

Shri Shivaji Mahavidyalaya Barshi

Program Outcomes

Program Outcomes: Faculty- Science:

At the graduation in science faculty a student should have:

- Acquired the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, etc.
- Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.
- Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments.
- The students will inculcate skills of observations and drawing logical inferences from the scientific experiments.
- Analyzed the given scientific data critically and systematically and the ability to draw the objective conclusions.
- Been able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems.
- Realized how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
- Developed scientific outlook not only with respect to science subjects but also in all aspects related to life.
- Realized that knowledge of subjects in other faculties such as humanities, performing arts, social sciences etc. can have greatly and effectively influence which inspires in evolving new scientific theories and inventions.
- Imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
- Developed various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively.
- Realized that pursuit of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.
- Developed flair by participating in various social and cultural activities voluntarily,

in order to spread knowledge, creating awareness about the social evils, blind faith, etc.

Programme Outcomes (Undergraduate Level)

Faculty of Arts

After completing the graduation in the faculty of Arts the students have:

- Acquired the knowledge with facts and figures concerned with the subjects such as History, Geography, Economics, Languages, etc.
- Understood the basic concepts, fundamental principles, and various theories in the above mentioned subjects.
- Realized the importance of literature in terms of aesthetic, mental, moral, intellectual development of an individual and accordingly of the society.
- Understood how issues in the social science get influenced by the literature and how the literature can provide solutions to the social issues.
- Gained the analytical ability to analyze the literature and social issues to appreciate the strength and to suggest the improvements for better results.
- Appreciated that social issues are no longer permanent and largely depend on the political and the economic changes.
- Convinced himself/herself that the study of literature and social sciences are not only helpful to evolve better individual and better society but also helpful to make the life of an individual more happy and meaningful.
- Participated in various social and cultural activities voluntarily. Written articles, novels, stories to spread the messages of equality, nationality, social harmony and other human values.
- Emerged as a multifaceted personality who is self-dependent; earning his own bread and butter and also creating opportunities to do so.
- Realized that the pursuit of knowledge is a lifelong process and one can achieve the success only with untiring efforts and positive attitude.
- Developed various communication skills such as reading, listening, speaking, etc., which will be helpful in expressing ideas and views clearly and effectively.

U.G. Program Outcomes

DEPARTMENT OF ENGLISH

The Outcomes of UG Course, B. A. in English

At the completion of B.A. in English the students are able to:

- Use correct English in oral as well as written form.
- Inculcate the human values for one's transformation of behavior.
- Interpret the literary works by critical analysis.
- Compare literary works of the great writers and philosophers by using their logic and literary competency.
- Nurture themselves in soft skills and develop research aptitude.
- Find jobs for their livelihood.
- Be motivated for their further education.

DEPARTMENT OF HINDI

The Outcomes of UG Course, B. A. in Hindi

At the completion of B. A. in Hindi the students are able to:

- Develop competency in Literary Forms. (Hindi Poetry & Fiction)
Develop Reading, Writing & Communication Skills in Hindi.
- Get information about the history of ancient, medieval and modern Hindi Literature.
- Learn the literary works on the basis of the foundation laid by the scholars.
- Get information about the Literary Theories.
- Develop Approach of Hindi Linguistics & Grammar.
- Get the jobs for their livelihood.
- Be motivated for their further education.

DEPARTMENT OF MARATHI

The Outcomes of UG Course, B. A. in Marathi

At the completion of B. A. in Marathi the students are able to:

- Develop competency in Literary Forms. (i.e. Marathi poetry, autobiography, novel, short story,drama & performing prose)
- Develop Reading, Writing & Communication Skills in Marathi. Get Information about the history of Saint Literature.
- Get Information about Literary Theories.
- Get Information about the history of MODERN Marathi Literature. Apply the study of Marathi Linguistics & Grammar in their practical life.
- Study News Writing for Media.
- Nurture themselves in soft skills and develop research aptitude.
- Find jobs for their livelihood.
- Be motivated for their further education.

DEPARTMENT OF SANSKRIT

The Outcomes of UG Course, B. A. in Sanskrit

At the completion of B. A. in Sanskrit the students are able to:

- Students graduating in this course can understand the linguistic features and literary aspects of Sanskrit language.
- Students will understand the moral and social values in ancient Sanskrit literature.
- Students can develop their interest in Sanskrit and thus work to rejuvenate the language.
- They can go for Postgraduate course in Sanskrit.

DEPARTMENT OF HISTORY

The Outcomes of UG Course, B. A. in History

At the completion of B. A. in History the students are able to:

- Understand the basic themes, concepts, chronology and the Scope of Indian History.
- Be Acquaint with the range of issues related Indian History and its distinctive eras.
- Understand the history of the countries other than India with comparative approach.

- Think and argue historically and critically in writing and discussion.
- Prepare for various types of Competitive Examinations.
- Critically recognize the Social, Political, Economic and Cultural aspects of History.
- To study further in the applied field of history as archaeology.

DEPARTMENT OF ECONOMICS

The Outcomes of UG Course, B. A. in Economics

At the completion of B. A. in Economics the students are able to:

- Understand basic concepts of economics.
- Analyze economic behavior in practice.
- Understand the economic way of thinking.
- Analyze historical and current events from an economic perspective.
- Write and discuss economic issues at national levels.
- Find alternative approaches to economic problems through the exposure from the coursework in allied fields.
- Develop an ability to suggest solutions for various economic problems. Prepare for the Competitive Examinations as MPSC, UPSC.

DEPARTMENT OF GEOGRAPHY

The Outcomes of UG Course, B. A. in Geography

At the completion of B. A. in Geography the students are able to:

- Study the types of land and processes.
- Understand the structure, composition of different spheres of the earth and its Atmosphere.
- Understand importance of oceans, rivers and water and find the ways of their conservation.
- Understand the Function and types of Biogeography.
- Understand the science of Remote Sensing.
- Make use of GIS & GPS software

DEPARTMENT OF POLITICAL SCIENCE

The Outcomes of UG Course, B. A. in Political Science

At the completion of B. A. in Political Science the students are able to:

- Students will understand the need for a constitution and explain the role of constitution in a democratic society.
- For the welfare of the society students can demonstrate an understanding of the concepts & central themes of the political ideologies examined
- Students will be able to explain the Governmental mechanism from Gram panchayat to Parliament and can suggest solutions over various issues in its functioning and implementation.
- Students will use various political concepts and ideology to analyze new situations.
- Students can work as political analyst, political party adviser, as a research scholar or can be a freelance political thinker and writer.
- Analyse the concepts of good governance and e-governance.

DEPARTMENT OF PSYCHOLOGY

The Outcomes of UG Course, B. A. in Psychology

At the completion of B. A. in Psychology the students are able to:

- To familiarize students with the basic Psychological Processes.
- To enable students to acquaint with the knowledge of terms, concepts, techniques and principles relating to the subject.
- To develop the ability to apply knowledge of contents and principles of Psychology in new and unfamiliar situations.
- To prepare students to face various challenges related to life and develop proper attitude towards them.

DEPARTMENT OF MUSIC

The Outcomes of UG Course, B. A. in Music

At the completion of B. A. in Music the students are able to:

- Students will be able to make their career as a singer or perform on his/her musical instrument.
- Students will demonstrate their knowledge of instructional methods pertaining choral, instrumental and general music education.
- Students can conduct their own concerts where they can perform individually or as a group.
- Students will be eligible for post-graduate courses in music.

DEPARTMENT OF PHYSICAL EDUCATION

The Outcomes of UG Course, B. A. in Physical Education

At the completion of B. A. in **Physical Education** the students are able to:

- Understand & differentiate the concept of History, Principles and Philosophy of physical education
- Choose the physical education as a remedial tool to inculcate values and ethics.
- Get acquainted with historical development and its impact on nature of physical education in India and abroad
- Acquaint with historical perspective as an influence on physical education, Abroad and in India.
- Identify the students with different Issues, challenges and opportunities in Physical education & sport.

DEPARTMENT OF BOTANY

The Outcomes of UG Course, B. Sc. in Botany

At the completion of B. Sc. in Botany the students are able to:

- Understand the structural organization and variation in chromosomes.
- Get self-employment in the fields as: mushroom Cultivation, organic manure preparation, the horticultural plant production, cultivation of crops in poly-house condition, plant tissue, culture laboratories etc.
- Understand plant structures in the context of physiological functions of plants. Understand lipid metabolism in plants.
- Understand the morphological and structural organization of Cryptogams and Phanerogams.
- Economics Botany and plant utilization in concern with human life.
- Diversity of plants National plant wealth.
- Developmental biology of plants. Industrial application of microorganism

DEPARTMENT OF CHEMISTRY

The Outcomes of UG Course, B. Sc. in Chemistry

At the completion of B. Sc. in Chemistry the students are able to:

- Provide a broad foundation in chemistry that stresses scientific reasoning and Analytical problemsolving with a molecular perspective.
- Achieve the skills required to succeed in graduate school, the chemical industry and professional school.
- Get exposures of a breadth of experimental techniques using modern instrumentation.

- Understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information.
- Understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems.
- Learn the laboratory skills needed to design, safely and interpret chemical research.
- Acquire a foundation of chemistry of sufficient breadth and the depth to enable them to understand and critically interpret the primary chemical literature.
- Develop the ability to communicate scientific information and research results in written and oral formats.
- Learn professionalism, including the ability to work in teams and apply basic ethical principles.

DEPARTMENT OF MATHEMATICS

The Outcomes of UG Course, B. Sc. in Mathematics

At the completion of B. Sc. in Mathematics the students are able to:

- Learn to solve improper integrals.
- Make use of linear equations for solving any differential equations
- Understand various problems related with planar graphs.
- Understand the Concepts of Matrices and linear equations.
- Learn properties of inverse Laplace transforms

DEPARTMENT OF PHYSICS

The Outcomes of UG Course, B. Sc. in Physics

At the completion of B. Sc. in Physics students are able to:

- Demonstrate a rigorous understanding of the core theories & principles of physics, which includes mechanics, electromagnetism, thermodynamics, & quantum mechanics.
- Learn the Concepts as Quantum Mechanics, Relativity, introduced at degree level in order to understand nature at atomic levels.
- Provide knowledge about material properties and its application for developing technology to ease the problems related to the society.

- Understand the set of physical laws, describing the motion of bodies, under the influence of system of forces.
- Understand the relationship between particles & atom, as well as their creation & decay.
- Relate the structure of atoms & subatomic particles.
- Understand physical properties of molecule the chemical bonds between atom as well as molecular dynamics.
- Analyze the applications of mathematics to the problems in physics & develop suitable mathematical method for such application & for formulation of physical theories.
- Learn the structure of solid materials & their different physical properties along with metallurgy, cryogenics, electronics, & material science.
- Understand the fundamental theory of nature at small scale & levels of atom & sub-atomic particles.

DEPARTMENT OF ZOOLOGY

The Outcomes of UG Course, B. Sc. in Zoology,

At the completion of B. Sc. in Zoology the students are able

- To understand the nature and basic concepts of cell biology.
- Understand the basic concepts of chordates and non-chordates.
- Understand the concepts of Goaterly and Lac culture.
- Understand the various Applications of Biotechnology
- Understand the Lamarckism, Neo-Lamarckism and Darwinism.
- Understand the term ELISA technique and DNA finger printing.
- Understand the process of evolution.

DEPARTMENT OF COMPUTER SCIENCE

The Outcomes of UG Courses, B. Sc. in Computer Science,

At the completion of B. Sc. in Computer Science, the students are able to:

- Improve their computer literacy, their basic understanding of operating systems and a working knowledge of software commonly used in academic and professional environments.

- Develop criteria to organize and present different type of works in academic and professional environments.
- Learn to organize information efficiently in the forms of outlines, charts, etc. by using appropriate software.
- Develop the skills to present ideas effectively and efficiently.
- Design and deliver an effective presentation and develop the various IT skills related electronic databases.
- Use the Systems Analysis Design paradigm to analyze a problem critically.
- Solve problems (programming networking database and Web design) in the Information Technology environment.
- Function effectively in teams to accomplish common goals and demonstrate professional behavior.
- Develop IT-oriented security issues and protocols. Able to design and implement a web page.
- Improve communication and business management skills, especially in providing technical support.

DEPARTMENT OF STATISTICS

The Outcomes of UG Courses, B. Sc. in Statistics

At the completion of B. Sc. in Statistics, the students are able to:

- Students Employability increases due to various techniques covered in the papers like “Design of Experiment”, “Regression Analysis”, “Reliability and Survival analysis” which are the main features used in Business Analytics
- Due to the Subjects like “C Programming” and “Statistical Computing using R Software” students get exposure to computer knowledge and their use and hence their logical thinking is developed.
- Students get knowledge of basic concepts required for higher studies.
- Students starts thinking more scientifically and analytically.

P.G. Program Outcomes

Post Graduate course: M.A. in English

At the completion of PG Course i.e. M.A in English the students are able to:

- They will develop an ability to read texts in relation to their historical and cultural contexts, in order to gain a richer understanding of both text and context, and to become more aware of themselves as situated historically and culturally.
- Students will Value literature, language, and imagination, they will develop a passion for literature and language.
- They will appreciate literature's ability to elicit feeling, cultivate the imagination, and call us to account as humans.
- They will cultivate their capacity to judge the aesthetic and ethical value of literary texts—and be able to articulate the standards behind their judgments.
- They will appreciate the expressive use of language as a fundamental and sustaining human activity, preparing for a life of learning as readers and writers.
- Students will develop an appreciation of how the formal elements of language and genre shape meaning.

Post Graduate course: M.A. in Marathi

At the completion of PG Course i.e. M.A in Marathi the students are able to:

- Theories and approaches to language studies and literature studies
- Marathi literature: study of development and genesis of literature
- Study of various branches and types of ancient, medieval and early literature.
- Prose literature: Ancient, medieval and modern
- Genres in Marathi literature, Study of various trends in and influences on literary study.
- The impact of Western literature on Marathi literature and the study of western literary theories
- New developments in literary studies, Literature for the media, Study of writing for films

Post Graduate course: M.A. in Hindi

At the completion of PG Course i.e. M.A in Hindi the students are able to:

- To prepare the students with skills to analyze the concept and different theories of Hindi literature and language.
- To prepare the students for pursuing research or careers in Hindi language and literature and it's allied fields.
- Imbibe the effective communication in both mediums of expression (oral and writing).
- Continue to acquire relevant knowledge and skills appropriate to professional activities.
- Create awareness to become an enlightened citizen with commitment to deliver one's responsibilities within the scope of bestowed rights and privileges.

Post Graduate course: M.A. in Geography

At the completion of PG Course i.e. M.A in Geography the students are able to:

- The courses of this program are helpful to the student for extract the knowledge of geographical aspects at local, regional, national and global level. e.g. topography, climate oceanic activities etc.
- Being as an applied earth sciences, it useful to the study of geographical elements around us.
- By getting the knowledge of geographical aspects the students will become competent to face various competitive examinations and build their career.
- Students should have an advanced level understanding .
- Students should enlarge their professional foundations through activities such as teaching, internships, and fellowships
- Students should be able to communicate scientific results in writing and in oral presentation.
- Computer-based techniques (RS & GIS) are incorporated in the syllabus which prepares the students for further analytical studies.

Post Graduate course: M.A. in History

At the completion of PG Course i.e. M.A in History the students are able to:

- Student will learn basic narrative of historical events, chronology, personalities and turning points of the history of the India, and World.
- Build critical ability through competing interpretations and multiple narratives of the past, offer multi-causal explanations of major historical developments based on contextualized analysis of interrelated political, social, economic, cultural and intellectual processes.
- Evaluation of historical ideas, arguments and points of view, presentation of a summary of a topic in an organized, coherent, and compelling fashion orally or written.
- Construct original historical arguments based on primary or secondary source material and ability to identify and describe the contours and stakes of conversations among historians within defined historiographical fields.
- Students will acquire basic historical research skills, including, effective use of libraries, archives, and databases.

Post Graduate course: M.A. in Political Science

At the completion of PG Course i.e. M.A in Political Science the students are able to:

- Students will be able to describe the history and making of Indian constitution with its philosophical base.
- Students will be able to explain parliamentary system in India.
- Students will be able to critically analyze and apply the basic principles of Indian and western political thinkers and scholars.
- Students will be able to understand the composition and functions of Election Commission of India and other state election commissions and can work as an observer.
- Students will be able to understand the meaning, nature and scope of the International Relations.
- The programme provides the students with the capacity to identify issues and problems relating to the realization of human rights.

Post Graduate course: M.A. in Economics

At the completion of PG Course i.e. M.A in Economics the students are able to:

- Demonstrate knowledge of theories, policies, and empirical findings of economics.
- Engage in scientific inquiry, critical thinking, using quantitative and qualitative methods.
- Access and extract data from multiple sources, analyse and interpret the results using quantitative and qualitative tools.
- Demonstrate competence in written and oral communication and convincingly present arguments with virtual tools.
- Apply knowledge of economics for team building and create entrepreneurial initiatives for livelihood and social development.

Post Graduate course: M.Sc. in Microbiology

At the completion of PG Course i.e. M.Sc. in Microbiology the students are able to:

- Get ability to apply the process of science by formulating hypotheses and design experiments based on the scientific method.
- Analyze and interpret results from a variety of microbiological methods
- Use quantitative reasoning by using mathematical calculations and graphing skills to solve problems in microbiology.
- Communicate and collaborate with other disciplines by effectively communicating the fundamental concepts of microbiology in written and oral format.
- Identify credible scientific sources to interpret and evaluate the evidences
- Understand the relationship between science and society by recognizing and discussing logical, scientific and ethical issues in microbiology.

Post Graduate course: M.Sc. in Chemistry

At the completion of PG Course i.e. M.Sc. in Chemistry the students are able to:

- Demonstrate and apply the fundamental knowledge of the basic principles in various fields of Chemistry
- Create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to Environmental pollution.

- Apply knowledge to build up small scale industry for developing endogenous product.
- Apply various aspects of chemistry in natural products isolations, pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also to develop interdisciplinary approach of the subject.

Post Graduate course: M.Sc. in Physics

At the completion of PG Course i.e. M.Sc. in Physics the students are able to:

- Apply the knowledge and skill in the design and development of Electronics circuits to fulfill the needs of Electronic Industry.
- Become professionally trained in the area of electronics, optical communication, nonlinear circuits, materials characterization and lasers.
- Pursue research related to Physics and Materials characterization.
- Demonstrate highest standards of Actuarial ethical conduct and Professional Actuarial behavior, critical, interpersonal and communication skills as well as a commitment to life-long learning.

Post Graduate course: M.Sc. in Zoology

At the completion of PG Course i.e. M.Sc. in Zoology the students are able to:

- Understand the biological diversity and grades of complexity of various animal forms through their systematic classification and comparative structural studies.
- Learn how earth was formed and how life started and evolved on the planet through process of organic evolution.
- Understand the roles of plants, animals and microbes in the sustainability of the environment and their interaction among themselves and deterioration of the environment due to anthropogenic activities.
- Understand the concepts and principles of biochemistry, immunology, physiology, ethology, endocrinology, developmental biology, cell biology, genetics, molecular biology and microbiology.
- Develop technical skills in biotechnology, bioinformatics and biostatistics.
- Delve into the wonderful world of insects, their success on the planet and their diversity .

