

DALIT MITRA KADAM GURUJI VIDNYAN MAHAVIDHYALAY, MANGALWEDHA

DEPARTMENT OF BOTANY

Program Outcomes 2023-24

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

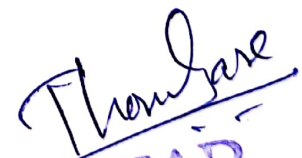
At the completion of B. Sc. in Botany the students are able to:

1. Understand the structural organization and variation in chromosomes.
2. 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.
3. Understand plant structures in the context of physiological functions of plants. Understand lipid metabolism in plants.
4. Understand the morphological and structural organization of Cryptogams and Phanerogams.
5. Economics Botany and plant utilization in concern with human life.
6. Diversity of plants National plant wealth.
7. Developmental biology of plants. Industrial application of microorganism




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Coordinator
Dalit Mitra Kadam Guruji Vidnyan
Mahavidyalaya, Mangalwedha


Principal
Dalit Mitra Kadam Guruji
Vidnyan Mahavidyalaya Mangalwedha
Tal-Mangalwedha Dist - Solapur


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Department of Botany
Dalit Mitra Kadam Guruji
Vidnyan Mahavidyalaya, Mangalwedha

**Dalit Mitra Kadam Guruji Vidnyan Mahavidyalaya,
Mangalwedha.**

Department of Botany

Course Outcome Academic Year 2023-24

B.Sc I year Semester I

Paper No. 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

Paper No. 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.

B.Sc I year Semester II

Paper No. 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.



Paper No. IV- Taxonomy of Angiosperms

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.

B.Sc II year Semister III

Paper No. V- Plant Anatomy

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.

Paper No. VI- Plant Metabolism

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.

B.Sc II year Semister IV

Paper No. VII- Plant Physiology

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.

Paper No. VIII- Embryology of Angiosperms

1. To know reproductive development in angiospermic plants.
2. To understand anther and pollen biology.
3. To understand ovule.
4. To know the process of pollination and fertilization in the angiosperm.
5. To understand embryo and endosperm.





Shikshan Prasarak Mandal

Dalit Mitra Kadam Guruji Vidnya Mahavidyalaya Mangalwedha

Program Outcomes 2023 -24

Program Outcomes: Science Faculty

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.
- 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



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 professionalschool.
- 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 rolein 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 oralformats.
- Learn professionalism, including the ability to work in teams and apply basic ethical principle

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 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 etc.
			DSE-	Organic Chemistry	Students can get to know about- i) Study of various Heterocyclic Compounds, carbohydrates etc ii) Introduction to Hormones and Vitamins, and also the study of various Pharmaceuticals, Agrochemicals etc.
			3B		

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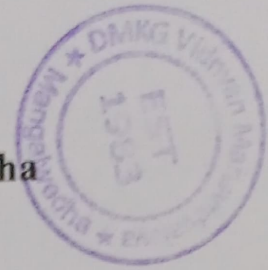
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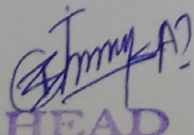
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Program Outcomes 2023 -24

Programme Outcomes (Undergraduate Level) Arts Faculty

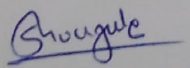
After completing the graduation in the faculty of Arts the students have:

- 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 abovementioned 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.

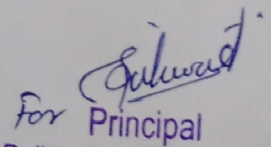

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Department of Economics
Dalit Mitra Kadam Guruji

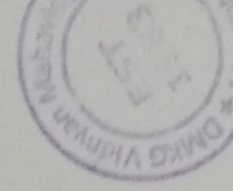
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DEPARTMENT OF ECONOMICS

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.

Course Outcomes 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	Demography in India	-To understand the meaning, importance and scope of demographic studies.



Shikshan Prasarak Mandal

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Programme Outcomes (Undergraduate Level)

Arts Faculty

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 abovementioned 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, 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.



Course Outcomes

Year: 2023-24

Department of English

Sr. No.	Course Name	Semester	Paper No.	Subject Name	Course outcome
1	B.A.I	I	I	Introduction to English Literature	- 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)	- 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)	- 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	- 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	- Familiar with a few British writers - Familiar with some of the dramas and dramatists - Able to understand the



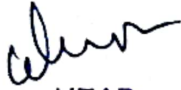
					features of the text
		IV	V	Indian Literature-I	• Acquire language skills required for day to day and specific purpose. • Be able to interpret and illustrate concepts of Communication, Prose and Poetry. • Be able to analyze and interpret the text prescribed. • Develop certain life skills and strengthen strategies to develop vocabulary.
			VI	Indian Literature-II	• 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)	• To acquaint students with literary forms and linguistic terms. • To initiate students and provide them a firsthand experience of reading and interpreting literary texts.
5	B.A.III	V&VI	-	English (Com)	Use oral and written English effectively • 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	Understand the basics of literary criticism. • Have a critical approach to literature. • Understand the major trends in literary criticism.

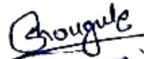
			VIII	British Literature	Gain knowledge, stylistic strategies and diction of British literature. • Be able to explore the creativity and the human experiences in fiction, poetry and drama. • Be able to cultivate aesthetic and ethical values in life
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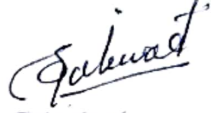
					through literary texts.
			IX	Indian English Literature	Understand gradual development of Indian English literature from mid-twentieth century to post 2000 period. • Get acquainted with major genres/themes through the study of texts prescribed.
			X	Literatures in English	• Understand Afro-American fiction • Understand features of Postcolonial Fiction
			XI	Introduction to the Structure & Function of Modern English	Understand various concepts in linguistics. • Get acquainted with various branches of linguistics.
	VI		XII	Introduction to Literary Criticism	☐ Understand the basics of literary criticism. ☐ Have a critical approach to literature. ☐ Understand the major trends in literary criticism.
			XIII	Indian English Literature	Understand gradual development of Indian English literature from mid-twentieth century to post 2000 period. • Get acquainted with major genres/themes through the study of texts prescribed.
			XIV	Literatures in English	• Understand Afro-American fiction • Understand features of Postcolonial Fiction
			XV	Introduction to the Structure & Function of Modern English	Understand various concepts in linguistics. • Get acquainted with various branches of linguistics.



			XVI	Literary Mindscapes	Use oral and written English effectively • Appreciate literary language • Use English language in creative writing
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D.M.K.G VIDNYAN MAHAVIDALAYA, MANGALWEDHA

**Department of Geography
BA Program Outcome 2023-24**

GEOGRAPHY

Geography is the study of places and the relationships between people and their environments. Geographers explore both the physical properties of Earth's surface and the human societies spread across it. They also examine how human culture interacts with the natural environment and the way those locations and places can have an impact on people. Geography seeks to understand where things are found, why they are there, and how they develop and change over time. The study of the diverse environments, places, and spaces of Earth's surface and their interactions. It seeks to answer the questions of why things are as they are where they are. The modern academic discipline of geography is rooted in ancient practice, concerned with the characteristics of places, in particular their natural environments and peoples, as well as the relations between the two. So, after the completion of graduation, the students will be able to

Programme Outcomes:

- 1- To understand the scope and evolution of the diverse discipline of Geography.
- 2- Recognize, synthesize and evaluate diverse sources of knowledge, arguments and approaches pertinent to exploring human-environment problems. Explain societal relevance of geographical knowledge and apply it to real world human- environment issues.
- 3- Appreciate and reflect critically on the importance of holistic and interpretative human environment perspectives.
- 4- An understanding and acknowledgment of the threats that endanger the earth's natural systems. This helps in further realization of the significance of anthropogenic causes of many of the disasters and threats that puts life on this planet on the edge.
- 5- Development of knowledge, skills and holistic understanding of the discipline among students. Encouragement of scientific mode of thinking and scientific method of enquiry in students. This goal is achieved through the regular field excursions conducted by the Department to various parts of India extensively and the writing of a report on it.
- 6- Students become equipped with the ability to respond to both natural and man-made disasters and acquire management skills. This is attained through the curriculum by studying and analysing hazards, disasters, their impact and management.
- 7- Ability to undertake research in interdisciplinary studies and problems or issues beyond the realm of what strictly comes under the purview of geography.



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Department of Geography

Course Outcome– 2023-24

BA-I

Semester-I

Subject- Geomorphology

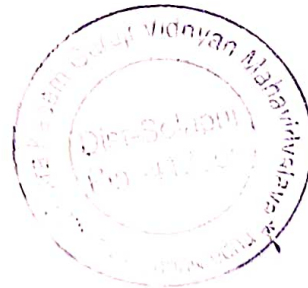
Course Outcomes:

1. The student about the background knowledge of Geomorphology and Geology.
2. The student understand geomorphological concept and process takes place on the earth surface and within the earth crust.
3. The student were familiar the knowledge about interior structure of the earth, formation of continent and types of rock
4. Student understanding about endogenic and exogenic forces and their effect in the creation of different land form on the surface of the earth

Semester-II

Subject- Human Geography

- 1) The student understands basic concept of human geography.
- 2) Student understand and familiarize for local and regional man – environment relation.
- 3) The student knowledge about basic components of Human Geography like race, religion



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Department of Geography

Course Outcome– 2023-24

BA-II

Semester-III

Subject- Climatology

Course Outcomes:

1. Understanding the nature, composition and layering of the atmosphere.
2. Develop an idea about insolation and heat budget of the atmosphere.
3. Gain knowledge about different atmospheric phenomena like temperature distribution, greenhouse effect, condensation, air mass, fronts, stability and instability, wind circulation and climate change.
4. Acquire knowledge about cyclones.
5. Approaches to climatic classification.

