation of resources and their role in regional planning for development.
- CO 3. To develop perspective towards sustainable utilization of resources.
- CO 4. Basic contents for various competitive examinations for lecturership, school education and so on.



## **REGIONAL GEOGRAPHY**

Course outcomes: On the completion of this course students will be able to learn the

following:CO 1. To develop understanding of the fundamentals of regional planning.

CO 2. To assess the impact of government policies on regional development and

planningCO 3. To gain knowledge of various schemes and models on regionalization of India.

CO 4. To impart a strong conceptual base regarding development patterns, disparities, planning, challenges and priorities for students opting for administrative services as career.

## **Political Geography**

Course outcomes: On the completion of this course students will be able to learn the

following:

CO 1. Helps in understanding the fundamentals of political phenomenon across the world.

CO 2. To extend knowledge on various Geopolitical models.

CO 3. To learn electoral behaviour patterns in context of India and Rajasthan.

CO 4. Basic contents for various competitive examinations for lecturership, UGC NET-JRF and so on.

## **APPLIED GEOGRAPHY**

Course outcomes: On the completion of this course students will be able to learn the

following:CO 1. To learn fundamentals of agricultural geography

CO 2. To gain knowledge about world agricultural systems and models of agricultural land use.

CO 3. To develop sound understanding of the use of quantitative techniques in agricultural studies.

CO 4. To develop understanding regarding the course of agricultural development in India, problems, policies, planning and agricultural regionalization.

CO 5. To impart comprehensive theoretical and conceptual understanding for a potential field of applied geographical research.



### **Urban Geography**

Course outcomes: On the completion of this course students will be able to learn the

following: CO 1. To understand site evolution, growth and classification of cities.

CO 2. To provide scientific study of urban settlements and

morphology. CO 3. To understand potential solutions to problems of urbanization.

CO 4. Focuses on core concepts of town planning, helping students to prepare for better careers in this field.

### **Environmental Geography**

Course outcomes: On the completion of this course students will be able to learn the

following: CO 1. To develop an understanding of man and environment relationship.

CO 2. Creating awareness about current environmental issues, related laws and global initiatives to combat environmental degradation.

CO 3. To study various types of ecosystems.

CO 4. To provide knowledge regarding tools and methods of environmental management and planning.

### **REGIONAL GEOGRAPHY**

Course outcomes: On the completion of this course students will be able to learn the following:

CO 1. To provide a comprehensive understanding of the geographical landscape of the state including all physical, socio-economic and cultural aspects.

CO 2. To develop a sound understanding of resource base, its distribution and challenges of utilization.

CO 3. To understand the major developmental and environmental challenges of the state.

CO 4. To cover the basic contents for various competitive examinations viz. civil services, state level PSC exams, lecturership, school education and so on.

### **Cultural Geography**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To understand various cultural realms and cultural regions of the world.
- CO 2. To understand socio-cultural trends of various tribes and human races.
- CO 3. To understand the cultural conflicts in context of globalization.
- CO 4. Basic contents for various competitive examinations for lecturership, UGC NET-JRF and so on.

### **Advanced geography**

Course outcomes: On the completion of this course students will be able to learn the following: CO 1. To develop a thorough understanding of various types and use of map projections.

- CO 2. To learn the various techniques for cartographic representation of socio-economic and demographic phenomena.
- CO 3. To understand the pre-conditions, suitability and limitations of various maps and diagrams.
- CO 4. To cover basic contents for various competitive examinations for lecturership, school education, UGC NET-JRF and so on.

### **Basic of Geographical Information System**

Course outcomes: On the completion of this course students will be able to learn the following: CO 1. To train the students in state-of-the-art geospatial technology.

- CO 2. To introduce the fundamental concepts of GIS, methods of geospatial data generation and visualization and the vast repository of data available on web-geoportals.
- CO 3. To develop working skills in open source and proprietary GIS softwares.
- CO 4. To create awareness regarding the potential of GIS in decision making and planning.
- CO 5. To foster technical skills for employment opportunities as GIS consultant/analyst/project associates/entrepreneurs across private and public sector.

### **Industrial Geography**

Course outcomes: On the completion of this course students will be able to learn the following: CO 1. To impart sound understanding of factors, theories and models of industrial location.

- CO 2. To learn about the distribution of major industries and industrial regions in the world with special reference to India.
- CO 3. To develop proficiency in use of various quantitative techniques in the field.
- CO 4. To develop understanding of various environmental issues related to industrialization.
- CO 5. Basic contents for various competitive examinations for lecturership, school education, UGC NET-JRF and so on.

### **Population Geography**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To understand the world distribution of population, demographic dividend and demography attributes and population policy with special reference to India.
- CO 2. To foster knowledge of trends of population growth and migration patterns.
- CO 3. To understand the development, typology, structure, models and theories of rural and urban settlements.
- CO 4. Basic contents for various competitive examinations for lecturership, school education, UGC NET-JRF and so on.