- Acquire knowledge on harmful and beneficial insects, their adaptations for life and control measures.

Post Graduate course: M.Sc. in Botany

At the completion of PG Course i.e. M.Sc. in Botany the students are able to:

- Think Critically - Get ability to apply the process of science by formulating hypotheses and design experiments based on the scientific method.
- Analyze and interpret results generated through studies in botany, taxonomical treatments, field studies, excursion tours and laboratory techniques used in the subject.
- Use quantitative reasoning by using mathematical calculations and graphing skills to solve problems in plant science (Botany)
- Effective Communication and collaborate with other disciplines by effectively communicating the fundamental concepts of Botany in written and oral format.
- Identify credible scientific sources to interpret and evaluate the evidences
- Understand the relationship between science and society by recognizing and discussing logical, scientific and ethical issues in Botany subject.
- Environment and Sustainability: Understand the issues of environmental contexts and sustainable development with respect to assessment, conservation and utilization of floral diversity

Post Graduate course: M.Sc. in Electronics

At the completion of PG Course i.e. M.Sc. in Electronics the students are able to:

- To get exposure to the recent technologies.
- To acquire the knowledge of design and implementation of instrumentation of significant preciseness.
- To complete the projects of industrial standards, which could also, ensures the interdisciplinary approach.
- To cater the needs of industrial sectors.
- To work in industrial environment a on job training and internship
- To qualify in the NET/GATE/SET etc. examinations.
- To learn through on-line short term certificate courses such as MOOC/SWAYAM/NPTEL, etc.




PRINCIPAL
Shri Shivaji Mahavidyalaya,
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Shri Shivaji Mahavidyalaya, Barshi.
Course Outcomes
Year: 2022-23

Department of English

Sr. No.	Course Name	Semester	Paper No.	Subject Name	Course outcome
1	B.A.I	I	I	Introduction to English Literature	<ul style="list-style-type: none"> • To acquaint students with literary forms and linguistic terms. • To initiate students and provide them a firsthand experience of reading and interpreting literary texts.
		II	II	Introduction to English Literature (One Act Plays and Literary Terms)	<ul style="list-style-type: none"> • To acquaint students with structural and analytical techniques in poetry. • To acquaint students with analysis of minor literary form i.e. short story.
2	B.A.I	I&II	-	English(Com)	<ul style="list-style-type: none"> • Understand the concepts of communication. Expand their vocabulary after reading the prescribed texts. • Attain writing, speaking, reading, & listening competence. • Be aware of the correct usage of English grammar • Become familiar with selected literary forms, develop and strengthen their imaginative ability and the ability to analyze different literary forms.
3	B.A.II	III	III	British Literature-I	<ul style="list-style-type: none"> • Familiar with a few British writers • Familiar with some of the dramas and dramatists • Able to understand the features of the text
			IV	British Literature-II	<ul style="list-style-type: none"> • Familiar with a few British writers • Familiar with some of the dramas and dramatists • Able to understand the



					features of the text
		IV	V	Indian Literature-I	<ul style="list-style-type: none"> • Acquire language skills required for day to day and specific purpose. • Be able to interpret and illustrate concepts of Communication, Prose and Poetry. • Be able to analyze and interpret the text prescribed. • Develop certain life skills and strengthen strategies to develop vocabulary.
			VI	Indian Literature-II	<ul style="list-style-type: none"> • Acquire language skills required for day to day and specific purpose. • Be able to interpret and illustrate concepts of Communication, Prose and Poetry. • Be able to analyze and interpret the text prescribed. • Develop certain life skills and strengthen strategies to develop vocabulary.
4	B.A.II	III&IV	-	English(Com)	•
5	B.A.III	V&VI	-	English (Com)	<p>Use oral and written English effectively</p> <ul style="list-style-type: none"> • Appreciate literary language • Use English language in creative writing • Apply English language skills in clearing
6	B.A.III	V	VII	Introduction to Literary Criticism	<p>□ Understand the basics of literary criticism.</p> <ul style="list-style-type: none"> • Have a critical approach to literature. • Understand the major trends in literary criticism.



			VIII	British Literature	<p>Gain knowledge, stylistic strategies and diction of British literature.</p> <ul style="list-style-type: none"> • Be able to explore the creativity and the human experiences in fiction, poetry and drama. • Be able to cultivate aesthetic and ethical values in life
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					through literary texts.
			IX	Indian English Literature	<p>Understand gradual development of Indian English literature from mid-twentieth century to post 2000 period.</p> <ul style="list-style-type: none"> • Get acquainted with major genres/themes through the study of texts prescribed.
			X	Literatures in English	<ul style="list-style-type: none"> • Understand Afro-American fiction • Understand features of Postcolonial Fiction
			XI	Introduction to the Structure & Function of Modern English	<p>Understand various concepts in linguists.</p> <ul style="list-style-type: none"> • Get acquainted with various branches of linguistics.
	VI		XII	Introduction to Literary Criticism	<p><input type="checkbox"/> Understand the basics of literary criticism.</p> <p><input type="checkbox"/> Have a critical approach to literature.</p> <p><input type="checkbox"/> Understand the major trends in literary criticism.</p>
			XIII	Indian English Literature	<p>Understand gradual development of Indian English literature from mid-twentieth century to post 2000 period.</p> <ul style="list-style-type: none"> • Get acquainted with major genres/themes through the study of texts prescribed.
			XIV	Literatures in English	<ul style="list-style-type: none"> • Understand Afro-American fiction • Understand features of Postcolonial Fiction
			XV	Introduction to the Structure & Function of Modern English	<p>Understand various concepts in linguists.</p> <ul style="list-style-type: none"> • Get acquainted with various branches of linguistics.



			XVI	Literary Mindscapes	Use oral and written English effectively <ul style="list-style-type: none"> • Appreciate literary language • Use English language in creative writing
4	M.A.I	I	I	British Literature	<input type="checkbox"/> Able to understand the western culture and traditions <input type="checkbox"/> Able to understand the British literary pieces.
			II	Indian Literature in English	<ul style="list-style-type: none"> • At the end of the course the students will get acquainted with later phases of development of Indian English

					<p>Literature and familiar with Indian ethos as reflected in texts prescribed.</p> <ul style="list-style-type: none"> • At post-graduation level, students will enjoy reading of a number of authors and important literary genres as practiced by select Indian English figures. • As planned while designing the syllabus of this paper, students will get acquainted with thematic plurality, genres handled and style reflected in seminal texts of poetry, fiction drama and nonfiction.
			III	Introduction to Language & Linguistics	<p>The students will be interested in the language • Familiar with some of the mechanism and theories of linguistics</p>



			IV	Comparative Literature	<ul style="list-style-type: none"> The students are introduced to different literary expressions written in English language. The students understand thematic perspectives of the literatures written in different countries. The students develop sensitivity and balanced responses to the complexity of human nature as portrayed in literary works. The students develop understanding of the natures and functions of literatures in English. The students develop an awareness of the relationship between texts and their cultural contexts.
		II	V	British Literature	<input type="checkbox"/> Able to understand the western culture and traditions <input type="checkbox"/> Able to understand the British literary pieces.
			VI	Indian Literature in English	<ul style="list-style-type: none"> At the end of the course the students will get acquainted with later phases of development of Indian English Literature and familiar with

					<p>Indian ethos as reflected in texts prescribed.</p> <ul style="list-style-type: none"> At post-graduation level, students will enjoy reading of a number of authors and important literary genres as practiced by select Indian English figures. As planned while designing the syllabus of this paper, students will get acquainted with thematic plurality, genres handled and style reflected in seminal texts of poetry, fiction drama and nonfiction.
			VII	Introduction to Language & Linguistics	<p>The students will be interested in the language</p> <ul style="list-style-type: none"> Familiar with some of the mechanism and theories of linguistics



			VIII	Comparative Literature	<ul style="list-style-type: none"> • The students are introduced to different literary expressions written in English language. • The students understand thematic perspectives of the literatures written in different countries. • The students develop sensitivity and balanced responses to the complexity of human nature as portrayed in literary works. • The students develop understanding of the natures and functions of literatures in English. • The students develop an awareness of the relationship between texts and their cultural contexts.
5	M.AII	III	IX	Contemporary Critical Theories	<ul style="list-style-type: none"> • Understand how various critical theories developed in the course of the 20th Century. • Read & contextualize contemporary Theories to the best of their ability. • Develop competency to mark differences and similarities in these theories and schools. • Develop an ability to apply the
					<ul style="list-style-type: none"> critical theories to literary texts. • Acquire ability to understand their own theoretical/critical stance as readers.



		III	X	Postcolonial Literature	<ul style="list-style-type: none"> •Analyze and interpret the colonial and postcolonial texts applying the postcolonial literary theory. •Define the key concepts in postcolonial studies. •Read, comprehend and engage with postcolonial literary criticism. • Know how race, class, gender, history and identity are presented and problematized in the literary texts, •Know how a literary text, explicitly or allegorically represents various aspects of colonial oppressions.
		III	XI	Translation Studies	<ul style="list-style-type: none"> •Comprehend translation studies as a separate discipline of knowledge •Comprehend the nature, scope and theoretical issues in translation studies •Comprehend major issues and methods in literary studies
		III	XII	21 st Century Skills	<ul style="list-style-type: none"> •English is the world language. It is spoken worldwide. Students of the postgraduate level should use English in their future life. •With the help of soft skills students can develop their personality in an effective way for better life.
		IV	XIII	Contemporary Critical Theories	<ul style="list-style-type: none"> • Understand how various critical theories developed in the course of the 20th Century. • Read & contextualize contemporary Theories to the best of their ability. •Develop competency to mark differences and similarities in these theories and schools. •Develop an ability to apply the critical theories to literary texts.
					<ul style="list-style-type: none"> •Acquire ability to understand their own theoretical/critical stance as readers.



Department Of Hindi

Sr.No	Course (कक्षा)	Semester	Paper No (प्रश्नपत्र क्र)	PaperName प्रश्नपत्र का नाम	Course Outcomes (पाठ्यक्रम के परिणाम)
1	B.A -I	I	I	साहित्य रत्न	<ol style="list-style-type: none"> १) छात्र हिंदी के लेखक एवं कवियों से परिचित होते हैं। २) छात्रों में हिंदी साहित्य के प्रति अभिरुचि संवर्धित होता है। ३) छात्रों में राष्ट्र के प्रति प्रेम एवं सामाजिक प्रतिबद्धता की भावना विकसित होती है। ४) छात्रों लिंग, वचन की दृष्टि से वाक्य शुद्धिकरण की विधि से अवगत होते हैं। ५) छात्रों हिंदी भाषा के विभिन्न मुहावरों, कहावतों से परिचित होते हैं। ६) छात्रों को देवनागरी लिपि में लिखे जानेवाले हिंदी अंको से परिचित कराना।
		II	II	साहित्य रत्न	<ol style="list-style-type: none"> १) छात्र हिंदी के लेखक एवं कवियों से परिचित होते हैं। २) छात्रों में हिंदी साहित्य के प्रति अभिरुचि संवर्धित होता है। ३) छात्रों में राष्ट्र के प्रति प्रेम एवं सामाजिक प्रतिबद्धता की भावना विकसित होती है। ४) छात्र साक्षात्कार प्रविधि से परिचित होते हैं। ५) छात्र विज्ञापन लेखन कौशल आत्मसात होता है। ६) छात्र हिंदी भाषा के विभिन्न मुहावरों, कहावतों से परिचित होते हैं।
	B.A -II	III	III	आधुनिक हिंदी गद्य कहानी एवं व्यावहारिक हिंदी	<ol style="list-style-type: none"> 1) आधुनिक वैविध्यपूर्ण हिंदी कहानियों से छात्र अवगत होते हैं। 2) आधुनिकता बोध और नए मूल्यों के प्रति छात्र अवगत होते हैं। 3) कहानी कला के प्रति अभिरुची और समीक्षा छात्र विकसित करते हैं। 4)
		IV		मध्ययुगीन हिंदी काव्य, व्याकरण एवं लेखन	<ol style="list-style-type: none"> 1) सामाजिक, सांस्कृतिक पृष्ठभूमि में कविता के अध्ययन विश्लेषण की जानकारी लेते हैं। 2) भक्तिकालीन तथा रीतिकालीन कविता के माध्यम से शृंगार रस एवं वीर रस की स्थापना का महत्त्व को अवगत करते हैं।
				आधुनिक हिंदी गद्य-एकांकी एवं व्यावहारिक हिंदी	<ol style="list-style-type: none"> 1) आधुनिक हिंदी एकांकी विधा से छात्र अवगत होते हैं। 2) एकांकी कला के प्रति अभिरुची और समीक्षा दृष्टि छात्र विकसित करते हैं।
				आधुनिक हिंदी काव्य एवं लेखन	<ol style="list-style-type: none"> 1) हिंदी साहित्य के आधुनिक काल से छात्र परिचित होते हैं। 2) छायावाद तथा प्रगतिवाद के माध्यम से प्रकृति मानवीय पीड़ा संवेदना से छात्र अवगत होते हैं।
	B.A -III	V		हिंदी विशेष लेखक- भगवानदास मोरवाल	<ol style="list-style-type: none"> 1) भगवानदास मोरवाल के व्यक्तित्व से परिचित होते हैं। 2) प्रतिनिधि कहानियों के विषय विविधता से परिचित होते हैं।
		VI		हिंदी विशेष लेखक- भगवानदास मोरवाल	<ol style="list-style-type: none"> 1) भगवानदास मोरवाल के उपन्यास संसार से परिचित होते हैं। 2) शकुंतला उपन्यास की विशेषताओं से परिचित होते हैं।



		V		काव्यशास्त्र	1) साहित्य निर्मिती प्रक्रिया से अवगत होते है। 2) गद्य तथा पद्य तत्त्वों से परिचित होते है। 3) शब्दों की शक्ति से परिचित होते है।
		VI		आलोचना	1) छात्र साहित्य के उपकरणों से परिचित होते है। 2) रसानुभूति की प्रक्रियाओं से अवगत होते हैं। 3) साहित्य के मूल्य, गुणों से परिचित होते है।
		V		आदिकालीन और मध्यकालीन हिंदी साहित्य का इतिहास सं. 1050 से सं. 1900	1) हिंदी साहित्य के दार्शनिक पूर्वपिठिका से छात्र परिचित होते है। 2) हिंदी साहित्य की आदिकालीन और मध्यकालीन का कालजयी रचनाओं तथा रचनाओंसे छात्र अवगत होते है।
		VI		आधुनिक हिंदी साहित्य का इतिहास संवत् 1900 से 2010 तक	1) आधुनिक हिंदी साहित्य की दार्शनिक पूर्वपिठिका से छात्र परिचित होते है। 2) आधुनिक हिंदी साहित्य के इतिहास के कालानुरूप विभिन्न वाद एवं विधाओं के विकास को छात्र अवगत करते है।
		V		प्रयोजनमूलक हिंदी	1) प्रयोजनमूलक हिंदी के स्वरूप एवं विकास से छात्र परिचित होते है। 2) प्रयोजनमूलक हिंदी के माध्यम से रोजगारपरक कौशल छात्र विकसित करते हैं।
		VI		व्यवहारिक हिंदी	1) अनुवाद का स्वरूप और महत्त्व से छात्र अवगत होते हैं। 2) अनुवाद एवं विज्ञापन लेखन की क्षमता से छात्र विकसित होते हैं।
		V		हिंदी भाषा	1) हिंदी भाषा एवं लिपि से उद्भव और विकास से छात्र परिचित होते है। 2) मानक हिंदी वर्तनी और व्याकरण से छात्र अवगत होते है।
		V		भाषा विज्ञान	1) भाषा विज्ञान से छात्र परिचित होते है। 2) उच्चारण की शुद्धता के प्रति छात्र जागृत होते है।
	M.A.	I	1.1	आधुनिक हिंदी गद्य साहित्य	1) हिंदी गद्य साहित्य से छात्र परिचित होते है। 2) हिंदी गद्य साहित्य की विविध विधाओं का अध्ययन करत है।
		II	1.1	आधुनिक हिंदी गद्य साहित्य	1) तात्कालीन भारतीय सामाजिक सांस्कृतिक परिवेश से छात्र परिचित होते है। 2) छात्रों से हिंदी गद्य विधा के प्रति रुचि निर्माण होती है।
		I	1.2	भाषा विज्ञान	1) भाषा और भाषा विज्ञान से छात्र परिचित होते हैं। 2) रूप विज्ञान, अर्थ विज्ञान से छात्र अवगत होते हैं।
		II	1.2	हिंदी भाषा एवं लिपि	1) हिंदी की ऐतिहासिक पृष्ठभूमि से छात्र परिचित होते है। 2) देवनागरी लिपि की उत्पत्ती एवं उसकी विशेषताओं से छात्र परिचित होते है।
		I	1.3	प्रयोजनमूलक हिंदी	1) कामकाजी हिंदी से छात्र परिचित होते हैं। 2) राजभाषा की संविधानिक स्थिति से छात्र परिचित होते हैं।
		II	1.3	संगणकीय हिंदी एवं व्यवहारिक हिंदी	1) संगणक में हिंदी के अनुप्रयोग से छात्र अवगत होते हैं। 2) मुद्रित और इलेक्ट्रॉनिक माध्यम से छात्र परिचित होते हैं।
		I	1.4	व्यावसायिक वर्ग-पत्रकारिता	1) पत्रकारिता के स्वरूप प्रकार और महत्त्व से छात्र परिचित होते हैं। 2) पत्रकारिता के मूल तत्त्वों से छात्र अवगत होते हैं।
		II	1.4	व्यावसायिक वर्ग-पत्रकारिता	1) प्रिंट पत्रकारिता और मुद्रणकला के संदर्भ जानकारी छात्र अवगत करते हैं। 2) भारतीय संविधान में प्रदत्त मौलिक अधिकार सूचना और मानवाधिकार से छात्र परिचित होते हैं।
		I	1.2	अनुवाद	1) अनुवाद की सामाजिक उपदयेयता से छात्र परिचित होते हैं। 2) अनुवाद से रोजगार के क्षेत्रों छात्र अवगत होते हैं।