Semester-III

Subject- Geography of India

Course Outcomes:

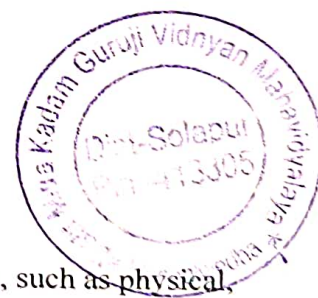
1. Understanding of geology, physiography, climate, soil and vegetation of India.
2. Gain knowledge about demographic and social distribution of population of India.
3. Develop an idea about the economic resources of India.
4. Learn about the regionalization of India.
5. Acquire knowledge about the various perspectives of geography of India.

Semester-III

Subject- introduction to tourism

Course Outcomes:

1. Understanding geography
 - a. Students can learn about the different types of geography, such as physical, human, regional, and geospatial.
2. Understanding tourism geography
 - a. Students can learn about the relationship between tourism and geography, including the importance of planning and strategy for sustainable tourism.
3. Understanding tourism destinations
 - a. Students can learn about the factors that make a destination attractive to tourists, such as climate, physical features, cultural elements, and historical interest.



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2. Understanding tourism transportation
 - a. Students can learn about the relationship between tourism transportation and tourism geography, and how to contrast the advantages and disadvantages of different modes of transport.
3. Understanding tourism regions
 - a. Students can learn about the tourism regions of the world, and how to recognize global tourism regions.
4. Understanding tourism impacts
 - a. Students can learn about the economic, political, socio-cultural, environmental, and psychological impacts of tourism.

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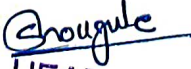
Course Outcome– 2023-24

BA-II

Semester IV

Subject -Tourism in India

1. Understanding tourism resources
 - a. Students can learn about the unique characteristics of tourism resources in India, including natural attractions, wildlife sanctuaries, national parks, rivers, lakes, hill stations, and beaches.
2. Understanding the role of heritage and architecture
 - a. Students can learn about the role of architecture and heritage in promoting tourism.
3. Understanding the role of ecology in tourism
 - a. Students can learn about the relationship between tourism and ecology, including the importance of conservation and ecotourism development.
4. Understanding the importance of geography in tourism
 - a. Students can learn about the importance of geography in tourism, including the climatic regions of the world and the International Date Line.
5. Understanding the political and physical features of India
 - a. Students can learn about the political and physical features of India.


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Department of Geography

Course Outcome– 2023-24

BA-II

Semester IV

Subject:-Environmental Geography

1. Understanding sustainability issues
2. Students learn to use geographic and economic tools to analyze and evaluate sustainability issues.
3. Using geographic and economic skills
4. Students learn to use spreadsheet and mapping software to collect and analyze data.
5. Developing academic skills
6. Students improve their ability to write, speak, collaborate, and think critically.
7. Understanding the environmental sector
8. Students learn about the nature, history, geography, and potential futures of environmental firms, agencies, and organizations.
9. Understanding the role of economic, political, and social analysis
10. Students learn how these concepts apply to the design and evaluation of environmental policies and institutions.



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D.M.K.G. Vidnyan Mahavidyalaya

Mangalwedha, Solapur District.

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Department of Geography

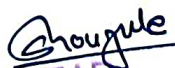
Course Outcome– 2023-24

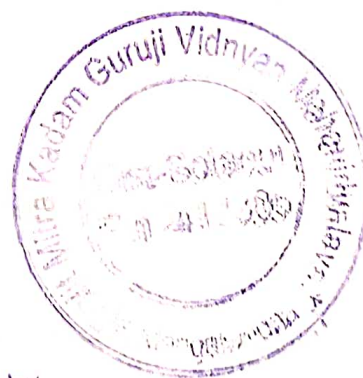
BA-II

Semester IV

Subject -Economic Geography

1. Understanding of economic systems
 - a. Students learn how human societies, the physical environment, and local and global economic systems are all connected to sustainable development.
2. Understanding of economic choices
 - a. Students learn why people and businesses choose to locate where they do, and the implications of these choices for income and wealth distribution.
3. Research skills
 - a. Students learn to develop research questions, analyze data, and present their research. They may use cartographic tools and other visual formats.
4. Critical thinking
 - a. Students learn to apply advanced geographical knowledge to solve real-world problems.
5. Interdisciplinary skills
 - a. Students gain expertise in interdisciplinary fields that are important for addressing real-world challenges.


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Department of Geography

Course Outcome– 2023-24

BA-III

Semester-V

Subject- Regional Planning and Development

Course Outcomes:

1. The students were known the importance of regional planning.
2. The students understood the concepts of region, regionalization, regional planning & development and detailed knowledge of region.
3. The students were familiar with indicators of measurement of development.
4. Detail understanding of Growth Pole Model, Center place Theory and Growth Foci Model in Indian context.

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Course Outcome– 2023-24

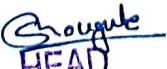
BA-III

Semester-V

Subject- Urban Geography

Course Outcomes:

1. The students were known the importance of urban settlements through urban geography.
2. The students understood the types of urban Settlements, Site and situations.
3. The students were familiar with an idea of relationship between human activities and urban development.
4. Detail understanding of students regarding present urban problems and students are capable to handling of present problematic situations in urban areas.
5. The students are developed as a good urban planner and environmental conservator.


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Department of Geography

Course Outcome– 2023-24

BA-III

Semester-V

Subject- Population Geography

After the completion of course, the students will have ability to:

1. This paper would bring an understanding of population geography along with relevance of demographic data.
2. The students would get an understanding of distribution and trends of population growth in the developed and less developed countries, along with population concepts.
3. The students would get an understanding of the dynamics of population.
4. An understanding of the implications of population composition in different regions of the world.
5. An appreciation of the contemporary issues in the field of population studies

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D.M.K.G VIDNYAN MAHAVIDALAYA, MANGALWEDHA

Department of Geography

Course Outcome– 2023-24

BA-III

Semester-VI

Subject- Evolution of Geographical Thought

1. 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.
2. Detailed knowledge about the debates in the geographical studies.
3. Understanding of recent trends in Geography.

Semester-VI

Subject- Political Geography

After the completion of course, the students will have ability to:

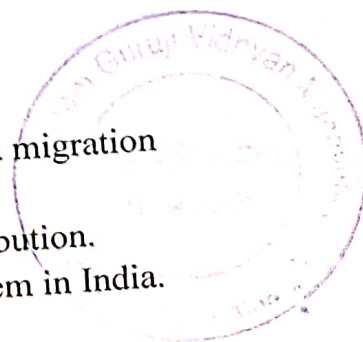
1. Student will understand the history and development of political geography.
2. Get knowledge about evaluation of state and nation.
3. Get knowledge of Geo-political theories.
4. Investigates problems and disputes of India with the most current research topics in political geography.

Semester-VI

Subject- Social Geography

After the completion of course, the students will have ability to:

1. In depth understanding the problems and prospects of society in India.
2. The students are fully aware about the technological, occupational and migration changes of peoples in India.
3. Detailed knowledge about the social categories and their spatial distribution.
4. Understanding concepts of social wellbeing, welfare and social problem in India.



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Semester-VI

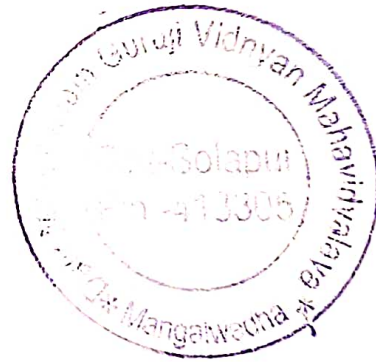
Subject: - Geography (Practical Paper -I)

1. In depth understanding the map, concept of scale and projection.
2. Detailed knowledge about the analysis of landforms and its identification.
3. The students are deeply aware about basic information to the students about S.O.I. toposheets and I.M.D. weather reports.
4. and obtained the skills about map interpretation.

Semester-VI

Subject: - Geography (Practical Paper -II)

1. In depth understanding the importance of field work and advanced Techniques in Geography.
2. The students are trained to implement modern tool and techniques in Geography.
3. The students are deeply aware about the basics and trained in instrumental survey.
4. The students are deeply familiar with computer, GIS, GPS and Remote Sensing.



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Vidyan Mahavidyalaya Mangalwedha.

शिक्षण प्रसारक मंडळ

दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा

आई.क्यू. ए.सी. एवं हिंदी विभाग

पाठ्यक्रम उद्देश [Course Objectives] 2023 - 24

sr	Course Title	Course Objectives पाठ्यक्रम उद्देश
1	बी.ए. प्रथम वर्ष	1. छात्रों को हिंदी के गद्यकारों एवं कवियों से परिचित कराना। 2. इस पाठ्यक्रम के माध्यम से सीखने सिखाने की प्रक्रिया में हिंदी भाषा के आरंभिक स्तर से अब तक के बदलते रूपों की जानकारी प्राप्त की जा सकेगी। 3. छात्रों में हिंदी साहित्य के प्रति अभिरुचि संवर्धित कराना। 4. साहित्य के सौंदर्य, कला बोध के साथ वैचारिक मूल्यों को बढ़ावा देना। 5. छात्रों में अनुवाद, संक्षेपण, वृत्तांत लेखन, पत्रलेखन इन कौशलों को विकसित कराना। 6. छात्रों को पारिभाषिक शब्दावली से परिचित कराना।
2	बी.ए. द्वितीय वर्ष	1. सीखने की प्रक्रिया में इस पाठ्यक्रम में हिंदी भाषा दक्षता को मजबूती देना है। 2. भाषा के सैद्धांतिक रूप के साथ साथ व्यावहारिक पक्ष को भी जाना जा सकेगा। 3. छात्रों की विचार क्षमता तथा कल्पनाशीलता को बढ़ावा देना।

Chougule
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Mahavidyalaya, Mangalwedha

Toyaji
HEAD
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Vidnyan Mahavidyalaya, Mangalwedha.