### **Research Methodology**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To prepare sound theoretical background for scientific research in the field of Geography.
- CO 2. To introduce the concepts of research problem, hypotheses, research design and methodology.
- CO 3. To impart knowledge regarding various sources of data, methods of data collection, sampling techniques, processing, qualitative and quantitative analysis of data.
- CO 4. To master the skills of literature review and thesis/report writing.
- CO 5. To develop aptitude for applied research with due awareness of research ethics.

### **Social Geography**

Course outcomes: On the completion of this course students will be able to learn the

- following:
- CO 1. To understand social structure and their spatial attributes.
  - CO 2. To understand socio-cultural trends of various tribes and human races of the world.
  - CO 3. To understand about social relations, identities and inequalities from geographical perspective.
  - CO 4. Basic contents for various competitive examinations for lecturership, UGC NET-JRF and so on.

### **World Geography**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To develop an understanding of terrain, climate, natural vegetation and soil of continents.
- CO 2. To gain knowledge about demographic and economic of all continents of the world.
- CO 3. To enrich the knowledge of regional geography of various continents.

- CO 4. Basic contents for various competitive examinations for civil services, lecturership, school education, UGC NET-JRF and so on.

### **Geospatial Techniques for Applied Geographical Research**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To learn the various steps of image processing and information extraction workflow from satellite imageries.
- CO 2. To learn the various advanced techniques of GIS based analysis for applied research, decision making and planning.
- CO 3. To develop working skills in various open source and proprietary image processing and GIS softwares - ArcGIS, Erdas Imagine, ENVI, ILWIS, QGIS, SAGA, etc.
- CO 4. To produce professionals with an edge as researchers trained in state-of-the-art technology with sound theoretical base; planners and decision makers with thorough understanding of the capabilities and tools of geospatial technology; and avenues for self-employment as technical/geo-spatial consultants.

### **Project Work on Natural Resource Management Using RS-GIS**

Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To impart practical experience of using geospatial technology for solving real world problems related to various fields viz. natural resource management, urban planning, land-use planning, water resource, agriculture and health management.
- CO 2. To develop an understanding of the work flow of project conceptualization, planning and implementation using geospatial techniques.
- CO 3. To develop presentation skills and defending the work in open viva.
- CO 4. To impart research experience enabling the students to carry out small projects and present their work on various platforms such as conferences/seminars.

### **Statistical Analysis Using Software**

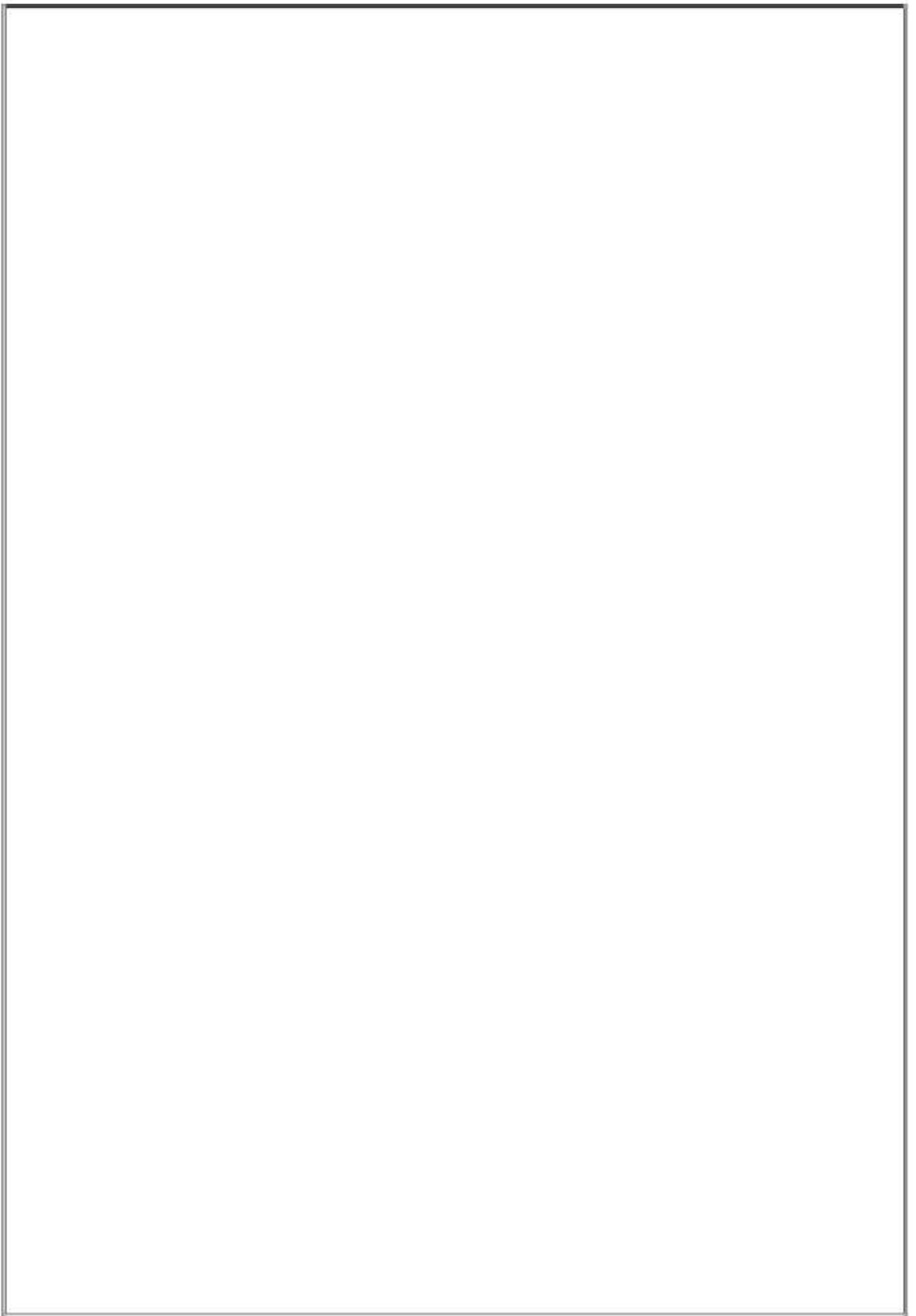
Course outcomes: On the completion of this course students will be able to learn the following:

