

D. P. Bhosale College, Koregaon

Programme Outcomes

Programme	Programme Outcomes
B.A.	<ul style="list-style-type: none">• Students should build upon the basic knowledge and skills and develop a deeper level of expertise in a specific discipline (e.g. history), period, methodology, or theme.• Show competency in oral and written skills in order to compete locally and globally.• Provide students with a strong foundation in English and the necessary language skills to keep a breast with the latest developments in the world.• Inculcate the importance of a life long learning.• Instill in students the values of professionalism as well as ethical conduct and practices.• Students should acquire a tolerance for diverse opinions, cultures, and races, ethnic and religious ideas without sacrificing the ability to form and defend the individual idea sand values.• Students should acquire and develop curiosity about the world and a willingness to incorporate new knowledge into their existing patterns of thought and behavior.• Students should acquire openness to new ideas in all fields of intellectual endeavor.• Students should understand the basic methodologies of social science research.• Use analytical and critical thinking skills to resolve challenges pertaining to communication in a highly competitive environment.• Exhibit ethical and professional conduct and practices in academic tasks and social interactions.• Show strong passion for the continuous pursuit of knowledge and learning.

Programme	Programme Outcomes
M. A.	<ul style="list-style-type: none">• Students will be able to appreciate literary/linguistic developments of different countries and different periods.• Students will comprehend major trends, movements and ‘-isms’ and different critical/linguistic approaches.• Students will develop acumen to appreciate, interpret and critically evaluate prescribed texts.• Students will be able to interpret, analyze and evaluate different varieties of written and spoken English.• Students will be able to analyze unseen poem and prose stylistically.• Students will learn different approaches to syllabus design and methods of teaching.• The knowledge of research methodology and research article writing• To inculcate research attitude among the PG students

Rayat Shikshan Sanshta's
D.P. Bhosale College, Koregaon

Department of English

Programme Specific Outcomes: B.A. (English)

After completing B. A. programme in English the students will get–

1. The skills of communication in English.
2. Exposure to the Indian Literature in English Translation as well as world literature in English.
3. The skill of analyzing the text in the context of cinema.
4. To know how to relate dramatic situations to there all life situations.
5. Creative bent of mind
6. Information about writing individuals as well as group projects.
7. Familiar with seminar and presentation skills.
8. Prepared for facing interviews of competitive exams.
9. A venue opens in the corporate world.
10. Language proficiency in English.
11. Exposure to develop personality leading towards a good citizenship
12. Promote with the leadership skills.

**Rayat Shikshan Sanstha's,
D.P. Bhosale College, Koregaon**

Department of English

Programme Specific Outcomes: M.A. (English)

After completing M. A. programme in English the students will get–

1. The Students will be able to trace the development of verse tradition.
2. Students will be able to interpret and aesthetically appreciate poems.
3. Students will be able to understand the difference between implicit and explicit meaning of poems.
4. Students will understand major trends and writers in Fiction.
5. Students will be able to interpret and critically appreciate the novels of the selected authors.
6. The students get more knowledge of structure and semantics.
7. Students will learn the nature, scope, and different branches of linguistics and pragmatics.
8. Students will be able to classify, compare and contrast the knowledge of various branches of Linguistics.
9. They will comprehend Renaissance poetry, drama, theatre and prose.
10. Students will understand the nature scope of sociolinguistics and stylistics.
11. Students will be able to interpret, analyze and evaluate different registers of written and spoken English.
12. Students will be able to understand and interpret drama as a genre of literature.
13. Students will examine the realist trend in drama and apply the knowledge to the prescribed text.
14. Students will get acquainted with history of literary criticism.
15. Students will comprehend contemporary works of Modern and Postmodern British Literature.

Department of English

Course Outcomes

Course Name: Ability Enhancement Compulsory Course (AECC1)

Class: B.A. I

1. The students know the nature of the subject in comparison to the secondary level.
2. They have the literary sense and comprehension of the subject.
3. The students know the skills of communication in English.
4. The students have the literary sense and comprehension of the subject.

Course Name: Discipline Specific Core (DSC1)

Indian Literature in English Translation

Class: B.A. I

1. The students get familiar with genres of literature.
2. The students know the difference between prose and poetry.
3. Students get exposure to the Indian Literature in English Translation
4. Students are able to analyze and appreciate short stories, poetry and drama.
5. Students can get familiar with Indian customs, traditions, Indian way of life and socio-political conditions of the rural people.

Course Name: Ability Enhancement Compulsory Course (AECC1)

Class: B.A. II

Course Outcomes:

1. Students develop communication skills in English both oral and written.
2. Students equip with language skills for use in their personal, academic and professional lives.
3. Develop students employ ability skills.
4. They learn of skills & language.
5. To help the students to enter the job market with confidence and the ability to work effectively.

Class: B.A. II

Course Name: Optional English– Literature and Cinema (Paper No. III&V)

1. Students get acquainted with the theories of adaptation.
2. Students get the exposure of analyzing the text in the context of cinema.
3. Students understand the changes made by the film director while adapting a literary text into cinema.
4. The journey of text from page to screen is understood by the students.
5. Students understand the difference between literary text and film script.

Class: B.A.II

Course Name: Optional English– Partition Literature P-IV &VI

After completing the course, students will be able to:

1. Student comprehend the historic relationship between India and Pakistan Muslims and Hindus.
2. Students become able to explain the Causes and Effects of Partition.
3. Students are unable to link the political and cultural phenomenon to violence, terror and ethnic nationalism.
4. Students can summarize and contextualize the events and opinions about the partition of India.

B.A.III P- E & F

After completing the course, students will be able to:

1. Acquire the knowledge for everyday life.
2. Be able to communicate in English.
3. Mastering both the spoken and written English.
4. Appreciate a prose passage or a poem.

Course Name: Special English –Understanding Drama (Paper No. IX & XIV)

Class: B.A. III

1. The students know Drama as an independent genre of literature.
2. The students get knowledge about Indian English Drama, British Drama and American Drama.
3. The students get familiar with the performance of dramatic art.
4. Students can relate dramatic situations to the real life situations.
5. Students understand the universal human values.

Course Name: Special English– Literary Criticism and Critical Appreciation (PaperNo.VII & XII)

Class: B.A.III

1. Students get familiarize with the critical concept.
2. Students understand the difference between creative writing and critical writing.
3. Literary movements are understood by the students
4. Students understand the importance of critical thinking for the overall improvement in their character.
5. Students get exposure to evaluate the literary work on their own perception.
6. They understand the different techniques used in writing the various genres of literature.

B.A.III P- XI & XVI

After completing the course, students will be able to:

1. Understand the speech mechanism and organs of speech.
2. Identify the morphological processes of word formation.
3. Understand open class and closed class words.
4. Analyze the phrases.
5. Identify the elements of clause.
6. Analyze a passage to identify cohesive devices, discourse, and tenor and register.

Course Name: Ability Enhancement Compulsory Course (AECC1)

Class: B.Com. I

Course Outcomes -

1. Students acquainted equip with effective business communication skills.
2. They learn human values through prose and poetry.
3. Students improve their language competence.

Course Name: English for Communication

Class: B.Sc. III

Course Outcomes:

1. Students improve their communication skills through developing vocabulary.
2. Student learns to organize a passage.
3. Students improve their spoken and written English.
4. Students get knowledge of reading comprehension.

1	Improvement in English communication	Spoken English Course
2	Enhancement of reading & writing skills	Essay and Elocution Competitions
3	Stimulates confidence to face interviews	Workshop on personality Development & Interview techniques
4	Awareness of moral values, ethics, Manners & etiquettes.	Provide books

Course Name : Ability Enhancement Compulsory Course (AECC1)

Class: B.A. I/ B.Com. I/ B.Sc. I/ B.Voc. I

Course Outcomes:

1. Students get acquainted with communication skills.
2. Students acquire human values through the study of poem and prose.
3. Students develop language and business competency.
4. Students are able to describe people, objects and places in English.
5. Students get ability to analyze and interpret prose and poetry.