Gulmud
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Tal-Mangalwedha Dist - Solapur

		4. छात्रों को हिंदी के गद्यकारों एवं कवियों से परिचित कराना । 5. साहित्य के सौंदर्य, कला बोध के साथ वैचारिक मूल्यों को बढ़ावा देना। 6. विद्यार्थियों में साहित्य अध्ययन से संवेदनशीलता एवं मानवीय गुणों का विकास कराना । 7. प्रतिनिधि कहानियों के विषय विविधता से परिचित कराना।
3	बी.ए. तृतीय वर्ष	1. साहित्य की विधाओं के माध्यम से विद्यार्थी की रचनात्मकता को दिशा देना। कविता कहानी जैसी विधाओं द्वारा छात्रों की रचनात्मकता को प्रोत्साहित करना। 2. छात्रों को हिंदी के गद्यकारों एवं कवियों से परिचित कराना । 3. प्रतिनिधि कहानियों के विषय विविधता से परिचित कराना। 4. कहानियों के कलापक्ष एवं भावपक्ष से रू-ब-रू कराना। 5. साहित्य निर्मिति की प्रक्रिया का बोध कराना। 6. साहित्य / काव्य के भेदों से अवगत कराना। 7. साहित्य की नवीन विधाओं का परिचय कराना। 8. गद्य तथा पद्य के तत्वों को समझना। 9. शब्दों की शक्ति को समझना। 10. छात्रों को साहित्य के उपकरणों को समझना। 11. रसानुभूति की प्रक्रिया को समझना। 12. साहित्य के मूल्य, गुणों को पहचानना। 13. आलोचना के माध्यम से विभिन्न आलोचना पद्धतियाँ तथा विभिन्न विमर्शों को समझना।

शिक्षण प्रसारक मंडळ

दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा

आई.क्यू. ए.सी. एवं हिंदी विभाग

पाठ्यक्रम परिणाम [Program Outcomes] 2023 - 24

Sr.	Year	Program Outcomes
1	बी.ए. प्रथम वर्ष	1. विद्यार्थियों को राष्ट्रीय सांस्कृतिक काव्य धारा का परिचय प्राप्त होगा 2. विद्यार्थियों की जीवन दृष्टि एवं मानवीय मूल्यों का विकास होगा। 3. इस पाठ्यक्रम के अध्ययन से विद्यार्थी हिंदी साहित्य के इतिहास से परिचित होंगे। 4. विद्यार्थियों को काव्यांग की जानकारी मिलेगी 5. हिंदी की शब्द संपदा के विस्तार की जानकारी प्राप्त करेंगे। 6. इस पाठ्यक्रम के माध्यम से विद्यार्थी हिंदी के प्रयोजनमूलक रूप की जानकारी प्राप्त कर सकेंगे। 1. इस पाठ्यक्रम के अध्ययन से विद्यार्थी हिंदी काव्य की सुदीर्घ परंपरा से परिचित होंगे। 2. प्रसिद्ध रचनाओं के अध्ययन से देश की सामाजिक सांस्कृतिक

		एवं राष्ट्रीय पृष्ठभूमि से सुविज होंगे। 2. नई तकनीक के माध्यम से ज्ञान विज्ञपरषेत्र में विशेषज्ञता प्राप्त कर सकेंगे। 3. भाषा कंप्यूटिंग में दक्षता होगी तथा रोजगार प्राप्ति के अवसर मिलेंगे 1. इस पाठ्यक्रम के अध्ययन से विद्यार्थी हिंदी के आधुनिक कवियों की रचनाओं से परिचित होंगे।
2	बी.ए. द्वितीय वर्ष	1.विद्यार्थी साहित्य की प्रमुख रचनाओं से परिचित होंगे। 2.विद्यार्थियों में साहित्य अध्ययन से संवेदनशीलता एवं मानवीय गुणों का विकास होगा। 3.विद्यार्थियों में उच्च अध्ययन व शोध कार्य के प्रति रुचि जागृत होगी तथा उन्हें रोजगार के अवसर प्राप्त होंगे। कार्यक्रम परिलब्धियाँ- एम.ए. हिंदी साहित्य- 4.विद्यार्थी साहित्य की विशिष्ट विधाओं का गहन अध्ययन कर सकेंगे। 5.विद्यार्थियों में शोध एवं समीक्षा के प्रति रुचि उत्पन्न होगी। 6.विविध क्षेत्रों में उन्हें रोजगार के अवसर प्राप्त होंगे तथा प्रतियोगी परीक्षा की तैयारी में है सहायता मिलेगी।

3	बी.ए. तृतीय वर्ष	1.कार्यालयीन पत्र लेखन दक्षता का विकास होगा । 2.भाषा कंप्यूटिंग तथा अनुवाद कौशल में दक्षता होगी जिससे रोजगार प्राप्ति के अवसर मिलेंगे 3.विद्यार्थियों के व्यक्तित्व का विकास होगा उनकी जीवन दृष्टि का विस्तार होगा जिससे वह जीवन एवं जीवन मूल्यों को समझने में सक्षम होंगे। 4.रचनात्मक कौशल में दक्षता होगी जिससे उन्हें रोजगार की अनेक संभावनाएं मिलेंगी। 5.पाठ्यक्रम के माध्यम से विद्यार्थी कार्यालय के कार्यों की मूलभूत जानकारी एवं कार्यशैली से परिचित हो सकेंगे। इस पाठ्यक्रम के माध्यम से सीखने सिखाने की प्रक्रिया में हिंदी भाषा के आरंभिक स्तर से अब तक के बदलते रूपों की जानकारी प्राप्त की जा सकेगी। 6.भाषा के सैद्धांतिक रूप के साथ साथ व्यावहारिक पक्ष को भी जाना जा सकेगा। 7.उच्च शैक्षिक स्तर पर हिंदी भाषा किस प्रकार महत्वपूर्ण भूमिका निभा सकती है इससे संबंधित परिणाम को प्राप्त किया जा सकेगा 8.छात्र अपनी भाषा को सीखने की प्रक्रिया में भाषागत मूल्यों को व्यावहारिक रूप से भी जान सकेंगे।
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शिक्षण प्रसारक मंडळ

दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा

आई.क्यू. ए.सी. एवं हिंदी विभाग

शिक्षण अधिगम प्रक्रिया [Teaching Learning Process]

2023-24

1. कक्षा व्याख्यान ।
2. सामूहिक चर्चा।
- 3.सामूहिक परिचर्चा और चयनित विषयों पर आधारित सेमिनार आयोजन ।
- 4.कक्षाओं में पठन-पाठन पद्धति ।
5. लिखित परीक्षा ।
- 6.आंतरिक मूल्यांकन
- 7.वाद-विवाद ।
- 8.काव्य वाचन पठन और आलोचनात्मक मूल्यांकन ।
9. कहानीकार और कहानी पर कक्षा संगोष्ठी आयोजन
- 10 कहानी वाचन


HEAD
Department of Hindi
Dalit Mitra Kadam Guruji
Vidnyan Mahavidyalaya Mangalwedha


For Principal
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Vidnyan Mahavidyalaya Mangalwedha
Tal-Mangalwedha Dist - Solapur



Dalit Mitra Kadam Gururaj Vasthyan Mahavidyalaya Mangalwedha
Programme Outcomes (Undergraduate Level) Arts Faculty
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 abovementioned 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.



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 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 Modern India	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 India
		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 Modern India	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.

Helsang
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 Dalit Mitra Kadam Guruji
 Vidyan Mahavidyalaya, Jalgaon



शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय
मंगळवेढा

मराठी विभाग

Outcome

एफ.वाय.बी.ए. - भाग-१

सत्र पहिले २०२३-२४

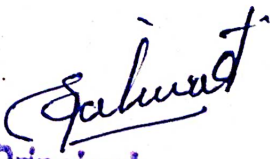
पाठ्यपुस्तक: साहित्य दर्पण - भाग पहिला

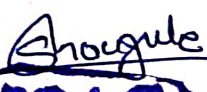
उद्दिष्टे :-

- १) विद्यार्थ्यांमध्ये मराठी भाषा साहित्याची जाणीव आणि अभिरुची समृद्ध करणे.
- २) विद्यार्थ्यांमध्ये मराठी भाषा प्रभावीपणे वापरण्याची क्षमता विकसित करणे.
- ३) मराठी भाषेतील लेखक आणि त्यांच्या साहित्याचा परिचय करून देणे.
- ४) विद्यार्थ्यांमध्ये राष्ट्रीय एकात्मता, मानवी मूल्ये यांची जागृती करणे.

***साध्य ***

- १) विद्यार्थ्यांमध्ये मराठी भाषा विषयी माहिती देऊन साहित्याची जाणीव आणि अभिरुची समृद्ध केली.
- २) विद्यार्थ्यांना मराठी भाषेचे फायदे सांगून विद्यार्थ्यांमध्ये मराठी भाषा प्रभावीपणे वापरण्याची क्षमता विकसित केली.
- ३) विद्यार्थ्यांना मराठी भाषेतील लेखक आणि त्यांच्या साहित्याचा परिचय करून दिला.
- ४) विद्यार्थ्यांना राष्ट्रीय एकात्मता काय आहे हे समजावून सांगितले व मानवी मूल्य यांची जागृती केली.