- CO 1. To develop professional skills of using statistical softwares such as SPSS, MS Excel for quantitative analysis.
- CO 2. To make students learn analysing geographical data using robust statistical tools provided by these softwares.
- CO 3. To develop skills of data handling and manipulation in softwares.
- CO 4. To develop them as professionals capable of working as data analysts across public and private sectors and also self-employment as technical consultants.

*Hemmi*

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**DEPARTMENT OF EDUCATION & METHODOLOGY**

*Course Outcomes of Mater in History*

Course Code	Course Name	Course Outcomes
UF-ED-932	Medieval Societies-I	<ol style="list-style-type: none"><li>1. Understand the nature of historical transition from ancient Society to medieval Society.</li><li>2. Understand the nature of historical transition from feudalism to capitalism in Europe .</li><li>3. Know comprehensively the sources and nature of medieval Indian polity.</li><li>4. Know comprehensively the sources of colonial India and the historical debates concerning pre-colonial India.</li><li>5. Learn the historical events concerning intellectual awakening and the rise of Chinese republic.</li></ol>
UF-ED-933	Modern World -I	<ol style="list-style-type: none"><li>1. Know the circumstances leading to the rise of Islam and its impact.</li><li>2. Learn the evolution of Islamic state and society under the Caliphs.</li><li>3. Understand the historical developments in Europe during and after the World War-I.</li><li>4. Grasp the growing trade, commerce and capital accumulation in medieval</li></ol>

		<p>Indian urban centers.</p> <p>5. Understand the characteristics and nature of the iron and steel framework of the British colonial state in India.</p>
<b>UF-ED-934</b>	<b>Medieval Indian Polity (1200- 1750)</b>	<p>1. Know comprehensively the sources and nature of medieval Indian polity , medieval Indian polity during 1200 - 1750.</p> <p>2. Learn the characteristics of medieval theories of kingship and the nature of medieval states in India.</p> <p>1. Comprehend the evolving composition of ruling classes and nobility in medieval India.</p>
<b>UF-ED-935</b>	<b>Colonial India-I</b>	<p>1. Know comprehensively the sources of colonial India and the historical debates concerning pre-colonial India.</p> <p>2. Learn the historical events concerning expansion of British colonialism in India.</p> <p>3. Grasp the historical developments concerning consolidation of the British colonial power in India.</p> <p>4. Comprehend the evaluation of the British paramountcy in India.</p>
<b>UF-ED-937</b>	<b>History of China in Modern Times</b>	<p>1. Know the earlier developments which shaped the historical destiny of modern China.</p> <p>2. Learn the historical events concerning intellectual awakening and the rise of Chinese republic.</p> <p>3. Grasp the historical developments related to the political struggle and the civil war until the Communist revolution of 1949.</p> <p>4. Understand the process of founding of the Peoples' Republic in China.</p>