Rayat Shikshan Sanstha's

D.P. Bhosale College, Koregaon

Department of Economics

UG / B.A. COURSE OUTCOMES

SR	CLASS	NAME OF SUBJECT	COURSE OUTCOME
1	BA - I	Indian Economy	<ol style="list-style-type: none">1) Identify the characteristics of Indian Economy as a Developing Economy2) Describe the Demographic Trends in India3) Write down the role of Industrialization in Indian Economy4) Understand the India's Foreign trade5) Describe the inflationary trends and impact of MNC's in Indian Economy6) Classify the concepts of Economic Growth and Development.7) Describe the Planning Commission8) Understand the Population and Economic Growth9) Write down the Human Capital Formation10) Identify the objectives of Economic Planning
2	BA - II	Principles of Macro Economics	<ol style="list-style-type: none">1) Identify the scope of Macro Economics2) Describe the National Income Accounting3) write down the importance of National Income Analysis4) Understand the theories of Employment5) Describe the consumption function6) Write down the working of monetary and fiscal policy in a developing
3	BA - II	Money and Banking	<ol style="list-style-type: none">1) Identify the evolution money2) Write down the money multiplier3) Describe the Quantity theories of money4) Understand the commercial Banking5) Classify the role of central bank in a developing economy

			6) Understand the financial reforms
4	BA - II		
5	BA - III	Principles of Micro Economics	<ol style="list-style-type: none"> 1) Classify the Definitions of Economics 2) Identify the importance of Economics 3) Write down the classification of Demand and Supply 4) Understand the classical and neo-classical utility analysis 5) Write down the factors affecting production 6) Describe the Laws of Production 7) Write down the classification of cost and revenue 8) Understand the classification of market 9) Describe the Price and Output determination of Firms and Industry 10) Understand the theories of factor pricing 11) Describe the classical and Keynesian theories of Interest 12) Understand the theories of profit
6	BA - III	Economics of Development & Planning	<ol style="list-style-type: none"> 1) Differentiate between economic growth and economic development 2) Evaluate theories of economic growth and development 3) Compare the development levels among different countries 4) Examine the role of Land, Labour and Capital in the development process. 5) Students will get benefit of conceptual approach of growth models which are applied for the actual development of the nation. 6) Students can aware about the process of national development and requirements for it. Students understand the difference between Economic growth and development. The theories of growth and

			development enable the students to analyses the influencing economic and non-economic factors of economic growth.
7	BA - III	International Economics	<ol style="list-style-type: none"> 1) Identify Regional economic integration 2) Analyze the foreign exchange market 3) Evaluate International Institutions 4) Describe the impact of global trade 5) Examine the changes in the fluctuations in exchange rates Highlight the role of foreign direct and Portfolio investment. 6) Understand the International Trade 7) Describe the Balance of Payments 8) Write down the foreign exchange rate 9) Describe the International Financial Institutions 10) Identify the India's Foreign Trade Policy
8	BA - III	Research Methodology in Economics	<ol style="list-style-type: none"> 1) Identify basic methods of scientific research. 2) Frame research hypothesis. 3) Conduct empirical investigations. 4) Aware about research methodology 5) To become familiar with basic knowledge research methodology and sampling techniques. 6) To become familiar with basic knowledge on computer, with statistical software, to draw distributive tables, graphs, trend lines. 7) To estimate the parameters of multiple regressions with the help of software and interpret
9	BA - III	History of Economic Thoughts	<ol style="list-style-type: none"> 1) Understand the importance of Economic thought 2) Identify the Marxian Economic theories 3) Describe the classical theory of Value and Capital 4) Recognize the Ricardian Economic theories 5) Write down the neo-classical economic

			<p>theories</p> <p>6) Students are able to understand the evolution of economic thought in historical perspective.</p> <p>7) Establish co-relation of Economics with other subjects</p>
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Rayat Shikshan Sanstha's

D.P. Bhosale College, Koregaon

Department of Economics

B.A. program Outcomes

Sr. No	outcomes
PO1	Community engagement and global understanding
PO2	Critical and Creative thinking
PO3	Communication Skills
PO4	Inculcation of ethical and professional values
PO5	Awareness of Social Problems and needs



Rayat Shikshan Sanstha's
D.P. Bhosale College, Koregaon
Department of Economics

B.A. (Economics) Program Specific Outcomes

PSO 1	Knowledge of Economic System and Critical Thinking
PSO 2	Effective Communication and Social Interaction
PSO 3	Effective Citizenship and Ethics
PSO 4	Environment Sustainability and
PSO 5	Statistical and Mathematical Skills
PSO 6	Econometric Applications
PSO 7	Development Perspectives
PSO 8	Environmental Strategy and Management
PSO 9	Perspectives on Indian Economy
PSO 10	Self-directed and Life-long Learning

Head
Department of Economics
D. P. Bhosale College, Koregaon



Rayat Shikshan Sanstha's
D.P. Bhosale College, Koregaon
Department of Economics
UG / B.A. COURSE OUTCOMES

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			<p>theories</p> <p>6) Students are able to understand the evolution of economic thought in historical perspective.</p> <p>7) Establish co-relation of Economics with other subjects</p>
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D. P. Bhosale

Head

Department of Economics
D. P. Bhosale College, Koregaon



D.P. Bhosale College, Koregaon

Department of Geography and Environmental Science

Programme Specific Outcomes(PSO's)

- ✚ Acquiring Knowledge of Physical Geography
- ✚ Acquiring Knowledge of Human Geography
- ✚ Ability of Problem Analysis
- ✚ Conduct Social Survey Project
- ✚ Application of modern instruments
- ✚ Application of GIS and modern Geographical Map Making Techniques
- ✚ Development of Observation Power
- ✚ Development of Communication Skill and Interaction Power
- ✚ Understand Environmental Ethics and Sustainability
- ✚ Students will have comprehensive knowledge in the discipline of Geography.
- ✚ They will have ability of making comprehensive analysis, interpret spatial problems, and suggest proper solutions by using theoretical, methodological, and instrumental knowledge of Geography.
- ✚ Good employability skills as per current need of the society to compete in the competitive world.
- ✚ They will have good understanding about proper utilization of natural resources through geographical knowledge.
- ✚ Aware about the regional and national environmental issues, recent trends, and technological advancements in the discipline of Geography.
- ✚ Develop research interest to solve critical and emerging issues related to geography and the surrounding environment



D.P. Bhosale College, Koregaon

Department of Geography and Environmental Science

Course Outcomes(CO's)

B.A. I (CBCS)

Course Name	Course Outcomes
Physical Geography. Paper -I	<ul style="list-style-type: none"> ● Obtain the knowledge about earth's interior ● Acquire knowledge about different process of denudation ● Understand the processes of erosion, deposition and resulting landforms. ● Understand concept of normal cycle of erosion and its interruption. ● Acquire knowledge about hydrology.
Human Geography Paper-II	<ul style="list-style-type: none"> ● Acquisition of the scope and contents of human geography ● Understand adaptation in various environments by men. ● Analyze the different types of settlement ,characteristics and their definitions. ● Acquire the content of social geography. ● Acquiring knowledge of human geography.

B.A.- II (CBCS)

Course Name	Course Outcomes
Soil Geography Paper III	<ul style="list-style-type: none"> ● Understand the fundamental branch of Physical Geography. ● Perceiving knowledge of the basic and fundamental concepts in soil geography. ● Acquire the various methods of soil conservation. ● Know the soil management ● Identify the characteristics and distribution of soils.
Resource Geography Paper IV	<ul style="list-style-type: none"> ● To understand the concept and classification of Resources. ● To examine the major resources (water, forest, energy and human) with their distribution, utilization and problems. ● To study the sustainable resource development. ● The course also aims to familiarize the students with cartographic techniques.
Oceanography Paper V	<ul style="list-style-type: none"> ● Understand oceanography is the fundamental branch of Physical Geography. ● Familiarize the students with the basic and fundamental concepts of

	<p>oceanography.</p> <ul style="list-style-type: none"> • Understand marine is key resource for the development of any country. • Obtain the knowledge of physical and chemical properties of oceans. • Introduce types of oceanic currents.
Agricultural Geography Paper VI	<ul style="list-style-type: none"> • Understand the concept and development of Agriculture • Examine the role of agricultural determinants towards the changing cropping pattern. • Understand the scope of the Green Revolution. • Familiarize the agricultural concepts and modern technologies used in agriculture.

B.A.-III

Course Name	Course Outcomes
Evolution of Geographical Thought and Economic Geography Paper VII & X	<ul style="list-style-type: none"> • Student should be able to understand in-depth about the Evolution of Geographical Thought. • Students should be able to analyse the recent trends in geography. • Understanding of recent trends in geography • Understand the scope and content of economic geography.. • Know the Definition of power resources. • Understand the factors behind the localization of industries.
Geography of India and Urban Geography Paper VIII & XI	<ul style="list-style-type: none"> • Aware of own countries. • Introduce the land formation, climate and natural vegetation. • Understand the population problems in India. • Understand globalization and Indian economy. • Understand the regional distribution of resource. Understand the functional differences between rural and urban settlements • Aware about the characteristics of urban settlement.
Evolution of Geographical Thought and Political Geography Paper IX & XII	<ul style="list-style-type: none"> • This paper would bring an understanding of population geography along with relevance of demographic data. • The students would get an understanding of distribution and trends of population • growth in the developed and less developed countries, along with population concepts. • The students would get an understanding of the dynamics of population. • Introduce political geography. • Understand Geopolitical Problems and tension.
Practical Paper XIII & XIV	<ul style="list-style-type: none"> • Learn the use of various meteorological instruments and also learn to interpret of the Indian daily weather report • Understand and acquire knowledge about statistical techniques. • Learn that how to draw many cartography diagram and apply in different statistical data. • Learn about Plane-Table surveying and prismatic Compass surveying • Gain knowledge about various maps and drawing of sections and interpretations of the relief and structure of the geological maps.

