

Program Outcomes, Program Specific Outcomes and Course Outcomes

POs, PSOs & Cos of J. D. Patil Sangludkar Mahavidyalaya,

Daryapur, Dist. Amravati

Program Outcomes (POs):

Program Outcomes (POs) of Bachelor of Arts
After the completion of B.A. Program, the students will develop ability: <ol style="list-style-type: none">1) To know the diverse aspects of society, its problems and structure.2) To develop among them a sense of social responsibility.3) To have a basic understanding of social, economic, historical, political and religious institutions.4) To communicate with the people in a better way.5) To improve soft skills and linguistic skills.6) To understand fundamental human values.7) To make a progressive and successful career in various spheres of life.
Program Outcomes (POs) of Bachelor of Commerce
After the completion of B. Com. Program, the students will be able: <ol style="list-style-type: none">1) To understand and acquire knowledge of management principles, banking and insurance transactions, business economics and financial management.2) To acquire various techniques of business communication and correspondence.3) To acquire the skills required for doing business and commercial activities of their own choice.4) To calculate various taxes in relation to taxation policies.5) To acquaint with various fields of accounts, finance, cooperation, e-commerce, marketing and salesmanship.6) To develop numerical ability.
Program Outcomes (POs) of Bachelor of Science
After the completion of B. Sc. Program, the students will be able: <ol style="list-style-type: none">1) To acquire general grasp of science and technology.2) To acquire knowledge in all basic sciences.3) To use modern tools of ICT to learn and transfer knowledge.4) To develop analytical skills to tackle real life problems.5) To familiarize with the fundamentals of science education.6) To develop a spirit of scientific temper and inquiry.

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Program Outcomes (POs) of Master of Arts (M.A. Marathi)

After the completion of M.A. Marathi, the students will be able:

- 1) To make use of Marathi for creative writing.
- 2) To familiarize with the literary studies.
- 3) To give proper direction to the society through literature.
- 4) To conserve the various dialects of Marathi language.
- 5) To prepare for the examinations of SET/NET.
- 6) To produce valuable knowledge in Marathi.

Program Outcomes (POs) of Master of Arts (M.A. Music)

After the completion of M.A. Music, the students will be able:

- 1) To understand basic concept of ragas.
- 2) To become proficient in stage performance.
- 3) To make career in the field of music.
- 4) To understand various ragas of Indian Music.
- 5) To familiarize with the history of ancient Indian Music.
- 6) To prepare for the examinations of SET/NET.

Program Outcomes (POs) of Master of Arts (M.A. History)

After the completion of M.A. History, the students will be able:

- 1) To acquire knowledge of Ancient India, History of India and History of Marathas.
- 2) To acquire knowledge of women in Indian History and social movement in Maharashtra.
- 3) To acquire a clear understanding of evidence collected from various historical sources.
- 4) To prepare for various competitive examinations.
- 5) To make career in the field of cultural heritage.
- 6) To identify a particular area of historical enquiry and engage in independent historical research work.

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Program Specific Outcomes (PSOs):

PSOs of B.A. Compulsory English:
After completion of this program students will be able to: <ol style="list-style-type: none">1) Comprehend various forms of literature like Prose, Poetry, Drama and Fiction2) Develop the knowledge of grammatical system3) Develop four language skills LSRW4) Widen scope of employability and Entrepreneurship viz Teaching, Civil Services and Creative Writing
PSOs of B.A. English Literature:
After completion of this program students will be able to: <ol style="list-style-type: none">1) Understand Literary Movements that existed in different ages.2) Define Literary Theories and Terms in Criticism.3) Develop reading, writing and analytical skills.4) Communicate their ideas critically and creatively.
PSOs of B.A. Political Science:
After completion of this program students will be able to: <ol style="list-style-type: none">1) To understand the basic structure of Indian political system2) To Inculcate interest in political field3) To create the leadership qualities in students4) To understand Indian governing system.5) Describe the developments of mankind.
PSOs of B.A. History:
After completion of this program students will be able to: <ol style="list-style-type: none">1) Analyze the Socio-Political and Cultural background of the Indian History.2) Examine various perspectives of history and historiography.3) Prepare for Competitive Examinations like UPSC, MPSC, and SET/NET etc.4) Compare various concepts in Social Studies through the Indian History.
PSOs of B.A. Economics:
After completion of this program students will be able to: <ol style="list-style-type: none">1) Problem analysis: recognize formulate and study the problems of various sectors of the Indian economy, regional economy and the global economy with the help of the economic ways of thinking, theories, concepts and laws.2) Apply the knowledge of economic concepts, laws and theories, for a better economic environment for the society at large.3) Communicate effectively on the economic activities with the community and the society through the acquiring knowledge of the national and the global economy.4) To build on these concepts to develop deeper understanding of Economy in the future.5) Explain the basic concepts, laws and theories related to the economic behavior of the human being.6) Graduates from our department are effectively taught and explained the cause with the help of visual aids like white board and PowerPoint Presentation.7) They will be able to visualize the real-world situation and enhance them to initiate the programmers for pursuing studies and be alert with the importance of entrepreneurial skills for their self-employment, to improve the general attitudes and living conditions of the masses.

