

Programme Outcomes (PG)

Faculty of Humanities

DEPARTMENT OF MARATHI

- :1POनवीन राष्ट्रीय शैक्षणिक धोरण २०२० नुसार तयार करण्यात आलेल्या संत गाडगे बाबा अमरावती विद्यापीठाच्या मानवविज्ञान विद्याशाखेतील एम .ए .मराठी अभ्यासक्रमाच्या अध्ययनामुळे विद्यार्थ्यांची साहित्य ही संकल्पना सुस्पष्ट होऊन त्याची अभिरुची वृद्धिगत होईल.
- :2POसमकालीन बदलत्या संदर्भात मराठी समाज, भाषा, इतिहास, साहित्य आणि संस्कृतीचे चिकित्सक आकलन होईल.
- :3POभाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे व्यावहारिक उपयोजन करता येईल.
- :4POचिकित्सा, तुलना आणि समीक्षा करण्याची दृष्टी विकसित झाल्यामुळे विविध साहित्य प्रकारातील लेखनाचे योग्य अध्ययन, संशोधन आणि सर्जनशील निर्मिती करता येईल.
- :5POभाषेच्या तात्त्विक अभ्यासासह प्रतिष्ठापूर्ण रोजगार प्राप्तीसाठीचे भाषिक कौशल्य प्राप्त होईल.
- :6POग्रामीण व-हाडी बोलीचे सामर्थ्य विद्यार्थ्यांना कळेल.
- :7POसाहित्यनिर्मितीला प्रेरणा मिळेल.
- :8POविद्यार्थ्यांचे मराठी भाषेतील लेखनकौशल्य विकसित होईल.
- :9POमराठीतून जाहिरात लेखन करण्यासाठी आवश्यक कौशल्ये विद्यार्थी आत्मसात करतील.
- :10POसंकेतस्थळांवरील लेखन करण्यासाठी तसेच ज्ञानकोशात्मक नोंदी लिहिण्यासाठी विद्यार्थी सक्षम होतील.
- :11POऐतिहासिक भाषाविज्ञानाच्या अभ्यासक्षेत्राचा परिचय घडेल.
- :12POभाषाकुलांची माहिती होऊन मराठीचा विविध भारतीय भाषांशी असलेल्या जवळच्या संबंधाचा उलगडा होईल.
- :13POमराठी भाषेवर अन्य भाषांचा झालेला परिणाम समजेल व त्यातून भाषाभान वाढेल.
- :14POप्रमाण व बोली यांतील परस्परसंबंध लक्षात येईल तसेच बोलींच्या अभ्यासाची दृष्टी विकसित होईल.
- :15POवैचारिक साहित्याची संकल्पना स्पष्ट करून वैचारिक साहित्याची पूर्वपरंपरा व महत्त्व सांगता येईल.

DEPARTMENT OF HISTORY

PO1: To discuss the sources of ancient India.

PO2: To discuss the Rise of religious movement.

PO3: To discuss the Mauryan, Gupta, Vakatak, Vardhan dynasty

PO4: To discuss the Education and Position of Woman in ancient India.

- PO5:** To discuss the early Turkish sultans of Delhi.
- PO6:** To discuss the Bahamani and Vijay nagar kingdom.
- PO7:** To discuss the Economy, Religious and Cultural life of sultanate Period.
- PO8:** To discuss the Establishment and Consolidation of Mughal Empire.
- PO9:** To discuss the Emergence of Maratha Power.
- PO10:** To discuss the Political Administration under Maratha.
- PO11:** To discuss the Advent of European Powers.
- PO12:** To discuss the Socio-religious movements India.
- PO13:** To discuss the Early Gandhi and Programs.
- PO14:** To discuss the India towards Independence.
- PO15:** To discuss the French Revolution and making of the Nations, Italy, and Germany.
- PO16:** To discuss the First World War, Causes and Effects.
- PO17:** To discuss the Mussolini and Hitler Foreign Policy.
- PO18:** To discuss the Second World War Causes and Result.
- PO19:** To discuss the United Nations Organization.
- PO20:** To discuss the Cold War-Causes and Effect.

DEPARTMENT OF SOCIOLOGY

- PO1:** To educate students about various sociological studies
- PO2:** To promote a commitment to the improvement about the societal understanding and social institutions.
- PO3:** To translate research into effective practices and achievable human policies
- PO4:** To prepare students to initiate and facilitate interactions between government and non government sectors to provide ethical and workable solutions to societal needs.
- PO5:** To educate students to be compassionate and effective leaders who humanely manage public welfare programme
- PO6:** To encourage students to acquire knowledge, skills and capabilities arising from the need for a more efficient and effective public administration
- PO7:** To motivate students to utilize the job opportunities.

DEPARTMENT OF ECONOMICS

- PO1:** Helps to understand the basic theories of economic growth and development.
- PO2:** Students will be able to understand the working principles of the Money market and Capital Market.
- PO3:** Students should be able to develop knowledge about production, demand, market and Pricing.
- PO4:** Students can know how to apply the knowledge of Economics in various sectors of society

to solve various financial issues.