M.A./M.Sc. I CBCS

Course Name	Course Outcomes
<p>Fundamentals of Geomorphology and Applied Geomorphology Paper CC-101 & 201</p>	<ul style="list-style-type: none"> • To understand the development of geomorphic thought throughout the time with a review of fundamental concepts of geomorphology. • To look into the evolution of continents and ocean basins with continental drift theory. • To know the endogenetic and exogenetic forces controlling landform development with special reference to the denudational processes. • To see the mountain building activities through different theories. • To establish the relationship between the tectonism and geomorphology with the knowledge of interior of the Earth. • To verify the impact of dynamic agencies on denudation and their work. To understand the cycle of erosion with different views with special reference to hill slope development. • To see the application of geomorphology in the view of anthropogenic and environmental geomorphology
<p>Principles of Climatology and Applied Climatology and Climate Change Paper CC-102 & 202</p>	<ul style="list-style-type: none"> • To distinguish the weather and climate with an understanding of structure and composition of Atmosphere; • To understand the variations of weather systems in terms of Stability and Instability of atmosphere • To enable the students to understand the vertical and horizontal distribution of atmospheric air; • To get complete information about Atmospheric Disturbances in terms of cyclones and anti-cyclones; • To know the significance of synoptic Climatology in pollution studies and navigation; • To recognize the importance of climate on human life; • To identify and categorize climate types and climatic regions of the world; • To understand the regional and seasonal variations of weather systems in India; • To get comprehensive knowledge about causes and impacts of atmospheric pollution, GHGs emission, ozone layer depletion, acid rain and el-nino; • To know about the history, recent trends, impacts and dynamics of climate change on earth; • To assess future risks of climate change and the adaptation and mitigation options;
<p>CCS-203: Advanced Cartography and Surveying</p>	<ul style="list-style-type: none"> • To understand basic principles of cartography and surveying. • To explain various cartographic methods and techniques for preparation of maps and diagrams. • To compare the difference between manual and digital cartography • To acquaint with the skills regarding digital cartography • To identify sources and types of errors occurs during surveying • To get familiar with the basic aspects of linear, vertical and angular measurements of surveying

<p>Economic Geography, Social and Cultural Geography Paper CC-103 & 204</p>	<ul style="list-style-type: none"> • To understand the concepts and basis of economic processes To get acquainted with theories and models in economic geography • To get comprehensive knowledge of World energy resources, situation and distribution • To know about the Nature, scope and Principles of Industrial Geography • To understand transport and Trade policies of country • To get detail knowledge of economic power determinants of country and able to analyze the economic development of country. • To study and identify the philosophical base, problems associated with society & its culture. • To know about the culture, cultural regions, hearths and their diffusion, realms, and distribution of races. • To study and knowing of socio-cultural diversity of India, and processes of social changes. • To understand the social justice and well-being of society, to find out the level of well-being in India.
<p>Geography of Population and Human Resource Development Paper CC-104</p>	<ul style="list-style-type: none"> • Infer factors influencing population distribution and density • Acquire skill to describe regional patterns of population composition; • Compute and explore fertility, mortality and human development levels for micro, meso and macro regions • Analyse the population-resource regions and discover problems arising due to over and under population. • Understand and create awareness about provincial aspects of gender equity, social well-being and quality of life.
<p>Practical Paper CCPr-105 (Annual): Practical in Geomorphology and Surveying, Analysis of Climatic Data and Analysis of Socio-economic Data</p>	<ul style="list-style-type: none"> • To know the methods of representation of relief. • Understanding the topographical maps. • Identification and mapping of drainage patterns • To look into the drainage basin morphometry • To understand the field surveying methods. • To identify various sources of climate data • To understand the formats of Indian daily weather report and reading of weather signs and symbols • To represent meteorological elements diagrammatically and interpretation of results. • To know methods of measurement of meteorological elements • To analyse interrelationship between various meteorological elements • To analyse present and future trends of meteorological elements. • To identify the importance of population studies regarding the fertility, mortality • To understand the socio-economic structure of population • To study various statistical methods for analysis of Agricultural activities. • To determine the agriculture productivity and analyze results. • To get basic understanding of the economic data and its analysis.

<p>Practical paper CCPr-205 (Annual): Computer Applications in Geography, Statistical Techniques in Geography, and Quantitative Techniques in Geography</p>	<ul style="list-style-type: none"> • To learn the representation of geographic data using various computational methods; • To know about sources and uses of online educational resources and e-learning methods • To develop writing, editing, and presentation skill for representation of geographical information; • To compute statistical parameters with the help of computer; • To prepare and design maps and graphs with the help of computer software; • To apply computational techniques relevant in the discipline of Geography • To understand the importance and use of statistical techniques in geography • To form frequency distributions tables and graphically interpret the results • To measure central tendency and dispersion of data. • To examine relationship between two or more variables with correlation and regression analysis. • To apply comprehensive knowledge of statistics for analysis of geographical data • To understand correlation and regression among spatio-temporal data • To learn what is Spatial Analysis • For The Measurement Levels and Spatial Data • To Measures probability • To became expert in techniques for analysis of data in research • For Exploratory Data Analysis
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Rayat Shikshan Santha's

D.P.Bhosale College, Koregaon

Dept. of Hindi

B.A. III Course outcomes

Sr. No.	Course name	Course Outcomes
1	B.A. -I Comp. A सृजनात्मक लेखन B व्यावहारिक लेखन -	1. सृजनात्मक दृष्टि का विकास हुआ। 2. छात्र हिंदी भाषा तथा व्याकरण से परिचित हुए। 3. साक्षात्कार, यात्रावृत रिपोर्टाज, पत्रकारिता आदि विधाओं के लेखन से परिचित हुए। 4. हिंदी के विविध रूपों से परिचित हुए। 6. प्रयोजनमूलक हिंदी से परिचित हुए।
2	B.A. -I Opt. 1 हिंदी कविता 2 हिंदी गद्य साहित्य;	1. छात्रों के मन में हिंदी साहित्य के प्रति रुचि बढ़ाने के लिए साहित्य की विभिन्न विधाओं से परिचित किया। 2. हिंदी भाषा के श्रवण, पठन एवं लेखन की क्षमता का विकास किया। 3. निबंध, कहानी, रेखाचित्र, संस्मरण के माध्यम से छात्रों का भावात्मक विकास किया। 4. छात्रों में राष्ट्रीय एवं नैतिक मूल्य विकसित किये। 5. छात्रों की विचार क्षमता एवं कल्पनाशीलता को बढ़ावा मिला।
3	B.A. -II Paper III & V हिंदी आधुनिक गद्य साहित्य	1. हिंदी के आधुनिक गद्य साहित्य की विभिन्न विधाओं से परिचित हुए। 2. नारी विमर्शवादी कहानियों के द्वारा नारी की विभिन्न समस्याओं से छात्र परिचित हुए। 3. निबंध के माध्यम से मानव के अंदर होनेवाली वहशी प्रवृत्ति का परिचय हुआ। 4. समकालीन परिवेश और जीवन यथार्थ से परिचय हुआ। 5. कहानी तथा नाटक कला के प्रति अभिरुचि विकसित हुई।
4	B.A. -II Paper IV & VI 4.मध्यकालीन एवं आधुनिक काव्य 6.हिंदी आधुनिक काव्य	1. हिंदी साहित्य के भक्तिकाल से परिचित हुए। 2. कबीर के साहित्य के माध्यम से निर्गुणवादी विचारधारा से प्रभावित हुए। 3. सगुणवादी विचारधारा से परिचित हुए। 4. मीरा की कृष्णभक्ति और बिहारी के श्रृंगारवादी रचनाओं से परिचित हुए। 5. आधुनिक हिंदी कविताओं की विभिन्न विचारधाराओं से परिचित हुए।
5	B.A. -III Paper VII & XII विधा विशेष का अध्ययन	1. उपन्यास और आत्मकथा के तात्विक स्वरूप से परिचित हुए। 2. उपन्यासकार और आत्मकथाकार कृष्णा अग्निहोत्री एवं कौशल्या बैसंत्री के व्यक्तित्व और कृतित्व से परिचित हुए। 3. मूल्यांकन करने की क्षमता का विकास हुआ। 4. रचना के आस्वादन और समीक्षण की क्षमता का विकास हुआ। 5. उपन्यास और आत्मकथा की प्रासंगिकता समझ में आयी।
6	B.A. -III Paper VIII & XIII साहित्यशास्त्र	1. साहित्य की मर्मग्राहिणी क्षमता का विकास हुआ। 2. काव्य के विभिन्न अंगों का परिचय हुआ। 3. साहित्य समीक्षा की दृष्टि विकसित हुई। 4. भारतीय तथा पाश्चात्य समीक्षा सिद्धांतों का प्रयोग करने में सक्षम हुए। 5. अलंकार और छंदों की पहचान हुई।
7	B.A. -III Paper IX & XIV हिंदी साहित्य का इतिहास (सन् 2000 तक)	1. छात्र हिंदी साहित्य के इतिहास से परिचित हुए। 2. हिंदी के आदिकालीन साहित्य से परिचित हुए। 3. हिंदी की भक्तिकालीन विचारधारा से परिचित हुए। 4. हिंदी की रीतिकालीन विचारधारा से परिचित हुए। 5. हिंदी की आधुनिक विधाओं के उदभव और विकास से परिचित हुए। 6. आधुनिक हिंदी विभिन्न काव्यधाराओं से परिचय हुआ।
8	B.A. -III Paper X & XV	1. दैनिक व्यवहार में प्रयुक्त अंग्रेजी शब्दों के पर्यायवाची हिंदी रूपों से परिचित हुए। 2. विभिन्न संदर्भ स्रोतों से परिचित हुए।