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एफ.वाय.बीए. - भाग-२

सत्र दुसरे - २०२३-२४

पाठ्यपुस्तक : साहित्य दर्पण - भाग दुसरा



उद्दिष्टे:-

- १) विद्यार्थ्यांमध्ये मराठी भाषा साहित्याची जाणीव आणि अभिरुची समृद्ध करणे.
- २) विद्यार्थ्यांमध्ये मराठी भाषा प्रभावीपणे वापरण्याची क्षमता विकसित करणे.
- ३) मराठी भाषेतील लेखक आणि त्यांच्या साहित्याचा परिचय करून देणे.
- ४) विद्यार्थ्यांमध्ये राष्ट्रीय एकात्मता मानवी मूल्य पर्यावरण व निसर्ग विषयक जाणीव यांची जागृती करणे.

साध्य

- १) विद्यार्थ्यांना मराठी भाषेविषयी, साहित्या विषयी माहिती देऊन त्यांच्यामध्ये मराठी साहित्य विषयी आवड निर्माण केली.
- २) विद्यार्थ्यांना मराठी भाषेचे फायदे सांगून त्यांच्यामध्ये मराठी भाषेची आवड निर्माण केली.
- ३) विद्यार्थ्यांना मराठी साहित्यातील लेखकांची आणि त्यांच्या साहित्याचा परिचय करून दिला.
- ४) विद्यार्थ्यांमध्ये राष्ट्रीय एकात्मता मानवी मूल्य यासंदर्भात प्रबोधन केले. व पर्यावरण व निसर्ग विषयक माहिती देऊन त्यांच्यामध्ये जागृती घडून आणली.

शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा
मराठी विभाग

Outcome

एस वाय बी ए. भाग- २

सत्र - ३

अभ्यास पत्रिका-३ (III) कादंबरी आणि उपयोजित मराठी

नेमलेली साहित्यकृती

रथ:- रंगनाथ पठारे (शब्दालय प्रकाशन)



उद्दिष्टे :-

- १) कादंबरीची सैद्धांतिक चौकट समजून घेणे
- २) कादंबरीच्या निर्मितीमधील वास्तव आणि कल्पित यांचा शोध घेणे.
- ३) कादंबरी आणि लेखक यांच्यातील सहसंबंध तपासणे.
- ४) कादंबरीची निर्मिती प्रक्रिया समजून घेणे.
- ५) कादंबरीतील आशय आणि अभिव्यक्ती यांचा परिचय करून घेणे.
- ६) रंगनाथ पठारे यांच्या साहित्याचा परिचय करून घेणे.
- ७) विद्यार्थ्यांमध्ये लेखनाची आवड निर्माण करणे.
- ८) विविध कौशल्य विकसित करून विद्यार्थी रोजगारक्षम बनवणे.
- ९) सभाधितपणा शिकून संभाषण कौशल्य निर्माण करणे.

साध्य :-

- १) विद्यार्थ्यांना कादंबरीची सैद्धांतिक चौकट समजून सांगितली व विद्यार्थ्यांनी समजावून घेतली.

शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा
मराठी विभाग

Outcome

एस वाय बी ए. भाग- २

सत्र - ३

अभ्यास पत्रिका-३ (III) कादंबरी आणि उपयोजित मराठी
नेमलेली साहित्यकृती

रथ:- रंगनाथ पठारे (शब्दालय प्रकाशन)



उद्दिष्टे :-

- १) कादंबरीची सैद्धांतिक चौकट समजून घेणे
- २) कादंबरीच्या निर्मितीमधील वास्तव आणि कल्पित यांचा शोध घेणे.
- ३) कादंबरी आणि लेखक यांच्यातील सहसंबंध तपासणे.
- ४) कादंबरीची निर्मिती प्रक्रिया समजून घेणे.
- ५) कादंबरीतील आशय आणि अभिव्यक्ती यांचा परिचय करून घेणे.
- ६) रंगनाथ पठारे यांच्या साहित्याचा परिचय करून घेणे.
- ७) विद्यार्थ्यांमध्ये लेखनाची आवड निर्माण करणे.
- ८) विविध कौशल्य विकसित करून विद्यार्थी रोजगारक्षम बनवणे.
- ९) सभाधितपणा शिकून संभाषण कौशल्य निर्माण करणे.

साध्य :-

- १) विद्यार्थ्यांना कादंबरीची सिद्धांतिक चौकट समजून सांगितली व विद्यार्थ्यांनी समजावून घेतली.



- २) विद्यार्थ्यांना कादंबरीच्या निर्मितीमधील वास्तव आणि कल्पित याचा शोध कसा घ्यावा हे समजावून सांगितले.
- ३) विद्यार्थ्यांना कादंबरी आणि लेखक यातील सहसंबंध कसा तपासावा याची माहिती दिली
- ४) विद्यार्थ्यांनी कादंबरीची निर्मिती प्रक्रिया समजावून घेतली.
- ५) विद्यार्थ्यांना कादंबरीतील आशय आणि अभिव्यक्ती यांचा परिचय करून दिला.
- ६) विद्यार्थ्यांना रंगनाथ पठारे यांच्या साहित्याचा परिचय करून दिला.
- ७) विद्यार्थ्यांमध्ये साहित्याच्या माध्यमातून लेखनाची आवड निर्माण करून दिली.
- ८) विद्यार्थ्यांमध्ये स्टेज डेरिंग वाढवून संभाषण कौशल्य निर्माण केले.

एस वाय बी ए. भाग- २
सत्र -३ अभ्यास पत्रिका -५ (V)
आत्मकथन आणि उपयोजित मराठी
नेमलेली साहित्यकृती
जगायचे प्रत्येक सेकंद मंगला केवळे ग्रंथाली प्रकाशन पुणे



उद्दिष्टे :-

- १) आत्मकथन म्हणजे काय ते समजून सांगणे
- २) दलित आत्मकथनाच्या प्रेरणा समजून घेऊन त्यातील मूल्यात्मकता तपासणे.
- ३) आत्मचरित्र आणि आत्मकथन अथवा आत्मकथा यातील फरक समजावून सांगणे.
- ४) आत्मकथनाची मराठी वाटचाल समजून सांगणे.
- ५) आत्मकथनाच्या वाचनातून लेखिकेचे आणि तिच्या समाजाचे जीवन समजून सांगणे.
- ६) आत्मकथनाचे वाग्मयीन मूल्य तपासणे.
- ७) मंगला केवळे यांच्या जगण्याचा मूल्य संघर्ष तपासणे.
- ८) उपयोजित मराठीचे व्यवहारिक मूल्य समजावून सांगून रोजगार निर्मिती करणे.

साध्य :-

- १) विद्यार्थ्यांना आत्मकथन म्हणजे काय हे समजावून सांगितले.
- २) विद्यार्थ्यांना दलित आत्मकथनाच्या प्रेरणा काय आहे हे समजावून सांगितले व त्यातील मूल्यात्मकता याविषयी माहिती दिली.
- ४) विद्यार्थ्यांना आत्मकथनाची मराठी वाटचाल समजून सांगितली व त्याविषयी सखोल अशी माहिती दिली.



- ५) विद्यार्थ्यांना आत्मकथनाच्या वाचनातून लेखिकेचे आणि तिच्या समाजाचे जीवन समजून सांगितले.
- ६) विद्यार्थ्यांना मंगला केवळे यांच्या जगण्याचा मूल्य संघर्ष सांगितला.
- ७) विद्यार्थ्यांना उपयोजित मराठीचे व्यवहारिक मूल्य समजावून सांगितले व त्यातून रोजगार निर्मिती आपल्याला कशी निर्माण करता येऊ शकते याविषयी माहिती दिली.

मराठी विभाग

Outcome

२०२३-२४

(DSE-IX) टी.वाग.बीए.

पेपर नं-२



मध्ययुगीन मराठी वाङ्मयाचा इतिहास इ.स. सन ११०१ ते १८०० (पूर्वार्ध)

उद्दिष्टे :

- १) मध्ययुगीन मराठी वाङ्मयाची परंपरा व इतिहास यांचा परिचय करून घेणे.
- २) मध्ययुगीन मराठी वाङ्मयातील निर्मितीच्या प्रेरणांचा परिचय करून घेणे.
- ३) मध्ययुगीन मराठी वाङ्मयाचे स्वरूप व वैशिष्ट्ये यांचा परिचय करून घेणे.
- ४) मध्ययुगीन मराठी वाङ्मयाच्या सांस्कृतिक पार्श्वभूमी समजून घेणे.
- ५) मध्ययुगीन कालखंडातील प्रमुख संप्रदाय व ग्रंथ निर्मिती यांचा अनुबंध स्पष्ट करणे.

साध्य:-

- १) विद्यार्थ्यांनी मध्ययुगीन मराठी वाङ्मयाची परंपरा व इतिहास समजून घेतला.
- २) विद्यार्थ्यांनी मध्ययुगीन मराठी वाङ्मयातील निर्मितीच्या प्रेरणांचा परिचय करून घेतला.
- ३) विद्यार्थ्यांनी मध्ययुगीन मराठी वाङ्मयाचे स्वरूप वैशिष्ट्ये यांचा परिचय करून घेतला.
- ४) विद्यार्थ्यांनी मध्ययुगीन मराठी वाङ्मयाच्या सांस्कृतिक पार्श्वभूमीची उकल करून तो घटक समजून घेतला.
- ५) मध्ययुगीन कालखंडातील प्रमुख संप्रदाय व ग्रंथ निर्मिती यांचा अनुबंध स्पष्ट केला.

मराठी विभाग

Outcome

२०२३-२४

टी. वाय. बी.ए.