PO5: Able to understand the role of the public and private sectors in economic development.

PO6: Students should be able to develop knowledge about the role of International trade in economic development.

PO7: Develop, analyses and appraise developmental plan for sustainable development.

PO8: Students should be able to develop knowledge about monetary policy, fiscal policy and its implications for the economy.

PO9: Develop professional entrepreneurial ability and skills.

DEPARTMENT OF HOME ECONOMICS

PO1: Define the problems and accept challenges amongst Home and Family.

PO2: Develop the student's understanding regarding home influences on the individual, school and Community.

PO3: Design workable plan in the household budget, make appropriate decision applying decision-Making process.

PO4: Prepare a diet Plan, create innovative recipes and therapeutic diet to counter nutritional Problems and maintain the health of the family.

PO5: Formulate qualitative designs and descriptive survey using Questionnaires, Observations, Interviews and document investigation to collect, analyse, and interpret the collected data Pertaining to the study.

PO6: Compare knowledge of consumer rights and responsibilities in order to consumer choices and Understand the knowledge of Intellectual Property and its protection through various laws

PO7: Provide specific experiencing staff required for professional Home-Economics employment and Self-employment.

PO8: Obtain knowledge of Intellectual Property and its protection through various laws.

PO9: Imbibe the knowledge of Intellectual Property and its protection through various laws.

DEPARTMENT OF POLITICAL SCIENCE

PO1: Understand the basic concept of political science discipline.

PO2: Understand the contribution of several political thinkers of Western Political Thought and Indian Political Thought

PO3: Acquaint with the Indian Government and Politics.

PO4: Acquaint with the problems and prospects of rural local government of India.

PO5: Familiarize with the key concept, principles and theories of public administration.

PO6: Knowledge of basic concepts, important issues, organizations and dynamics of International relations.

PO7: Acquaint with the diverse political systems especially UK, USA, China and France.

PO8: Understand the issues concerning human rights and challenges.

PO9: Synthesize, analyze political problems in the Political Science discipline and express coherent arguments.

Faculty of Commerce

PO1. Give an overview of the research methodology and explain the technique of defining a research problem.

PO2. Explain the functions of the literature review in research.

PO3. Explain various research designs and their characteristics.

PO4. Explain several parametric tests of hypotheses and Chi-square test.

PO4. Explain the art of interpretation and the art of writing research reports.

PO5. Discuss leading International Instruments concerning Intellectual Property Rights.

PO6. Understand how to start MS –Excel and SPSS. Enter basic data into SPSS and Carry out statistical analysis that can test hypotheses. Develop various required graphs.

PO7. Describe what MS word 2021 and how it is useful in both personal and professional life.

PO8. Create a new document, work with a document, format text insert and work with clip arts and pictures, use the mail merge, print documents and create high quality document designs and layouts.

Faculty of Science

DEPARTMENT OF PHYSICS

The MSc Physics programme equips students with advanced knowledge, general competence, and analytical skills that are required in industry, consulting, education, and research. On completion of program, it will-

PO1: Instill an inquisitive mindset in the students so that they are capable of independent and critical thinking.

PO2: Train-up the students in such a way that they can objectively carry our investigations, scientific and/or otherwise, without being biased or without having any preconceived notions.

PO3: Apply the knowledge and skill in the design and development of Electronics circuits to fulfil the needs of Electronic Industry.

PO4: Become professionally trained in the area of electronics, optical communication,

nonlinear circuits, materials characterization and lasers.

- PO5:** Develop research problems related to Physics and Materials characterization and applications.
- PO6:** As technology exploits the rules of Physics, students properly trained in Physics can be good researchers in the field of technology too.
- PO7:** Demonstrate highest standards of Actuarial ethical conduct and Professional Actuarial behavior, critical, interpersonal and communication skills as well as a commitment to life-long learning.
- PO8:** Understanding the basic concepts of physics particularly concepts in classical mechanics, quantum mechanics, statistical mechanics, electrodynamics and electronics to appreciate how diverse phenomena observed in nature follow from a small set of fundamental laws.
- PO9:** Learn how to perform experiments in basic as well as advanced areas of Physics such as Nanomaterials, Condensed Matter Physics, Electronics and Photonics.
- PO10:** Analytical and integrative problem-solving methodologies are developed through research based learning.
- PO11:** Prepare the students to pursue research careers, careers in academics, in industries in physical science and in allied fields

DEPARTMENT OF CHEMISTRY

- PO1:** Creative Thinking: Students will be able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems in chemistry. The skills of observations and drawing logical inferences from the scientific experiments will also be developed.
- PO2:** Interdisciplinary Approach: Students will realize how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments. Also the 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.
- PO3:** Personality Development: Students will imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality. They will also realize 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.
- PO4:** Skills in research and industrial field: Students will build a scientific temper and will be able

to learn the necessary skills to succeed in research or industrial field. In addition they will acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

PO5: Communication Skills: Students will develop various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively.