UF-ED-938	<b>History of the U.S.A.- I (1776- 1865)</b>	<ol style="list-style-type: none"> <li>1. Understand the historical background, nature and significance of the American Revolution of 1776.</li> <li>2. Learn the historical developments related to the evolution of American democracy.</li> <li>3. Grasp the nature of American foreign policy during 1776-1865.</li> </ol>
UF-ED-939	<b>History of Britain - I (1688-1815)</b>	<ol style="list-style-type: none"> <li>1. Understand the historical upheavals occurred during the 'Glorious' Revolution and its aftermath.</li> <li>2. Grasp the development in Britain from the rise of mercantile system until the beginning of the laissez faire era.</li> </ol>
UF-ED-940	<b>Medieval Societies- II</b>	<ol style="list-style-type: none"> <li>1. Know the circumstances leading to the rise of Islam and its impact.</li> <li>2. Learn the evolution of Islamic state and society under the Caliphs.</li> <li>3. Grasp the growth of Islamic culture under the Arab empire.</li> <li>4. Understand the process of the advent of Islam in India and its impact.</li> </ol>
UF-ED-941	<b>Modern World- II</b>	<ol style="list-style-type: none"> <li>1. Understand the historical developments in Europe during and after the World War-I.</li> <li>2. Learn the historical developments related to the Paris Peace Settlement and its historical Consequences in Europe.</li> <li>3. Comprehend the historical transition and upheavals leading to a decolonized bipolar world after 1945.</li> </ol>
UF-ED-942	<b>Medieval Indian Economy(1200-1750)</b>	<ol style="list-style-type: none"> <li>1. Learn the feature of industrial and handicraft production and producing/ Mercantile in medieval India.</li> </ol>



		<ol style="list-style-type: none"> <li>2. Grasp the growing trade, commerce and capital accumulation in medieval Indian urban centers.</li> <li>3. Comprehend the circumstances leading to the systemic crisis in Mughal Empire and the historical upheavals during the 18th century.</li> </ol>
<b>UF-ED-943</b>	<b>Colonial India-II (1757-1857)</b>	<ol style="list-style-type: none"> <li>1. Understand the characteristics and nature of their on and steel framework of The British colonial state in India.</li> <li>2. Learn the role of different imperialist schools of thoughts in shaping the British social policy in India and its impact.</li> <li>3. Comprehend the roots, nature and consequences of the Indian resistance Against the British colonial state.</li> </ol>
<b>UF-ED-944</b>	<b>Historiography</b>	<ol style="list-style-type: none"> <li>1. Understand the different discourses and epistemological/ontological debates in History and historiography.</li> <li>2. Grasp the guiding parameters of the historical method.</li> <li>3. Learn the preliminary operations of historiography and historical research.</li> <li>4. Know the analytical, synthetic and concluding operations of historiography And historical research.</li> </ol>
<b>UF-ED-945</b>	<b>Indian national movement [1885-1947]</b>	<ol style="list-style-type: none"> <li>1. 1. Understand the processes and developments related to the rise of nationalism And the beginning of national movement in India.</li> <li>2. Learn the processes and developments related to growth of national movement Under the Indian National Congress.</li> </ol>

		3. Grasp the processes and developments related to growth of national movement Under the non Congress outfits.
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*Hemraj*

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DEPARTMENT OF EDUCATION & METHODOLOGY

*Course Outcomes of Master in Political Science*

Course Code	Course Name	Course Outcomes
UF-ED-808	Western Political Thought - I	<ol style="list-style-type: none"><li>1. Understand the Main Features of Classical Greek Philosophy in general and Political Philosophy from Plato to Machiavelli in particular.</li><li>2. Understand the ideas on state, people, Justice, communism, education, constitution, Liberty, Rights etc.</li><li>3. Understand the Idealism and Realism in Political Ideas .</li></ol>
UF-ED-804	Indian Political Thought - I	<ol style="list-style-type: none"><li>1. Understanding the evolution of Indian political thought from ancient India to modern India.</li><li>2. Understand the nationalist thought of various thinkers.</li><li>3. The course will also enable the student to understand the emergence and articulation of sociopolitical issues such as statecraft, nationalism, socialism, satyagraha, swadeshi etc. from an</li></ol>