पेपर नं - ११ (DSE-XI)

आधुनिक मराठी साहित्यातील विविध प्रवाह (ग्रामीण व दलित)

उद्दिष्टे :-

- १) आधुनिक मराठी साहित्यातील प्रवाहांच्या निर्मितीची पार्श्वभूमी समजावून घेणे.
- २) ग्रामीण व दलित साहित्य प्रवाहांची संकल्पना प्रेरणा स्वरूप व वैशिष्ट्ये विशद करणे.
- ३) ग्रामीण व दलित साहित्य प्रवाहांचा उद्गम व विकास स्पष्ट करणे.
- ४) ग्रामीण कादंबरीचे स्वरूप सांगून नेमलेल्या साहित्यकृतीतील असे सूत्रे ग्रामीण जीवन भाषा यांचे वेगळेपण विशद करणे.
- ५) दलित आत्मकथनांचे स्वरूप समजावून घेऊन नेमलेल्या साहित्यकृतीतील आशय सामाजिकता वैचारिकता भाषा विशद करणे.

साध्य :-

- १) विद्यार्थ्यांनी आधुनिक मराठी साहित्यातील प्रवाहांच्या निर्मितीची पार्श्वभूमी समजावून घेतली.
- २) विद्यार्थ्यांनी ग्रामीण व दलित साहित्य प्रवाहाची संकल्पना प्रेरणा स्वरूप वैशिष्ट्ये जाणून घेतली.
- ३) विद्यार्थ्यांनी ग्रामीण व दलित साहित्य प्रवाहांचा उद्गम व विकास समजावून घेतला.
- ४) विद्यार्थ्यांनी ग्रामीण कादंबरीचे स्वरूप, नेमलेला साहित्यकृतीतील आशय सूत्रे ग्रामीण जीवन चित्रण , भाषा यांचे वेगळेपण, चांगल्या पद्धतीने समजावून घेतले.
- ५) विद्यार्थ्यांनी दलित आत्मकथनांचे स्वरूप व नेमलेला साहित्य नेमलेला साहित्यकृतीतील आशय सामाजिकता वैचारिकता भाषा यांचा सखोल अभ्यास करून हे घटक समजावून घेतले.

मराठी विभाग

Outcome

२०२३-२४

टी. वाय. बी. ए

पेपर - १४ (DSE :- XIV)



मध्ययुगीन मराठी वाङ्मयाचा इतिहास इ.स. सन ११०१ ते १८०० (उत्तरार्ध)
उद्दिष्टे :

- १) मध्ययुगीन मराठी वाङ्मयातील परंपरा व इतिहास यांचा परिचय करून घेणे.
- २) मध्ययुगीन मराठी वाङ्मयातील निर्मितीच्या प्रेरणांचा परिचय करून घेणे.
- ३) मध्ययुगीन मराठी वाङ्मयाचे स्वरूप वैशिष्ट्ये यांचा परिचय करून घेणे.
- ४) मध्ययुगीन मराठी वाङ्मयाच्या सांस्कृतिक पार्श्वभूमीची उकल करणे.
- ५) मध्ययुगीन कालखंडातील प्रमुख संप्रदाय व ग्रंथ निर्मिती यांचा अनुबंध स्पष्ट करणे.

साध्य:-

- १) विद्यार्थ्यांनी मध्ययुगीन मराठी वाङ्मयातील परंपरा व इतिहास यांच्या परिचय करून घेतला.
- २) विद्यार्थ्यांनी मध्ययुगीन मराठी भाग माहिती निर्मितीच्या प्रेरणांचा परिचय करून घेऊन तो घटक समजून घेतला.
- ३) विद्यार्थ्यांनी मध्ययुगीन मराठी वाङ्मयाचे स्वरूप वैशिष्ट्ये यांचा अभ्यासपूर्वक परिचय करून घेतला.
- ४) विद्यार्थ्यांनी मध्ययुगीन मराठी वाङ्मयाच्या सांस्कृतिक पार्श्वभूमीची ओळख करून घेतली व तो घटक चांगला पद्धतीने समजावून घेतला.
- ५) विद्यार्थ्यांनी मध्ययुगीन कालखंडातील प्रमुख संप्रदाय व ग्रंथ निर्मिती यांचा अनुबंध समजावून घेऊन तो चांगल्या पद्धतीने स्पष्ट केला.



मराठी विभाग
Outcome

२०२३-२४

टी.वाय.बीए. पेपर नं -16 (DSE-XVI)
आधुनिक मराठी साहित्यातील विविध प्रवाह
(स्त्रीवादी व मुस्लिम)

उद्दिष्टे :

- १) आधुनिक मराठी साहित्यातील प्रवाहांच्या निर्मितीची पार्श्वभूमी समजावून सांगणे.
- २) स्त्रीवादी व मुस्लिम साहित्य प्रवाहांची संकल्पना प्रेरणा व स्वरूप विशद करणे .
- ३) स्त्रीवादी व मुस्लिम साहित्य प्रवाहांचा उद्गम व विकास स्पष्ट करणे .
- ४) स्त्रीवादी कथांचे स्वरूप सांगून नेमलेल्या कलाकृतीतील आशयसूत्रे, समाजचित्रण, घटना प्रसंग व्यक्तिरेखा व भाषा विशद करणे.
- ५) मुस्लिम कवितेचे स्वरूप सांगून नेमलेला कवितासंग्रहातील आशय जीवन संघर्ष मुस्लिम कवितेचे स्वरूप सांगून नेमलेला कवितासंग्रहातील असे जीवन संघर्ष, सामाजिकता वैचारिकता व भाषा स्पष्ट करून सांगणे.

साध्य :-

- १) विद्यार्थ्यांनी आधुनिक मराठी साहित्यातील प्रवाहांच्या निर्मितीची पार्श्वभूमी समजावून घेतली.
- २) विद्यार्थ्यांनी स्त्रीवादी व मुस्लिम साहित्य प्रवाहाची संकल्पना प्रेरणा व स्वरूप या घटकांची ओळख करून हे घटक चांगल्या पद्धतीने समजावून घेतले.
- ३) विद्यार्थ्यांनी स्त्रीवादी व मुस्लिम साहित्य प्रवाहांचा उद्गम व विकास या घटकांचा अभ्यास करून हे घटक स्पष्ट केले.
- ४) विद्यार्थ्यांना स्त्रीवादी कथांचे स्वरूप व नेमलेला कलाकृतीतील आशय सूत्रे समाजचित्रण घटना प्रसंग व्यक्तिरेखा व भाषा या घटकांची ओळख करून दिली हे घटक योग्यरीत्या समजावून घेतले.
- ५) विद्यार्थ्यांनी मुस्लिम कवितेचे स्वरूप व नेमलेला कवितासंग्रहातील आशय जीवन संघर्ष सामाजिकता वैचारिकता व भाषा या सगळ्या घटकांचा अभ्यास करून हा घटक समजावून घेतला.

शिक्षण प्रसारक मंडळ मंगळवेढा
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महाविद्यालय मंगळवेढा
मराठी विभाग
Outcome
२०२३-२४



Prof.Bhojane P.T

Gulurast
Principal
Dalt Mitra Kadam Guruji
Mahavidyalaya Mangalwedha

Bhousule
IQAC
Coordinator
Dalt Mitra Kadam Guruji Vidnyan

HB
HEAD
Department of Marathi

दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा

मराठी विभाग

Outcome

BA -१. Sem १



Paper Name - Marathi (optional) साहित्य रंग.

उद्दिष्टे -

१. मराठी भाषा व साहित्याची जाणीव व अभिरुची निर्माण मराठी भाषेतील लेखक व त्यांच्या साहित्याचा परिचय करून देणे.
२. मराठी भाषेतील कथाकार आणि त्यांच्या कथांचा परिचय करून देणे.
३. मराठी साहित्यातील विविध प्रवाहांची ओळख करून देणे.
- * विद्यार्थ्यांना कथा या साहित्य प्रकाराची संकल्पना , स्वरूप व परंपरा समजावून देणे.
४. विद्यार्थ्यांना भाषेचे उपयोजन शिकविताना बातमी लेखन कौशल्य शिकवणे.

साध्य

१. *मराठी भाषा व साहित्याची जाणीव अभिरुची आत्मसात करून घेतली.
- *मराठी भाषेतील लेखक व त्यांच्या साहित्याचा परिचय करून घेतला.
२. मराठी भाषेतील कथाकार आणि त्यांच्या कथांचा परिचय करून घेतला.
३. मराठी साहित्यातील विविध प्रवाहांची ओळख करून घेतली.
- *विद्यार्थ्यांनी कथा या साहित्य प्रकाराची संकल्पना स्वरूप व परंपरा समजून घेतली.
४. विद्यार्थ्यांनी बातमी लेखन कौशल्य आत्मसात केले

शिक्षण प्रसारक मंडळ मंगळवेढा
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मराठी विभाग

Outcome

BA-१. Sem -२

Paper name-Marathi (optional) साहित्यरंग

उद्दिष्टे

१. विद्यार्थ्यांमध्ये मराठी भाषा आणि साहित्याची जाणीव निर्माण करणे.
२. कवी आणि त्यांच्या कवितांचा परिचय करून देणे.
- *कविता वाङ्मय प्रकाराची माहिती करून देणे.
३. कवी, त्यांच्या कवितांचा आशय व अविष्कार शैली यांचा परिचय करून देणे.
४. निबंध लेखन कौशल्य शिकवणे.

साध्य

१. विद्यार्थ्यांनी मराठी भाषा आणि साहित्याची जाणीव आत्मसात केली.
२. कवी आणि त्यांच्या कवितांचा परिचय करून घेतला.
- *कविता या वाङ्मय प्रकाराची माहिती आत्मसात केली.
३. कवी त्यांच्या कवितांचा आशय व आविष्कार शैली यांचा परिचय करून घेतला.
४. निबंध लेखन कौशल्य आत्मसात केले.