	प्रयोजनमूलक हिंदी	3. जनसंचार के मुद्रित तथा इलेक्ट्रॉनिक माध्यमों से परिचित हुए। 4. वृत्तांत लेखन की कला में माहिर हुए। 5. अनुवाद के स्वरूप, महत्व तथा प्रकारों से परिचित हुए।
9	B.A. -III Paper XI & XVI भाषाविज्ञान और हिंदी भाषा	1. भाषा के विभिन्न रूपों से परिचित हुए। 2. भाषाविज्ञान का सामान्य परिचय प्राप्त हुआ। 3. हिंदी भाषा एवं लिपि के उद्भव और विकास से परिचित हुए। 4. भाषा की मानक वर्तनी के प्रति छात्र जागृत हुए। 5. हिंदी व्याकरण के विभिन्न अंगों से छात्र परिचित हुए।

Programme Specific Outcomes

B.A. - Hindi

1. लेखन, वाचन, उच्चारण कौशल व संवाद का विकास हुआ।
2. अनुवाद के क्षेत्र में नौकरी की संभावना प्राप्त होगी।
3. साहित्य लेखन में चिकित्सक दृष्टिकोण का विकास हुआ।
4. साहित्य निर्मिति के लिए अभिरुचि का विकास हुआ।
5. साहित्य का स्वरूप तथा उनकी सार्थकता समझ में आयी।
6. गद्य की विविध विधाओं का परिचय हुआ।
7. कविता का रसग्रहण करने की क्षमता का विकास हुआ।
8. पारिभाषिक शब्दावली से परिचित हुए तथा वाक्यशुद्धीकरण और अनुवाद का कौशल विकसित हुआ।
9. हिंदी भाषा तथा भाषाविज्ञान के विविध रूपों से परिचित हुए।
10. बहुमाध्यमों से परिचित हुए तथा उनका प्रयोग करने लगे।
11. कारक वाक्यभेद विरामचिह्न मानक वर्तनी वचन लिंग आदि की दृष्टि से हिंदी भाषा के व्याकरणिक स्वरूप का परिचय हुआ।
12. भक्तिकाल तथा रीतिकाल की सामाजिक धार्मिक परिस्थितियों से अवगत हुए।
13. भक्तिकालीन काव्य में निर्गुण और सगुण भक्ति धारा का अध्ययन किया।
14. रीतिकाल के माध्यम से श्रृंगार एवं वीर रस का महत्व समझ गए।
15. रीतिकालीन काव्य के माध्यम से प्रेम भावना को अंकुरित किया।
16. धर्म और जाति के परिणामस्वरूप प्रेमीजनों को तकलिफ उठानी पड़ती है।
17. शिक्षा प्राप्त करने के बाद नारी अपनी पीडा को वाणी देने लगी।
18. हिंदी कहानी और नाटक विधा से परिचित किया।
19. हिंदी कहानी और नाटक के तत्व एवं स्वरूप को समझाया।
20. समकालीन परिवेश और जीवन यथार्थ से परिचय हुआ।
21. कहानी तथा नाटक कला के प्रति अभिरुचि विकसित हुई।



Rayat Shikshan Sanstha's

D.P.Bhosale College, Koregaon

Department of Marathi

**Programme Outcomes, Programme Specific Outcomes,
And Course Outcomes**

Programmes Specific Outcomes B.A.& M.A. (MARATHI)

PSO-1. Creating an interest in literature.

PSO-2. Availing the job opportunities in transformation and media. PSO-3. Developing language.

PSO-4. Increasing the critical attitude about literary studies. PSO-5. Imbuing the literary research attitude.

• **B.A.I (Marathi)**

CO-1. Understanding the interrelation between literature and society. CO-2. Explaining the nature of Language and Literature.

CO-3. Obtaining the skills of literary criticism. CO-4. Imbuing the essay writing skills.

• **B.A. II (Marathi)**

CO-1. Introduction of medieval Marathi language and literature. CO-2. Introduction of the contemporary literary works.

CO-3. Acquiring the skill of translation.

CO-4. Explanation of the need and significance of editing.

• **B.A.III (Marathi) Sahityvichar**

CO-1. Acquaintance with oriental criticism.

CO-2. Understanding the nature and features and development of criticism.

• **B.A.III(Marathi) Bhasha Vidnyan Ani Marathi Bhasha**

CO-1. Getting acquainted with modern linguistics. Getting information about phonetics.

CO-2. Understanding origin, nature and function of language. Enhancing the interest in Marathi Language.

• **B.A.III (Marathi)Madhyayugin Marathi Vangmaycha Itihas**

CO-1. Introduction of the historical survey of medieval Marathi literature and literary forms.

CO-2. Explanation of the trends and structure of medieval Marathi Literature.

• **B.A.III (Marathi) Bhasha Upyojan Ani Sarjan**

CO-1. Understanding the formal and informal language and Developing various language skills.

CO-2. Getting motivation for creative writing and Understanding the technique of mass communication.

•B.A.III(Marathi) Vangmaypravahache Adhyayan – Madhyayugin

CO-1. Understanding various trends in rural literature.

CO-2. Understanding various trends in Dalit literature.

•Programmes Specific Outcomes M.A. (MARATHI)

PSO-1.Students will articulate knowledge of major literary, artistic and cultural works through literature.

PSO-2. Develop competency in Literary Forms i.e. Marathi poetry, autobiography, novel, short story, drama & performing prose.

PSO-3. Develop reading, Writing & Communication Skills in Marathi. The history of Saint Literature. Literary Theories.

PSO-4.Students will integrate language proficiencies, intercultural competencies skills, and critical modes of thinking and expression of today's globalized work environment, including professional communications and project collaboration.

•M.A.I(Marathi) Bhashik Awishkarachi Rupe

CO-1. Understanding various forms in Marathi literature.

CO-2. Develop Competency about Marathi literature.

•M.A.I(Marathi) Vishesh Sahitykrutincha Abhyas

CO-1. Understanding the type of Marathi literature.

CO-2. Develop Competency about *Lilacharitra, Drama, Noval.*

•M.A.I(Marathi) Aadhu. Marathi Vangamayacha Itihas

CO-1. Understand the History of Marathi Literature within modern era.

CO-2. Understand the relation between literary movement.

•M.A.I(Marathi) Loksahity V Lokkala

CO-1. Understanding the relation between folklore and folk literature.

CO-2. To Understand the origin and tradition of folklore and folk literature.

•M.A.II(Marathi) Samajbhasha Vidnyan

CO-1. Understand the origin, nature and function of language through Linguistic.

CO-2. Understand the phonetics, dialect and socio cultural study through language.

•M.A.II(Marathi) Vangmayin Sanskruti

CO-1. To Understand the concept of literary culture.

CO-2. Understanding relation between society and culture.

•M.A.II(Marathi) Samiksha Sidhhant Ani Upyojan

CO-1.Enhance the critical attitude about literature, literary canon and Isms.

CO-2. Improve the critical ability about literature.

•M.A.II(Marathi) Boli Abhyas

CO-1.Know competency about Marathi dialect.