		Indian perspective through the works of Manu , Kautilya and others .
<b>UF-ED-805</b>	<b>International Politics -I</b>	<ol style="list-style-type: none"> <li>1. Understand key concepts and concerns in international politics , including notably the way power is acquired and used globally and how states and non-state actors interact.</li> <li>2. Become conversant in current international events through a close reading of the news and interpretation of events through international relations theories and concepts.</li> <li>3. Understand the major trends in International Politics.</li> <li>4. Explaining scope and subject matter of International Relations as an autonomous academic discipline.</li> </ol>
<b>UF-ED-806</b>	<b>Theory and Practice of Public Administration-I</b>	<ol style="list-style-type: none"> <li>1. To understand the nature and scope of Public Administration.</li> <li>2. To appreciate the methodological pluralism and synthesizing nature of knowledge in Public Administration.</li> <li>3. To comprehend the changing paradigms of Public Administration.</li> <li>4. To acquaint with the theories, approaches, concepts and principles of Public Administration.</li> <li>5. To understand the administrative theories and concepts to make sense of administrative practices.</li> <li>6. To Understand public</li> </ol>

		administration theory and concepts from multiple perspectives.
<b>UF-ED-812</b>	<b>Western Political Thought - II</b>	<ol style="list-style-type: none"> <li>1. Understand the Main Features of Western Political Thought in general and Political Philosophy from Hobbes to Lenin in particular.</li> <li>2. Understand the ideas on state, people, Justice, communism, education, constitution, Liberty, Rights etc.</li> <li>3. Understand the Idealism and Realism in Political Ideas .</li> </ol>
<b>UF-ED-809</b>	<b>Indian Political Thought- II</b>	<ol style="list-style-type: none"> <li>1. Understanding the evolution of Indian political thought from ancient India to modern India.</li> <li>2. Understand the nationalist thought of various thinkers.</li> <li>3. The course will also enable the student to understand the emergence and articulation of sociopolitical issues such as statecraft, nationalism, socialism, satyagraha, swadeshi etc. from an Indian perspective through the works of Manu , Kautilya and others .</li> </ol>
<b>UF-ED-810</b>	<b>International Politics-II</b>	<ol style="list-style-type: none"> <li>1. Understand key concepts and concerns in international politics , including notably the way power is acquired and used globally and how states and non-state actors interact.</li> <li>2. Become conversant in current international events through a close</li> </ol>

		<p>reading of the news and interpretation of events through international relations theories and concepts.</p> <ol style="list-style-type: none"> <li>Understand the major trends in International Politics.</li> <li>Explaining scope and subject matter of International Relations as an autonomous academic discipline.</li> </ol>
<b>UF-ED-811</b>	<b>Theory and Practice of Public Administration - II</b>	<ol style="list-style-type: none"> <li>To understand the nature and scope of Public Administration.</li> <li>To appreciate the methodological pluralism and synthesizing nature of knowledge in Public Administration.</li> <li>To comprehend the changing paradigms of Public Administration.</li> <li>To acquaint with the theories, approaches, concepts and principles of Public Administration.</li> <li>To understand the administrative theories and concepts to make sense of administrative practices.</li> <li>To Understand public administration theory and concepts from multiple perspectives.</li> </ol>
<b>UF-ED-813</b>	<b>Comparative Politics And Institutions</b>	<ol style="list-style-type: none"> <li>Better understand why countries choose different mechanisms and institutions for governing and why these choices are important.</li> <li>Be better equipped to use the major theories, concepts, and tools of comparative political science in a careful and responsible manner.</li> </ol>

		<ol style="list-style-type: none"> <li>Better understand the relationships among political, social, and economic phenomena within countries and in the international environment.</li> <li>Better understand the political consequences of differing practices and historical paths across countries.</li> </ol>
<b>UF-ED-814</b>	<b>Indian Government And Politics -I</b>	<ol style="list-style-type: none"> <li>Understand the role of the Constituent Assembly and examining the essence of the Preamble.</li> <li>Understand the Fundamental Rights and Duties of Indian Citizens with a study of the significance of Status of Directive Principles.</li> <li>Understand and aware of the manner in which government function through its various organs.</li> <li>Understand the division of power between various organs of the government at different levels.</li> <li>Understand the nature of Indian Federalism with focus on Union -State Relations.</li> <li>Understand and aware of the manner in which government function through its various organs.</li> <li>Understand the division of power between various organs of the government at different levels.</li> </ol>
<b>UF-ED-817</b>	<b>Research Methodology</b>	<ol style="list-style-type: none"> <li>Demonstrate the ability to choose methods appropriate to research aims and objectives.</li> <li>Understand the</li> </ol>

		<p>limitations of particular research methods.</p> <ol style="list-style-type: none"> <li>3. Develop skills in qualitative and quantitative data analysis and presentation.</li> <li>4. Develop advanced critical thinking skills.</li> <li>5. To understand the Demonstrate enhanced writing skills.</li> </ol>
<b>UF-ED-815</b>	<b>Local Government in India</b>	<ol style="list-style-type: none"> <li>1. To understand Exhibit the efforts for rural development.</li> <li>2. To understand the Exhibit the efforts for rural development.</li> <li>3. To understand the Awareness of the basic governing system as well as development measures.</li> <li>4. To understand Conceptualization of the developmental process at the top to bottom and also in between.</li> </ol>
<b>UF-ED-816</b>	<b>Public Administration in India</b>	<ol style="list-style-type: none"> <li>1. To understand the nature and scope of Public Administration.</li> <li>2. To appreciate the methodological pluralism and synthesizing nature of knowledge in Public Administration.</li> <li>3. To comprehend the changing paradigms of Public Administration.</li> <li>4. To acquaint with the theories, approaches, concepts and principles of Public Administration.</li> <li>5. To understand the administrative theories and concepts to make sense of administrative practices.</li> <li>6. To Understand public administration theory and concepts from multiple</li> </ol>