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मराठी विभाग

Outcome

BA-२. Sem-३

Paper NO- ४



Paper Name - कविता आणि काव्यास्वाद (तुकोबा-राजेंद्र दास)

उद्दिष्टे

१. *कविता या वाङ्मय प्रकाराची ओळख करून घेणे.
*मराठी कवितेची वाटचाल अभ्यासणे.
२. राजेंद्र दास यांचा परिचय करून घेणे व त्यांचे कार्य विषयक भूमिका समजून घेणे.
३. कवितेचा आशय, जीवनदर्शन व भाषा शैली समजावून घेणे.
४. काव्यस्वाद व काव्य रसग्रहण कौशल्य विकसित करणे.

साध्य

१. *विद्यार्थ्यांनी कविता या वाङ्मय प्रकाराची ओळख करून घेतली.
*मराठी कविता ची वाटचाल मसाज केली
२. विद्यार्थ्यांनी राजेंद्र दास यांचा परिचय करून घेतला आणि त्यांची काव्य विषयक भूमिका आत्मसात केली.
३. विद्यार्थ्यांनी कवितेचा आशय जीवनदर्शन व भाषाशैली समजावून घेतली.
४. विद्यार्थ्यांनी काव्यास्वाद व काव्यरसग्रहण कौशल्य विकसित करून घेतले.

शिक्षण प्रसारक मंडळ मंगळवेढा
वलित मित्र कवय महाविद्यालय मंगळवेढा

मराठी विभाग

Outcome

BA२.

Sem-४

Paper NO- ६

Paper name- नाटकाने उपयोजित मराठी. (अधांतर: जयंत पवार)



उद्दिष्टे

१. *नाटक वाङ्मय प्रकाराची ओळख करून घेणे.

*नाटकाचे घटक समजून घेणे.

२. *जयंत पवार यांचा जीवन परिचय करून घेणे.

जयंत पवार यांची नाट्य विषयक तसेच जीवन विषयक भूमिका समजून घेणे .

३. 'अधांतर' या नाटकाचे कथानक, पात्र चित्रण, घटना प्रसंग, संवाद, भाषाशैली व सामाजिक आशय आत्मसात करणे .

४. संवाद लेखनाचे मूल्य विकसित करणे.

साध्य

१. *विद्यार्थ्यांनी नाटक प्रकाराची ओळख करून घेतली.

*नाटकाचे घटक समजावून घेतले.

२. *विद्यार्थ्यांनी जयंत पवार यांचा जीवन परिचय करून घेतला.

*नाट्य विषयक जीवन विषयक भूमिका आत्मसात केली.

३. विद्यार्थ्यांनी अदानंतर या नाटकाचे कथानक पात्र चित्रण ,घटना प्रसंग ,संवाद व भाषाशैली सामाजिक आशय आत्मसात करून घेतला.

४. विद्यार्थ्यांनी संवाद लेखनाचे कौशल्य विकसित करून घेतले.

शिक्षण प्रसारक मंडळ मंगळवेढा
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मराठी विभाग

Outcome

BA -३. Sem -५

Paper NO- ७. Paper Name -साहित्यशास्त्र (पूर्वार्ध)



उद्दिष्टे

१. साहित्य लक्षणे संबंधीच्या विविध सिद्धांतांचा परिचय करून घेणे.
२. साहित्याचे स्वरूप समजून घेणे.
३. साहित्याच्या विविध प्रयोजनांचा परिचय करून घेणे.
४. साहित्य निर्मितीच्या कारणांची माहिती करून घेणे.
५. शब्दशक्तीचा परिचय करून घेणे.

साध्य

१. साहित्य लक्षणासंबंधीच्या विविध सिद्धांतांचा परिचय आत्मसात केला .
२. साहित्याचे स्वरूप समजून घेतले.
३. साहित्याच्या विविध प्रयोजनांचा परिचय करून घेतला.
४. साहित्य निर्मितीच्या कारणांची माहिती करून घेतली.
- शब्दशक्तीचा परिचय करून घेतला.

शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा

मराठी विभाग

Outcome

BA -३. Sem ६

Paper NO-१२

Paper Name _ साहित्यशास्त्र (उत्तरीय)



उद्दिष्टे

१. इस विभागाचे स्वरूप व कार्य समजावून देणे.
२. साहित्याचा भाषा विभाग समजावून देणे.
३. साहित्य श्रवणाची आधुनिक कल्पना देणे.
४. साहित्य विषयक विद्यार्थ्यांनी आधुनिक दृष्टिकोन देणे.

साध्य

१. इस विभागाचे स्वरूप व कार्य समजावून घेणे.
२. साहित्याचा भाषा विभाग समजावून घेणे.
३. साहित्य श्रवणाची आधुनिक निर्वाण झाली.
४. साहित्य विषयक विभाग वरिष्ठ आधुनिक दृष्टिकोन झाला.

शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा

मराठी विभाग

Outcome

BA-३, Sem-५

Paper NO-८.



Paper name- भाषा विज्ञान व व्याकरण (पूर्वार्ध)

उद्दिष्टे

१. मानवी जीवनातील भाषेचे महत्त्व भाषिक संप्रेषणाचा परिचय करून देणे.
२. भाषाविषयक वैज्ञानिक दृष्टिकोन विकसित करणे. मराठी भाषेची पूर्व पिढिका समजावून देणे.
३. भाषा परिवर्तनाचे स्वरूप स्पष्ट करणे.
४. मराठी भाषेचे व्याकरण समजावून सांगणे.

साध्य

१. विद्यार्थ्यांनी मराठी भाषेचे महत्त्व आत्मसात केले.
- * भाषिक संदेशान कसे करावे हेही समजून घेतले.
२. विद्यार्थ्यांनी भाषाविषयक वैज्ञानिक दृष्टिकोन विकसित करून घेतला आणि मराठी भाषेचा पूर्व इतिहास समजून घेतला.
३. विद्यार्थ्यांनी भाषा परिवर्तनाची कारणे व प्रकार आत्मसात केले.
४. विद्यार्थ्याने मराठी व्याकरणातील स्वर, व्यंजने व शब्दांचे विविध प्रकार आत्मसात केले.

शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा.

मराठी विभाग.

Outcome

BA -३. Sem-६

Paper NO-१३

Paper name- भाषा विज्ञान व व्याकरण. (उत्तरार्ध)

उद्दिष्टे

१. वर्णनात्मक भाषा विज्ञानाचे स्वरूप समजावून घेणे.
२. भाषा आणि बोली यांच्यातील परस्पर संबंध लक्षात घेणे.
३. मराठी वरील फारसी, हिंदी व इंग्रजी या भाषांचा प्रभाव समजावून घेणे.
४. मराठी भाषेची व्याकरणी व्यवस्था समजावून घेणे.

साध्य

१. विद्यार्थ्यांनी वर्णनात्मक भाषा विज्ञानाचे स्वरूप समजावून घेतले.
२. उद्या त्यांनी भाषा आणि बोली. परस्पर संबंध लक्षात घेतले
३. विद्यार्थ्यांनी फारसी, हिंदी व इंग्रजी भाषांचा प्रभाव आत्मसात केला.
४. विद्यार्थ्यांनी मराठी भाषेची व्याकरणिक व्यवस्था आत्मसात केली



शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा

मराठी विभाग

Outcome

BA-३. Sem-५

Paper NO-१०



Paper name-उपयोजित मराठी (पूर्वार्ध)

उद्दिष्टे

१. विद्यार्थ्यांना पारिभाषिक शब्दांचा परिचय करून देऊन पारिभाषिक शब्दांची नवनिर्मिती करण्यासाठी प्रेरित करणे.
२. संगणक युगात ई मराठी लेखनाचे महत्त्व सांगून ते करण्यास प्रवृत्त करणे.
३. मुद्रित शोधण्याचे महत्त्व सांगून त्यांचा सराव करणे.
४. स्पर्धा परीक्षेत यश संपादन करण्यासाठी भाषिक कौशल्यांचा विकास करणे.

साध्य

१. विद्यार्थ्यांना पारिभाषिक शब्दांचा परिचय करून देऊन पारिभाषिक शब्दांची नवनिर्मिती करण्यास प्रेरित केले.
२. संगणक युगात मराठी लेखनाचे महत्त्व सांगून ते घेण्यास तयार झाले, त्यांनी आत्मसात केले.
३. मुद्रित शोधण्याचे महत्त्व सांगून त्यांचा सराव करून घेतला.
४. स्पर्धा परीक्षेत यश संपादन करण्यासाठी विद्यार्थ्यांचा भाषिक कौशल्यांचा विकास करून घेतला.

शिक्षण प्रसारक मंडळ मंगळवेढा
दलित मित्र कदम गुरुजी विज्ञान महाविद्यालय मंगळवेढा.

मराठी विभाग

Outcome

BA -३. Sem-६

Paper NO-१५

Paper name- उपयोजित मराठी (उत्तरार्ध)



उद्दिष्टे.

१. मराठी भाषेचे विविध क्षेत्रातील महत्त्व व उपयोजन विद्यार्थ्यांना समजावून सांगणे.
२. जाहिरात कलेचे उपयुक्तता स्पष्ट करून संहिता लेखनाचे कौशल्य शिकवणे. ३. प्रसारमाध्यमे आणि बदलत्या जीवनशैलीची गरज ओळखून विद्यार्थ्यांमध्ये निवेदन कौशल्य विकसित करणे.

*ग्रंथ परीक्षण कौशल्य अवगत करून घेणे.