		II	1.2	हिंदी साहित्य और सिनेमा	1) हिंदी साहित्य एवं सिनेमा से छात्र परिचित होते हैं। 2) हिंदी साहित्यीक कृतियों के फिल्मांतरण की प्रक्रिया से छात्र अवगत होते हैं।
	M.A. II	III	3.1	हिंदी साहित्य का इतिहास	1) छात्र हिंदी साहित्य के महत्त्व से परिचित होकर उसका विश्लेषण करते हैं। 2) छात्रों को आदिकालीन, भक्तिकालीन, रितिकालीन साहित्य की जानकारी होती है।
		IV	4.1	हिंदी साहित्य का इतिहास	1) आधुनिककालीन परिवेश एवं विभिन्न दर्शनों से छात्र परिचित होते हैं। 2) विभिन्न विमर्शों से छात्र परिचित होते हैं।
		III	3.2	काव्यशास्त्र एवं साहित्यालोचन	1) काव्यशास्त्र को लेकर भारतीय चिंतन से छात्र परिचित होते हैं। 2) संस्कृत काव्यशास्त्र के विकासक्रम से छात्र परिचित हैं।
		IV	4.2	काव्यशास्त्र एवं साहित्यालोचन	1) पाश्चात्य काव्यशास्त्र के इतिहास से छात्र परिचित होते हैं। 2) पाश्चात्य काव्यशास्त्र के सिद्धांतों के स्वरूप अवधारणासे छात्र परिचित होते हैं।
		III	3.3	अनुसंधान प्रविधि और प्रक्रिया	1) छात्र अनुसंधान प्रक्रिया और प्रविधि से परिचित होते हैं। 2) साहित्यिक अनुसंधान के विभिन्न क्षेत्रों से छात्र अवगत होते हैं।
		IV	4.3	अनुसंधान प्रविधि और प्रक्रिया	1) छात्र अनुसंधान परियोजना कौशल आत्मसात करने में सक्षम होते हैं। 2) छात्र को अनुसंधान संशोधन पद्धति और प्रविधि में रुचि निर्माण होती है।
		III	3.1	प्राचीन एवं मध्यकालीन काव्य	1) प्राचीन काव्य परंपरा से छात्र परिचित होते हैं। 2) नाथ साहित्य और सुफि काव्य से छात्र परिचित होते हैं।
		IV	4.1	प्राचीन एवं मध्यकालीन काव्य	1) उत्तर मध्यकालीन काव्य से छात्र परिचित होते हैं। 2) छात्र बिहारी और घनानंद के व्यक्तित्व एवं कृतित्व से परिचित होते हैं।
		III	3.2	फिल्म मिमांसा	1) हिंदी फिल्म उद्भव एवं विकास से छात्र परिचित होते हैं। 2) फिल्म निर्मिती एवं पात्रों से छात्र परिचित होते हैं।
		IV	4.2	दलित एवं आदिवासी साहित्य	1) दलित साहित्य एवं आदिवासी साहित्य से छात्र परिचित होते हैं। 2) आधुनिक हिंदी साहित्य में प्रवाहित विचारधारा से छात्र अवगत होते हैं।



Department Of Marathi

अभ्यासक्रमाची उद्दिष्टे :-

अ. क्र.	वर्ग	सत्र	अभ्यासपत्रिका क्रमांक आणि नाव	अभ्यासक्रम उद्दिष्टे
१	बी. ए. भाग - १	I & II	आवश्यक मराठी - साहित्यदर्पण	१) मराठी भाषा समर्थपणे वापरण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण व्हावी २) साहित्याचे विविध प्रकारांचे व प्रवाहांचे आकलन, आस्वाद, व विश्लेषण करता यावे. ३) साहित्यात मांडलेल्या विषयाच्या अनुषंगाने जीवनातील प्रश्न समजावून देणे ४) मराठी भाषेचे वैभव दृष्टीपथात यावे, व त्यातून सामाजिक दृष्टी विकसित होण्याची प्रेरणा मिळावी
	बी. ए. भाग - १	I & II	ऐच्छिक मराठी - साहित्यरंग	१) विद्यार्थ्यांमध्ये मराठी भाषा आणि साहित्याची जाणीव समृद्ध करणे २) विद्यार्थ्यांना मराठी साहित्यातील विविध प्रकार व प्रवाहांची ओळख करून देणे. ३) विद्यार्थ्यांना कथा व कविता या साहित्यप्रकाराची संकल्पना, स्वरूप व परंपरा समजावून सांगणे. ४) विद्यार्थ्यांना भाषेचे उपयोजन शिकवताना बातमीलेखन व निबंधलेखन कौशल्य शिकविणे
२	बी. ए. भाग - २	III	पेपर क्रमांक - तीन मराठी वाङ्मयप्रकार आणि उपयोजित मराठी	१) कादंबरी या साहित्यप्रकाराचे वेगळेपण लक्षात घेणे. २) कादंबरी निर्मितीतील लेखकाचे महत्व अधोरेखित करणे. ३) कादंबरीतील आशय व अनुभव समजावून देणे. ४) विद्यार्थ्यांचे व्यक्तीमत्त्व कलागुण संपन्न करणारी कौशल्ये विकसित करणे
	बी. ए. भाग - २	III	पेपर क्रमांक - चार कविता आणि काव्यास्वाद :-	१) कविता या साहित्यप्रकाराची ओळख करून देणे २) मराठी कवितेची वाटचाल समजून घेणे ३) मराठी कवितेतील चित्रणाचा आढावा घेणे. ४) कवितेतील प्रतिमा, प्रतिके, व मिथकांचे महत्व समजून घेणे
		IV	पेपर क्रमांक - पाच आत्मकथन आणि उपयोजित मराठी	१) आत्मकथन म्हणजे काय ते समजून घेणे. २) आत्मकथनाचे साहित्यिक मूल्य तपासणे. ३) आत्मकथनाची मराठी वाटचाल समजून घेणे. ४) उपयोजित मराठीचे व्यावहारिक मूल्य समजावून घेणे.
		IV	पेपर क्रमांक - सहा	१) नाटक या साहित्यप्रकाराची ओळख करून घेणे.



			नाटक वाङ्मय प्रकार आणि उपयोजित मराठी	२) नाटकाचे विविध घटक समजावून देणे. ३) मराठी नाटकाची वाटचाल समजावून देणे. ४) उपयोजित मराठीतील घटक समजावून देणे.
३	बी. ए. भाग -तीन	V	पेपर क्रमांक - सात साहित्यशास्त्र	१) साहित्यलक्षणाच्या विविध सिध्दांतांचा परिचय करून देणे. २) साहित्याचे स्वरूप समजावून सांगणे. ३) साहित्याच्या विविध प्रयोजनांचा परिचय करून देणे ४) साहित्यनिर्मितीच्या कारणांची माहिती करून देणे
		V	पेपर क्रमांक - आठ भाषाविज्ञान व व्याकरण	१) मानवी जीवनातील भाषेचे स्वरूप व महत्व विद्यार्थ्यांना समजावून सांगणे २) विद्यार्थ्यांमध्ये वैज्ञानिक दृष्टीकोन विकसित करणे. ३) भाषिक संप्रेषणाचा परिचय करून घेणे. ४) भाषा परिवर्तनाचे स्वरूप स्पष्ट करणे. ५) मराठी भाषेच्या व्याकरणाचे स्वरूप समजावून सांगणे.
		V	पेपर क्रमांक - नऊ मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ. स. ११०१ ते १८००)	१) मध्ययुगीन मराठी वाङ्मयाची परंपरा व इतिहास यांचा परिचय करून देणे. २) मध्ययुगीन मराठी साहित्यातील निर्मितीच्या प्रेरणांचा परिचय करून देणे. ३) मध्ययुगीन मराठी साहित्याचे स्वरूप व वैशिष्ट्य यांचा परिचय करून देणे. ४) मध्ययुगीन मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी समजून देणे.
		V	पेपर क्रमांक - दहा उपयोजित मराठी	१) विद्यार्थ्यांना पारिभाषिक शब्दांचा परिचय करून देणे. २) ई - मराठी लेखनाचे महत्व समजावून सांगणे ३) मुद्रित शोधनाचे महत्व सांगून त्याचा सराव करून घेणे ४) स्पर्धा परीक्षेतील मराठी भाषेचे महत्व लक्षात आणून देणे.
		V	पेपर क्रमांक - ११ आधुनिक मराठी साहित्यातील विविध प्रवाह (ग्रामीण व दलित)	१) आधुनिक मराठी साहित्यातील प्रवाहांच्या निर्मितीची पार्श्वभूमी समजावून सांगणे. २) ग्रामीण व दलित साहित्य प्रवाहाची संकल्पना, प्रेरणा स्वरूप व वैशिष्ट्ये विशद करणे. ३) ग्रामीण व दलित साहित्यप्रवाहांचा उदगम व विकास स्पष्ट करणे. ४) ग्रामीण कवितेची आशयसूत्रे, भाषावैशिष्ट्ये विशद करणे. ५) दलित कथेचा आशय, सामाजिकता, वैचारिकता स्पष्ट करून सांगणे
	बी. ए. भाग -तीन	VI	पेपर क्रमांक - बारा	१) साहित्यलक्षणाच्या विविध सिध्दांतांचा परिचय करून देणे.



			रसविचार	<p>२) साहित्याचे स्वरूप समजावून सांगणे.</p> <p>३) साहित्याच्या विविध प्रयोजनांचा परिचय करून देणे</p> <p>४) साहित्यनिर्मितीच्या कारणांची माहिती करून देणे</p>
		VI	पेपर क्रमांक - तैरा भाषाविज्ञान व व्याकरण DSE - 8	<p>१) मानवी जीवनातील भाषेचे स्वरूप व महत्व विद्यार्थ्यांना समजावून सांगणे</p> <p>२) विद्यार्थ्यांमध्ये वैज्ञानिक दृष्टीकोन विकसित करणे.</p> <p>३) भाषिक संप्रेषणाचा परिचय करून घेणे.</p> <p>४) भाषा परिवर्तनाचे स्वरूप स्पष्ट करणे.</p> <p>५) मराठी भाषेच्या व्याकरणाचे स्वरूप समजावून सांगणे</p>
		VI	पेपर क्रमांक - चौदा मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ. स. ११०१ ते १८००)	<p>१) मध्ययुगीन मराठी वाङ्मयाची परंपरा व इतिहास यांचा परिचय करून देणे.</p> <p>२) मध्ययुगीन मराठी साहित्यातील निर्मितीच्या प्रेरणांचा परिचय करून देणे.</p> <p>३) मध्ययुगीन मराठी साहित्याचे स्वरूप व वैशिष्ट्य यांचा परिचय करून देणे.</p> <p>४) मध्ययुगीन मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी समजून देणे.</p>
		VI	पेपर क्रमांक - पंधरा उपयोजित मराठी	<p>१) मराठी भाषेचे विविध क्षेत्रातील महत्व व उपयोजन विद्यार्थ्यांना समजावून सांगणे.</p> <p>२) जाहिरात कलेची उपयुक्तता स्पष्ट करून सांगणे.</p> <p>३) विद्यार्थ्यांमध्ये निवेदन कौशल्ये विकसित करणे.</p> <p>४) ग्रंथपरिक्षणाचे महत्व व स्वरूप समजावून सांगणे</p>
		VI	पेपर क्रमांक - सोळा आधुनिक मराठी साहित्यातील विविध प्रवाह, (स्त्रीवादी, मुस्लिम)	<p>१) आधुनिक मराठी साहित्यातील प्रवाहांच्या निर्मितीची पार्श्वभूमी समजावून सांगणे.</p> <p>२) स्त्रीवादी व मुस्लिम साहित्यप्रवाहांची संकल्पना, स्वरूप, प्रेरणा विशद करणे.</p> <p>३) वरील साहित्यप्रवाहांचा उदगम व विकास स्पष्ट करणे.</p> <p>४) कादंबरीतील आशयसूत्रे, समाजचित्रण, घटनाप्रसंग, व्यक्तिरेखा व भाषा विशद करणे.</p> <p>५) आत्मचरित्राचा आशय, जीवनसंघर्ष, सामाजिकता, वैचारिकता, भाषा स्पष्ट करून सांगणे</p>
४	एम. ए. भाग - १	I	अभ्यासपत्रिका क्रमांक - १ साहित्यविचार	<p>१) साहित्य निर्मितीप्रक्रियेची माहिती देणे.</p> <p>२) साहित्यकृती अभ्यासताना साहित्य विचाराचे उपयोजन करणे.</p> <p>३) ललित साहित्याचे मूल्यमापन करणे.</p> <p>४) साहित्यकृतीचे सर्वकष समीक्षण करणे.</p>
		I		१) भाषिक संवादाचे महत्व लक्षात आणून देणे.



			अभ्यासपत्रिका क्रमांक - २ मराठी भाषा संवाद व उपयोजन	२) वक्तृत्व तंत्र व कौशल्ये समजावून सांगणे. ३) वृत्तपत्रीय लेखन, बातमीलेखन, संपादकीय लेखांचे विश्लेषण करणे. ४) जाहिरात निर्मिती करता येणे.
		I	HCT - १.३ आधुनिक मराठी वाङ्मयाचा इतिहास (१८०० ते १९२०)	१) साहित्य व साहित्यिक यांचे कालखंडानुसार ज्ञान देणे २) वाङ्मय इतिहासाची परंपरा समजून घेणे. ३) साहित्यकृतीच्या प्रभावाची कारणे समजून घेणे. ४) १८०० ते १९२० या कादंबरीतील साहित्याचे मूल्यमापन करणे.
		I	पेपर क्रमांक - SCT - १.१ एका लेखकाचा अभ्यास (मध्ययुगीन संत तुकाराम)	१) मध्ययुगीन साहित्य समाज आणि संस्कृती अभ्यासणे. २) लेखक पद्धती समजून घेणे. ३) संत तुकाराम यांच्या अभंगांचा सखोल अभ्यास करणे. ४) संत तुकाराम यांच्या अभंगांचे साहित्यिक मूल्यमापन करणे.
		II	अभ्यासपत्रिका क्रमांक - ६ साहित्यविवार समीक्षा	१) समीक्षेच्या प्रकारांचे ज्ञान देणे २) समीक्षा संकल्पना समजून घेणे. ३) समीक्षा पद्धतीचा वापर करणे. ४) वृत्तपत्रीय समीक्षा लिहता येणे.
		II	अभ्यासपत्रिका क्रमांक - ७ मराठी भाषा संवाद व उपयोजन	१) आकाशवाणी उद्घोषणा, बातमी देता येणे. २) दूरदर्शन बातमी, मालिकांचे विश्लेषण करता येणे. ३) समाजमाध्यमावरील संवादाचे उपयोजन करणे. ४) youtube साठी लघुपट निर्मिती करणे.
		II	अभ्यासपत्रिका क्रमांक - ८ आधुनिक मराठी वाङ्मयाचा इतिहास इ. स. १९२० ते १९६०	१) साहित्य व साहित्यिक यांचे कालखंडानुसार ज्ञान देणे २) वाङ्मय इतिहासाची परंपरा समजून घेणे. ३) साहित्यकृतीच्या प्रभावाची कारणे समजून घेणे. ४) इ. स. १९२० ते १९६० या कादंबरीतील साहित्याचे मूल्यमापन करणे.
		II	एका लेखकाचा अभ्यास आधुनिक - महात्मा जोतीराव फुले	१) महात्मा फुले यांच्या समग्र साहित्याचा सखोल अभ्यास करणे. २) महात्मा फुले यांचे सामाजिक व शैक्षणिक कार्य समजवून घेणे. ३) महात्मा फुले यांच्या कार्यकर्तृत्वाचे वाङ्मयीन कार्यकर्तृत्वाचे वेगळेपण लक्षात घेणे. ४) महात्मा फुले यांच्या कार्याची कालसमर्पकता समजावून घेणे.

एम. ए. भाग - दोन	III	अभ्यासपत्रिका HCT - ३.१ आधुनिक भाषाविज्ञान	१) मानवी जीवनातील भाषेचे स्वरूप व महत्व विद्यार्थ्यांना समजावून सांगणे २) विद्यार्थ्यांमध्ये वैज्ञानिक दृष्टीकोन विकसित करणे. ३) भाषिक संप्रेषणाचा परिचय करून घेणे. ४) भाषा परिवर्तनाचे स्वरूप स्पष्ट करणे. ५) मराठी भाषेच्या व्याकरणाचे स्वरूप समजावून सांगणे.
	III	आधुनिक मराठी वाङ्मयाचा इतिहास १९६० ते १९९०	१) मराठी वाङ्मयाची परंपरा व इतिहास यांचा परिचय करून देणे. २) मराठी साहित्यातील निर्मितीच्या प्रेरणांचा परिचय करून देणे. ३) मराठी साहित्याचे स्वरूप व वैशिष्ट्य यांचा परिचय करून देणे. ४) मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी समजून देणे
	III	भाषा व साहित्य : संशोधनाचे पद्धतीशास्त्र	१) संशोधनाचे महत्व समजून घेणे. २) भाषा आणि साहित्य संशोधनाचे स्वरूप व वेगळेपण समजून घेणे. ३) भाषा व साहित्याच्या संशोधनाचे पद्धतीशास्त्र समजून घेणे. ४) भाषा व साहित्य संशोधनात्मक लेखनाचा परिचय करून घेणे.
	III	अभ्यासपत्रिका OET :- ३.१ मराठी भाषा व स्पर्धा परीक्षा	१) भाषेचे स्वरूप विशेष समजून घेणे. २) भाषेतील स्तरभेद व बोलीचा अभ्यास करणे. ३) लोकसाहित्याचे स्वरूप विशेष समजून घेणे. ४) लोकसाहित्याचे प्रकार भेद समजून घेणे.
	IV	अभ्यासपत्रिका HCT ४.१ समाजभाषाविज्ञान	१) समाजभाषाविज्ञानाच्या विविध सिद्धांतांचा परिचय करून देणे. २) समाजभाषाविज्ञानाचे स्वरूप समजावून सांगणे. ३) समाजभाषाविज्ञानाच्या विविध प्रयोजनांचा परिचय करून देणे ४) समाजभाषाविज्ञानाची माहिती करून देणे
	IV	आधुनिक मराठी वाङ्मयाचा इतिहास १९९० ते २०१०	१) मराठी वाङ्मयाची परंपरा व इतिहास यांचा परिचय करून देणे. २) मराठी साहित्यातील निर्मितीच्या प्रेरणांचा परिचय करून देणे. ३) मराठी साहित्याचे स्वरूप व वैशिष्ट्य यांचा परिचय करून देणे. ४) मराठी वाङ्मयाची सांस्कृतिक पार्श्वभूमी समजून देणे.
	IV	अभ्यासपत्रिका HCT - ४.३ शोधप्रबंध लेखन	१) भाषा व साहित्य संशोधन पद्धती समजून घेणे. २) शोधप्रबंध लेखनाचे स्वरूप लक्षात घेणे. ३) शोधप्रबंध लेखनाची शास्त्रीय माहिती देणे. ४) प्रत्यक्ष शोधप्रबंध सादर करणे.
	IV	पेपर क्रमांक - ४. ४	१) लोकप्रिय साहित्याचे स्वरूप समजून घेणे.