		perspectives.
<b>UF-ED-822</b>	<b>Modern Political Theory</b>	<ol style="list-style-type: none"> <li>1. Understand the meaning and significance of Political Theory and interpretations of the classical tradition.</li> <li>2. Understand the development of Political Science and various theories of Modern Political Science Theory</li> <li>3. Understand the concept of Behaviouralism and Post-Behaviouralism Movement &amp; Development</li> <li>4. Understand the concept of the emerging understanding of concepts of Political science.</li> </ol>
<b>UF-ED-821</b>	<b>Indian Government And Politics -II</b>	<ol style="list-style-type: none"> <li>1. Understand the evaluating the Indian Party system - its development and looking at the ideology of dominant national parties.</li> <li>2. Understand the role of various forces on Indian politics: religion; language; caste; tribe; regionalism; business; working class and peasants.</li> <li>3. Understand the Electoral Process in India with focus on the Election Commission: Composition, Functions and Role.</li> </ol>



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**Department of Humanities & Social Science**

***Course Outcomes of Master in Public Administration***

**MANAGEMENT TECHNIQUES (MA-Public Administration II SEM)**

**OUTCOMES:**

1. Understand the mining, nature of administrative organisation.
2. Acquaint themselves with Administrative Behaviour: Communication and Leadership etc.
3. Understand the Administrative Techniques: Public Relations, New Public Management, and E-Governance.
4. Understand the Participative Management.

**COMPARATIVE ADMINISTRATIVE SYSTEMS (MA-Public Administration II SEM)**

**OUTCOMES:**

1. Understand the Weber's Bureaucratic Model.
2. Understanding of Salient features of Administrative System of Bangladesh, China.
3. Understanding and familiar with Administrative Organisation: British Treasury, Independent Regulatory Commission in USA etc.

## **COMPARATIVE PUBLIC PERSONNEL ADMINISTRATION (MA-Public Administration II SEM)**

### **OUTCOMES:**

1. Understand the personnel administration with reference to India.
2. Understand the personnel administration with reference to France.
3. Understand the personnel administration with reference to UK, USA: Classification, Recruitment, etc.
4. Acquaint themselves with salient features of Whitley Councils.

## **SOCIAL WELFARE ADMINISTRATION (MA-Public Administration II SEM)**

### **OUTCOMES:**

1. Understand the nature and scope of Social Welfare Administration.
2. Understand the Social Planning in India: Social Development under various Five Year Plans, Problems and Suggestions.
3. Acquaint themselves with Composition and Functions of State Social Welfare Advisory Board.
4. Understand the Social Administration at District.
5. Understand the National Commission on Human Rights.

## **STATE ADMINISTRATION IN INDIA WITH SPECIAL REFERENCE TO RAJASTHAN (MA-Public Administration IV SEM)**

### **OUTCOMES:**

1. Understand the Constitutional structure of state Government: Position of states in Indian.
2. Acquire knowledge regarding the state secretariat and cabinet secretariat.
3. Understand the Corporation and Board of State level.
4. Understand the Planning Administration at the state level in Rajasthan.
5. Acquaint them the Rajasthan Civil service Appellate Tribunal.

## **DEVELOPMENT ADMINISTRATION (MA-Public Administration IV SEM)**

### **OUTCOMES:**

1. Understand the nature, scope and importance of Development Administration.
2. Understand the Political, economic, social and cultural influences of Development Administration.
3. Acquaint them the Role of bureaucracy in social change.
4. Understand the Sustainable development, environment and development.

## **FINANCIAL ADMINISTRATION (MA-Public Administration IV SEM)**

### **OUTCOMES:**

1. Understand the nature and scope of Financial Administration.
2. Acquaint them the Budget: Concept, Principles of Budget Making. Budgetary Process.
3. Understand the Centre-State Financial Relations.
4. Understand the Parliamentary Financial Control Agencies.
5. Understand the Finance Ministry: Organisation and functions.

## **POLICE ADMINISTRATION (MA-Public Administration IV SEM)**

### **OUTCOMES:**

1. Understand the nature and Need and Concept of Police in Society.
2. Understand the Police and Policing in India.
3. Acquaint them the Corruption in Police Administration.
4. Understand the Organisation and Working of Police in Indian States.
5. Acquaint themselves with the Police – Problems.