४. विद्यार्थ्यांमध्ये साहित्य कलेची आवड निर्माण होण्यासाठी विविध साहित्य सहल यांचे आयोजन करून प्रवास वर्णने स्थळ निसर्ग सहानुभव पर लेखन करून घेणे.

साध्य

१. मराठी भाषेचे विविध क्षेत्रातील महत्त्व व उपयोजन विद्यार्थ्यांनी समजून घेतले.
२. जाहिरात केल्याची उपयुक्तता संहिता लेखनाचे कौशल्य आत्मसात केले
३. प्रसारमाध्यमे आणि बदलत्या जीवनशैलीची गरज ओळखून विद्यार्थ्यांनी निवेदन कौशल्य आत्मसात केले.

*ग्रंथ परीक्षण कौशल्य अवगत करून घेतले.

४. विद्यार्थ्यांमध्ये साहित्य कलेचे आवड निर्माण होण्यासाठी विविध साहित्य सहलींचे आयोजन करून प्रवास वर्णने स्थळ निसर्ग स्वानुभव पर लेखन घेतले

Shikshan Prasarak Mandal

Dalit Mitra Kadam Guruji Vidya Mahavidyalaya Mangalwedha

Program Outcomes 2023 -24

Program Outcomes: Science Faculty

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.
- 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

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

Dalit Mitra Kadam Guruji Vidnyan Mahavidyalay Mangalwedha

Department of Mathematics

Course outcomes

B.Sc. I Sem I

Algebra I

1. Understand the properties of matrices.
2. Solve the system of linear homogenous equation.
3. Find eigen values and eigen vectors.
4. Evaluate the limit and examine the continuity of a function.

B.Sc I sem I

Calculus

1. To understand the limit and continuity of the function.
2. Evaluate the limits of multivariable functions.
3. Study the directional derivative of vectors.
4. Find the gradient of the vectors.
5. Apply Leibnitz theorem to obtain higher order derivatives.

B.Sc. I Sem II

Geometry

1. To understand the properties of plane and sphere.
2. To evaluate the change in equation after translation and rotation of the axes.
3. Basic properties of tangent planes and spheres and their equation.
4. Understand types of differential equations.
5. Solve different types of ordinary differential equation.
6. Understand applications of differential equations.

B.Sc. I Sem II

Differential Equation

1. Understand types of differential equations.
2. Solve different types of ordinary differential equation.
3. Study the differential equation with constant coefficient.
4. Study the total differential equation

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B.Sc. II Sem III

Differential Calculus

1. To study the concept of slope , angle of intersection between the curves
2. To evaluate the equation of tangents and normals of the curves.
3. Study the jacobians of the functions and the dependency of the functions.
4. To evaluate the maximum and minimum values of the function.

Laplace Transforms

1. Study the laplace transforms of the various functions and evaluation.
2. Study the inverse laplace transforms and use of the inverse forms.
3. Application of laplace transforms to solve the differential equation.

B.Sc II Sem IV

Abstract algebra

1. Proof of Lagranges theorem and its uses.
2. Proof of Fermats theorem and its uses.
3. Understand the properties of normal and factor groups.
4. Define homomorphism and isomorphism in groups.

Differential Equation

1. Study the differential equation and its order and degrees.
2. Evaluate the various forms of the differential equation.
3. Study linear differential equations with constant coefficients.
4. Various forms of linear differential equation.



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	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.

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Shougule
IQAC
 Coordinator
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2	B.Sc.-I	SEM-I	PAPER NO-II	OPTICS	1. Understand technical applications of simple optical instruments. 2. Understand and explain the different optical method of testing and measuring of various physical parameters 3. Understand Fermat's principle, explain about different aberrations in lenses and discuss the method to minimize them. 4. Understand the types of eyepieces and construction and working of spectrometer and
					optical bench for determining various optical values. 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. 6. Explain Schuster method, Distinguish between diffraction and interference patterns, prism and grating spectra 7. Comprehended the basic principle of laser and its parts, the construction and working of He-Ne and Ruby laser. 8. Solve problems using suitable assumptions and formulae as well as able to assess the results.



3	B.Sc.-I	SEM-II	PAPER NO-III	HEAT AND THERMODYNAMICS	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 thermodynamical relations using entropy concept.
4	B.Sc.-I	SEM-II	PAPER NO-IV	ELECTRICITY, MAGNETISM AND BASIC ELECTRONICS	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
					and applying then to determine magnetic induction and also understand Ballistic Galvanometer theory and its constants. 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	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	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.
7	B.Sc.-II	SEM-IV	PAPER NO-VII	OPTICS	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	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.



Dalit Mitra Kadam Guruji Vidnyan Mahavidyalaya, Mangalwedha

Department of physics

B.Sc. (2023-24)

Program Specific Outcomes

1. Students get acquainted with techniques which are useful in industry.
2. Students get conceptual knowledge of entrepreneurship through the co-curricular activities
3. learn the organizational skills and working in group.
4. Students will be well versed with use of computers

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Department of Physics

B.Sc.- I (Sem-I&II)

Program Outcomes

1. Demonstrate a rigorous understanding of the core theories and principles of Physics, which includes Mechanics, Electromagnetism, Heat and Thermodynamics and Optics.
2. Learn the concepts of Physics in order to understand nature at atomic levels.
3. Provide the knowledge about material properties and its application for developing technology to ease the problems related to the society.
4. Understand the set of physical laws, describing the motion of bodies, under the influence of system of forces.
5. Understand the physical properties of molecule, the chemical bonds between atom as well as molecular dynamics.
6. The experimental skills were developed through a series of experiment
7. Students will demonstrate an understanding of the impact of physics on society.

Course Outcome

Title of the paper: Mechanics and Properties of Matter (Paper-I)

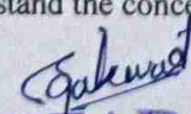
Course Objectives:

1. To analyze Kinematics and Dynamics of fluid flow.
2. To understand the concept of buoyancy and viscous flow.

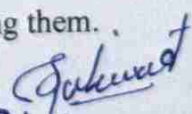
Course Outcomes:

On successful completion of this course students will be able to

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.


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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.

Title of the paper: Optics (Paper- II)

Course Objectives:

1. Understanding of the behavior and properties of light and its interaction with matter.
2. To apply the concepts on various optical systems.
3. To relate various optical rules in real time scenario.

Course Outcomes:

On successful completion of this course student will be able to:

1. Understand technical applications of simple optical instruments.
2. Understand and explain the different optical method of testing and measuring of various physical parameters Understand
3. Fermat's principle, explain about different aberrations in lenses and discuss the method to minimize them.
4. Understand the types of eyepieces and construction and working of spectrometer and optical bench for determining various optical values.
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.
6. Explain Schuster method, Distinguish between diffraction and interference patterns, prism and grating spectra.
7. Comprehended the basic principle of laser and its parts, the construction and working of He-Ne and Ruby laser.
8. Solve problems using suitable assumptions and formulae as well as able to assess the results.



Title of the paper: Heat and Thermodynamics (Paper-III)

Course Objective:

1. Understand the role of the internal energy, enthalpy, entropy and pressure.
2. Understand the role of thermodynamic cycles, availability and irreversibility.

Course Outcomes:

After successfully completing this course, the student will be able to do the following

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.

Title of the paper: Electricity, Magnetism and Basic Electronics (Paper-IV)

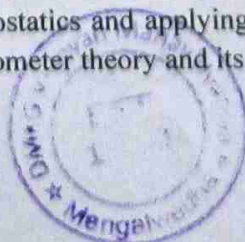
Course Objectives:

1. This paper deals with the study of Electric field, Magnetic field and Electromagnetic theory.
2. The unit deals with the physics behind the Magnetostatics.

Course Outcomes:

On successful completion of this course students

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 and applying them to determine magnetic induction and also understand Ballistic Galvanometer theory and its constants.



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.

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Department of Physics

B.Sc.-II (Sem-III&IV)

Program Outcomes

1. To understand the basic laws and explore the fundamental concepts of physics.
2. To understand the concepts and significance of the various physical phenomena.
3. To carry out experiments to understand the laws and concepts of physics.
4. To apply the theories learnt and the skills acquired to solve real time problems.
5. To acquire a wide range of problem-solving skills, both analytical and technical and to apply them.
6. To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens.
7. To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community

Course Outcomes

Title of the paper: General Physics and Sound (Paper-V)

Course Objective:

1. To apply scientific and technical knowledge and skills of physics to other areas of a study.
2. To realize basic concepts, principles, laws and the theories related to various scientific phenomena.
3. To apply theories and solve problems faced in real life.

Course Outcomes:

After completion of the course the students

1. Understand vector analysis, differential operators and their physical significance.
2. Understand the concepts of precession, nutation and its applications.
3. Understand the concept of elasticity and its relevance.

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4. Understand the concept of viscosity and different viscometer.
5. Illustrate concept of acoustics and its applications.
6. Develop problem solving skills and able to assess the results.

Title of the paper: Electronic Devices and Applications (Paper-VI)

Course Objective:

1. The objective of this course is to introduce students to the basic knowledge of semiconductor devices and Digital Electronics, their practical applications.
2. This course mainly introduces basic electronic devices namely Transistor's amplifiers, Oscillators, Cathode Ray Oscilloscope, Field effect transistors (FETs) and Unijunction transistor (UJT).

Course Outcomes:

After completion of the course the students

1. Understand the basic theory and operation of semiconductor devices used for its circuit applications.
2. Understand the basic circuit concepts and responses.
3. Get hands-on on various electronic circuits and instruments.
4. Get expose to electronics technologies.