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PSOs of B.A. Compulsory Marathi:

After completion of this program students will be able to:

- 1) संत गाडगेबाबा अमरावती विद्यापीठाच्या मानव विज्ञान विद्याशाखेतील बी.ए. मराठी (आवश्यक) अभ्यासक्रमाच्या अध्ययनामुळे विद्यार्थ्यांची 'साहित्य' ही संकल्पना स्पष्ट होऊन मराठी भाषाविषयक अभिरुची विकसित होईल.
- 2) मराठी साहित्य परंपरा, लेखक, कवी, विचारवंत यांचा परिचय होईल, त्यांचा लखेनातून आलेल्या सामाजिक एकात्मता, सर्वधर्म समभाव, राष्ट्रीय एकात्मता आणि भारतीय राज्यघटनेचे अधिष्ठान असलेल्या मानवी मूल्यांची विद्यार्थ्यांमध्ये रुजवणूक होईल.
- 3) विद्यार्थ्यांमध्ये मराठी, भाषा, साहित्य, कला याविषयी आवड निर्माण होईल. त्याची चिकित्सा, तुलना, समीक्षा करण्याची दृष्टी विकसित झाल्यामुळे विविध साहित्य प्रकारातील लेखनाचे योग्य अध्ययन, संशोधन आणि सर्जनशील निर्मिती करतील.
- 4) भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे व्यावहारिक उपयोजन करता येईल.
- 5) कला शाखेच्या विद्यार्थ्यांमध्ये मराठी भाषेच्या तात्विक अभ्यासासह प्रतिष्ठापूर्ण रोजगार मिळविण्यासाठी भाषिक कौशल्ये प्राप्त होतील.
- 6) मराठी भाषेच्या माध्यमातून विविध क्षेत्रात लागणारे व्यावहारिक कौशल्याचे उपयोजन विद्यार्थी करतील.
- 7) रोजगारा निर्मितीसाठी लागणाऱ्या विविध कौशल्य निर्मितीचा दृष्टिकोन विद्यार्थ्यांमध्ये निर्माण होईल.

PSOs of B.A. Marathi Literature:

After completion of this program students will be able to:

- १) संत गाडगेबाबा अमरावती विद्यापीठाच्या मानव विज्ञान विद्याशाखेतील मराठी वाङ्मय (ऐच्छिक) अभ्यासक्रमाच्या अध्ययनामुळे विद्यार्थ्यांची साहित्य ही संकल्पना स्पष्ट होऊन मराठी भाषाविषयक अभिरुची विकसित होईल.
- २) मराठी साहित्य परंपरा, लेखक, कवी, विचारवंत यांचा परिचय होईल, त्यांचा लखेनातून आलेल्या सामाजिक एकात्मता, सर्वधर्म समभाव, राष्ट्रीय एकात्मता आणि भारतीय राज्यघटनेचे अधिष्ठान असलेल्या मानवी मूल्यांची विद्यार्थ्यांमध्ये रुजवणूक होईल.
- ३) विद्यार्थ्यांमध्ये साहित्य व कला याविषयी आवड निर्माण होईल. त्याची चिकित्सा, तुलना, समीक्षा करण्याची दृष्टी विकसित झाल्यामुळे विविध साहित्य प्रकारातील लेखनाचे योग्य अध्ययन, संशोधन आणि सर्जनशील निर्मिती करतील.
- ४) भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे व्यावहारिक उपयोजन करता येईल.
- ५) साहित्याच्या विद्यार्थ्यांमध्ये मराठी साहित्याच्या अभ्यासासह प्रतिष्ठापूर्ण रोजगार मिळविण्यासाठी कौशल्ये प्राप्त होतील.
- ६) रोजगारा निर्मितीसाठी लागणाऱ्या विविध कौशल्यनिर्मितीचा दृष्टिकोन विद्यार्थ्यांमध्ये निर्माण होईल.