## **RESEARCH METHODOLOGY (MA-Public Administration IV SEM)**

### **OUTCOMES:**

1. Understand the nature and objectives of Social Science Research.

2. Acquaint themselves with the Identifications of Research Problem.
3. Acquaint them the Data Collection.
4. Report Writing: Structure; Characteristics and precautions.

## **ODD SEMESTER**

### **ADMINISTRATIVE THEORIES AND MANAGEMENT (MA-Public Administration I SEM)**

#### **OUTCOMES:**

1. Understand the mining, nature and scope of Indian Public Administration.
2. Understand the Public Administration's relation to Political Science, Economics, Sociology, Law and Psychology etc.
3. Familiar with Theories of Administration: Scientific Management.
4. Understand the Principles of Administration.

### **COMPARATIVE PUBLIC ADMINISTRATION (MA-Public Administration I SEM)**

#### **OUTCOMES:**

1. Understand the mining, nature, scope and evolution of comparative Public Administration.
2. Understand the Acquaint themselves the Riggs Model.
3. Understand the Approaches to the Study of Comparative Public Administration.
4. Understand the Salient features of Administrative System of U.K., U.S.A. and France.
5. Familiar with Ombudsman in Swindon.

## **PUBLIC PERSONNEL ADMINISTRATION (MA-Public Administration I SEM)**

### **OUTCOMES:**

1. Understand the Meaning, Nature and Scope of Personnel Administration.
2. Understand the Bureaucracy: Its nature, concept, Significance.
3. Acquaint themselves the Neutrality of Civil Service.
4. Understand the Meaning and Principles of Recruitment, Classification, Training, and Promotion etc.
5. Understand the Ethics in Public Services.

## **SOCIAL ADMINISTRATION IN INDIA (MA-Public Administration I SEM)**

### **OUTCOMES:**

1. Understand the Concepts, Meaning, Nature, Scope, Principles and Significance of Social Administration.
2. Understand the Social Administration at the Central level Ministry of Social Welfare, Its Composition and Working.
3. Acquaint themselves the Problem of Social Administration in India.
4. Understand the Role of National Commission on Human Rights.

## **PUBLIC ADMINISTRATION IN INDIA (MA-Public Administration III SEM)**

### **OUTCOMES:**

1. Understand the Historical Background of Indian administration with special reference to influence of British period.
2. Understand the organization & working of the central secretariat and the cabinet secretariat.
3. Acquaint themselves the Major forms of public sector Public Enterprises.
4. Understand the Financial Administration-Role of Ministry of Finance-Budget Formulation. Enactment and Execution.

5. Understand the Control over Administration.

### **ECONOMIC POLICY AND ADMINISTRATION (MA-Public Administration III SEM)**

#### **OUTCOMES:**

1. Understand the mining, nature, Salient features of developing Economics.
2. Acquaint themselves the Machinery for planning: Planning commission NDC.
3. Understand the Planning in Rajasthan with special reference to planning Machinery and planning process at Micro & Macro level.
4. Understand the Problems related to implementation of plan.

### **INDIAN CONSTITUTION (MA-Public Administration III SEM)**

#### **OUTCOMES:**

1. Understand the mining, nature and Constitutional Development and Framing of Present Constitution.
2. Acquaint themselves the Fundamental Rights; Fundamental Duties; Directive Principles of the State Policy.
3. Understand the State Legislature: Vidhan Sabha and Vidhan Parishad – Their Composition, Powers, Functions and Relationships.
4. Understand the Constitutional Amendment.

### **RURAL LOCAL ADMINISTRATION (MA-Public Administration III SEM)**

#### **OUTCOMES:**

1. Understand the History of Rural Local Government in India. The pattern and structure of rural Local government in India.

2. Understand the Organisation, powers and functions and the executive system of Zila parishad, panchayat samiti, gram Panchayat.
3. Acquaint themselves the Organisation and functions of District Rural Development Agency (DRDA)
4. To understand the Finances of Panchayati Raj institutions; state finance commission.
5. Understand the role of Panchayati Raj Institution in environment improvement.

**ORGANISATIONAL AND ADMINISTRATIVE ISSUES (MA-Public Administration III SEM)**

**OUTCOMES:**

1. Understand the Good Governance, Citizen Charter, and Right to Information 2005.
2. Understand the Principles of Organisation.
3. Understand the Leadership, Communication, Morale and Motivation.
4. To understand the Administrative Ethics and Transparency in Administration.