			लोकप्रिय साहित्य	२) लोकप्रिय साहित्याचा उगम, व वाटचाल लक्षात घेणे. ३) लोकप्रिय साहित्याच्या भाषेचे वेगळेपण समजून घेणे. ४) लोकप्रिय साहित्य आणि वाचकांची अभिरुची यांचा सहसंबंध स्पष्ट करणे.
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Department of Political Science

Sr. No	Year	Course Name	Sem.	Paper No.	Paper Name	Course Outcome
1.	2021-22	B.A.I	I	I	Constitutional Government and Democracy in India	<ol style="list-style-type: none"> 1) Student understands making of Indian Constitution, It's features & Philosophy 2) It extends the consciousness of the student about the fundamental rights & duties of citizen.
			II	II	Constitutional Government and Democracy in India	<ol style="list-style-type: none"> 1) Course gives analytical perspectives about federal structure of India and actual functioning of Union- State governments. 2) Course introduces to student nature, ideology & role of national political parties in India.
2.	2021-22	B.A.II	III	III	Introduction To Political Theory	<ol style="list-style-type: none"> 1) Students will understand certain key aspects of conceptual analysis in political theory. 2) Students will apply concepts to contemporary political issues
				IV	Modern Indian Political Thought	<ol style="list-style-type: none"> 1) Students will understand to the concepts, ideas and theories that developed in India. 2) Students will compare thinkers on similar concept
			IV	IDS	Public Administration	<ol style="list-style-type: none"> 1) Students will understand the governing philosophy into programs, policies and activities and making it a part of community living. 2) Develop a deeper understanding of the personnel public administration.
				V	Introduction To Political Theory	<ol style="list-style-type: none"> 1) Students will understand to the concepts, ideas and theories 2) Student explains significance of liberty, equality and justice.
			VI	Modern Indian Political Thought	<ol style="list-style-type: none"> 1) Students will use concepts to analyze new situations. 2) Students will explain the nature and value of normative thinking 	



				IDS	Public Administration	1) Students will understand the governing philosophy into programs,
						policies. 2) Develop a deeper understanding of the financial administration.
3.	2021-22	B.A.III	V	VII	Government & Politics of Maharashtra	1) Students will have a summary understanding of formation of Sanyukta Maharashtra & determinants of politics of Maharashtra. 2) Develop a deeper understanding of the structure and policy of Maharashtra Government.
				VIII	Political Sociology	1) Develop a deeper understanding of the concepts in modern political theory. 2) Students will apply certain key aspects of conceptual analysis in modern political theory.
				IX	Introduction to International Politics	1) To understand some important theoretical approaches in international relations & a history from 1945 onwards to the present. 2) To evaluate the foreign policy of Indian since independence and its possible future trajectory.
				X	Comparative Government & Politics	1) Develop a deeper understanding of the structures and politics of United Kingdom, USA and Switzerland. 2) To understand the politics in United Kingdom, USA and Switzerland government comparatively and to know the principles of good governance.



				XI	Western Political Thought	<ol style="list-style-type: none"> 1) Develop consciousness of the concepts, ideas and theories that developed in Western country. & western political tradition. 2) To understand seminal contribution of western political Thinker to the evolution of political theorizing in western country. 3) To understand concepts of classical political thinker.
		VI		XII	Government & Politics of	<ol style="list-style-type: none"> 1) Develop a deeper understanding of the structure and policy of Panchyat Raj

					Maharashtra	<ol style="list-style-type: none"> Sansthas and Local Self Government. 2) Develop a deeper understanding of the structure and policy of Maharashtra Government, Panchyat Raj Sansthas and Local Self Government.
				XIII	Political Sociology	<ol style="list-style-type: none"> 1) Develop a deeper understanding of the concepts in political theory. 2) Students will apply certain key aspects of conceptual analysis in contemporary political theory.
				IVX	Introduction to International Politics	<ol style="list-style-type: none"> 1) To understand some important theoretical approaches in international organization & a history from 1945 onwards to the present. To evaluate the foreign policy of Indian since independence and its possible future trajectory. 2) To evaluate the foreign policy of Indian since independence and its possible future trajectory.
				XV	Comparative Government & Politics	<ol style="list-style-type: none"> 1) Develop a deeper understanding of the structures and politics of United Kingdom, USA and Switzerland. 2) To understand the politics in United Kingdom, USA and Switzerland government comparatively and to know the principles of good governance.



				XVI	Western Political Thought	<ol style="list-style-type: none"> 1) Students will explain their relevance of Classical Political Thoughts to contemporary times. 2) Students will explain their relevance of Western Political Thoughts to contemporary times.
4	2021-22	M.A. I	I	HCT-1.1	Political Theory	<ol style="list-style-type: none"> 1) Student explains nature & significance of political theory. 2) To understand modern theories of state & democracy.
				HCT-1.2	Major Ideas in Public Administration	<ol style="list-style-type: none"> 1) To understand some important theoretical approaches & views in Public Administration. 2) To deeper understanding the bases of organization. 3) To understand the principles of organization.
				HCT-1.3	Constitution of India	<ol style="list-style-type: none"> 1) Student explains understanding making of Indian Constitution, its features &

						<ol style="list-style-type: none"> Philosophy. 2) Student explains understanding making of Indian Constitution, its features & Philosophy.
				DSC-1.2	Modern Indian Political Thought	<ol style="list-style-type: none"> 1) Student explains the concepts, ideas and theories that developed in Modern India. 2) To understand history of Indian Renaissance. 3) Students will have a summary understanding of New Humanism, Communism & Socialism in the view of Indian Thinkers.
				SCT-1.2	Financial Administration in India	<ol style="list-style-type: none"> 1) Student explains nature & significance of financial Administration. 2) Develop a deeper understanding of the personnel & financial administration.
			II	HCT-2.1	Contemporary Political Theory	<ol style="list-style-type: none"> 1) Student explains nature & significance of contemporary political theory. 2) Deeper understanding of the liberalism.
				HCT-2.2	Issues in Public Administration	<ol style="list-style-type: none"> 1) Develop a deeper understanding of the Issues in Public Administration. 2) Develop a deeper understanding of the Good Governance, E-Governance



				HCT-2.3	Political Process in India	<ol style="list-style-type: none"> 1) To understand theories of federalism. 2) Develop a deeper understanding of the various ideologies of political party.
				DSC-2.1	Electoral Politics in India	<ol style="list-style-type: none"> 1) To understand Electoral Politics under Colonial Rule. 2) Develop a deeper understanding of the Electoral System in India since 1950
				SCT-2.1	Human Rights	<ol style="list-style-type: none"> 1) Students will explicate analyze concepts & some Theories of Human Rights. 2) Develop a deeper understanding of the Women's and Child Rights, Rights of Minorities and Rights of SC and ST.
5.	2021-22	M.A. II	III	HCT-3.1	International Relations	<ol style="list-style-type: none"> 1) Students will explicate analyze concepts & some Theories of International relations. 2) Students will explicate analyze key concepts of International relations.
				HCT-3.2	Government & Politics of Maharashtra	<ol style="list-style-type: none"> 1) Maharashtra & determinants of politics of Maharashtra. 2) Students will analyze and critically assess the Demand for separate Vidarbha State
				HCT-3.3	Research Methodology	<ol style="list-style-type: none"> 1) Students will learn research methods and hypothesis writing, testing. 2) Demonstrate critical thinking and writing skills related to Report Writing.
			IV	DSC-3.1	Western Political Thought	<ol style="list-style-type: none"> 1) Develop consciousness of the Classical & Christian political thought. 2) Student will demonstrate understanding of secularization of political thought.
				SCT-3.1	International Organizations	<ol style="list-style-type: none"> 1) Students will explicate analyze concepts & some Theories of International organizations. 2) Student will demonstrate understanding of Regional Organizations
				HCT-4.1	Indian Foreign Policy	<ol style="list-style-type: none"> 1) To understand the nature, scope and objective of foreign policy 2) To understand the India's Relations with South Asian Countries.
				HCT-4.2	Local Self Government in Maharashtra	<ol style="list-style-type: none"> 1) Student explains the composition and policy making of Maharashtra Government. 2) Student explains the composition and policy making of Panchyat Raj Sansthas and Local Self Government.

			HCT-4.3	Dissertation	<ol style="list-style-type: none"> 1) Students will have a stronger and more informed perspective on Research Methodology in Political Science. 2) Demonstrate critical thinking and writing skills related to Report Writing.
			DSC-4.1	Western Political Thinkers	<ol style="list-style-type: none"> 1) To understand theories of Social Contract. Develop a deeper understanding of the various ideologies. 2) various ideologies.
			SCT-4.1	Foreign Policy & Diplomacy	<ol style="list-style-type: none"> 1) To understand the Foreign Policy & Diplomacy. 2) To understand the Process and Administration of Foreign Policy



Department of History

Sr. No	Course Name	Sem. No.	Paper No.	Paper Name	Course Outcome
1	B.A.I	I	I	Chhatrapati Shivaji and his Times	1. Students will be able to examine institutional basis of Maharashtra. 2. Students will be able to examine the real history of Chh. Shivaji Maharaj and his Times.
		II	II	Chhatrapati Shivaji and his Times	1. Students will be able to examine social, economic and religious condition in Medieval Maharashtra. 2. Students will be able to analyse civil administration, military administration and judicial system during the 1630-1707 A.D.
2	B.A.II	III	III	History of Modern Europe	1. Students will be able to understand the contemporary Europe in the light of its background history. 2. Students will be able to understand the various Revolutions and basis of development of European countries.
			IV	History of Indian Freedom Movement	1. Students will be able to understand the major events of India's freedom struggle. 2. Students will be able to understand rise and growth nationalism in Europe.
		IV	V	History of Modern Europe	1. Students will be able to understand rise and growth nationalism in Europe. 2. Students will be able to understand main forces, personalities, events and movements that has shaped the Modern Europe.
			VI	History of Indian Freedom Movement	1. It will increase the spirit of healthy Nationalism, Democratic values and secularism among the student. 2. Students will be able to understand and assess the contribution of national leaders.
	IDS	III	IDS	History of Social Reforms in Maharashtra	1. Students will be able to examine social background of Maharashtra. 2. Understand various social reform movements and contribution of social reformer in Maharashtra.
		IV	IDS	History of Social Reforms in Maharashtra	1. Identify the different types of social problems in our society. 2. It will increase the spirit of humanity, secularism, gender equality among the students.
3	B.A.II I	V	VII	Ancient India	1. Students will be able to examine institutional basis of India. 2. Identify the rules and their administration.



			VIII	Mughal India	1.Students will be able to examine social, economic and religious condition in Medieval period. 2. Analyse the impact of various rule on Indian polity and society.
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			IX	Expansion and Downfall of the Maratha Power	1.Students will be able to analyse the Marathas policy of expansionism. 2.Understand the role played by the Marathas in the 18 th century polity.
			X	Modern World	1.Students will understand the relations between the nations in the world. 2. Students will study the political, social and economic challenges in the Modern World.
			XI	Historical Sources, Research and Places	1.Students will be able to explain the what is history and importance of history. 2. Students will be able to examine sources of history.
		VI	XII	Ancient India	1.Evaluate the legacy of Shaivism, Vaishnavism ,Buddhism and Jainism. 2.Analyze the features of Indian art and architecture.
			XIII	Mughal India	1.Students will be able to explain our heritage through culture aspects of India. 2.Assess the economy and religion of various rule.
			IVX	Expansion and Downfall of the Maratha Power	1. Students will be able to analyse the civil, military administration and judicial system during the Peshwa period.
			XV	Modern World	1.Students understand the consequences of the World War-I,II and Cold War regarding the present global crises. 2.Analyze the streamline the role of League of Nations.
			XVI	Historical Sources, Research and Places	1.Students will understand the Museum and Historical Tourism. 2.Identify the different types of primary and secondary sources.
4.	M.A.I	I	HCT -1.1	Historiography	1.Understand about the Research process in Historical research 2.Know the relationship of history with its allied disciplines.
			HCT -1.2	Ancient India up to 650.	1.Student will able to gather knowledge about the society, culture, religion and political history of ancient India. 2.The Student will able to acquire knowledge about Indus civilization and Vedic Period.
			HCT -1.3	History of World (1900-1970)	1.Students will understand the relations between the nations in the world. 2.Students will study the political, social and economic challenges in the Modern World.



			DSE-1.1	Medieval India (1200-1700)	1.The political and administrative conditions during the Delhi Sultanate period. 2.The social and economic conditions prevailing during the time of Delhi Sultanate
			SCT-1.1	History of India (1757-1857)	1.Identify the strategies of British for Imperial control 2.The student will become familiar with the foundation & Administration of Modern India

		II	HCT-2.1	Historiography	1.As a history student will learn about the historiographical trends, interpretation of the historical sources of India as well. 2. Students will be able to explain the what is history and importance of history.
			HCT-2.2	Ancient India up to 650.	1.The student will understand the changing sociocultural scenarios of India. 2.The student will become familiar with the foundation & Administration of ancient India
			HCT-2.3	History of World (1900-1970)	1.Students understand the consequences of the World War-I,II and Cold War regarding the present global crises. 2.Analyze the streamline the role of League of Nations.
			DSE-2.1	Medieval India (1200-1700)	1.Student will learn and analyse about the transition from historic centuries to the early medieval. 2.The student will become familiar with the foundation & Administration of Medieval India
			SCT-2.1	History of India (1757-1857)	1.Students should be to Know about the thoughts of ancient, middle and Modern period 2.It will increase the spirit of healthy Nationalism, Democratic values and secularism among the student
5.	M.AII	III	HCT-3.1	Maratha History (1600-1818)	1.Grasp the details about different sources and various trends in Maratha history. 2.Students will be able to analyse the Marathas policy of expansionism
			HCT-3.2	Modern Maharashtra (1818-1990)	1.Students can able to get the Knowledge of Social Movement. 2.Understand various social reform movements and contribution of social reformer in Maharashtra.



			HCT-3.3	Research Methodology	1.Understand about the Research process in Historical research. 2.Students will be able to examine sources of history.
			DSE-3.1	Women in Indian History	1.Analyse and compare the customary and legal status of women in Ancient, Medieval and colonial India 2.Student will able to gather knowledge about the society, culture ,religion and political history of ancient India
			GET-3.1	History of India (1858-1964)	1.Identify the strategies of British for Imperial control.
					2.Grasp the details of freedom movement under the Mahatma Gandhi's leadership.
		IV	HCT-4.1	Maratha History (1600-1818)	1.Understand the role played by the Marathas in the 18 th century polity. 2. Students will be able to understand and assess the contribution of national leaders
			HCT-4.2	Modern Maharashtra (1818-1990)	1.Understand about the Development of Modern Maharashtra. 2.Identify the reforms movements in Maharashtra.
			HCT-4.3	Dissertation	1.Students will be able to dissertation writing skill. 2.Students will be able to viva-vice skill.
			DSE-4.1	Women in Indian History	1.The student will become familiar with the emergence and spread of Bhakti movement 2.Understand the issues in representing woman in History.
			SCT-4.1	History of India (1858-1964)	1.Understand various phases of the national movement. 2.It will increase the spirit of healthy Nationalism, Democratic values and secularism among the student.



Department of Geography

Sr. No.	Course	Sem.	Paper No.	Subject	Course outcomes
1	FYBA	I	I	Geomorphology	<ul style="list-style-type: none"> • The student learns about the knowledge of Geomorphology. • The student were understand geomorphological concept and process takes place on the earth surface and within the earth crust. • The Student were familiar the knowledge about interior structure of the earth, formation of continent and types of rock. • Student understands about endogenetic and exogenetic forces and their effect in the creation of different landforms on the surface of the earth.
		II	II	Human Geography	<ul style="list-style-type: none"> • The students were known the importance of Human Geography. • The students understood the concepts, Theory, population growth and composition, settlement and detailed knowledge of Human Geography. • The students were familiar with basic development Human Geography. • The students are developed as good environmental conservator
2	SYBA	III	III	Climatology-III	<ul style="list-style-type: none"> • To make the students familiar with new terms and concept ofclimatology. • To know the constituents of atmosphere and its dynamic nature • To know the contribution of atmosphere in the making of earth habitable.



			IV	Geography of India-IV	<ul style="list-style-type: none"> • To synthesize students with various facts of India viz. Physiography, Climate, Soil, Vegetation and Resources • To synthesize students with various facts of India viz. Agriculture, Industries, Population, Social and Regionalization of India
		IV	V	Economic Geography-V	<ul style="list-style-type: none"> • To acquaint the students with economic activities i.e. Agriculture, Manufacturing, Transport, Trade and Services. • To acquaint the students with economic activity models.
			VI	Environmental Geography-VI	<p>□</p> <ul style="list-style-type: none"> • To acquaint students with concept of environmental geography. • To study the relation between human and environment. □□To introduce the students with environmental problems, programmes and policies.



3	TYBA	V	VII	Regional Planning and Development-VII	<ul style="list-style-type: none"> • The students were known the importance of regional planning. • The students understood the concepts of region, regionalization, regional planning & development and detailed knowledge of region. □□The students were familiar with indicators of measurement of development. • Detail understanding of Growth Pole Model, Center
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					place Theory and Growth Foci Model in Indian context.
			VIII	Urban Geography-VIII	<ul style="list-style-type: none"> • The students were known the importance of urban settlements through urban geography. • The students understood the types of urban Settlements, Site and situations. • The students were familiar with an idea of relationship between human activities and urban development.
			IX	Population Geography-IX	□□This paper would bring an understanding of population geography along with relevance of demographic data.
		VI	X	Evaluation of Geographical Thought	<ul style="list-style-type: none"> • Students were able to visualize the basic theme, ideas and approaches of geographic knowledge with relation to historical juncture, varying schools and era of their emergence. • Detailed knowledge about the debates in the geographical studies. • Understanding of recent trends in Geography.



			XI	Political Geography	<ul style="list-style-type: none"> • Student will understand the history and development of political geography. • Get knowledge about evaluation of state and nation. • Get knowledge of Geo-political theories. • Investigates problems and disputes of India with the most current research topics in political geography.
			XII	Social Geography	<ul style="list-style-type: none"> • In depth understanding the problems and prospects of society in India. • The students are fully aware

					<p>about the technological, occupational and migration changes of peoples in India.</p> <p>□□Detailed knowledge about the social categories and their spatial distribution.</p> <p>□□Understanding concepts of social wellbeing, welfare and social problem in India.</p>
			I	Map Making and Map Interpretation P-I	<ul style="list-style-type: none"> • In depth understanding the map, concept of scale and projection. • Detailed knowledge about the analysis of landforms and its identification. • The students are deeply aware about basic information to the students about S.O.I. toposheets and I.M.D. weather reports and obtained the skills about map interpretation



			II	Advanced Tools, Techniques (Computer, Remote Sensing, GIS, GPS) & Field Work P-II	<ul style="list-style-type: none"> • In depth understanding the importance of field work and advanced Techniques in Geography. • The students are trained to implement modern tool and techniques in Geography. • The students are deeply aware about the basics and trained in instrumental survey. • The students are deeply familiar with computer, GIS, GPS and Remote Sensing.
1	M.A.I	I	I	Geomorphology I	1) To familiarize the students with certain fundamental Geomorphological concepts interior of the Earth, mountain building theories and movement of the Earth.

	M.A.I	I	II	Climatology I	1) To acquaint the student with weather phenomena, pressure belts and winds, air masses, atmospheric disturbances.
	M.A.I	I	III	Oceanography and Geohydrology	1) To know many acts of oceans such as properties of sea water, water circulation, structure of ocean basin, evolution of oceans, characteristics of marine environments.