PSOs of B.A. Music:

After completion of this program students will be able to:

- 1) To make the students aware of the music as science and as an art.
- 2) To create good listeners of Indian music.
- 3) To make them self-employable.
- 4) To make them understand the basic terminologies of the discipline.
- 5) To make them aware of the Contribution of the musicologist as well as the artists.
- 6) To make them understand the various musical forms.

PSOs of B.A. Home Economics:

After completion of this program students will be able to:

- 1) Describe the home management process and apply it in practice for planning and executing inside and outside the home.
- 2) Play model role as a home maker, home manager, home Scientist, counselor as well as play a different role in different kinds.
- 3) Build Confidence to create her own business and adjust in it better way.
- 4) Derive certain changes in behavior and attitudes that require for effective communication and as an Entrepreneur.

PSOs of Bachelor of Commerce:

After completion of this program students will be able to:

- 1) Attain requisite skills and knowledge after the completion of the programme.

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- 2) Achieve the basic knowledge of Economics.
- 3) Assimilate basic knowledge of Accountancy & Statistics.
- 4) Efficiency in reading and writing skill.
- 5) Achieve requisite skills and knowledge of preparing cashbook, ledger books and balance-sheet of company.
- 6) Become knowledgeable about marketing.
- 7) Create a self-employment.
- 8) Assimilate ethics of life.
- 9) Achieve Environmental awareness.
- 10) Attain fundamental knowledge of Computer.

PSOs of Zoology:

By the end of the program students will be able to:

- 1) Develop a deeper sense with respect to phylum Protozoa to Echinodermata relation to taxonomy, classification, body organization and general characteristics this strengthens students' capability in basic zoology.
- 2) Grasp various the Systematic positions from Protozoa to Echinodermata their pathogenicity and its epidemiology.
- 3) Describe unique characters and recognize life functions of Protozoa, Porifera, Coelenterate, Helminthes, Arthropoda, Annelida, Mollusca and Echinodermata. Improve ability and apply Knowledge of Nonchordates for its execution in Agriculture especially with the phylum Arthropoda.
- 4) Implement an extensive idea about economic and ecological significance of various non-chordates phylum's in human life.

PSOs of Chemistry

After completion of this program students will be able to:

- 1) Understand the scope, methodology and application of modern chemistry.
- 2) Apply theoretical and practical concepts of instruments that are commonly used-in most chemistry field.
- 3) Plan and conduct scientific experiments and record the results of such experiments.
- 4) Get acquainted with safety of chemicals, transfer, and measurements of chemicals, preparation of solutions, and using physical properties to identify compounds and chemical reactions.
- 5) Describe how chemistry is useful to solve social, economic and environmental problem and issues facing our society in energy, medicine, and health.

PSOs of Physics:

After completion of this program students will be able to:

- 1) Acquire a comprehensive knowledge and sound understanding of fundamentals of Physics
- 2) Develop laboratory skills, enabling them to take measurement in a physics laboratory and analyze the measurements to draw valid conclusions.
- 3) Be prepared to acquire a range of general skills, to solve problems, to evaluate information, to use computers productively, to communicate with society effectively and learn independently.
- 4) Develop good oral and written scientific communication skill.

PSOs of Botany:

After completion of this program students will be able to:

- 1) Identify major groups of plants and compare the characteristics of lower (microbes, algae, , fungi, bryophytes and pteridophytes) and higher (Gymnosperms and angiosperms).
- 2) Use evidence based comparative botany approach to explain the evolution of organism and understand the genetic diversity.
- 3) Explain various plant processes and functions, metabolism, concepts of gene, genome and how organism's function is influenced at the cell, tissue and organ level.
- 4) Understand adaptation, development and behavior of different forms of life.

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5) Demonstrate the experimental techniques and methods of their area of specialization in Botany.

PSOs of Mathematics:

After completion of this program students will be able to:

- 1) Understand major concepts in all disciplines of Mathematics
- 2) Formulate and develop Mathematical arguments in a logical manner
- 3) Gain good knowledge and understanding in advanced Mathematics
- 4) Create an awareness of the impact of Mathematics on the environment, society and development outside the scientific community.
- 5) Create sensitivity towards environmental concerns and contribute in the development of nation.