  
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**DEPARTMENT OF M.SC. Biotechnology**  
***COURSE OUTCOMES-1<sup>st</sup> SEMESTER(M.SC. BT)***

Course Code	Course Name	Course Outcomes
UF-BT-181	Microbiology	1. This course develops the concepts of apply the knowledge of basic concepts, fundamental principles and scientific theories and processes related to the fields of life sciences with their relevance in day-to-day life.
UF-BT-182	Microbiology Lab	1. Student will learn basics of all related streams of Post Harvest Technology practical approaches such as Studies on morphological features, pre-cooling and types of storage, browning and various pigments, estimation of chemical additives and Adulteration etc.
UF-BT-179	Immunology	1. It is to develop concepts in role and the underlying mechanisms for the functioning of immunological cells and their interactions. The regulation of molecular synthesis, signalling, immune responses and allied activities of immune system at the molecular level.
UF-BT-180	Immunology Lab	1. Student will learn basics of all related streams of Immunology practical approaches such as Studies on ELISA Test, Radial immunodiffusion , RBC count etc.
UF-BT-174	Analytical Chemistry	1. It is to develop concepts in analytical chemistry we develop new technologies and methods for measuring organic and inorganic matter.
UF-BT-175	Analytical Chemistry Lab	1. Student will learn basics of all related streams of Analytical Instrumentation practical approaches such as Polyacrylamide gel for SDS, PCR, Calibration curve for amino acid etc.
UF-BT-177	Cell Biology	1. This course develops the concepts of Cell biology is about the cell, cell division and its functions. Every living species are composed of a cell. The human body comprises around a billion to trillion cells, which are mainly involved in different specialized functions.
UF-BT-178	Cell Biology Lab	1. Student will learn basics of all related streams of Analytical Instrumentation practical approaches such as Polyacrylamide gel for SDS, PCR, Calibration curve for amino acid etc.
UF-BT-183	Statistical Methods	1. Understand the role of statistics and computer applications to conduct research studies.

		<ol style="list-style-type: none"> <li>Apply statistical techniques to research data for analyzing.</li> <li>Interpreting the data meaningfully and differentiate between the qualitative and quantitative methods of analysis of data.</li> <li>Suitably apply data reduction strategies and illustrate data using various graphical methods.</li> <li>Use appropriate parametric and non-parametric statistical tests.</li> <li>Draw the conclusions and interpretations from the analysis of data using various statistical softwares</li> </ol>
SEC-005	Hands on Training Courses- Biochemical and Microbiological Analysis	<ol style="list-style-type: none"> <li>Student will be skilled in this course for Biochemical and Microbiological Analysis. Student will learn about Media/ Chemical preparation, handling of relative instruments and standard testing protocols to microbiology and biochemistry.</li> </ol>
SEC-020	Hands on Training Courses- Biochemical and Microbiological Analysis Lab	

#### COURSE OUTCOMES -2<sup>ND</sup> SEMESTER (M.SC. BT)

Course Code	Title of the Course	Course Outcomes
UF-BT-077	Plant Biotechnology	<ol style="list-style-type: none"> <li>This course deals with Plant Biology and Plant Biotechnology is a branch of biology that involves the scientific study of plant life, Technologies related to crop improvement and conservation of medicinally important plants..</li> </ol>
UF-BT-078	Plant Biotechnology Lab	<ol style="list-style-type: none"> <li>Student will learn basics of all related streams of Plant Biotechnology practical approaches such as Preparation of MS media, callus induction , In Vitro Multiplication, Root initiation , cell suspension culture etc</li> </ol>
UF-BT-046	Molecular Biology	<ol style="list-style-type: none"> <li>This course develops concepts in molecular biology: DNA packaging, DNA damage and repair, gene structure, expression and regulation in both prokaryotes and eukaryotes.</li> </ol>
UF-BT-047	Molecular Biology Lab	<ol style="list-style-type: none"> <li>Student will learn basics of all related streams of Molecular Biology practical approaches such as To isolate genomic DNA, To isolate RNA, To determine the concentration of RNA etc.</li> </ol>
UF-BT-087	Industrial Biotechnology	<ol style="list-style-type: none"> <li>This course develops concepts of management and controls on the microbial processes in industrial settings. Ability the principles of physiological understanding in improvement of industrial processes</li> </ol>
UF-BT-088	Industrial Biotechnology Lab	<ol style="list-style-type: none"> <li>Student will learn basics of all related streams of Industrial Biotechnology practical approaches such as Detection and quantification of siderophores, Isolation of antibiotic producing microbes, Citric acid production by <i>A. niger</i>, Estimation of alcohol determination of total acidity, Production of SCP etc.</li> </ol>
UF-BT-361	Structural and Functional Genomics	<ol style="list-style-type: none"> <li>This course develops concept of Classical Mendelian genetics and deviation from Mendelian principles, Microbial genome organization (Prokaryotic and Eukaryotic), Viral Genetics, Mutagenesis, Bacterial plasmids as research tools, transcription and translation in prokaryotes and eukaryotes and application of microbial genetics.</li> </ol>