	M.A.I	I	IV	Economic Geography	<ol style="list-style-type: none"> 1) To acquaint the students with the nature and scope of Economic geography, basic economic process and economic activities. 2) To familiarize the students with the principles of industrial location and industrial theories. 3) To acquaint the students with the resources, transportation, connectivity and trade.
	M.A.I	I	I	Representation of landform and topographical map	<ol style="list-style-type: none"> 1) To familiarized the students the identification of different landforms on the topographical maps.
	M.A.I	I	II	Study of weather maps	<ol style="list-style-type: none"> 1) To understand the method of collection and analysis of the climatic data and interpret the same.
	M.A.I	I	III	Analysis of climatic data	<ol style="list-style-type: none"> 1) To understand the student with the interpretation and construction of climatic graphs and diagram.
	M.A.I	I	IV	Analysis of socioeconomic data	<ol style="list-style-type: none"> 1) To familiarize the students various techniques of analysis of socio economic data.
2	M.A.I	II	V	Geomorphology	<ol style="list-style-type: none"> 1) To acquaint the students
				II	<ol style="list-style-type: none"> with the theories of evolution of continents and ocean basin. 2) To familiarize the students with the concept of erosion and applied geomorphology.



	M.A.I	II	VI	Climatology II	<ol style="list-style-type: none"> 1) To provide an understand of classification of climate and climate regions. 2) To acquaint the students with the climate and clothing, climatic problem.
	M.A.I	II	VII	Population geography	<ol style="list-style-type: none"> 1) To understand the students with the nature, scope of population geography and sources of population data, population distribution and composition. 2) To acquaint the students with fertility and mortality, population growth theory, population and recourses.
	M.A.I	II	VIII	Regional geography of India	<ol style="list-style-type: none"> 1) To understand the students India in terms of various regional divisions, their important characteristics. 2) To acquaint the student with agriculture and industries in India.
	M.A.I	II	V	Study of landforms analysis techniques	<ol style="list-style-type: none"> 1) To identify the different landforms on the topographical maps. 2) To identify the different drainage patterns and types o slopes.
	M.A.I	II	VI	Statistical techniques in geography I	<ol style="list-style-type: none"> 1) To introduce some basic statistical techniques to the students to be applied to various themes in geography.



	M.A.I	II	VII	Statistical techniques in geography II	1) To introduce the relative measures and co-efficient of correlation techniques to the students to be applied to various theme in geography.
	M.A.I	II	VIII	Representation of Socio-Economic data II	1) To understand the students various cartographic techniques of analysis of socio-economic data
	M.A.I	II	IX	Geomorphology II	3) To acquaint the students with the theories of evolution of continents and ocean basin. 4) To familiarize the students with the concept of erosion and applied geomorphology.
3	M.A.II	III	X	Agricultural geography	1) To familiarize the students with concept origin and development of agriculture: and to examine the role of agricultural determinants. The course further aims to make familiarize the students with the application of various theories, models, agricultural system and productivity. 2) To reexamine green revolution in India, contemporary issues and agricultural problems in solapur district.
	M.A.II	III	XI	Settlement geography	1) To familiarize the students with conceptual, theoretical and empirical development in settlement studies in geography 2) To provides an idea to the students about the national issues of settlements



	M.A.II	III	XII	Biography geography	1)To introduce the students the concept of the biography and it's interpretation 2)To introduce the students the
					climate ,physical environment and their interaction with the living organisms 3) To introduce the student with the living and nonliving environments and their interaction with the special reference to India 4)To make aware about conservation of biodiversity and biotic resources
	M.A.II	III	XIII	Cultural geography	1)To understand diversity of culture in the world as well as in India 2) To comprehend the diffusion of various ethnic traits and religions. 3)To understand the relationship between culture and pattern of living and economic development
	M.A.II	III	IX	Quantitative techniques in Economic geography	1)To understand the students to the quantitative techniques in agricultural geography 2)To acquaint the students to the quantitative techniques applied in marketing geography
	M.A.II	III	X	Introduction to computer	1) To understand the terms, concepts involved in computer 2) To familiarize the students with internet ,browser and web page



	M.A.II	III	XI	Applications of Computer in geography	<ol style="list-style-type: none"> 1) To familiarize students with geographical data and data structure 2) To acquaint the students to the computer cartography
	M.A.II	III	XII	Quantitative techniques in population and settlement	<ol style="list-style-type: none"> 1) To understand the students to the quantitative techniques in population geography

				geography	<ol style="list-style-type: none"> 2) To acquaint the student to the quantitative technique applied in settlement geography
4	M.A.II	IV	XIII	Regional planning and development in India	<ol style="list-style-type: none"> 1) To understand and evaluate the concept of region in geography 2) To understand the role and relevance of region in regional planning 3) To identify the causes of regional differences in development ,perspectives and policy imperatives 4) To understand the problems of regional development
	M.A.II	IV	XIV	Development of modern geography	<ol style="list-style-type: none"> 1) To introduce the students to the philosophical and methodological foundations of the subject and it's place in the world of knowledge 2) To familiarize student with the major landmarks in development of geographic thought at different periods of time.



	M.A.II	IV	XV	Political geography	<ol style="list-style-type: none"> 1) To understand the basic concepts in political geography 2) To enhance awareness o Multi-dimensional nature of geo-political space 3) To make acquaint the students with nature of geographical factors influencing the geopolitical situations in India and world
	M.A.II	IV	XVI	Geography of Tourism	<ol style="list-style-type: none"> 1) Acquiring the knowledge of different tourist places in the world 2) To understand emerging developing tourism industry
					<ol style="list-style-type: none"> 3) To understand the scope and role of tourism in world as well as Indian Economy 4) To familiarize students with tourism industry 5) Encouraging the students to involve in tourism industry
	M.A.II	IV	XIII	Introduction to remote sensing GIS	<ol style="list-style-type: none"> 1) Make students familiar with concept of Remote sensing and its use in present Geographic studies 2) To give detailed knowledge about aerial photography 3) Make students familiar with concept of Geographical Information System



	M.A.II	IV	XIV	Application of Remote sensing	<ol style="list-style-type: none"> 1) Make students familiar with concept of Remote sensing and its use in present geographic studies 2) To give detailed knowledge about aerial photography 3) Make student familiar with concept of geographical information system
	M.A.II	IV	XV	Research Methodology and project report	<ol style="list-style-type: none"> 1) Student will explain field work, techniques of data collection and its presentation 2) Students will describe importance of sampling in research and skill of report writing 3) Students will express knowledge about format of project report

Department of Physical Education

Sr. No	Course Name	Semester	Paper No	Paper Name	Subject Outcomes
1	B.A.I	I	I	Principles of Physical Education	-To understand meaning, need and importance of physical education To understand the Growth and development.
		II	II	Principles of Physical Education	-To understand the body system and play theory -To understand the aim and objectives of physical education
2	B.A.II	III	III	History of Physical Education	-To acquire knowledge about Ancient Olympic movement -To acquire knowledge about Different Institution for training in Physical Education in India



			IV	Organization & Administration in Physical Education & Sports	-To understand the meaning, importance and scope of organization, administration and sports management in physical education. - To understand office Management, Record, Register & Budget.
		IV	V	History of Physical Education	-To acquire knowledge about Modern Olympic movement -To acquire knowledge about Different Institution for training in Physical Education in India
			VI	Organization & Administration in Physical Education & Sports	-To understand the meaning, importance and scope of organization, administration and sports management in physical education. - To understand office Management, Record, Register & Budget.
3	B.A.II I	V	VII	Health Education	- Health education strives to provide accurate and relevant information about various health topics. knowledge and understanding of health issues, including factors that contribute to good health and those that can lead to illness or disease. -The ultimate goal of health education is to influence positive health behaviors. This might include encouraging individuals to adopt healthier eating habits, engage in regular physical activity, practice safe sex, avoid tobacco and substance use, and take preventive measures to reduce the risk of various diseases.
			VIII	Rhythms and Recreation in Physical Education	-Incorporating a variety of rhythmic activities and recreational games into physical education curricula can lead to a well-rounded set of outcomes that benefit students physically, mentally, and socially
			IX	Applied Yoga	-The combination of physical movement, breath control, and meditation in yoga can have a calming effect on the nervous system, helping to reduce stress and anxiety.



			X	Anatomy Physiology and Physiology Of Exercise	-knowledge of the human body's structure and function to applications in healthcare, sports, research, and the development of medical interventions.
			XI	diet and Hygiene	-It seems like your question is a bit unclear. If you're asking about the outcomes of maintaining a healthy diet and good hygiene practices, a be happy to provide some information
		VI	XII	Health Education	-Health education aims to boost individuals' confidence in their ability to make healthy choices and manage their own health. When people feel empowered to take control of their well-being, they are more likely to engage in health-promoting behaviors. - Effective health education programs can lead to measurable behavioral changes. For instance, participants might start eating more fruits and vegetables, exercising regularly, or using seat belts consistently after receiving relevant education.
			XIII	Rhythms and Recreation in Physical Education	-Recreation helping students manage stress and anxiety. Recreation also provides an outlet for relaxation and enjoyment.
			XIV	Applied Yoga	-Yoga involves a range of stretching and poses that can gradually increase flexibility and range of motion in your joints and muscles.
			XV	Anatomy Physiology and Physiology Of Exercise	-Knowledge of exercise physiology helps in designing personalized and effective training programs that target specific fitness goals.
			XVI	diet and Hygiene	-Both a healthy diet and good hygiene practices play crucial roles in maintaining your overall health and well-being. -They are interconnected and contribute to a higher quality of life and a reduced risk of various health issues.



Department of Psychology

Sr. No	Course Name	Sem. No.	Paper No.	Paper Name	Course Outcome
1	B.A.I	I	I	Introduction to Psychology	1) Students can apply the psychological principles in their real life situations and to learn more effectively about life span development. 2) Students to develop better physical, social, cognitive and personality perspectives. 3) Students opting for competitive examinations are benefited
		II	II	Fundamentals of Psychology	1) Students can apply the psychological principles in their real life situations and to learn more effectively about life span development. 2) Students to develop better physical, social, cognitive and personality perspectives. 3) Students opting for competitive examinations are benefited.
2	B.A.II	III	III	Psychology of Adolescent and early Adulthood	To students able to familiarize with the basic developmental process of Adolescence to Early Adulthood. 2. Students understand with the knowledge of physical, Cognitive, Social and Personality development to the relating Adolescence and Early Adulthood stages of life..
			IV	Psychology of Adjustment	Students able to understand Psychological adjustment to modern life. 2) Students learn adjustment in various life situations in 21 Century
		IV	V	Psychology of Middle and Late Adulthood	Student know the basic developmental process of middle and late adulthood 2) Students learn knowledge of physical, cognitive social and personality development middle and late adulthood.
			VI	Psychology of Modern Life	1) Students Learn Psychological applications in modern life. 2) Student Know the Presses of Psychological interpersonal, intimate relationship with Health and work.
	IDS	III	IDS	Modern Logic (IDS) Propositional Logic	1. Students will be able to examine Propositional Logic 2. Understand various Modern Logic & symbolic logic
		IV	IDS	Modern Logic (IDS) Predicate Logic	1. Students will be able to examine Predicate Logic 2. Understand various Modern Logic & symbolic logic.



	B.A.I	I	I	Outlines of Indian	To acceptance of self and others with tolerance and understanding.
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					philosophy	<p>II) To inspire the student to confront the philosophical problems implicit in the experience of self, others and the universe, together with the question of their relations to ultimate transcendence (God and immortality)</p> <p>III) Clarity and coherence in explaining philosophical basic concepts and theories.</p> <p>IV) Ability to criticize assumptions and arguments.</p>
			I	II	Outlines of Indian philosophy	<p>To acceptance of self and others with tolerance and understanding.</p> <p>II) To inspire the student to confront the philosophical problems implicit in the experience of self, others and the universe, together with the question of their relations to ultimate transcendence (God and immortality)</p> <p>III) Clarity and coherence in explaining philosophical basic concepts and theories.</p> <p>IV) Ability to criticize assumptions and arguments.</p>
		B.A.II	III	III	Indian Ethics	<p>i) To acquaint the students with the Indian and Western perspectives on good life. ii) To create an awareness about philosophical significance of some of the contemporary problems/issues.</p>
			III	IV	Ancient Greek philosophy	<p>i) To acquaint the students with the Indian and Western perspectives on good life.</p> <p>ii) To create an awareness about philosophical significance of some of the contemporary problems/issues.</p>
			IV	V	Western Ethics	<p>i) To acquaint the students with the Indian and Western perspectives on good life.</p> <p>ii) To create an awareness about philosophical significance of some of the contemporary problems/issues..</p>
			IV	VI	Modern Western philosophy	<p>i) To acquaint the students with the Indian and Western perspectives on good life.</p> <p>ii) To create an awareness about philosophical significance of some of the contemporary problems/issues.</p>



Department of Music

Sr. No.	Course Name	Semester	Paper No.	Paper Name	Subject Outcomes
1	B.A.I	I	I	-	1) Introduction to the basic Principles of Music as sound, rhythm. 2) Introduction to classical ragas, taalās. 3) Introduction to the life sketch of Pt. V. N. Bhatkhande.
		II	II	-	1) Introduction to the basic Principles of Music as sound, rhythm. 2) Introduction to classical ragas, taalās. 3) Introduction to the life sketch of Pt. V. D. Paluskar.
2	B.A.II	III	III	-	1) The three aspects of Naad. 2) Musical forms as classical and light classical. 3) Ragas and talās. 4) Introduction to the life sketch of Swami Haridas
			IV	-	1) The three aspects of Naad. 2) Musical forms as classical and light classical. 3) Ragas and talās. 4) Introduction to the life sketch of Tansen
		IV	V	-	1) The three aspects of Naad. 2) Musical forms as classical and light classical. 3) Ragas and talās. 4) Introduction to Musical forms life sketch of Kishori Amonkar
			VI	-	1) The three aspects of Naad. 2) Musical forms as classical and light classical. 3) Ragas and talās. 4) Introduction to the life sketch of Lata Mangeshkar
3	B.A.III	V	VII	-	1) Development of musical abilities. 2) History of Indian Music 3) Ragas and talās



			VIII	-	1) Understanding the importance of music. 2) Introduction to Smruti, Gram, Murchana etc. 3) Ragas and talas
			IX	-	1) Loksangeet
					2) Ragas and talas
			X	-	1) Life sketch of Pt. Bhimsen Joshi, Pt. Ravi Shankar
			XI	-	1) Granth and its contribution to music. 2) Ragas and talas
		VI	XII	-	1) Karnatic music. 2) Ragas and talas - practical.
			XIII	-	1) Western music. 2) Ragas and talas - practical.
			XIV	-	1) Prasar Madhyame – T.V., Radio, Internet, Computer etc. 2) Ragas and talas - practical.
			XV	-	1) Musical gharani and its contribution. 2) Ragas and talas - PPT presentation.
			XVI	-	1) History of Bhakti sangeet. 2) Ragas and talas - Concert Paper.



Department of Chemistry

Sr. No.	Course	Semester	Paper No	Paper Name	Course Outcome
1.	B.Sc.- I	I	I	Physical Chemistry	Students are expected to learn about - i) Understanding and significance of rates of Chemical Reactions ii) Understanding to second Law of Thermodynamics and Carnot's cycle etc.
			II	Inorganic Chemistry	Students are expected to understand about- i) The atomic structure and periodic properties of elements, types of chemical bonding ii) Basic knowledge about VBT and MOT as well as key knowledge of Ionic bonding and crystal structure
		II	III	Organic Chemistry	Students are expected to - i) To able to think and predict the possible mechanism of various critical organic reactions. ii) Able to imagine 3D structure of organic molecules. iii) Understand the basics of bonding and able to draw correct structure of any organic molecule and comment on its stability
			IV	Analytical Chemistry	Students can - i) Understand the basic elements present in the organic compounds also able to understand the qualitative analysis methods of C, H, N, S and halogen ii) Easily understand the basic principle and classification of chromatography and also able to know paper chromatography and its applications.
2.	B.Sc.- II	III	V	Organic Chemistry	Students can get to know about - i) various spectroscopic methods



					and knowledge about the stereochemistry ii) Various synthetic approaches for Alcohols, Phenols, Aldehydes, Ketones.
			VI	Inorganic Chemistry	Students can get to know about - i) Knowledge of Co-ordination Chemistry, complex formation, Werner's Theory, concept of chelation etc. ii) Lewis concept of Acid and Bases, HSAB concept, Pearson's concept, study of <i>d-block</i> elements <i>etc.</i>
		IV	VII	Physical Chemistry	Students can get to know about - i) Various Laws of thermodynamics, study of electrochemical reactions, terms involved in electrochemistry. ii) Chemistry of solid state substances, distributions Law, and related numerical problems
			VIII	Analytical & Industrial Inorganic Chemistry	Students can get to know about- i) Details knowledge of volumetric and gravimetric analysis, various terms involved in volumetric analysis etc. ii) Knowledge of synthesis of industrially important heavy chemicals, metallurgy meaning, steps in metallurgy <i>etc.</i>
			AECC	Business English	Students can get- i) Basic concept of English communication, grammatical correction in sentence construction, speaking of English, improvement in English speaking through syllabi



			DSE1A	Physical Chemistry	Students can get to know about- i) Introduction to Quantum mechanics, Gibb's phase rule, phase diagram <i>etc.</i>
3.	B.Sc.-III	V			ii) Basic understanding of EMF, reduction potentials, oxidation potentials, knowledge about various electrode and photochemistry <i>etc.</i>
			DSE-2A	Inorganic Chemistry	Students can get to know about- i) Bonding in complexes, detail knowledge of CFT, MOT and their applications in complex study ii) Basic concept of Nuclear Chemistry, theory of catalysis, and details of fertilizers and their role in plant growth <i>etc.</i>
			DSE-3A	Organic Chemistry	Students can get to know about- i) Detail study of various Name reactions, knowledge of organic synthesis. ii)Detail knowledge of various spectroscopic methods such as mass, NMR, IR <i>etc.</i>
			DSE-1B	Physical Chemistry	Students can get to know about- i) Types of Solutions, various spectroscopies such as Raman also vibrational and rotation study of molecules. ii) Detail study of chemical kinetics with examples and thermodynamics <i>etc.</i>



		VI	DSE2B	Inorganic Chemistry	Students can get to know about- i) Introduction and study of f-block elements, concept of metal and semiconductor and their applications. ii) Introduction and detail study of corrosion and passivity and also the knowledge of metal carbonyl involved structural chemistry <i>etc.</i>
			DSE-	Organic Chemistry	Students can get to know

			3B		about- i) Study of various Heterocyclic Compounds, carbohydrates <i>etc</i> ii) Introduction to Hormones and Vitamins, and also the study of various Pharmaceuticals, Agrochemicals <i>etc.</i>
1	M.Sc. I	I	DSC-1	Physical Chemistry-I	<ul style="list-style-type: none"> • Thorough knowledge of macroscopic as well as microscopic system. • Understand the idea of wave function. • Applications to conjugated systems, zero-point energy and quantum tunneling. • Learn to calculate excess thermodynamic properties.
2			DSC-2	Organic Chemistry-I	<ul style="list-style-type: none"> • Understand the reactions and mechanisms with knowledge of stereochemistry. • Study the stability, structure and reactions of reactive intermediate.