PSOs of Microbiology:

After completion of this program students will be able to:

- 1) Gain insight of Microbiology starting from history and fundamental knowledge about the microorganisms.
- 2) Acquire the skill in the use and care of basic microbiological equipment and can perform basic laboratory procedures in microbiology.
- 3) Be well-informative about the integral role of microorganisms and different branches of Microbiology.
- 4) Be acquainted with the basic concept of prokaryotes, their taxonomy, their differentiation from eukaryotes.

PSOs of Master of Arts (Marathi):

After completion of this program students will be able to:

- १) संत गाडगे बाबा अमरावती विद्यापीठाच्या मानव विज्ञान शाखेतील एम.ए. मराठी अभ्यासक्रमाच्या अध्यायनामुळे विद्यार्थ्यांची साहित्य हि संकल्पना स्पष्ट होऊन त्यांची अभिरुची वृद्धिंगत होईल.
- २) समकालीन बदलत्या संदर्भात मराठी समाज, भाषा, इतिहास, साहित्य आणि संस्कृतीचे चिकित्सक आकलन होईल.
- ३) भाषा आणि साहित्याचा सामाजिक तसेच कलात्मक पातळीवर अभ्यास केल्याने विवेकपूर्ण तर्कसंगतता आणि कारुण्यपूर्ण संवेदनशीलता निर्माण होऊन साहित्याचे व्यावहारिक उपयोजन करता येईल.
- ४) चिकित्सा, तुलना आणि समीक्षा करण्याची दृष्टी विकसित झाल्यामुळे विविध साहित्य प्रकारांतील लेखनाचे योग्य अध्ययन, संशोधन आणि सर्जनशील निर्मिती करता येईल.
- ५) भाषेच्या तात्विक अभ्यासासह प्रतिष्ठापूर्ण रोजगार प्राप्तीसाठीचे भाषिक कौशल्य प्राप्त होतील.

PSOs of Master of Arts (Music):

After completion of this program students will be able to:

- 1) Awareness of self-employability perspectives.
- 2) Detailed study of Raagas in view of comparison and analysis.
- 3) Development of artistic and performance related attitude.
- 4) Detailed study of ancient treatises of Music.
- 5) Learning about the contribution of Musicologists and artists.
- 6) Elaborative study of and understanding of various Taalas and its Laykaris with application.
- 7) Understanding the Aesthetics, Bhaav and Rasas, applied in Music.
- 8) Learning the fundamentals of music and its' application in present day Music

PSOs of Master of Arts (History):

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After completion of this program students will be able to:

- 1) Through completion of a combination of courses, students become familiar with the political processes and structures, society and culture, political Ideas and institutions, historical thought and historiography, economy and society in India and World.
- 2) Understand background of the religions, customs, institutions and administration and so on.
- 3) By analyzing relationship between the past and the present students will understand the social, political, religious and economic conditions of the people. She/he will be capable of leading and participate in discussion.
- 4) Develop interests in the study of history and activities relating to history. Students can collect old coins and other historical materials, participate in historical drama and historical occasions, visits places of historical interests, archeological sites, museums and archives, read historical maps, charts and write articles on historical topics.
- 5) Study of history helps to impart moral and environmental education. History develops a feeling of patriotism in the hearts of the pupils.

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Course Outcomes (COs):

COs of B.A. Compulsory English:
After the completion of the course the students will be able: <ol style="list-style-type: none">1) Understand the basic knowledge of English language and literature2) Understand the relation between literature and real life3) Understand and interpret the prose, poem, short stories4) Write the News Report, Letter, Essay, Paragraph etc.5) Avail the pleasure of literary forms such as Novel, Poem, Play etc.6) Develop interview technique, Reading Skills, Writing Skills and Speaking Skills7) Enhance the interest in English Language.
COs of B.A. English Literature:
After the completion of the course the students will be able: <ol style="list-style-type: none">1) Analyse various forms of literature.2) Acquaint them with the forms of structures and aesthetics of style and techniques of literary works.3) Analyse various elements of literature.4) Communicate in English orally and in writing.5) Kindle their critical thinking skills.
COs of B.A. Political Science:
After the completion of the course the students will be able: <ol style="list-style-type: none">1) Understand and explain the significance of Indian constitution as the fundamental law of the land.2) To know the making process of the constitution and salient features of Indian constitution.3) Exercise the fundamental rights in proper sense at the same time identifies his responsibilities in national building.4) Analyze the Indian Political System, the powers and functions of the Union, State Government in detail.5) Critically analyzing the important institutions of Indian Union: The Executive: President, Vice-President, Prime Minister, Council of Ministers, State Executive: Governor, Chief Minister, Council of Ministers, The Legislature: Rajya Sabha, Lok Sabha, State Legislature, The Judiciary: Supreme Court and High Court: Composition and jurisdictions.6) To make conscious of the social, cultural, economic and political environment that affects politics in India, at the national as well as regional levels.7)
COs of B.A. History:
After the completion of the course the students will be able: <ol style="list-style-type: none">1) Survey the sources of History of Ancient India.2) Describe the social, economic, religious and institutional bases of Ancient India.3) Analyze development of the concept of Nation- State background of political history.4) Study ancient Indian Art & Architecture.
COs of B.A. Economics:
After the completion of the course the students will be able: <ol style="list-style-type: none">1) Apply knowledge and skill in the field of Economics and will be able to have the employability in these areas.2) Describe and apply the methods for analysing consumer behaviour through demand and supply, elasticity.3) Perform analysis to analyse the impact of economic events on Markets.4) To create a new approach towards the study of Economics.5) The course will illustrate how microeconomic concepts can be applied to analyze real-life