C-2. To Understand various dialect in Marathi



HEAD

Department of Marathi
D.P. Bhosale College, Koregaon

D. P. Bhosale College Koregaon

DEPARTMENT OF COMPUTER APPLICATION

Programme Outcomes

- Apply knowledge of ICT in solving business problems.
- Learn various programming languages and custom software.
- Design component, or processes to meet the needs within realistic constraints.
- Identify, formulate, and solve problems using computational temperaments.
- Comprehend professional and ethical responsibility in computing profession.
- Express effective communication skills.
- Recognize the need for interdisciplinary, and an ability to engage in life-long learning.
- Knowledge of contemporary issues and emerging developments in computing profession.
- Utilize the techniques, skills and modern tools, for actual development process.
- Acquisition of skills to develop different software.
- Acquaintance of current trends in IT industry.
- Basic understanding of fundamental concepts of computers, business environment and IT applications in business.
- Critical thinking and problem solving: Our graduates will have critical thinking and problem-solving skills applicable to business and/or management practice or issues.
- Ethical, social and environmental responsibility: Our graduates will be aware of ethical, social, cultural and environmental implications of business issues and practice.

Programme Specific Outcomes

On completion of BCA degree, the graduates will be able to

- Understand, analyze and develop computer programs in the areas related to algorithm, system software, web design and networking.
- Apply the standard Software Engineering strategies in software project development.
- Apply innovative ideas and solutions to existing problems.
- Able to function effectively on teams to accomplish shared computing design, evaluation and implementation of goals.
- Able to work as a responsible computer professional with professional ethics.

Course Outcomes

Sr. No.	Name of Course & Semester	Outcomes
1	Fundamentals of Computer (Sem-I)	After completion of this course students will be able to 1. Understand basic concepts of computer. 2. Describe peripheral devices and number systems. 3. Understand operating environment 4. Demonstrate the use of Linux Operating system commands.
2	Introduction to Programming using 'C' (Sem-I)	After Completion of this course the student will be able to 1. Able to implement the algorithms and draw flowcharts for solving Mathematical problem. 2. Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage. 3. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file Handling. 4. Develop confidence for self-education and ability for life-long learning needed for computer language.
3	Principles of Management (Sem-I)	After completion of this course students will be able to 1. Understand the influence of historical forces on current practice of management. 2. Understand frameworks in the four functions of management. 3. Understand leadership styles to anticipate the consequences of each leadership style 4. Be able to identify and apply appropriate management techniques for organizations; and 5. Understand social responsibility involved in business situations.
4	Business Communication (Sem-I)	After completion of this course students will be able to 1. Communicate in English in written as well as oral mode. 2. Make presentations in English. 3. Do effective business correspondence.
5	Office Automation (Sem-I)	After completion of this course students will be able to 1) Understand the components of office automation 2) Perform operations using MS Word and PowerPoint 3) Surf details through Internet 4) Understand and discuss about the use of Office Package and internet in daily life
6	Lab Course-I (Sem-I)	After completion of this course students will be able to 1. Understand and trace the execution of programs written in C language. 2. Write the C code for a given algorithm 3. Implement Programs with pointers and arrays, perform pointer arithmetic and file handling.
7	Lab Course-II (Sem-I)	After completion of this course students will be able to 1) Use internet and internet tools. 2) Perform operations using MS Word and PowerPoint 3) Create business presentations using PowerPoint
8	Database Management System (Sem-II)	After completion of this course students will be able to 1) Describe the basic concepts of DBMS and various databases used in real applications 2) Demonstrate the principles behind systematic database design

		<p>approaches.</p> <p>3) Design the database structure by applying the concepts of Entity-Relational model and Normalization.</p> <p>4) Learn MS-Access for database creation and handling transactions.</p>
9	Operating System (Sem-II)	<p>After completion of this course students will be able to</p> <p>1) Possess knowledge of Operating Systems and their types.</p> <p>2) Apply the concept of a process and scheduling algorithms.</p> <p>3) Realize the concept of deadlock and different ways to handle it. 4) Understand various memory management techniques and file system.</p>
10	Object Oriented Programming Using C++ (Sem-II)	<p>After completion of this course students will be able to</p> <p>1) Understand object-oriented programming and advanced C++ concept.</p> <p>2) Apply the concepts of object, classes and constructor.</p> <p>3) Design C++ Programs based on object, class, inheritance, abstraction, encapsulation, dynamic binding and polymorphism.</p> <p>4) Implement concept of polymorphism in program.</p>
11	Financial Accounting with Tally (Sem-II)	<p>After completion of this course students will be able to</p> <p>1. Use basic accounting terminology, procedures and systems of maintaining accounting records.</p> <p>2. Understand financial statements</p> <p>3. Learn to create company, enter accounting voucher entries and also print financial statements, etc. in Tally.</p> <p>4. Demonstrate MIS reports in Tally ERP.</p>
12	Mathematical Foundations for Computer Applications (Sem-II)	<p>After completing this course, students should demonstrate competency in the following skills:</p> <p>1) Basic knowledge of set theory, functions and relations concepts, matrix needed for designing and solving problems.</p> <p>2) Construct simple mathematical proofs and possess the ability to verify them.</p> <p>3) Write an argument using logical notation and determine if the argument is valid or is not valid.</p> <p>4) Use graph algorithms to solve problems.</p>
13	Lab Course-III (Sem-II)	<p>After completion of this course students will be able to</p> <p>1) Use MS-Access DBMS and design database</p> <p>2) Perform operations on data using MS access features</p> <p>3) Create company using Tally ERP</p> <p>4) Perform accounting using Tally ERP</p>
14	Lab Course-IV (Sem-II)	<p>After completion of this course students will be are able to</p> <p>1) Understand the difference between the top-down and bottom-up approach</p> <p>2) Describe the object-oriented programming approach in connection with C++</p> <p>3) Apply the concepts of object-oriented programming</p> <p>4) Illustrate the process of data file manipulations using C++</p>
15	Web Technology (Sem-III)	<p>After completion of this course student should be able to</p> <p>1. Understand basics of website and web development life cycle. 2. Design website using HTML and CSS</p> <p>3. Implement client-side scripting for website development</p> <p>4. Understand importance and working of HTML5</p>
16	Computer Network and Internet (Sem-III)	<p>After completion of this course student should be able to</p> <p>1. Understand the concept of computer network.</p> <p>2. Identify different components required to build different networks.</p> <p>3. Recognize the functions of network layers and different protocols.</p>

		4. Discuss the important features of the Internet and Web.
17	Data Structure using C (Sem-III)	After completion of this course student should be able to 1. Use and implement appropriate data structure for the required problems using a programming language such as C. 2. Understand various searching & sorting techniques 3. Implementing various data structures viz. Stacks, Queues 4. Implementation of Linked Lists and Trees.
18	Elements of Statistics (Sem-III)	After completion of this course student should be able to 1) Explain various term used in Statistics. 2) Describe the Measures of Central Tendency and Dispersion 3) Understand Analysis of Bivariate data (Correlation and Regression) 4) Elaborate Sampling Techniques and Time Series Analysis.
19	Human Resource Management and Materials Management (Sem-III)	After completion of this course student should be able to 1. Understand Human Resource Planning Process. 2. Elaborate Performance Appraisal, Training and Development, Wage and salary Administration. 3. Explain functions of material management 4. Demonstrate 5 R in purchasing and Inventory control techniques.
20	Lab Course-V (Sem-III)	After completion of this course student should be able to 1: Understand Web Design Concept 2: Design Web Pages using CSS, HTML & Java Script
21	Lab Course-VI (Sem-III)	After completion of this course student should be able to 1. Implement various data structures viz. Stacks, Queues, Linked Lists and Trees 2. Apply MS-Excel features for Data Manipulation and Analysis.
22	Relational Database Management System (Sem-IV)	After completion of this course student should be able to 1. Describe the fundamental elements of Relational Database Management Systems. 2. Explain various commands in data languages with example. 3. Understand various subqueries & joins. 4. Apply the control statements and stored procedures.
23	Software Engineering (Sem-IV)	After completion of this course student should be able to 1. Understand life cycle models, requirement elicitation techniques, understand the concept of analysis and design of software. 2. Develop SRS document. 3. Use of analysis and design tools for system development. 4. Apply software engineering concepts in software development to develop quality software
24	DOT NET Technology (Sem-IV)	After completion of this course student should be able to 1. Understand features of C# DOT NET 2. Implement various server controls for website development 3. Apply validation and state management for interactive website development 4. Design and develop dynamic web application using ADO.Net
25	Entrepreneurship Development (Sem-IV)	After completion of this course student should be able to 1. Define characteristics, function and types of entrepreneurs and know the role of Entrepreneurship in Economic Development. 2. Identify Business Opportunities and prepare business plan. 3. Know project finance agencies. 4. Understand New Opportunities and Challenges in digital entrepreneurship.
26	PHP (Sem-IV)	After completion of this course student should be able to 1. Understand the environment of PHP programming Language.