3			DSE-1	A.Inorganic Chemistry-I	<ul style="list-style-type: none"> • Students learn chemistry of transition element. • Learn VSEPR theory and properties of semiconductors with applications. • Students should know radioactive decay and techniques like GM counter, tracer technique. • Aware about applications of radioisotope.
4			RM	Research Methodology	<ul style="list-style-type: none"> • Student learn basic concept of referencing. • Able to understand data

					<p>interpretation.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Aware about concept of plagiarism and selfplagiarism <input type="checkbox"/> Students will understand the principle of NMR spectroscopy and analysis of spectral data.
				Practicals	
			DSC-1P	Practical-I	<ul style="list-style-type: none"> <input type="checkbox"/> Students learn to apply theoretical knowledge for study kinetics phenomenon, determination of radius, as well as adsorption. <input type="checkbox"/> Students getting skill to handle instruments like Conductivity meter, Refractometer, Potentiometer and pH meter.
			DSC-2P	Practical-II	<ul style="list-style-type: none"> <input type="checkbox"/> Students are made aware of safety techniques and handling of chemicals.



					<ul style="list-style-type: none"> <input type="checkbox"/> In qualitative analysis students getting skillful hand in separation and identification of two component mixture. <input type="checkbox"/> Students learn vacuum and steam distillation technique.
			DSE-1P	Practical-III	<ul style="list-style-type: none"> <input type="checkbox"/> In ore and alloy analysis student getting tremendous knowledge about oxidation and reduction phenomenon. <input type="checkbox"/> Greener approach in preparation and purification of inorganic compounds.

1	M.Sc. I	II	DSC-3	Physical Chemistry-II	<ul style="list-style-type: none"> <input type="checkbox"/> Students learn photochemical reaction with phenomenon like fluorescence and phosphorescence. <input type="checkbox"/> Students learn evaluation of mean activity coefficients of ions from E.M.F. data. <input type="checkbox"/> Study fractional and higher order kinetics. <input type="checkbox"/> Study kinetics of polymerization and determination of molecular weight from different methods.
2			DSC-4	Organic Chemistry-II	<ul style="list-style-type: none"> <input type="checkbox"/> Student confronted with oxidation and reduction reactions using knowledge oxidizing and reducing agents.



					<input type="checkbox"/> Learn the Electrophilic and Nucleophilic substitution reactions of aromatic compound.
3			DSE-2	Inorganic Chemistry-II	<input type="checkbox"/> Learn properties of transition and inner transition elements. <input type="checkbox"/> Learn about extraction and applications of metals. <input type="checkbox"/> Getting awareness about role of inorganic chemistry in biological processes at inter and intracellular level.
4			OJT	OJT/In-house Project/ Internship/ Apprenticeship	<input type="checkbox"/> Students get awareness about efficiency in specific industries. <input type="checkbox"/> Students aware about adequate knowledge about industrial processes.

				Practicals	
			DSC-3P	Practical IV	<input type="checkbox"/> Understand kinetics of reaction by differential methods. <input type="checkbox"/> Students getting skill to handle instruments like Polarimeter, Refractometer, and Potentiometer to see solute and solvent behavior in aqueous phenomenon.
			DSC-4P	Practical V	<input type="checkbox"/> Learn one and two stage preparations.



					<ul style="list-style-type: none"> <input type="checkbox"/> Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction. <input type="checkbox"/> Students learn to keep work-up procedure more eco-friendly.
			DSE-2P	Practical VI	<ul style="list-style-type: none"> <input type="checkbox"/> Students getting awareness of green chemistry and role of green chemistry in pollution reduction. <input type="checkbox"/> Apply greener approach while ore and alloy analysis. <input type="checkbox"/> Learn to determine purity from prepared inorganic compound.
M.Sc. II (Analytical Chemistry - III)					
1	M.Sc. II (Analytical Chemistry)	III	HCT-3.1	Advanced Separation Techniques	<ul style="list-style-type: none"> <input type="checkbox"/> Students confronted with advanced chromatographic techniques. <input type="checkbox"/> Learn dialysis and
					<p>filtration methods and applications.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Students getting enough knowledge about solvent extraction processes and role of equilibrium for solvation.
2			HCT-3.2	Instrumental Methods of Analysis-I	<ul style="list-style-type: none"> <input type="checkbox"/> Students learn thermal techniques like TGA, DTA and DSC. <input type="checkbox"/> Getting awareness about radio analytical techniques.



					<ul style="list-style-type: none"> <input type="checkbox"/> Getting knowledge about titration methods like radiometric titration, High frequency titration, amperometric titration, electro gravimetric titrations.
3			SCT-3.1	Applied Analytical Chemistry	<ul style="list-style-type: none"> <input type="checkbox"/> Student getting awareness about analysis of agricultural feeds, soil as well as fertilizers and pesticides. <input type="checkbox"/> Students confronted with key role of chemistry in analysis of mineral, ore and alloy as well as cosmetic product analysis
4			OET-3.1	Analytical Spectroscopy	<ul style="list-style-type: none"> <input type="checkbox"/> Understand various spectroscopic methods for structure determination. <input type="checkbox"/> Explain instrumentations and methodology in spectroscopy like Raman spectroscopy, Mossbauer spectroscopy. <input type="checkbox"/> Students confronted with electron spin resonance techniques like SEM, STM, and AFM

				Seminar/ Tutorial/Industrial Visit / Field Tour	<ul style="list-style-type: none"> <input type="checkbox"/> Seminar activity increases the presentation and discussion skills in students. <input type="checkbox"/> Helps to improve communication skill.
				Practicals	
			HCP-3.1	Physical Analytical Chemistry	<ul style="list-style-type: none"> <input type="checkbox"/> Learn method to prepare solutions at millimolar and ppm scale



					<ul style="list-style-type: none"> □ Students getting skill to handle instruments like spectrophotometer, colorimeter, and pH meter.
			HCP-3.2	Inorganic Analytical Chemistry	<ul style="list-style-type: none"> □ Confronted with laboratory procedures like estimation of inorganic content from fertilizers and dairy products. □ Learn application of electrochemistry by estimating dissociation constant potentiometrically
			SCP-3.1	Organic Analytical Chemistry	<ul style="list-style-type: none"> □ The course includes synthesis of some derivatives and organic compounds, which will help them while working in research laboratory in future. □ Analysis of drugs, chili powder, and moisture content determination from food sample
			OEP-3.1	Spectral Problems	<ul style="list-style-type: none"> □ Learn to apply theoretical knowledge of spectroscopic techniques like IR, NMR, ¹³C-NMR, Mass spectrometry etc. □ Learn to interpret data of thermogram, differential

					thermogram and DSC thermogram.
1	M.Sc. II (Analytical Chemistry)	IV	HCT-4.1	Advanced Analytical Techniques	<ul style="list-style-type: none"> □ Confronted with hyphenated techniques like GC-MS, LC-MS and various applications.



					<ul style="list-style-type: none"> <input type="checkbox"/> Learn technology used in automated system and flow injection analysis. <input type="checkbox"/> Able to solve numerical problems on chromatography.
2			HCT-4.2	Instrumental Methods of Analysis-II	<ul style="list-style-type: none"> <input type="checkbox"/> Students getting thorough knowledge about X-ray methods, Nephelometry, turbidometry, flame photometry and emission spectroscopy. <input type="checkbox"/> Learn to analyze surface characterization by spectroscopy.
			HCT-4.3	Biochemical and Food Analysis	<ul style="list-style-type: none"> <input type="checkbox"/> Understand various terms in food analysis techniques and methods, forensicscience and drug substances. <input type="checkbox"/> Able to solve numerical problems on analysis food and drug substances. <input type="checkbox"/> Learn to analyze drug samples to check out for impurities and contaminants.
4			SCT-4.2	Pharmaceutical Analysis	<ul style="list-style-type: none"> <input type="checkbox"/> Learn theory to estimate moisture from biological sample by using karlfischertitrator. <input type="checkbox"/> Awareness about source of impurities in pharmaceutical materials. <input type="checkbox"/> Learn standardization and quality control
					<p>methods of drug to maintain standard value.</p> <ul style="list-style-type: none"> <input type="checkbox"/> understand various terms in pharmaceutical raw

					material and finished product analysis
				Seminar/ Tutorial/Industrial Visit / Field Tour	<input type="checkbox"/> Seminar activity increases the presentation and discussion skills in students. <input type="checkbox"/> Helps to improve communication skill.
			HCP-4.1	Physical Analytical Chemistry	<input type="checkbox"/> Maintain proper record of analytical data in notebook <input type="checkbox"/> Learn method to prepare solutions at millimolar and ppm scale.
			HCP-4.2	Inorganic Analytical Chemistry	<input type="checkbox"/> To describe basic principles techniques / methods of ore analysis, alloy analysis. <input type="checkbox"/> Determine the capacity of cation and anion exchange resin.
			HCP-4.3	Organic Analytical Chemistry	<input type="checkbox"/> Learn techniques to estimate and determine biological component from food and beverages. <input type="checkbox"/> Students carried out different purification techniques in organic samples like recrystallization, distillation, steam distillation and extraction.
			SCP-4.1/4.2	Project Work/ In plant Training	<input type="checkbox"/> Students getting awareness about research field. <input type="checkbox"/> Insight in to referencing and literature review.

**M.Sc. II
(Organic Chemistry- III)**



1	M.Sc. II (Organic Chemistry)	III	HCT-3.1	Advanced Organic Chemistry-I	<input type="checkbox"/> Understand various methods for determining reaction mechanism. <input type="checkbox"/> Learn various oxidizing and reducing reagents <input type="checkbox"/> Name reactions with applications
2			HCT-3.2	Chemistry of Bioactive Heterocycles	<input type="checkbox"/> Understand the stereochemistry, reactivity and conformational effects of six membered rings. <input type="checkbox"/> Understand the stereochemistry, shapes of rings other than six membered rings.
3			SCT-3.1	Photochemistry and Pericyclic Reactions	<input type="checkbox"/> Introduction to pericyclic and photochemical reactions. <input type="checkbox"/> Understanding of how light energy influences chemical reactions. <input type="checkbox"/> Students will aware of principles of chemical reactions including cycloadditions. <input type="checkbox"/>
4			OET-3.1	Applied Organic Chemistry	<input type="checkbox"/> Learn the basics of carbohydrates, its physical properties and application. <input type="checkbox"/> Learn Concept of supramolecular chemistry <input type="checkbox"/> Application of supramolecular catalysis.
				Practical	
			HCP-3.1	Organic Ternary mixtures	<input type="checkbox"/> In qualitative analysis students getting skillful hand in separation and identification of three
					component mixture.



					<ul style="list-style-type: none"> <input type="checkbox"/> Understand the separation technique of ternary mixture and the analysis of separated components. <input type="checkbox"/> Students might explore principles of extractions of ternary mixtures.
			HCP-3.2	Organic Preparations	<ul style="list-style-type: none"> <input type="checkbox"/> To provide laboratory experience to the students by performing experiments based on topics taught in theory. <input type="checkbox"/> Knowledge to build up small scale industry for developing various products.
			SCP-3.1	Spectral analysis	<ul style="list-style-type: none"> <input type="checkbox"/> Learn to apply theoretical knowledge of spectroscopic techniques like IR, NMR, ¹³C-NMR, Mass spectrometry etc. <input type="checkbox"/> Learn and become proficient in interpretation of spectral data.
			OEP-3.1	Column Chromatography	<ul style="list-style-type: none"> <input type="checkbox"/> Students confronted with advanced column chromatographic techniques. <input type="checkbox"/> Students will aware factors affecting on retention time and selectivity.
			OEP-3.2	Review Work	
1	M.Sc. II (Organic Chmistry)	IV	HCT-4.1	Advanced Organic Chemistry-II	<ul style="list-style-type: none"> <input type="checkbox"/> Students aware about protecting and deprotecting concept in organic synthesis.



					☐
2			HCT-4.2	Modern Organic Chemistry	<ul style="list-style-type: none"> ☐ Study asymmetric synthesis of chiral compound. ☐ Students get proficiency to tackle multicomponent reactions. ☐ Aware about applications of metal-organic framework.
3			HCT-4.3	Chemistry of Natural Products	<ul style="list-style-type: none"> ☐ Understand various extraction techniques for isolation of natural product. ☐ Learn purification of natural product and its characterization by different spectroscopic methods.
4			SCT-4.1	Medicinal Chemistry	<ul style="list-style-type: none"> ☐ Confronted with various drug used in medicinal chemistry. ☐ Students gain skills in rational drug design ☐ Getting awareness about drug interactions with biological system.
				Practical	
			HCP-4.1	Organic Synthesis	<ul style="list-style-type: none"> ☐ Understand different name reactions using green method. ☐ Learn monitoring of reactions, purification and characterization of products.
			HCP-4.2	Organic chemistry	<ul style="list-style-type: none"> ☐ Student getting practical techniques to isolate constituents from natural sources. ☐ Understanding the principles behind



					choosing appropriate solvents.
			HCP-4.3	Project work/ In plant training	<input type="checkbox"/> Students getting awareness about research field. <input type="checkbox"/> Insight in to referencing and literature review.
			SCP408	Pharmaceutical Formulation/ Medicinal chemistry	<input type="checkbox"/> Confronted with various drug used in medicinal chemistry. <input type="checkbox"/> Students gain skills in rational drug design <input type="checkbox"/> Getting awareness about drug interactions with biological system.
			T4	Seminar/ Tutorial/Industrial visit/ field Tour	<input type="checkbox"/> Seminar activity increases the presentation and discussion skills in students. <input type="checkbox"/> Helps to improve communication skill.

Department of Microbiology

Sr. No.	Course	Semester	Paper No.	Paper Name	Outcome
1.	B.Sc. I	I	I	Introduction to Microbiology & Microbial diversity	Have developed good knowledge about the development of the discipline of microbiology & contributions made by various scientists
			II	Cell cytology & Microbial Techniques	Have developed good understanding about the cellular organization and techniques to observe microorganisms
		II	III	Microbial Metabolism & cultivation	1. Developed good understanding of basic biomolecules like DNA, RNA, Proteins, carbohydrates etc. 2. Have learned basic thing necessary to cultivate/grow microorganisms



			IV	Applied Microbiology	Got understanding of various applied branches of microbiology like Air microbiology, Water microbiology
2	B.Sc. II	III	V	Bacterial cytology & Physiology	Have developed good understanding of bacterial cell structure, various parts/components & their ultra-structures
			VI	Bacterial Genetics	1. Understand genome organization in microorganisms 2. Got good knowledge about basic life related processes like replication
		IV	VII	Immunology & Medical Microbiology	1. Have developed understanding of Immunity, Antigen, Antibody 2. Got good understanding of pathogen, diseases diagnostic measures/methods
			VIII	Industrial Microbiology	1. Acquired basic knowledge regarding different microbial processes in industries. 2. Understood concept of fermentation
3	B.Sc. III	V	IX	Virology	1. Understood what viruses are and their structure, life cycle 2. Gained good knowledge of various plant & animal viruses
			X	Agricultural Microbiology	1. Have developed basic understanding of role of microorganisms in agricultural processes.

					2. Understood various elemental cycles and their importance
			XI	Immunology	1. Developed knowledge about different hypersensitivity types & related diseases 2. Understand concept of Monoclonal antibody
			XII	Industrial Microbiology	1. Developed knowledge of different types fermentations 2. Aquired knowledge of various products produced from fermentation process
		VI	XIII	Microbial Genetics	1. Understand genetic organization in microbes 2. Able to understand three basic genetic material transfer processes 3. Understood basics of Bioinformatics



			IVX	Microbial Biochemistry	<ol style="list-style-type: none"> 1. Students understood basic concepts involved in biochemistry of microorganisms. 2. Various pathways that are very basic in every living being.
			XIV	Clinical Microbiology	<ol style="list-style-type: none"> 1. Got good knowledge regarding chemotherapeutic agents, their types & mechanisms of action 2. Understood types of biomedical waste & their disposal
			XVI	Environmental Microbiology	<ol style="list-style-type: none"> 1. Have developed good knowledge regarding different types of environments and habitats 2. Understand importance of BOD/COD 3. Developed practical skills to calculate BOD/COD values
4.	M.Sc. I	I	HCT 1.1	Cytology & Taxonomy of Microorganisms	<ol style="list-style-type: none"> 1. Have developed knowledge regarding diversity of organisms & need of taxonomy. 2. Learned about various criterion used in taxonomy 3. Acquired good knowledge of microbial classification
			HCT 1.2	Microbial chemistry, Physiology & Enzymology	<ol style="list-style-type: none"> 1. Understood basic biological chemistry of organisms 2. Learned about enzymes, their structure & their role in metabolic processes.
			HCT 1.3	Recent trends in Virology	<ol style="list-style-type: none"> 1. Understood Virus, their structure, various techniques for their detection 2. Understood recent developments

					in the field of virology
			SCT 1.1	Research Methodology & Scientific writing	<ol style="list-style-type: none"> 1. Acquired knowledge about research ,its planning & execution 2. Learned basic concepts of research, types of scientific documents & how to write scientific papers
		II	HCT 2.1	Microbial Genetics	<ol style="list-style-type: none"> 1. Acquired knowledge of gene, their expression and regulation 2. Understood concept of Operon
			HCT 2.2	Microbial Ecology & Diversity	<p>Good understanding of microbial diversity</p> <p>Understood microbial interactions with ecosystem</p>
			SCT 2.2	Medical Microbiology	<ol style="list-style-type: none"> 1. Good knowledge of normal flora of human body 2. Understood components of Immune system



			OET 2.1	Bioinformatics & Biostatistics	<ol style="list-style-type: none"> 1. Have acquired knowledge of various databases & basic tools used in bioinformatics. 2. Able to search literature data for their project work 3. Understood basic concepts of statistics
5.	M.Sc. II	III	HCT 3.1	Molecular Biology & Genetic Engineering	<ol style="list-style-type: none"> 1. Understood biology at molecular level. 2. Aquired knowledge of various tools used in GE 3. Understood the process of making rDNA
			HCT 3.2	Bioprocess Technology & Fermentation Technology	<ol style="list-style-type: none"> 1. Have learned various biological processes & their manipulation for the human benefits. 2. Understood importance of microorganisms in fermenting various products
			SCT 3.3A	Immunology & Immunotechnology	<ol style="list-style-type: none"> 1. Understood Immunity, Immune system & Immune responses. 2. Aquired various basic immunological techniques.
			OET 3.4A	Agricultural Microbiology	Developed understanding of multifarious roles of microorganisms in soil, in association with plants.
		IV	HCT 4.1	Pharmaceutical Microbiology	<ol style="list-style-type: none"> 1. Aquired knowledge of antimicrobial agents, their nature & mechanism of action 2. Aquired skills for testing pharmaceutical products for their efficiency & safety
			HCT 4.2	Food & Dairy Microbiology	<ol style="list-style-type: none"> 1. Have developed role of microbes in making & spoilage of foods. 2. Aquired knowledge of various processes of dairy industries & role of microbes in making dairy products
			HCT 4.3	Principles of Bioinstrumentation & Techniques	<ol style="list-style-type: none"> 1. Developed understanding of various techniques 2. Understood principles of various instruments
			SCT 4.1	Healthcare & Diagnostic Microbiology	<ol style="list-style-type: none"> 1. Have acquired good understanding of practical aspects of collection of clinical samples, their transport 2. Good understanding of antibiotic sensitivity



DEPARTMENT OF PHYSICS

Sr. No.	COURSE	SEMISTER	PAPER NO.	PAPER NAME	COURSE OUTCOMES
1	B.Sc.-I	SEM-I	PAPER NO-I	MECHANICS AND PROPERTIES OF MATTER	<ol style="list-style-type: none"> 1. Understanding the concept of Moment of Inertia and applying them in calculations of the moment of inertia of various systems. 2. Understand the physics and mathematics of oscillations and to solve the equations of motion for simple harmonic and damped oscillators 3. Understand the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them. 4. Understand the concepts of elasticity and be able to perform calculations using them. 5. Understand the concepts of surface tension and viscosity and be able to perform calculations using them. 6. Understand the concepts of viscosity & fluid dynamics and its application in real life problems. 7. Demonstrate quantitative problem solving skills in all the topics covered.