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situations.

- 6) Analyse the performance of firms under different market structures.
- 7) Evaluate the factors affecting firm behaviour, such as production and costs
- 8) To have better awareness regarding different Factors Pricing Rent, Wages, Interest, and Profit.

COs of B.A. Compulsory Marathi:

After the completion of the course the students will be able:

- 1) नेमलेल्या साहित्यातून जीवनदर्शन, समकालीन व्यवहार जाणवा यांची माहिती होईल.
- 2) वैचारिक, ललित, कविता या विविध वाङ्मय प्रकाराचे ज्ञान होईल. या वाङ्मय प्रकाराचे वेगळेपण जाणून घेतील तथा यामधील साम्यभेदाचे आकलन होईल.
- 3) वैचारिक गद्यातून भाषेच्या सर्जनशील रूपाचे विद्यार्थ्यांना आकलन होईल. तसेच चरित्रविषय असलेल्या थोर व्यक्तींच्या जीवनकार्यातून विद्यार्थ्यांना प्रेरणा मिळेल आणि संकटावर मात करून जीवनात यशस्वी होता येतहा विचार त्यांच्या मनी रूजले.
- 4) ललित कलाकृतीच्या वाचनातून आनंद, बोध, ज्ञान इत्यादींची प्राप्ती होऊन विद्यार्थ्यांच्या जीवनविषयक जाणवा समृद्ध होतील.
- 5) वैचारिकता, तात्त्विकता, काव्यात्मकता, भावनात्मकता, सामान्य गोष्टीतील असामान्यत्वाचे दर्शन यातून विद्यार्थ्यांचा दृष्टीकोण संपन्न होईल.
- 6) विविध प्रकारच्या साहित्याचे आकलन, वर्णन, आस्वादन, विश्लेषण आणि मूल्यमापन करण्याची क्षमता वाढून विद्यार्थ्यांची अभिरूची विकसित होईल.
- 7) या वाङ्मयप्रकारातून विविध प्रकारचे नीतिमूल्ये, जीवनमूल्ये, यांची शिकवण विद्यार्थ्यांना मिळेल, त्याचा उपयोग उत्तमरीतीने जीवन जगण्यासाठी होईल.
- 8) 'उपयोजित' घटकाच्या माध्यमातून विविध प्रकारची कौशल्ये त्यांच्यात निर्माण होतील व ते रोजगारक्षम होतील.
- 9) विचारवंत, लेखक, कवी होण्यासाठी हे अध्ययन प्रेरक ठरेल, सहाय्यभूत ठरेल. यातून विद्यार्थी भाषेचा सर्जनशील वापर कसा करावा हे समजून घेतील व विविध प्रकारातील साहित्य निर्मिती करतील. तसेच व्यवहारिक उपयोजन करून रोजगारक्षम होतील.