		2. Develop web applications using PHP.
27	Lab Course-VII (Sem-IV)	After completion of this course student should be able to 1. Design database for business applications. 2 2. Use of queries, sub queries, join, view and stored procedures on databases.
28	Lab Course-VIII (Sem-IV)	After completion of this course student should be able to 1. Design console applications using C#. 2. Design web application using ASP.Net
29	Mini Project (Sem-IV)	After completion of this course student should be able to 1. Implement fundamental domain knowledge of core courses for developing simple business applications. 2. Utilize the software development techniques, skills and modern tools.
30	Management Accounting (Sem-V)	After completion of this course student should be able to 1. Use Accounting to facilitate and align decision made by owner, manager or employee 2. Understand Managerial Accounting and why it is an important aspect for successful business.
31	E-Commerce (Sem-V)	After completion of this course student should be able to 1. Understand real life applications of e-commerce 2. Identify role of e-commerce in day to day life
32	Computer Network (Sem-V)	After completion of this course student should be able to 1. Understand the concept of computer network. 2. Identify different components required to build different networks. 3. Recognize the functions of network layers and different protocols. 4. Discuss the important features of the Internet and Web.
33	Relational Database Management System with Oracle (Sem-V)	After completion of this course student should be able to 1. Describe the fundamental elements of Relational Database Management Systems. 2. Explain various commands in data languages with example. 3. Understand various subqueries & joins. 4. Apply the control statements and stored procedures.
34	Visual Programming (Sem-V)	After completion of this course student should be able to 1. Understand features of C# DOT NET 2. Implement various server controls for website development 3. Apply validation and state management for interactive website development 4. Design and develop dynamic web application using ADO.Net
35	Lab Course-VIII (Sem-V)	After completion of this course student should be able to 1. Design console applications using C#. 2. Design web application using ASP.Net
36	Mini Project (Sem-V)	After completion of this course student should be able to 1. Implement fundamental domain knowledge of core courses for developing simple business applications. 2. Utilize the software development techniques, skills and modern tools.
37	Strategic Management (Sem-VI)	After completion of this course student should be able to 1. Provide contemporary and highly applicable knowledge of strategic management in practice 2. Enhance strategic decision making capabilities
38	Data Mining and Data Warehousing (Sem-VI)	After completion of this course student should be able to 1) Understanding of role of Data Mining and Data Warehousing in Big Data

		<p>2) Understanding of Data Mining concepts.</p> <p>3) Understanding of Data Warehousing concepts.</p>
39	Linux Operating System (Sem-VI)	<p>After completion of this course students will be able to</p> <p>1) Possess knowledge of Linux Operating System.</p> <p>2) Apply the concept of a process and scheduling algorithms.</p> <p>3) Realize the concept of deadlock and different ways to handle it.</p> <p>4) Understand various memory management techniques and file system.</p>
40	Java Programming (Sem-VI)	<p>After completion of this course students will be able to</p> <p>1) Understand object-oriented programming and Java concept.</p> <p>2) Apply the concepts of object, classes and constructor.</p> <p>3) Design Java Programs based on object, class, inheritance, abstraction, encapsulation, dynamic binding and polymorphism.</p> <p>4) Implement concept of Multithreading and Exception Handling in program.</p>
41	Lab Course-IX (Sem-VI)	<p>After completion of this course student should be able to</p> <p>1) Study internals of Linux Operating System</p> <p>2) Use different commands of Linux Operating System</p>
42	Lab Course-X (Sem-VI)	<p>After completion of this course student should be able to</p> <p>1) Implement all the terminologies of multithreading</p> <p>2) Implement concept of packages</p> <p>3) Implement exception handling</p> <p>4) Use of Applet Programming</p>
43	Major Project (Sem-VI)	<p>After completion of this course student should be able to</p> <p>1. Implement in depth domain knowledge of core courses for developing simple business applications.</p> <p>2. Utilize the software development techniques, skills and modern tools.</p>

(Signature)

HEAD

Department of Computer Application
D. P. Bhosale College, Koregaon



Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Botany

Program Outcomes (PO's)

- PO1. **Knowledge and understanding of:** 1. The range of plant diversity in terms of structure, function and environmental relationships. 2. The evaluation of plant diversity. 3. Plant classification and the flora of Maharashtra. 4. The role of plants in the functioning of the global ecosystem. 5. A selection of more specialized, optional topics. 6. Statistics as applied to biological data.
- PO2. **Intellectual skills – able to:** 1. Think logically and organize tasks into a structured form. 2. Assimilate knowledge and ideas based on wide reading and through the internet. 3. Transfer of appropriate knowledge and methods from one topic to another within the subject. 4. Understand the evolving state of knowledge in a rapidly developing field. 5. Construct and test hypothesis. 6. Plan, conduct and write a report on an independent term project.
- PO3. **Practical skills:** Students learn to carry out practical work, in the field and in the laboratory, with minimal risk. They gain introductory experience in applying each of the following skills and gain greater proficiency in a selection of them depending on their choice of optional modules. 1. Interpreting plant morphology and anatomy. 2. Plant identification. 3. Vegetation analysis techniques. 4. A range of physiochemical analyses of plant materials in the context of plant physiology and biochemistry. 5. Analyze data using appropriate statistical methods and computer packages. 6. Plant pathology to be added for sharing of field and lab data obtained.
- PO4. **Transferable skills:** 1. Use of IT (word-processing, use of internet, statistical packages and databases). 2. Communication of scientific ideas in writing and orally. 3. Ability to work as part of a team. 4. Ability to use library resources. 5. Time management. 6. Career planning.
- PO5. **Scientific Knowledge:** Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.
- PO6. **Problem analysis:** Identify the taxonomic position of plants, formulate the research literature, and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature and classification in Botany.

- PO7. **Design/development of solutions:** Design solutions from medicinal plants for health problems, disorders and disease of human beings and estimate the phytochemical content of plants which meet the specified needs to appropriate consideration for the public health.
- PO8. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and development of the information to provide valid conclusions.
- PO9. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.
- PO10. **The Botanist and society:** Apply reasoning informed by the contextual knowledge to assess plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity conservation practice.
- PO11. **Environment and sustainability:** Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO12. **Ethics:** Apply ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation.
- PO13. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO14. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO15. **Project management and finance:** Demonstrate knowledge and understanding of the engineering 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.
- PO16. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Botany

Course Outcomes (CO's)

- CO1. Critically evaluation of ideas and arguments by collection relevant information about the plants, so as recognize the position of plant in the broad classification and phylogenetic level.
- CO2. Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification.
- CO3. Accurately interpretation of collected information and use taxonomical information to evaluate and formulate a position of plant in taxonomy.
- CO4. Students will be able to apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.
- CO5. Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.
- CO6. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
- CO7. Students will be able to apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations.
- CO8. Students will be able to identify the major groups of organisms with an emphasis on plants and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life.
- CO9. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history.
- CO10. Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.

- CO11. Students will be able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.
- CO12. Students will be able to demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.



Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon

Department of Botany

Program Specific Outcomes (PSO's)

B.Sc. Part-I, Semester-I

Paper I: Biodiversity of Microbes, Algae and Fungi

On completion of the course, students are able to:

1. Develop understanding on the concept of microbial nutrition
2. Classify viruses based on their characteristics and structures
3. Develop critical understanding of plant diseases and their remediation.
4. Examine the general characteristics of bacteria and their cell reproduction/recombination
5. Increase the awareness and appreciation of human friendly viruses, bacteria, algae, fungi and their economic importance
6. Conduct experiments using skills appropriate to subdivisions

Paper II: Biodiversity of Archegoniate- Bryophytes, Pteridophytes, Gymnosperms

On completion of the course, students are able to:

1. Demonstrate an understanding of archegoniatae, Bryophytes, Pteridophytes and Gymnosperms
2. Develop critical understanding on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms
3. Understanding of plant evolution and their transition to land habitat.
4. Demonstrate proficiency in the experimental techniques and methods of appropriate analysis of Bryophytes, Pteridophytes, Gymnosperms

Semester-II:

Paper III: Plant Ecology:

On completion of the course, students are able to:

1. Understand core concepts of biotic and abiotic

2. Classify the soils on the basis of physical, chemical and biological components
3. Analysis the phytogeography or phyto-geographical division of India
4. Evaluate energy sources of ecological system
5. Assess the adaptation of plants in relation to light, temperature, water, wind and fire.
6. Conduct experiments using skills appropriate to subdivisions

Paper IV: Plant Taxonomy:

On completion of the course, students are able to understand

1. Classify Plant systematics and recognize the importance of herbarium and Virtual herbarium
2. Evaluate the Important herbaria and botanical gardens
3. Interpret the rules of ICN in botanical nomenclature
4. Assess terms and concepts related to Phylogenetic Systematics
5. Generalize the characters of the families according to Bentham & Hooker's system of classification

B.Sc. Part-II, Semester- III

Paper V: Embryology of Angiosperms

On completion of the course, students are able to:

1. Understand the fundamental concepts of plant embryology
2. Evaluate the structural organization of flower and the process of pollination and fertilization.