Title of the paper: - Geometrical, Physical and Fiber Optics (Paper-VII)

Course Objective:

1. To apply skills of geometrical, physical and fiber optics to other areas of a study.
2. To apply theories and solve problems faced in real life.
3. To perform the experiments as a) Goniometer for equivalent focal length b) Diffraction at single slit c) Resolving power of grating d) Optical activity by polarimeter

Course Outcomes:

After completion of the course the students

1. Understand the cardinal points of lens system



2. Understand the phenomenon of interference of light. Michelson's interferometer and F-P interferometer and its applications
3. Understand phenomenon of diffraction of light and use of zone plate
4. Understand concept of resolving power and find R.P of prism and grating
5. Understand polarization, optically active substance and its use in polarimeter
6. Understand of optical fiber and its use in communication system

Title of the paper: Modern Physics (Paper-VIII)

Course Objective:

- 1) To provide an understanding of physical concepts and theories of modern physics.
- 2) To provide an advance description of nature through new theories different from classical description.
- 3) To introduce the special theory of relativity, wave-particle duality and atomic physics.
- 4) To introduce production of X-rays and their applications.

Course Outcomes:

After completion of the course the students

- 1) Understanding of modern theories and evolution of physics from classical to its modern era.
- 2) Understand the intuitive ideas of the relativity.
- 3) Understand the nature of light in the form wave-particle duality.
- 4) Describe crystal structure with X-ray diffraction.

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 Department of Physics
 Dalit Mitra Kadam Guruji
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Shikshan Prasarak Mandal's
Dalit Mitra Kadam Guruji Vidnyan Mahavidyalaya, Mangalwedha.
Department of Zoology
Academic Year 2023 – 2024

**Zoology Program Outcomes, Program Specific Outcomes and
Course Outcomes**

Domain Subject: ZOOLOGY

“The domain subject “Zoology”, embracing the fields of Animal diversity , Comparative anatomy & development biology of vertebrates, Cell biology, Evolution, Animal physiology, Biochemistry, Embryology, Immunology, Molecular biology and Ecology gives the student a broad understanding of faunal diversity, various life processes involved in the development of an animal, its functioning, its response to environmental stimuli, molecular basis of life, new technological approach towards life, an insight for the lecturer into research and responsibility of the student towards environment”.

Zoology Program Outcomes:

- PO 1:** Zoology is one of the most fundamental branches of biology to learn and understand animal diversity to appreciate the variability in relation to their morphology, anatomy and behavior among different animals. Students will be equipped to learn and know about different human systems, their coordination and control.
- PO 2:** Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms.
- PO 3:** Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment.
- PO 4:** Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- PO 5:** Practical and theoretical skills gained in this course will be helpful in designing different public health strategies for social welfare.
- PO 6:** Understands the complex evolutionary processes and behavior of animals.

PO 7: Correlates the physiological processes of animals and relationship of organ systems.

PO 8: Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.

PO 9: Gain knowledge of small scale industries like sericulture, fish farming, bee keeping, aquaculture, animal husbandry, poultry farm.

PO 10: Understands about various concepts of genetics and its importance in human health.

PO 11: Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.

PO 12: Apply the knowledge and understanding of Zoology to one's own life and work.

PO 13: Develops empathy and love towards the animals

Program Specific Outcomes:

PSO 1: Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, biochemistry, ecology, evolutionary biology, developmental biology and applied and economic zoology.

PSO 2: Analyse the relationships among animals, plants and microbes.

PSO 3: Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology, Sericulture, Biochemistry, Fish biology, Animal biotechnology.

PSO 4: Understand the applications of biological sciences in Apiculture, Aquaculture, Sericulture, Animal Husbandry and Poultry Farm.

PSO 5: Gains knowledge about effective communication and skills of problem solving methods.

PSO 6: Take appropriate steps towards conservation of endemic and endangered animal species.



Course Outcomes:

Class: B.Sc. I (Sem I) Theory

Course Title: Animal Diversity- I (Paper I)

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: Describe general taxonomic rules on animal classification

CO 2: Classify Kingdom Protista up to classes with taxonomic keys

CO 3: Classify Phylum Platyhelminthes to Annelida phylum using examples from parasitic adaptation and vermin composting

CO 4: Describe Phylum Arthropoda to Mollusca using examples and importance of insects and Molluscs

CO 5: Describe Echinodermata to Hemichordata with suitable examples and larval stages in relation to the phylogeny

Class: B.Sc. I (Sem I) Theory

Course Title: Animal Diversity- II (Paper II)

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: Conceptual knowledge of vertebrate adaptations in relation to their environment

CO 2: Knowledge of classification of protochordates and chordates with examples.

CO 3: Understand Mammals with specific structural adaptations

CO 4: Understand the venomous and non-venomous snakes and its biting mechanism.

CO 5: Understand the structure and functions of Digestive, Respiratory and Circulatory system of Aves, Mammals Pisces and Reptiles.

Class: B.Sc. I (Sem II) Theory

Course Title: Comparative Anatomy of vertebrates (Paper III)

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: Understand comparative account of the different vertebrate systems

CO 2: Understand the pattern of vertebrate evolution, organization and functions of various systems.

CO 3: Learn the comparative account of integument, skeletal components, their functions and modifications in different vertebrates.

CO 4: Learn the evolution of brain, sense organs and excretory organs to a complex, highly evolved form in mammals;

CO 5: Understand the importance of comparative vertebrate anatomy to discriminate human biology.

Class: B.Sc. I (Sem II) Theory

Course Title: Development Biology of vertebrates (Paper IV)

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: This course will help the students to understand the development of multicellular organisms from a single cell zygote.

CO 2: They will learn interesting and unique post embryonic development that happens in other animals

CO 3: Identify the developmental stages of animals.

CO 4: Explain the principles and process of fertilization and cleavage.

Class: B.Sc. I (Sem II) Practical

Course Title: Animal Diversity- I & II AND Comparative Anatomy of vertebrates and Development Biology of vertebrates

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: To understand the Animal diversity around us & underlying principles of classification of animals.

CO 2: To understand the terminology needed in classification & the differences and similarities in the various aspects of classification.

CO 3: Learn to analyze and critically evaluate the structure and functions of vertebrate systems, which helps them to discern the developmental, functional and evolutionary history of vertebrate species.

CO 4: Understand and appraise different types of feathers and Evaluate structure of vertebrate organs heart, lung, kidney, eye, ear etc.

Class: B.Sc. II (Sem III) Theory

Course Title: Cell Biology (Paper V)

Course Outcomes: By the completion of the course the graduate should be able to-

CO1: Understand the importance of cell as a structural and functional unit of life.

CO 2: Understands and compares between the prokaryotic, eukaryotic Cell and ultrastructure and functions of Cell organelle.

CO3: Describe the composition, structure and functions of the plasma membrane.

CO 4: Describe the three primary components of the cell's cytoskeleton and how they affect cell shape, function, and movement.

CO 5: Understand the process of cell division by learning mitosis and meiosis.

Class: B.Sc. II (Sem III) Theory

Course Title: Principles of Ecology (Paper VI)

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: An overview of evolutionary ecology and environmental concepts

CO 2: Understanding the characteristics of population and population dynamics.

CO 3: A study of life history pattern, fertility rate and age structure.

CO 4: Description of nature of ecosystem, production, food webs, energy flow, biogeochemical cycles, resilience of ecosystem and ecosystem management.

CO 5: Understanding the biosphere, biomes and impact of climate on biomes.

Class: B.Sc. II (Sem III) Practical

Course Title: Cell Biology & Principles of Ecology

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: the basic concepts of cell biology: cell cycle, cell communication, cell signalling and cell death.

CO 2: principles and working of various instruments for the study of cell architecture, cellular components and cell machinery.

CO 3: Get the knowledge about component of ecosystem, energy flow in ecosystem bio-geochemical cycles and population concept

CO 4: Know about various habitat, ecological division of India and biodiversity

CO 5: At the end of practical's student will learn about concept cell division, cell signaling, ecosystem and applied ecology.

Class: B.Sc. II (Sem IV) Theory

Course Title: Fundamentals of Biochemistry (Paper VII)

Course Outcomes: By the completion of the course the graduate should be able to-

CO1: Understand the basic terms in biochemistry.

CO2: To know the structure, functions and reactions of the various biomolecules.

CO3: Understand examples of each group type of biomolecules.

CO4: Correlate the changes in the levels of these biomolecules with the diseases in human.

CO5: Explain General properties, Classification, Nomenclature and chemical nature of Enzymes.

Class: B.Sc. II (Sem IV) Theory

Course Title: Physiology-Control & Coordination (Paper VIII)

Course Outcomes: By the completion of the course the graduate should be able to-

CO 1: Students gain fundamental knowledge of animal physiology

CO 2: Seeks to understand the mechanisms that work to keep the animal body alive and functioning.

CO 3: Interactions and interdependence of physiological and biochemical processes.

CO 4: Students are taught the detailed concepts of digestion, respiration, excretion, the functioning of nerves and muscles, cardiovascular system, endocrine system and reproductive system.

CO 5: Physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of animals, their organs, and the cells of which they are composed.

CO 6: Students learn the concepts of endocrine systems and homeostasis.

Class: B.Sc. II (Sem IV) Practical

Course Title: Fundamentals of Biochemistry & Physiology-Control & Coordination

Course Outcomes: By the completion of the course the graduate should able to-

CO 1: Understand the tests of functional group in carbohydrates, proteins and lipids.

CO 2: Estimation of protein & carbohydrates by colorimetric method

CO 3: Know about enzymes, amylase and protein separation.

CO 4: Understand by carried out simple muscle twitch- cardiogram demonstration.

CO 5: Study of mammalian organ by using permanent slides.

CO 6: Understand the hematology that is concerned with the study of blood groups.