COs of B.A. Marathi Literature:

After the completion of the course the students will be able:

- १) मानवी जीवन समृद्ध करणाऱ्या 'नाटक' या वाङ्मयप्रकाराचा परिचय विद्यार्थ्यांना होईल.
- २) 'वाटा पळवाटा' या नाटकातील विविध मानवी प्रवृत्तीचे दर्शन घडेल.
- ३) 'वाटा पळवाटा' नाटकांच्या माध्यमातून सामाजिक संस्कृतीचे दर्शन होईल तथा विविध व्यक्तिमत्त्वांचा परिचय होईल.
- ४) 'वाटा पळवाटा' च्या अभ्यासाने नाटकाचे आकलन, आस्वाद आणि मूल्यमापन करण्याची क्षमता विकसित होईल.
- ५) नाटक निर्मितीच्या घटकांचा, तंत्राचा अभ्यास झाल्याने नाटक निर्मिती करण्याची प्रेरणा विद्यार्थ्यांना मिळेल.
- ६) नाटक / रंगभूमीवर कारकीर्द करू इच्छिणाऱ्या विद्यार्थ्यांना ही अभ्यासपत्रिका उपयुक्त ठरेल.
- ७) 'काव्यसरिता' च्या माध्यमातून विविध प्रकारच्या रचनांचा अभ्यास करता येईल.
- ८) सामाजिक जाणवा, राष्ट्रीय एकात्मता, प्रेमविषयक भावना, भावनिकता या विचारांची बांधिलकी निर्माण होईल.
- ९) काव्यांच्या विविध प्रवाहांचा परिचय होईल व त्यातून काव्यनिर्मितीची प्रेरणा विकसित होईल.

COs of B.A. Music:

After the completion of the course the students will be able:

- 1) To make the students aware of the music as science and as an art.
- 2) To create good listeners of Indian music.
- 3) To make them self-employable.
- 4) To sing Alankars
- 5) To perform Sargangeet, Lakshangeet and DrutKhyal.
- 6) To recognizes Taals.
- 7) The student will compare the notation systems and will be able to apply while writing notation.
- 8) The student will be able to analyze the musical terms as well as the contribution of music scholars.
- 9) The student will be able to illustrate about other musical forms.

COs of B.A. Home Economics:

After the completion of the course the students will be able:

- 1) Formulate a plan of activities/programs managing and saving resources.
- 2) Evaluate the planned activities and will be able to build better plan in coming program.
- 3) Classify the decisions to its hierarchy for achieving a goal in future.
- 4) Make family budget with list of items.
- 5) Make greeting cards and sample design using colour schemes.

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- 6) Quote and Name to each flower arrangement.
- 7) Formulate a plan of arrangements to modify home decoration.
- 8) Classify and arrange the items using principles of housing.
- 9) Design plan of work/ activities by acquiring knowledge of Work Simplification
- 10) Make career in the field Interior Decoration and designing.
- 11) Apply and guide ergonomics' technique for comfort physique.

COs of Bachelor of Commerce:

After the completion of the course the students will be able:

- 1) Able to communicate skillfully in Business correspondence.
- 2) Acquaint with the work culture in corporate world.
- 3) The life of great personalities will motivate them to toil to be successful.
- 4) Learn and gain fluency in the English language and conversation.
- 5) Become efficient in reading and writing skills.
- 6) The drafting skills of the learners will be honed through grammar and writing skills.
- 7) Become proficient in the language and to eventually inculcate professional skills.

COs of Zoology:

After the completion of the course the students will be able:

- 1) Develop a deeper sense with respect to phylum Protozoa to Echinodermata relation to taxonomy, classification, body organization and general characteristics this strengthens students' capability in basic zoology.
- 2) Grasp various the Systematic positions from Protozoa to Echinodermata their pathogenicity and its epidemiology.
- 3) Describe unique characters and recognize life functions of Protozoa, Porifera, Coelenterate, Helminthes, Arthropoda, Annelida, Mollusca and Echinodermata.
- 4) Improve ability and apply Knowledge of Non-chordates for its execution in Agriculture especially with the phylum Arthropoda.
- 5) Implement an extensive idea about economic and ecological significance of various non-chordates phylum's in human life.

COs of Chemistry:

After the completion of the course the students will be able:

- 1) Solve the conceptual questions using the knowledge gained by studying periodicity in atomic radii, ionic radii, ionization energy and electron affinity of elements.
- 2) Apply concepts of acids and bases as well as non-aqueous solvents and their industrial usage.
- 3) Compare different reaction intermediates, functional group chemistry through the study of methods of preparation, properties and chemical reactions with underlying mechanism.
- 4) Choose correct synthetic approach to prepare derivatives of industrially important molecules
- 5) Solve different numerical problem of varying difficulty associated with gaseous and liquid state.
- 6) Apply the concepts from advanced mathematics to solve the derivation of different chemical formulae.
- 7) Apply the knowledge gained by studying types of bonding, solvation, hybridization and molecular geometries.
- 8) Draw the correct molecular structures, bond order and bond length.
- 9) Synthesize commercially important compounds of varying carbon backbone.
- 10) Choose correct synthetic approach to prepare derivatives of industrially important molecules.
- 11) Solve numerical problems related to crystalline state.
- 12) Acquire skills to use chemical kinetics to develop mechanism of chemical reactions.