Paper VI: Plant Physiology

On completion of the course, students are able to:

1. Understand Water relation of plants with respect to various physiological processes.
2. Explain chemical properties and deficiency symptoms in plants
3. Classify aerobic and anaerobic respiration
4. Explain the significance of Photosynthesis and respiration
5. Assess dormancy and germination in plants

B.Sc. Part-II, Semester-IV:

Paper VII: Plant Anatomy

On completion of the course, students are able to:

1. Develop an understanding of concepts and fundamentals of plant anatomy
2. Examine the internal anatomy of plant systems and organs
3. Develop critical understanding on the evolution of concept of organization of shoot and root apex.
4. Analyze the composition of different parts of plants and their relationships
5. Evaluate the adaptive and protective systems of plants

Paper VIII: Plant Metabolism

On completion of the course, students are able to:

1. Differentiate anabolic and catabolic pathways of metabolism
2. Recognize the importance of Carbon assimilation in photorespiration
3. Explain the ATP-Synthesis
4. Interpret the Biological nitrogen fixation in metabolism



Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
DEPARTMENT OF MATHEMATICS

Program Outcomes

Program	Program Outcomes
B.Sc.	<ul style="list-style-type: none">• Problem Analysis: identify, formulate, review and analyze complex problems using various techniques.• Modern Tool Usage: create, select and apply appropriate techniques, resources and modern tools.• Communication: Communicate effectively on complex activities and with the society at large and write effective documentation, make effective presentation and give and receive clear instructions.• Individual and team work: Function effectively as an individual and as a member or leader or project manager in project team.• Project Management: Effectively manage project work according to time scheduling, cost scheduling.



Acelunke

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
DEPARTMENT OF MATHEMATICS

Program Specific Outcomes

B.Sc. Mathematics programme has been designed to prepare graduates for attaining the following specific outcomes:

Program	Program Specific Outcomes
B.Sc.(Mathematics)	<ul style="list-style-type: none">• Develop numerical abilities of student.• Introduce recent trends in mathematics• An ability to apply knowledge of mathematics, computer science and management in practice.• Acquire practical skills related to different fields such as business, banking, etc.• An ability to enhance not only comprehensive understanding of the theory but its application too in diverse field.• An ability to communicate effectively.



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Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
DEPARTMENT OF MATHEMATICS

Course Outcomes

- The necessary technical, scientific as well as basic managerial and financial procedures to analyze and solve real world problems within their work domain.
- Implement various programming languages like C&C++.Construct in the right way.
- Analyze a given problem and to solve the problem.
- Improved communication and business management skills, especially in providing tech support.
- The ability to master the basic concept and understand to solve the problem.
- The ability and the mindset to continuously update and innovate.

B.Sc.-I

Course Name	Course Outcomes
Differential Calculus	<ul style="list-style-type: none"> ▪ Understand De-Moivre's theorem, applications ▪ N-th root of unity ▪ Understand hyperbolic functions and it's properties, differentiation, inverse hyperbolic functions ▪ Know relation between hyperbolic and circular functions ▪ Higher order derivatives and n-th derivative of some standard functions ▪ Apply Leibnitz's theorem, partial differentiation, chain rule and examples ▪ Know Euler's theorem on homogeneous function ▪ Understand maxima and minima of functions of two variables ▪ Lagrange method of undetermined multipliers
Calculus	<ul style="list-style-type: none"> ▪ Illustrative examples to facilitate the complete understanding of the topic ▪ Understand the consequences of Rolle's theorem, Lagrange's theorem, Cauchy mean value theorem for differentiable functions ▪ Understand Taylor's theorem, Maclarin's theorem and series ▪ Know Indeterminate forms ▪ Calculate the limit of a function at a point numerically and algebraically using appropriate techniques including l'Hospital's rule ▪ Verify the value of the limit of a function at a point using the definition of the limit ▪ Find points of discontinuity for functions and classify them.



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Department of Mathematics
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	<ul style="list-style-type: none"> ▪ Understand the consequences of the intermediate value theorem for continuous functions ▪ Compute the value of the derivative at a point algebraically using the (limit) definition ▪ Derive the expression for the derivative of elementary functions from the (limit) definition
Differential Equations	<ul style="list-style-type: none"> ▪ Identify an ordinary differential equation and its order ▪ Verify whether a given function is a solution of a given ordinary differential equation (as well as verifying initial conditions when applicable) ▪ Classify ordinary differential equations into linear and nonlinear equations ▪ Solve first order linear differential equations ▪ Find solutions of separable differential equations ▪ Apply first order equations to problems in elementary dynamics ▪ Find solutions of exact equations linear and Bernoulli's equations ▪ Find the general solution of second order linear homogeneous equations with constant coefficients ▪ Understand the notion of linear independence and the notion of a fundamental set of solutions ▪ Use the method of reduction of order to find a second linearly independent solution of a second order, linear homogeneous equation when one solution is given ▪ Determine complementary function and particular integral ▪ Legendres linear equations
Higher Order Ordinary & Partial Differential Equations.	<ul style="list-style-type: none"> ▪ Understand second order linear differential equations ▪ Solution when one integral is given, removal of first order derivative, by changing independent variable ▪ Ordinary simultaneous and total differential equations ▪ Necessary condition of integrability, geometrical interpretation of simultaneous and total differential equation ▪ Partial differential equation: Linear and non linear partial differential equation ▪ Formation of PDF by elimination of arbitrary constant ▪ Lagrange equations, Charpit's method, Clairaut's equation

B.Sc.-II

Course Name	Course Outcomes
Real Analysis-I	<ul style="list-style-type: none"> ▪ Understand types of functions and how to identify them. ▪ Use mathematical induction to prove various properties. ▪ Understand the basic ideas of real analysis. ▪ Provide order properties of real numbers, completeness property and Archimedean property.
Algebra-I	<ul style="list-style-type: none"> ▪ Understand Hermitian and skew Hermitian matrices and properties. ▪ Understand rank of matrix, echelon form. ▪ Consistency of homogeneous and non homogeneous system of linear



A. Lunce
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Department of Mathematics
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	<p>equations.</p> <ul style="list-style-type: none"> ▪ Applications of Cayley-Hamilton theorem. ▪ Understand types of relations, digraphs, equivalence class theorem. ▪ Understand the concepts of group, subgroup, abelian group, finite and infinite group, quaternion group and order of the group. ▪ Decide whether the given group is cyclic, cyclic subgroup, abelian cyclic group order of a cyclic group.
Real Analysis- II	<ul style="list-style-type: none"> ▪ Understand sequence and subsequence. ▪ Understand the Bolzano-Weierstrass theorem. ▪ Understand Cauchy convergence criterion. ▪ Find convergence of series. ▪ Apply Leibnitz's test.
Algebra- II	<ul style="list-style-type: none"> ▪ Understand the concepts of normal subgroup, Quotient group, centre of group. ▪ Understand homomorphism and isomorphism of groups, fundamental theorem of isomorphism. ▪ Understand symmetric group, permutation group and Cayley's theorem. ▪ Know the concept of ring, integral domain and examples. ▪ Understand homomorphism and isomorphism of ring, subrings, ideals and examples

B.Sc.-III

Course Name	Course Outcomes
Mathematical Analysis	<ul style="list-style-type: none"> ▪ Know the integration of bounded function on a closed and bounded interval. ▪ Know some of the families and properties of Riemann integrable functions. ▪ Apply the applications of the fundamental theorems of integration. ▪ Know the extension of Riemann integral to the improper integrals when either the interval of integration is infinite or the integrand has infinitely limits at finite number of points on the interval of integration. ▪ Understand the expansion of functions in Fourier series and half range Fourier series.
Abstract Algebra	<ul style="list-style-type: none"> ▪ Understand the basic concepts of group and rings with example. ▪ Identify whether the given set with the compositions form ring and integral domain or field. ▪ Understand the difference between the concepts group and ring. ▪ Apply fundamental theorem, isomorphism, theorems of groups to prove these theorems for ring. ▪ Understand the concepts of polynomial rings, unique factorization domain. ▪ Understand and prove fundamental results and solve algebraic problems using appropriate techniques.