2	B.Sc.-I	SEM-I	PAPER NO-II	OPTICS	<p>1. Understand technical applications of simple optical instruments.</p> <p>2. Understand and explain the different optical method of testing and measuring of various physical parameters</p> <p>3. Understand Fermat's principle, explain about different aberrations in lenses and discuss the method to minimize them.</p> <p>4. Understand the types of eyepieces and construction and working of spectrometer and</p>
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					<p>optical bench for determining various optical values.</p> <p>5. Understand the phenomenon of interference of light and its formation in thin film, Newton's ring, wedge shaped film etc. due to division of amplitude.</p> <p>6. Explain Schuster method, Distinguish between diffraction and interference patterns, prism and grating spectra</p> <p>7. Comprehended the basic principle of laser and its parts, the construction and working of He-Ne and Ruby laser.</p> <p>8. Solve problems using suitable assumptions and formulae as well as able to assess the results.</p>
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3	B.Sc.-I	SEM-II	PAPER NO-III	HEAT AND THERMODYNAMICS	<ol style="list-style-type: none"> 1. Determination of Coefficient of Viscosity, Thermal Conductivity and Diffusion. 2. Understand Liquefaction of gases by various methods and Properties of Liquid He-II. 3. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process. 4. Analyse the heat engines and calculate thermal efficiency. 5. Analyze the refrigerators and calculate coefficient of performance. 6. Understand property 'entropy' and derive some thermo dynamical relations using entropy concept.
4	B.Sc.-I	SEM-II	PAPER NO-IV	ELECTRICITY , MAGNETISM AND BASIC ELECTRONICS	<ol style="list-style-type: none"> 1. Understand the concept of Varying Current and applying them in charging and discharging of capacitor and time constant. 2. Understand the concept of AC circuits and different AC bridges. 3. Understand the concepts Magnetostatics
					<p>and applying then to determine magnetic induction and also understand Ballistic Galvanometer theory and its constants.</p> <ol style="list-style-type: none"> 4. Understand the rectifiers specially Bridge rectifier with filters also different wave shaping circuits. 5. Understand BJT include its output characteristics under CE and CB mode with application of transistor amplifier.



5	B.Sc.-II	SEM-III	PAPER NO-V	General Physics and Sound	<ol style="list-style-type: none"> 1. Understand the physics and mathematics basic concepts of vector to solve the problems. 2. Understand the concepts of processional motions and various pendulums and its application in real life problems. 3. Understand the concepts of elasticity and be able to perform calculations using them. 4. Understand the concepts of surface tension and viscosity and be able to perform calculations using them. 5. Understand the physics behind in sound and study basic applications of sound instruments.
6	B.Sc.-II	SEM-III	PAPER NO-VI	ELECTRONIC S	<ol style="list-style-type: none"> 1. Understand the concept of transistor and various constructions like BJT include its output characteristics under CE and CB mode



					<p>with application of transistor amplifier.</p> <ol style="list-style-type: none"> 2. Understand the concepts of oscillators and its types with applications. 3. Understand the concept of transistor and constructions like UJT include its output characteristics application of transistor amplifier. 4. Understand the physics behind in various instruments and study basic applications of instruments in daily life. 5. Understand the concept of regulator power supply and various its types.
7	B.Sc.-II	SEM-IV	PAPER NO-VII	OPTICS	<ol style="list-style-type: none"> 1. Understand technical applications of simple optical instruments and behind various theoretical concepts. 2. Understand and explain the different optical phenomena of light like interference, diffraction and polarization. 3. Understand Fermat's principle, explain about different aberrations in lenses and discuss the method to minimize them. 4. Understand the phenomenon of interference of light and its formation in thin film, Newton's ring, wedge shaped film etc. due to division of amplitude.



					5. Understand the theory of physics behind the fiber optics communication and its
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					advantages.
8	B.Sc.-II	SEM-IV	PAPER NO-VIII	MODERN PHYSICS	<ol style="list-style-type: none"> 1. Understand the theoretical modern physics concepts and theories like theory of relativity, mass energy relations, and twin paradox 2. Determination of matter waves by physics instruments and study the concept of De-Broglie's hypothesis 3. Understand the laws of Compton effect with experimental verification. 4. Analyze the various nuclear energy models with their principles.



9	B.Sc.-III	SEM-V	PAPER NO-IX	MATHEMATICAL PHYSICS & STATISTICAL PHYSICS	<ol style="list-style-type: none"> 1. Determination of vector theorems and introduction to partial differential equation and orthogonal curvilinear coordinates. 2. Understand the basic concepts in statistical physics with classically MB statics. 3. BE and FD statics studied with quantum mechanics 4. To apply the mathematical physics concepts for solving problems of quantum physics.
10	B.Sc.-III	SEM-V	PAPER NO-X	SOLID STATE PHYSICS	<ol style="list-style-type: none"> 1. Understand the structure of solid in atomic level by using some instruments. 2. Determination the various crystal structure by using XRD and study its characteristics. 3. Understand the free electron theory and band theory of solid. 4. Analyze the behavior of solid in external magnetic field and study types of magnetic materials. 5. To study the application of
					superconductors.



11	B.Sc.-III	SEM-V	PAPER NO-XI	CLASSICAL MECHANICS	<ol style="list-style-type: none"> 1. Determination the equations of particles and systems of particles with application of Newton's laws of motions. 2. Understand the Lagranges formulation with D' Alembert's principles and applications of Lagrange's equations with solving problems. 3. Understand the theory of moving coordinate system and techniques of calculus variation. 4. Understand the concept of coupled oscillations. 5. Analyze the motion of rigid body.
12	B.Sc.-III	SEM-V	PAPER NO-XII	NUCLEAR PHYSICS	<ol style="list-style-type: none"> 1. To study nuclear structure and properties with nuclear reactions. 2. Understand the particles accelerator and nuclear radiation detectors. 3. To study the nuclear energy level and theory of elementary particles.
13	B.Sc.-III	SEM-V	PAPER NO-XIII	SKILL ENHANCEMENT COURSE	<ol style="list-style-type: none"> 1. To study of basic practices of thin film deposition. 2. Understand the various characterizations techniques. 3. To adopt the skill of laboratory safety and disaster management. 4. To study the various energy resources and its impact on environments. 5. To study the various applications of physics in medical field.
14	B.Sc.-III	SEM-VI	PAPER	ELECTRODY	1.To study the electrostatics and charge



			NO-XIV	NAMICS	<p>particle dynamics.</p> <p>2. To study time varying fields with its applications as self inductance and mutual inductance.</p> <p>3. To study the Maxwell's Equations with its physical significance.</p> <p>4. To study the electromagnetic waves with reflection and refraction.</p>
15	B.Sc.-III	SEM-VI	PAPER NO-XV	MATERIAL SCINECE	<p>1. To study various material and their properties.</p> <p>2. To study different material likes polymer, ceramics and composite materials with their composition and applications.</p> <p>3. To study the introduction of nano-science and nonmaterial's</p>
16	B.Sc.-III	SEM-VI	PAPER NO-XVI	ATOMIC PHYSICS, MOLECULAR PHYSICS AND QUANTUM MECHANICS	<p>1. To study the atomic spectra with alkali metals.</p> <p>2. Understand the selection rules and intensity rules.</p> <p>3. To study the anomalous Zeeman effect, paschen Back effect, stark effect with solving their problems.</p> <p>4. To study the characteristics properties of Raman lines and classical theory of Raman effect.</p> <p>5. Understand the physical significance of ψ and application of Schrödinger's equations and operators.</p>
17	B.Sc.-III	SEM-VI	PAPER NO-XVII	ELECTRONIC S	<p>1. To study block diagram of op-amp its characteristics and applications</p> <p>2. To study functional block diagram of</p>



					<p>IC555 and its applications.</p> <p>3. To study the various electronic devices like SCR, Diac, Traic and display devices and its applications.</p> <p>4. To review of JFET MOSFET devices</p>
1	M.Sc.-I	SEM-I	HCT 1.1	MATHEMATICAL PHYSICS	<p>1. Understanding the concept of complex variable and presentation.</p> <p>2. Understand the analytical functions of complex variables with Cauchy's Integral Theorem.</p> <p>3. Understand the concepts of operator and matrix analysis.</p> <p>4. Understand the concepts of ordinary differential equations.</p> <p>5. Understand Fourier series, Integral transforms and Laplace transform with box and exponential functions.</p>



			HCT 1.2	SOLID STATE PHYSICS	<p>1. Understand the structure of solid in atomic level by using some instruments.</p> <p>2. Determination the various crystal structure by using XRD and study its characteristics.</p> <p>3. Understand the free electron theory and band theory of solid.</p> <p>4. Analyze the behavior of solid in external magnetic field and study types of magnetic materials.</p> <p>5. To study the application of</p>
					superconductors.



			HCT 1.3	ANALOG AND DIGITAL ELECTRONICS	<ol style="list-style-type: none"> 1. Understand the concept of transistor and various constructions like BJT include its output characteristics under CE and CB mode with application of transistor amplifier. 2. Understand the concepts of oscillators and its types with applications. 3. Understand the concept of transistor and constructions like UJT include its output characteristics application of transistor amplifier. 4. Understand the physics behind in various instruments and study basic applications of instruments in daily life. 5. Understand the concept of regulator power supply and various its types.
			SCT 1.1	CLASSICAL MECHANICS	<ol style="list-style-type: none"> 1. Determination the equations of particles and systems of particles with application of Newton's laws of motions. 2. Understand the Lagrange's formulation with D' Alembert's principles and applications of Lagrange's equations with solving problems. 3. Understand the theory of moving coordinate system and



					techniques of calculus variation.
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					4. Understand the concept of coupled oscillations. 5. Analyze the motion of rigid body
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2.	M.Sc.-I	SEM-II	HCT 2.1	QUANTUM MECHANICS	<ol style="list-style-type: none"> 1. Understand the physics and mathematics basic concepts of vector to solve the problems. 2. Understand the concepts of processional motions and various pendulums and its application in real life problems. 3. Understand the concepts of elasticity and be able to perform calculations using them. 4. Understand the concepts of surface tension and viscosity and be able to perform calculations using them. 5. Understand the physics behind in sound and study basic applications of sound instruments.
			HCT 2.2	ELECTRODYNAMICS	<ol style="list-style-type: none"> 1. To study the electrostatics and charge particle dynamics. 2. To study time varying fields with its applications as self inductance and mutual inductance. 3. To study the Maxwell's Equations with its physical significance. 4. To study the electromagnetic waves with reflection and refraction.



			SCT 2.1	STATISTICAL PHYSICS	<ol style="list-style-type: none"> 1. Understand the basic concepts in statistical physics with classically MB statics. 2. To study BE and FD statistics studied with quantum mechanics. 3. To apply the mathematical physics concepts for solving problems of quantum physics.
			OET 2.1	FUNDAMENTALS OF ELECTRONICS	<ol style="list-style-type: none"> 1. To study block diagram of op-amp its characteristics and applications 2. To study functional block diagram of IC555 and its applications. 3. To study the various electronic devices like SCR, Diac, Traic and display devices and its applications. 4. To review of JFET MOSFET devices. 5. To study applications of active and passive devices.
3.	M.Sc.-II	SEM-III	HCT 3.1	SEMICONDUCTOR PHYSICS	<ol style="list-style-type: none"> 1. To study the energy bands and charge carrier in semiconductor with Fermi level, electron and holes concentration at equilibrium. 2. To study role of carriers in semiconductor with direct and indirect recombination of electrons and holes with understand Haynes-Shockley experiment.



					3. To understand dynamics of
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					charge carriers and lattice, and semiconductor interfaces. 4. To understand semiconductor crystal growth process.
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			HCT 3.2	ATOMIC AND MOLECULAR PHYSICS	1. To study the atomic spectra with alkali metals. 2. Understand the selection rules and intensity rules. 3. To study the anomalous Zeeman effect, Paschen Back effect, stark effect with solving their problems. 4. To study the characteristics properties of Raman lines and classical theory of Raman effect. 5. Understand the physical significance of \square and application of Schrödinger's equations and operators.
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			SCT 3.1	FUNCTIONAL NANOMATERIALS	<p>1. To understand semiconductor quantum dots, nanotubes and nanowires.</p> <p>2. To understand polymer nanocomposite, nanofibers and metal oxide frameworks.</p>
			OET 3.1	ENERGY HARVESTING DEVICES	<p>1. To study solar cell, fuel cell and piezoelectrics.</p>
4.	M.Sc.- II	SEM-IV	HCT 4.1	SEMICONDUCTOR DEVICES	<p>1. To study MIS structures and MOS FETS with its applications.</p> <p>2. To study power devices GTO, MOS, SCR, DIACs,</p>

					<p>TRIACs, SUS, IGBT.</p> <p>3. To study coupled and transferred electron, applications of opto electronics and advanced solid state devices.</p>
			HCT 4.2	NUCLEAR AND PARTICLE PHYSICS	<p>1. To study nuclear structure and properties with nuclear reactions.</p> <p>2. Understand the particles accelerator and nuclear radiation detectors.</p> <p>3. To study the nuclear energy level and theory of elementary particles.</p> <p>4. To study various nuclear models and nuclear reactions.</p> <p>5. To study particle physics and cosmic rays.</p>



			SCT 4.1	MATERIALS CHARACTERIZATION TECHNIQUES	<ol style="list-style-type: none"> 1. To study microscopic techniques I & II with different instruments. 2. Understand the construction and working of optical, scanning and electron microscopy 3. Understand the construction and working of transmission electron, scanning tunneling and Atomic force microscopy 4. To study the x-ray photoelectron spectroscopy, Auger electron spectroscopy, Resonance spectroscopy.
			SCT 4.2	PHYSICS OF NANOMATERIALS	<ol style="list-style-type: none"> 1. To study the background of nano-science and nanotechnology. 2. Understand the band structure and density of states at nanoscale. 3. Understand the various properties of nanomaterials. 4. To study growth techniques and characterization tools of nanomaterials.





Department of Botany

Sr.No.	Course	Semester	Paper No.	Paper Name	Course Outcome
1.	B.Sc. I	I	I	Microbiology & Phycology	1) Understand the types and diversity in bacteria, viruses and mycoplasma 2) Understand the diversity among Algae. 3) Know the systematic, morphology and structure, of Algae. 4) Understand the useful, harmful activities and industrial applications of Algae
			II	Fungi & Archegoniate	1) Understand General characteristics, Thallus organization, Cell wall composition Nutrition classification 2) Understand General characteristics, Occurrence, Thallus organization, Life cycle of fungi 3) Understand types and economic importance of Lichen 4) Understand types of Micorrhiza and its applications 5) Understand applied aspects of fungi with respect to biotechnology, industry 6) To understand unique characteristic features of archaegoniate. 7) Understand the morphological diversity, classification and economic importance of Bryophytes. 8) Understand the morphological diversity, classification and economic importance of Pteridophytes. 9) Understand the morphological diversity, classification and economic importance of Gymnosperm.
		II	III	Plant Ecology	1) Understand different climatic and edaphic factors 2) Understand form, Structure classification and characteristics of community. 3) Understand concept, components, pyramids, food chain, energy flow and biogeochemical cycles in Ecosystem 4) Understand process and types of succession 5) Understand adaptations in community 6) Understand types and control measures of various pollution.

			IV	Taxonomy of Angiosperms	<ol style="list-style-type: none"> 1) Understand about importance of taxonomy. 2) With respect to recent knowledge students should know about some angiospermic families and taxonomy. 3) Understand different methods of classification and rules of nomenclature. 4) Understand technique and botanical gardens in India.
2.	B.Sc. II	III	V	Plant Anatomy	<ol style="list-style-type: none"> 1) Understand the scope & importance of Anatomy. 2) Know various tissue systems. 3) Understand the normal and anomalous secondary growth in plants and their causes. 4) Perform the techniques in anatomy.
			VI	Plant Metabolism	<ol style="list-style-type: none"> 1) Understand the concept of ATP synthesis 2) To know about Carbon oxidation with different pathways 3) Understand the properties of Monosaccharides, Oligosaccharides and Polysaccharides. 4) They will learn about the Significance of Carbohydrates. 5) Understand the Properties of saturated fatty acids, and unsaturated fatty acids. 6) Understand lipid metabolism in plants. 7) Understand the Beta Oxidation, Gluconeogenesis and its role in mobilization of fatty acids during germination. 8) They will learn about the Significance of lipids.
		IV	VII	Plant Physiology	<ol style="list-style-type: none"> 1) Know about Photosynthesis and Nitrogen metabolism and its importance. 2) To understand the plants and plant cells in relation to water. 3) To understand mineral nutrients and its role. 4) Learn about the movement of sap and absorption of water in the plant.

			VIII	Embryology of Angiosperms	<ol style="list-style-type: none"> 1) To know reproductive development in angiospermic plants. 2) To understand anther and pollen biology. 3) To understand ovule
					<ol style="list-style-type: none"> 4) To know the process of pollination and fertilization in the angiosperm. 5) To understand embryo and endosperm.
3.	B.Sc. III	V	IX	Plant Systematics	<ol style="list-style-type: none"> 1) Understand principles of general taxonomy and they can use no nomenclature rules plants. 2) Understand historical development of taxonomy. 3) Explain concept of species. 4) Order sub and super categories of species according to Linnaeus hierarchy. 5) Discuss the importance of nomenclature rules in botany.
			X	Genetics	<ol style="list-style-type: none"> 1) To understand basic concept of Genetics. 2) To know variation in Mendelian and Post Mendelian Genetics 3) To understand sex determination and sex linkage 4) To know the concept of population genetics 5) Understand Extra-chromosomal inheritance 6) To know the structural and numerical changes in the chromosome. 7) To know types of mutation, molecular basis and mutagens.
			XI	Molecular Biology	<ol style="list-style-type: none"> 1) Learn the scope and importance of molecular biology. 2) Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material. 3) Understand the process of synthesis of proteins.