COs of Physics:

After the completion of the course the students will be able:

- 1) Discuss the basic concepts of rotational dynamics.
- 2) Examine the phenomenon of simple harmonic motion and distinction between undamped, damped and force oscillations and the concept of resonance.
- 3) Explain the superposition of simple harmonic motion and acquire the knowledge of Ultrasonic waves, their production, detection and applications in different field.

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- 4) Determine the constants of elasticity and relate it with appropriate things.
- 5) Interpret the postulates of special theory of relativity.
- 6) Know the concept of Global positioning system (GPS).
- 7) Discuss the concept of scalars & vectors and their properties.
- 8) Develop an understanding of Gauss law and its applications to obtain electric field in different cases.
- 9) Formulate the relationship between electric displacement vector, electric polarization and dielectric constant.
- 10) Distinguish between the magnetic effect of electric current, electromagnetic induction and the related laws in appropriate circumstances.
- 11) Simplify electrical circuits by applying various network theorems

COs of Botany:

After the completion of the course the students will be able:

- 1) Understand microbial diversity, reproduction and economic importance.
- 2) Differentiate the microbes, algae and fungi on the basis of morphology, cellular organization, nutrition and metabolic activities.
- 3) Classify and identify the various algal genera.
- 4) Classify and identify the various fungal genera.
- 5) Systematize the plant diseases and their pathogens.
- 6) Apply understanding of microbial diversity, phycology and mycology for teaching primary to high school students.
- 7) Demonstrate an understanding of Archegoniate, Bryophytes, Pteridophytes and Gymnosperms.
- 8) Identify and classify plants from Bryophytes, Pteridophytes and Gymnosperms.
- 9) Develop critical thinking on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms.
- 10) Acquire skill of collection and preservation of Bryophytes, Pteridophytes and Gymnosperms

COs of Mathematics:

After the completion of the course the students will be able:

- 1) Find inverse and normal form of matrices.
- 2) Evaluate the characteristic equation, eigen value and corresponding eigen vector of a given matrix.
- 3) Evaluate relation between the roots and coefficients of equations.
- 4) To study application of De Moivre's theorem.
- 5) Compute summation of trigonometric series.
- 6) Define limit and study the basic properties.
- 7) Classify continuity and discontinuity of the functions.
- 8) Solve the differentiability and L'Hospital rule with their applications.
- 9) Describe the geometrical applications of mean value theorems.
- 10) Evaluate the reduction formulae for integration.
- 11) Solve first order differential equations using different techniques.
- 12) Solve higher order differential equations and orthogonal trajectories.
- 13) Calculate complementary function and particular integral of the second order differential Equation.
- 14) Describe the different methods to solve second order differential equations.
- 15) Illustrate applications of differential equations. interpret the vectors, their products, differentiation and integration.
- 16) Determine curvature and torsion.
- 17) Apply the concepts of divergence, curls which are useful in physics.
- 18) Describe the different forms of sphere and properties.
- 19) Discuss the equations of cone and cylinder.

COs of Microbiology:

After the completion of the course the students will be able:

- 1) Get knowledge of historical aspects of microbes and their importance as well as application in

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day to day life.

- 2) Differentiate the microbes on the basis of their characteristics and apply the classification scheme for identification.
- 3) Demonstrate the structure of prokaryotic and eukaryotic cell.
- 4) Illustrate different types of microscopes and staining techniques.
- 5) Compare and design different nutritional media for microbial growth.
- 6) Acquire the skill in the use and care of basic Microbiological equipment.
- 7) Perform basic laboratory procedures in microbiology; proper collection and forwarding of microbiological and parasitological specimens to the laboratory.
- 8) Demonstrate different staining techniques.
- 9) Acquire skill in bacterial motility.

COs of Master of Arts (History):

After the completion of the course the students will be able:

A) Knowledge and understanding Student will

- 1) To describe about the method of writing history.
- 2) Analysis the excellent work of many scholars Philosophers and critics.
- 3) To compare thoughtful authentic and systematic study of History is not merely for enriching the social theory.
- 4) Learn to investigate rationally the truth and Principles of knowledge.
- 5) Learn to deal with the various aspect of widened scope of history.