PO6: Environmental monitoring: Students will be able to design a solution to the environmental issues like Global warming, Climate change, Acid rain, Ozone depletion and will create awareness in society.

DEPARTMENT OF MATHEMATICS

At the end of the programme, students would be able to

PO1: Apply knowledge of Mathematics, in all the fields of learning including higher research and its extensions.

PO2: Innovate, invent and solve complex mathematical problems using critical understanding, analysis and synthesis.

PO3: Adjust themselves completely to the demands of the growing field of Mathematics by lifelong learning.

PO4: Affectively communicate about their field of expertise on their activities, with their peer and society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations

PO5: Crack lectureship and fellowship exams approved by UGC like CSIR – NET and SET.

PO6: Use the Mathematical Software LaTeX and Scilab applicable for research.

DEPARTMENT OF COMPUTER SCIENCE

PO1: Problem Analysis Identify, formulate, review research literature and analyze complex engineering problems in Computer Science and Engineering reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO2: Design / Development of Solutions Design solutions for complex engineering problems and design system components or processes of Computer Science and Engineering that meet the specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

- PO3:** Conduct Investigations of Complex Problems Use research-based knowledge and research methods including design of experiments in Computer Science and Engineering, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO4:** Modern tool usage Create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex activities related to Computer Science with an understanding of the limitations.
- PO5:** The services to the society Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice in Computer Science and Engineering.
- PO6:** Project Management Demonstrate knowledge and understanding of the computer science and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

DEPARTMENT OF BOTANY

Program Outcomes for a Post Graduate Botany Program, especially one with a comprehensive curriculum like the one, involves articulating the specific knowledge, skills, and attitudes students are expected to possess upon graduation. Following are the Program Outcomes:

- PO1: Mastery of Core Concepts:** Graduates will have a thorough understanding of the core concepts in cell and molecular biology, plant physiology, biochemistry, and genetics.
- PO2: Application of Knowledge:** Graduates will be able to apply their knowledge to solve practical problems in plant sciences and related industries.
- PO3: Research Competence:** Graduates will be capable of designing and conducting independent research, utilizing appropriate methodologies and analytical tools.
- PO4: Technological Innovation:** Graduates will be proficient in using advanced technologies in botanical research and applications.
- PO5: Biodiversity and Conservation:** Graduates will understand the importance of biodiversity, conservation, and the sustainable use of plant resources.
- PO6: Environmental Stewardship:** Graduates will be able to assess and address the impacts of environmental changes and human activities on plant ecosystems.
- PO7: Professional and Ethical Responsibility:** Graduates will be aware of their professional and ethical responsibilities, including the protection of intellectual property.

DEPARTMENT OF ZOOLOGY

- PO1:** Demonstrate the significance of the topics of syllabi and evaluate its relevance. Think

creatively for its gravity and develop ideas.

PO2: Interpret scientific ideas and can do its analysis. Create experiments independently and draw inferences by sharing it with others.

PO3: Derive information from various digital sources. Develop skills for scientific writing and present the data and analyse it scientifically.

PO4: Articulate scientific ideas lay down a hypothesis; design the pathway to develop research ideas.

PO5: Acquaint skills in handling the instruments and different techniques through practicals and developing the scientific temperaments for research.

PO6: Develop competence through healthy atmosphere and quality intercommunication with different groups.

PO7: Understand environmental and sustainability issues and its sensitivity in relation to regio

PO8: Utilize the sources confidently and independently and develop self-sustenance.

DEPARTMENT OF MICROBIOLOGY

PO1: Domain knowledge: Demonstrate knowledge of basic concepts, principles and applications of the specific science discipline.

PO2: Resource Utilization: Cultivate the skills to acquire and use appropriate learning resources including library, e-learning resources, ICT tools to enhance knowledgebase and stay abreast of recent developments.

PO3: Analytical and Technical Skills: Achieve the ability to handle/use appropriate tools/ techniques/ equipment with an understanding of the standard operating procedures, safety aspects/limitations.

PO4: Critical thinking and Problem Solving: Identify and critically analyze pertinent problems in the relevant discipline using appropriate tools and techniques as well as approaches to arrive at viable conclusions/solutions.

PO5: Project Management: Demonstrate the knowledge and scientific understanding to identify research problems, design experiments, use appropriate methodologies, analyze and interpret data and provide solutions, exhibit organizational skills and the ability to manage time and resources.

PO6: Individual and team work: Exhibit the potential to effectively accomplish tasks independently and as a member or leader in diverse teams, and in multidisciplinary settings.

PO7: Effective Communication: Communicate effectively in spoken and written form as well as through electronic media with the scientific community as well as with society at large. Demonstrate the ability to write dissertations, reports, make effective presentations and documentation.

PO8: Environment and Sustainability: Analyze the impact of scientific and technological advances on the environment and society and the need for sustainable development.

PO9: Ethics: Exert a commitment to professional ethics and responsibilities.

PO10: Self-directed and Life-long Learning: Develop an ability to engage in lifelong learning in the context of the rapid developments in the discipline by their own.