			XII	Plant Breeding	<p>1) Understand the science of plant breeding.</p> <p>2) To introduce the student with branch of plant breeding for the survival of human being from starvation.</p> <p>3) To study the techniques of production of new superior crop varieties.</p> <p>4) Understand the modern strategies applied in Genetics and Plant Breeding to sequence and analyze genomes</p>
					<p>5) Get the detail knowledge about modern strategies applied in Plant Breeding for crop improvement i.e. Mass selection, Pure line Selection and Clonal selection.</p> <p>6) Know about exploitation of Heterosis, hybrid and variety development and their release through artificial hybridization.</p> <p>7) Understand the role plants in human welfare.</p> <p>8) Gain knowledge about various plants of economic use.</p> <p>9) Know importance of plants & plant products.</p>
		VI	XIII	Plant Pathology	<p>1) Understand the scope and importance of Plant Pathology. 2) Know the prevention and control measures of plant diseases and its effect on economy of crops.</p>
			XIV	Plant Biotechnology	<p>1) Understand the fundamentals of Recombinant DNA Technology. 2) Know about the Genetic Engineering.</p> <p>3) Understand the principle and basic protocols for Plant Tissue Culture.</p> <p>4) To understand applications of biotechnology in relation to the crop improvement.</p>
			XV	Cell Biology	<p>1) Understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles.</p> <p>2. Students will understand how these cellular components are used to generate and utilize energy in cells.</p>



			XVI	Biostatistics	<ol style="list-style-type: none"> 1) To know the basic concepts of Biostatistics 2) To understand collection of primary and secondary data 3) To understand calculation of mean, mode median and variations 4) To know probability 5) To know statistical inference with respect to 't' test and chi square test
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Sr. No.	Course	Sem	Paper No.	Paper Name	Course Outcome
1	M.Sc. I	I	HCT 1.1	Biology and diversity of fungi, bacteria, viruses and lichens	<ol style="list-style-type: none"> 1) Understand General characteristics, Occurrence, Thallus organization, Life cycle of fungi 2) Understand types and economic importance of Lichen 3) Know the prevention and control measures of plant diseases and its effect on economy of crops. 4) Understand the types and diversity in bacteria, viruses and fungi
			HCT 1.2	Biology and diversity of Algae, bryophytes and pteridophytes	<ol style="list-style-type: none"> 1) Understand the diversity among Algae. 2) Know the systematic, morphology and structure, of Algae. 3) Understand the useful, harmful activities and industrial applications of Algae. 4) Understand the morphological diversity, classification and economic importance of Bryophytes and pteridophytes.
			HCT 1.3	Plant Ecology	<ol style="list-style-type: none"> 1) Understand different climatic and edaphic factors 2) Understand form, Structure classification and characteristics of community. 3) Understand concept, components, pyramids, food chain, energy flow and biogeochemical cycles in Ecosystem 4) Understand process and types of succession



			SCT 1.1	Taxonomy of angiosperms	<p>1) With respect to recent knowledge students should know about some angiospermic families and taxonomy.</p> <p>2) To know reproductive development in angiospermic plants.</p> <p>3) To understand anther and pollen biology.</p> <p>4) To understand ovule</p>
		II	HCT 2.1	Biology and diversity of gymnosperms and paleobotany	<p>1) Understand the morphological diversity, classification and economic importance of Gymnosperm.</p>

					<p>2) To get information about the types of plant that lived during different time period.</p>
			HCT 2.2	Tools and techniques in botany	<p>1) Analyze data using appropriate statistical methods.</p> <p>2) Create, select, and apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations. 3) To know probability</p> <p>4) To know statistical inference with respect to 't' test and chi square test</p>



			HCT 2.3	Cell and molecular biology	<ol style="list-style-type: none"> 1) Learn the scope and importance of molecular biology. 2) Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material. 3) Understand the process of synthesis of proteins. 4) Understand the Biochemical nature of cell.
			OET 2.1	Advances in plant pathology	<ol style="list-style-type: none"> 1) Understand the scope and importance of Plant Pathology. 2) Know the prevention and control measures of plant diseases and its effect on economy of crops.
2	M.Sc. II	III	HCT 3.1	Plant embryology and Palynology	<ol style="list-style-type: none"> 1) To understand anther and pollen biology. 2) To understand ovule 3) To know the process of pollination and fertilization in the angiosperm. 4) To understand embryo and endosperm.
			HCT 3.2	Cytogenetic and crop improvement	<ol style="list-style-type: none"> 1) To understand basic concept of Genetics. 2) To know variation in Mendelian and Post Mendelian Genetics 3) To understand sex determination and sex linkage 4) To know the concept of population genetics
					<ol style="list-style-type: none"> 5) Understand Extra-chromosomal inheritance 6) To know the structural and numerical changes in the chromosome. 7) To know types of mutation, molecular basis and mutagens.
			SCT 3.2	Angiosperm Systematics	<ol style="list-style-type: none"> 1) Understand the interrelation between plants and their evolutionary descent. 2) To reconstruct development of plant life. 3) To arrange the taxa into logical hierarchy that permits easy and simple recognition in the basis of similarity.



			OET 3.2	Herbal and drug technology	<p>1) Understand raw material as a source of herbal drugs from cultivation to herbal drug product</p> <p>2) To know the WHO and ICH guidelines for evaluation of herbal drugs.</p> <p>3) To know the herbal cosmetics, natural sweeteners, nutraceuticals.</p>
		IV	HCT 4.1	Phytogeography and conservation biology	<p>1) To explain the ranges of plants in terms of their origin, dispersal and evolution.</p> <p>2) To know about branch of biogeography that is concerned with the geographic distribution of plant species and their influence on earth surface</p> <p>3) To protect species, their habitat and ecosystems from excessive rates of extension and the erosion of biotic interactions.</p>
			HCT 4.2	Plant tissue culture, green house technology and hydroponics.	<p>1) Understand the principle and basic protocols for Plant Tissue Culture. 2) To understand applications of biotechnology in relation to the crop improvement.</p> <p>3) To study the hydroponic system to deliver an optimized nutrient solutions to plant root.</p>
			SCT 4.2	Modern trends in angiosperm taxonomy	<p>1) To provide the knowledge of taxonomy is possible with the principles of various disciplines like cytology, genetics, anatomy, physiology, geographical</p>
					<p>distribution, embryology numerical taxonomy.</p> <p>2) To improve present day knowledge of phylogeny of plants. 3) To develop taxonomic characters this may improve existing system of plant classification.</p>
			OET 4.2	Industrial botany	<p>1) It helps in the area of economic productivity because it is involved in the study of plants and ideal growing techniques</p> <p>2) It contribute significantly to anthropology, biology, conservation, botany and other fields of science</p> <p>3) Commercial exploitation of plants by peoples.</p>



Department Geography Zoology

Sr. No.	Course Name	Semester	Paper No	Paper Name	Subject Outcomes
1	B. Sc. I	I	I	Animal Diversity I	- Zoology has tremendous job potential. a) The successful students will be able to establish research organizations with the help of agriculture, environment protection and also their own industry for transgenic animals, clinical pathology, genetic counseling, human karyotyping etc. b) Scientific Research Organizations. c) Universities in India & abroad.
		II	II	Animal Diversity II	
			III	Comparative Anatomy of vertebrates	
			VI	Developmental Biology of vertebrates	
2	B.Sc.II	III	V	Cell Biology	Zoology has tremendous job potential. The successful students will be able to establish research organizations with the help of agriculture, environment protection and also their own industry for transgenic animals, clinical pathology, genetic counseling, human karyotyping etc. Scientific Research Organizations. Universities in India & abroad.
			VI	Demographic Studies	
		IV	VII	Principles of Ecology	
			VIII	Fundamentals of Biochemistry	
3	B.Sc.III	V	IX	DSE-1A-Molecular Biology	- Develop an understanding of concepts, mechanisms and evolutionary significance and relevance of molecular biology in the current scenario. Get well versed in recombinant DNA technology which holds application in biomedical & genomic science, agriculture, environment management, etc. Therefore, a fundamental understanding of Molecular Biology will help in career building in all these fields. Apply their knowledge in problem solving and future course of their career development in higher education and research. Get new avenues of joining research in related areas such as therapeutic strategies or related opportunities in industry.



			X	DSE- 2 A Principles of Genetics	After successfully completing this course, the students will be able to: Understand how DNA encodes genetic information and the function of mRNA and tRNA Apply the principles of Mendelian inheritance. Understand the cause and effect of alterations in chromosome number and structure. Relate the conventional and molecular methods for gene
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					manipulation in other biological systems. Discuss and analyse the epigenetic modifications and imprinting and its role in diseases. Get new avenues of joining research in related areas such as genetic engineering of cells, cloning, genetic disorders, human fertility programme, genotoxicity, etc
			XI	DSE- 3A- Endocrinol ogy	- Understand neurohormones and neurosecretions. Learn about hypothalamo and hypapophysical axis. Understand about different endocrine glands and their disorders. Understand the mechanism of hormone action.
		VI	XII	DSE 4 A- Wildlife Conservati on & Manageme nt	Students will understand the factors affecting the need to find sustainable practices Students will understand the general principles of ecology as how they related to terrestrial and/or aquatic plant and animal conservation and management. Students will be able to identify species, characteristics, habitat requirements and life cycles of birds, fish and/or wildlife species. Students will be able to evaluate current events and public information related to wildlife conservation and management as being scientifically-based or opinion
			XIII	DSE- 1B- Animal Physiology : Life Sustaining Systems	After successfully completing this course, the students will be able to: Understand the physiology at cellular and system levels. Understand the mechanism and regulation of breathing, oxygen consumption and determination of respiratory quotient. Understand the process of digestion and excretion. Understand the renal physiology Understand the process in haematology Learn the determination of hemoglobin content, blood groups and blood pressure. Understand the process of Physiology of Heart



			XIV	DSE- 2B Evolutionary Biology	Understand the historical development of systematics past to the present. Understand the similarities and differences of different types of data.□ Understand the uses and limitations of phylogenetic trees.□ Appreciate the complexities and difficulties of various species concepts.□ Gain a basic grasp on the rules and philosophy of nomenclature
			XV	Animal Behaviour and Chronobiology	- Understand the Biological Clocks and its importance Understand how Biological Rhythm influence animal behavior□ Understand Social and Sexual Behaviour of animals□ Understand Behaviour Patterns of animals
			XV	DSE 4B- Applied Zoology	Students will understand the fisheries Students will learn the sericulture and Lac culture techniques□ Students will understand the Apiculture techniques□ Students will learn how to initiate Aquaculture practices.□ Students can incorporate social information about poultry and dairy



Department Of Mathematics

Sr. No	Course	Semester	Paper No	Paper Name	Course Outcome	
1	B.Sc- I	I	I	ALGEBRA	Understanding the applications of matrices	
					Understanding how they can calculate roots of a complex numbers.	
			II	CALCULUS	Calculate the limit and examine the continuity of a function at point.	
					Explain the properties of threedimensional shapes.	
		II	III	GEOMETRY	Learn how to change points and equations in Cartesians to Polar.	
					Understand the Geometry of plane and spheres.	
			IV	DIFFERENTIAL EQUATIONS	Learn various methods of solving first order and firstdegree differential equations occurring in Physics, Chemistry and Engineering Sciences.	
					Understand the genesis of ordinary differential equation	
2	B.Sc- II	III	V	Differential Calculus	Find maximum and minimum value Jacobian of n order and find curvature of any given curve as well as find tangents and normals of any given curve.	
					VI	Laplace Transform
		IV	VII	Differential Equations	To solve differential Equation of first order and of degree higher than the first, linear equation of the second order, homogeneous linear equation	
					VIII	Abstract algebra-I
			V	IX	Algebra – II	Understand the theory of rings and fields as well as linear algebra
						X
3	B.Sc- III	V	IX	Algebra – II	Understand the theory of rings and fields as well as linear algebra	
					X	Complex Analysis



					Complex Integration, Line Integration, Cauchy Integral Formula, Power Series, Laurent Series.
			XI	Real Analysis	To understand completeness of set of real number, absolute value of real number.
					Define series of real number, Cauchy root test, D'Alembert's test, Ratio test for convergence of series.
			XII	Partial Differential Equations (Elective - A)	: Learn to Partial Differential Equation, Formation of Partial Differential Equation, types of partial differential Equation.
					Lagrange's Method, Charpit's Method.
		VI	XIII	Metric Spaces	Define metric spaces completeness, compactness and open, closed sets
			XIV	Numerical Analysis	Define operators, finite difference, Gauss Interpolation Formula, Newton's Interpolation Formula (Center, forward, backward)
					Numerical differentiation and integration, Maxima and minima of tabulated function, Difference equation.
			XV	Graph Theory	Able to define the basic concepts of graphs, directed graphs, and weighted graph
			XVI	Integral Calculus (Elective - A)	Acquire the knowledge of double integral beta, gamma function and improper integral



Department of Electronics

SR. NO	COURSE	SEMISTER	PAPER NO.	PAPER NAME	COURSE OUTCOME	
1	B.Sc.I	I	I	Basic Circuit Theory and Network Analysis	<input type="checkbox"/> Students will get basic understanding of the subject. <input type="checkbox"/> To encourage students to develop approach towards upcoming electronic technologies. <input type="checkbox"/> Students will get hands-on on various circuits and instruments. <input type="checkbox"/> To equip students with adequate fundamental concepts and knowledge base.	
			II	Digital Fundamentals		
		II	III	Semiconductor Devices		
			IV	Digital Electronics		
2	B.Sc.II	III	V	Electronic Circuits	<ul style="list-style-type: none"> • To equip student with necessary fundamental concepts and knowledge base. • To develop specific practical skills. 	
			VI	Pulse and Switching Circuits		
		IV	VII	Operational Amplifier and Applications		<ul style="list-style-type: none"> • To encourage student to develop skills for accepting challenges of upcoming technological advancements. • To prepare students for demonstrating the acquired knowledge.
			VII	Digital Techniques and Microprocessor		



3	B.Sc.III	V	IX X XI XII	<ul style="list-style-type: none"> • Linear Integrated Circuits and Applications □ Fundamentals of Microcontroller • Sensors and Transducers • Electronics Communication 	<ul style="list-style-type: none"> • To impart training on circuit design, analysis, building and testing. • To design the syllabus with specific focus on key Learning Areas. • To encourage student to develop skills for accepting challenges of upcoming technological advancements. □To expose the students to onlineshooter certificate courses such as MOOC / SWAYAM/ NPTEL, etc.□
		VI	XIII XIV XV XVI	<ul style="list-style-type: none"> □Power Electronics □Embedded System Design □Electronics Instrumentation □Modern Communication Systems 	<ul style="list-style-type: none"> • To impart training on circuit design, analysis, building and testing. • To inculcate awareness among the student to perform the project so find us trial standards, which could also, ensures the interdisciplinary approach. • To provide the knowledge of design and implementation of instrumentation of significant preciseness. • To expose the students to the industrial environment a on job training and internship may be provided



Department of Economics

Sr. No.	Course Name	Semester	Paper No	Paper Name	Subject Outcomes
1	B.A.I	I	I	Indian Economy	-To understand meaning, need and importance of Indian economy To understand the Growth and development.
		II	II	Indian Economy	-To understand the unemployment -To understand the aim and objectives of economy. .
2	B.A.II	III	III	Money and Banking	-To acquire knowledge about money -To acquire knowledge about banking system.
			IV	Demographic Studies	-To understand the meaning, importance and scope of demographic studies. -To understand the census.
		IV	V	Public finance	-To acquire knowledge about public finance. -To acquire knowledge about fiscal policy.
			VI	Demographic Studies	-To understand the meaning, importance and scope of demographic studies.
3	B.A. III	V	VII	Micro Economics	- to understand the concept of land labour price monopoly etc.
			VIII	Macro Economics	-to know about the macro level issues in the country.
			IX	History of Economic Thought	-To understand the knowledge of economic thoughts of western economists.
			X	Development Economics	-knowledge of the development concepts.
			XI	Agricultural Economics	To understand Indian agriculture.
		VI	XII	Micro Economics	-to understand the different price, market concepts.
			XIII	Macro Economics	-to know about the trade cycles, monetary policies.etc.
			XIV	History of Economic Thought	-to know about Indian economist thoughts on the economics.
			XV	Development Economics	-Knowledge of hdi,hpi,gem etc.



			XVI	Agricultural Economics	-to understand the problems and solutions on agricultural crises.
1	M.A .I	I& II	I	Micro economic analysis	-To understand meaning, need and importance of land labor,monopoly ,market theories etc.
			II	Economics of growth and development	-To understand the unemployment -To understand the aim and objectives of economy. .
			III	Economics of Environment	-To acquire knowledge about money -To acquire knowledge about banking system.
			IV	Industrial Economics	-To understand the meaning, importance and scope of demographic studies. -To understand the census.
			V	Financial institutes and markets	-To acquire knowledge about public finance. -To acquire knowledge about fiscal policy.
2	M..A. II	III & IV	VI	Macro Economic analysis	- to understand the concept of money,inflationunemployment,trade cycles etc.
			VII	Public Economics	-to know about the macro level issues in the country of income,expenditure,taxes.budget etc.
			VIII	Research methodology	-To understand the knowledge of research methods data collection,report writing etc.
			IX	Adgricultural development of india	-knowledge of the development concepts of agriculture in india.
			X	International trade and finance	To understand the concepts of trade, trade theories,trademou's.etc.




Department of Sanskrit

Sr No	Course	Sem	Paper	Paper Name	Course Outcomes

1	BA I	I & II	I	Sanskrit Vihar	<ul style="list-style-type: none"> • Introduce importance of Aayurveda • To introduce Modern style of Sanskrit • To Increase morality in students
2	BA I	I & II	Com	Sanskrit mayukh	<ul style="list-style-type: none"> • To introduce Upanishad philosophy • Modern Sanskrit they can learn different types of literature • Student will aware for good health
3	BA II	III	III	Prachin Bhartiya Jalshastra	<ul style="list-style-type: none"> • To introduce scientific knowledge In Sanskrit • The paper introduces a branch of science • Student can know the technique Of find underground water
4	BA II	III	IV	Karakprakaran	<ul style="list-style-type: none"> • Student can achieve knowledge About vibhakti • Student can make sentence • Useful for speaking Sanskrit
5	BA II	IV	V	Bhagvadgeeta	<ul style="list-style-type: none"> • Student can achieve valuable Knowledge of Indian philosophy • They can learnt the technique of Mental ,physical and spiritual peace Through yogshastra
6	BA II	IV	VI	Kavyashastra	<ul style="list-style-type: none"> • To introduce the poetics in Sanskrit Language • Introduction of Alankaras Which is important for language




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