B) Intellectual skills-

- 1) Students will be able to interpret the changing and wider meaning of History.
- 2) Student will learn a drastic change in approach, treatment and technique of historical literature.
- 3) Student will be able to writing history
- 4) Students take interest to visit historical place and write history with historical approach.

COs of Master of Arts (Music):

After the completion of the course the students will be able:

- 1) Demonstrate ragas of syllabus having Sarang and Bhairav Ragang.
- 2) Perform SwarPrastars & Khandmeru.
- 3) Perform according to Voice Culture.
- 4) Know about evolution of Music.
- 5) Know the origin, evolution and development of Instrument.
- 6) Performed on the stage by using knowledge of voice culture.

COs of Master of Arts (Marathi):

After the completion of the course the students will be able:

- १) साहित्याच्या सामाजिक व सांस्कृतिक पार्श्व भूमीचा विद्यार्थ्यांचा पाया पक्का होईल.
- २) साहित्यविषयीची आकलनक्षमता वाढेल.
- ३) युपीएससी, एमपीएससी, नेट-सेट व इतर स्पर्धात्मक परीक्षांची तयारी होईल.
- ४) वृत्तपत्रांचा लेखन संपादन करण्यासाठी अभ्यासाचा उपयोग होईल.
- ५) अध्यापनाच्या व्यवसायात पदार्पण करायचे असल्यास ज्ञानाच्या कक्षा अधिक रुंदावतील.
- ६) ललित साहित्य व इतर लेखन(वैचारिक साहित्य, इतिहास, तत्वज्ञान) यांमधील साम्यभेदांचे सखोल आकलन होईल.
- ७) साहित्यकृतीला प्रतिसाद देण्याची क्षमता विकसित होऊन साहित्यविषयक संवेदनशीलता अधिक सूक्ष्म आणि व्यापक होईल.
- ८) साहित्यकृतीकडे अधिक चिकित्सक दृष्टीने पाहता येऊन आपला प्रतिसाद तर्कशुद्ध रीतीने मांडण्याची क्षमता निर्माण होईल.
- ९) साहित्यकृतीचे वर्णन, विश्लेषण व मूल्यमापन करता येईल.
- १०) साहित्यकृतीवर रसग्रहणात्मक लेख लिहिता येईल.
- ११) साहित्य व जीवन यांच्या परस्पर संबंधाचीचिकित्सा करता येईल.
- १२) मध्ययुगीन काळातील मराठी साहित्यातील समृद्ध अशा वाङ्मयीन परंपरेची विद्यार्थ्यांना ओळख होईल.
- १३) संत ज्ञानेश्वर, संत नामदेव, सांत एकनाथ, संत तुकाराम, संत रामदास यांच्या वाङ्मयीन आणि सांस्कृतिक कार्यांचा विद्यार्थ्यांना परिचय होईल.
- १४) मध्ययुगीन कालखंडातील सामाजिक, सांस्कृतिक, धार्मिक परिस्थितीचे विद्यार्थ्यांना आकलन होईल.

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- १५) संत वाङ्मयातील मानवतेची शिकवण, नीतिमूल्ये यांचा विध्यर्थ्यांच्या मनावर संस्कार होईल व त्यातून त्यांना जीवन जगण्यासाठी दिशा मिळेल
- १६) संताच्या लेखनशैलीचा अभ्यास झाल्याने विध्यार्थी उत्तम साहित्यनिर्मिती करू शकतील.
- १७) काव्य विषयक जाणीव, आस्वाद क्षमता समृद्ध होईल.
- १८) स्पर्धा परीक्षा अभ्यासक्रमातील कविता या वाङ्मयप्रकाराच्या अभ्यासाकरिता उपयुक्त ठरेल.
- १९) व्यवसायिकरित्या संपादक म्हणून काम करायचे असेल तर कवितेची समज समृद्ध होईल.
- २०) अध्यापनाचा व्यवसाय स्वीकारायचा असेल तर कवितेचा अभ्यास उपयोगी ठरेल.
- २१) कवितालेखन करायचे असेल तर काव्यविषयक जाणिवा समृद्ध होतील.

IQAC Co-ordinator
J.D. Patil Sangludkar Mahavidyalaya
Daryapur



Principal
J.D. Patil Sangludkar Mahavidyalaya
Daryapur