A. Kulkarni

Head

Department of Mathematics
D. P. Bhosale College, Koregaon

Optimization Techniques	<ul style="list-style-type: none"> ▪ Formulate and apply suitable methods to solve problems. ▪ Provide student basic knowledge of rang of operation research models and techniques which can be applied to a variety of industrial and real life applications. ▪ Identify and select suitable methods for various games. ▪ Identify and select procedures for various sequencing, assignment, transportation problems. ▪ Apply linear programming and find algebraic solutions to games.
Integral transform	<ul style="list-style-type: none"> ▪ Understand Laplace transforms. ▪ To represent periodic functions using Fourier series. ▪ Learn about analytical function and how to check analyticity based on Cauchy- Riemann equation. ▪ Evaluate complex integrals by various methods. ▪ Get an idea of power series method to solve differential equations familiar with legendre equation and polynomial. ▪ Knowing basic difference between real and complex calculus.
Metric Spaces	<ul style="list-style-type: none"> ▪ Acquire the knowledge of notion of matrix space, open set and closed sets. ▪ Apply the notion of matrix space to continuous functions on matrix spaces. ▪ Appreciate the process of abstraction of limits and continuity to matrix spaces. ▪ Understand the basic concepts of connectedness, completeness and compactness of matrix spaces.
Linear Algebra	<ul style="list-style-type: none"> ▪ Understand notion of vector space, subspace, basis. ▪ Understand concept of linear transformation and it's application to real life situations. ▪ Workout algebra of linear transformations. ▪ Appreciate connection between linear transformation and matrices. ▪ Workout Eigen values, Eigen vectors and it's connection with real life situation.
Complex Analysis	<ul style="list-style-type: none"> ▪ Learn basic concepts of functions of complex variable. ▪ Learn the basic concepts of analytic functions. ▪ Learn concepts of complex integration and basic results. ▪ Apply concept of residuals to evaluate certain real integrals. ▪ To learn concepts of sequence and series of complex variable. ▪ Perform basic algebraic manipulation with complex numbers ▪ Understand the geometric interpretation of complex numbers ▪ Identify curves and regions in the complex plane defined by simple expressions. ▪ Describe basic properties of complex integration and having the ability to compute such integrals. ▪ Decide when and where a given function is analytic and be able to find it series development.
Discrete Mathematics	<ul style="list-style-type: none"> ▪ Use classical notions of logic: implications, equivalence, negation, proof of contradiction, proof of induction and quantifiers. ▪ Apply notion in logic in other branches of mathematics. ▪ Know elementary algorithms: searching algorithms, sorting, greedy



Acharya
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 D. P. Bhosale College, Koregaon

Optimization Techniques	<ul style="list-style-type: none"> ▪ Formulate and apply suitable methods to solve problems. ▪ Provide student basic knowledge of rang of operation research models and techniques which can be applied to a variety of industrial and real life applications. ▪ Identify and select suitable methods for various games. ▪ Identify and select procedures for various sequencing, assignment, transportation problems. ▪ Apply linear programming and find algebraic solutions to games.
Integral transform	<ul style="list-style-type: none"> ▪ Understand Laplace transforms. ▪ To represent periodic functions using Fourier series. ▪ Learn about analytical function and how to check analyticity based on Cauchy- Riemann equation. ▪ Evaluate complex integrals by various methods. ▪ Get an idea of power series method to solve differential equations familiar with legendre equation and polynomial. ▪ Knowing basic difference between real and complex calculus.
Metric Spaces	<ul style="list-style-type: none"> ▪ Acquire the knowledge of notion of matrix space, open set and closed sets. ▪ Apply the notion of matrix space to continuous functions on matrix spaces. ▪ Appreciate the process of abstraction of limits and continuity to matrix spaces. ▪ Understand the basic concepts of connectedness, completeness and compactness of matrix spaces.
Linear Algebra	<ul style="list-style-type: none"> ▪ Understand notion of vector space, subspace, basis. ▪ Understand concept of linear transformation and it's application to real life situations. ▪ Workout algebra of linear transformations. ▪ Appreciate connection between linear transformation and matrices. ▪ Workout Eigen values, Eigen vectors and it's connection with real life situation.
Complex Analysis	<ul style="list-style-type: none"> ▪ Learn basic concepts of functions of complex variable. ▪ Learn the basic concepts of analytic functions. ▪ Learn concepts of complex integration and basic results. ▪ Apply concept of residuals to evaluate certain real integrals. ▪ To learn concepts of sequence and series of complex variable. ▪ Perform basic algebraic manipulation with complex numbers ▪ Understand the geometric interpretation of complex numbers ▪ Identify curves and regions in the complex plane defined by simple expressions. ▪ Describe basic properties of complex integration and having the ability to compute such integrals. ▪ Decide when and where a given function is analytic and be able to find it series development.
Discrete Mathematics	<ul style="list-style-type: none"> ▪ Use classical notions of logic: implications, equivalence, negation, proof of contradiction, proof of induction and quantifiers. ▪ Apply notion in logic in other branches of mathematics. ▪ Know elementary algorithms: searching algorithms, sorting, greedy



Accuracy
 Department of Mathematics
 D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's
D.P. Bhosale College, Koregaon
Department of Zoology

Programme Outcomes: B.Sc.

After completing B. Sc. programme in Zoology the students will get –

- 1) To understand the nature, practice and application of the Zoology.
- 2) To develop Professional skills and their application.
- 3) To initiate creativity and innovative ability towards problems.
- 4) To motivate students to involve actively in research field.
- 5) To increase biological awareness for an environment.
- 6) To improve scientific knowledge for the development of society in all respects.
- 7) To improve the communication skills in personality development.

Rayat Shikshan Sanstha's
D.P. Bhosale College, Koregaon
Department of Zoology

Specific Outcomes: B.Sc.

1. Students will have learning about the basic taxonomy and systematics and classification of Protozoa, Porifera, Cnidaria and Helminth groups.
2. Students will be understanding the various features and aspects of population ecology, community ecology and ecosystem ecology.
3. Students will understand the structures, positions and functions of plasma membrane and all cellular organelles in details.
4. Students will understand the classification, structure, function and biology of chordates of different taxonomic classes.
5. Students will understand the basic and fundamental biochemistry of carbohydrates, proteins, lipids and nucleic acids. They will also understand the nature, mechanism, and kinetics of enzyme action.
6. Students will have understood the structures of different systems such as, integumentary, skeletal, digestive, respiratory, circulatory, urinogenital, nervous and sensory organs in comparative way among the vertebrate groups.
7. Students will know the physiology of digestion, respiration, circulation, excretion and adaptation.
8. Students will acquire knowledge about replication, transcription, translation, post transcriptional and post translational modifications, gene regulation, DNA repair mechanisms and various molecular tools and techniques like PCR, southern, northern and western blotting, recombinant DNA technology etc.
9. Students will learn the different aspects of early, late and post embryonic developments.
10. Students will develop knowledge about structures and function of immune cells, immunoglobulins, antigens and their interactions with antibodies.

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Physics

Programme Outcomes: B. Sc. Physics

Department of Physics	After successful completion of three year degree program in physics a student should be able to
Programme Outcomes	<p>PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of physics.</p> <p>PO-2. Solve the problem and also think methodically, independently and draw a logical conclusion.</p> <p>PO-3. Employ critical thinking and the scientific knowledge to design, carryout, record and analyze the results of Physics experiments.</p> <p>PO-4. Engagement with the needs of Society: To enable the learner to use scientific knowledge for the development of society in all respects.</p> <p>PO-5. Communication skills: An understanding of and ability with the different forms of communication - writing, reading, speaking, listening-including visual and graphical.</p> <p>PO-6. Create an awareness of the impact of Physics on the society, and development outside the scientific community.</p> <p>PO-7. To inculcate the scientific temperament in the students And outside the scientific community.</p> <p>PO-8. Use modern techniques, decent equipments and Phonics software's</p> <p>PO-9. Initiative and innovative ability: An ability to think and work creatively, including the capacity for self-starting, and the ability to apply scientific skills to unconventional applications.</p>
Programme Specific Outcomes	<p>PSO-1. Gain the knowledge of Physics through theory and Practical's.</p> <p>PSO-2. Understand good laboratory practices and safety.</p> <p>PSO-3. Develop research oriented skills.</p> <p>PSO-4. Make aware and handle the sophisticated instruments/equipments.</p> <p>PSO-5. To create initiative and innovative ability for developing scientific and research skills.</p>

Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Physics
Course Outcomes B. Sc. Physics

Semester-V

Course	Outcomes
PH-IX: Mathematical Methods in Physics III	<p>After completion of these courses students should be able to:</p> <p>CO-1. To know the differential equation. CO-2. To find order, degree, linearity, homogeneity and method of separation variable. CO-3. To understand Forbenious method and special functions and their applications. CO-4 To study the properties of Gamma, Beta and Error function. CO-5 To analysis the complex functions.</p>
PH-X: Quantum Mechanics	<p>CO-1. To understand the basic quantum mechanics. CO-2. Understand De-Broglie hypothesis and Uncertainty principle CO-3. Derive Schrodinger's time dependent and independent Equations. CO-4. Solve the problems using Schrödinger's steady state equation CO-5. Understand different operators in Quantum Mechanics CO-6. Application Schrödinger's wave equations (one dimensional and three dimensional box) CO- 7. To study of Hydrogen atom. CO-8. Schrodinger's equation for Hydrogen atom in spherical polar co-ordinates and energy eigen values.</p>
PH-XI: Classical Mechanics and Classical Electrodynamics	<p>CO-1. Understand the concept of mechanics (Classical & Quantum). CO-2. Understands Lagrangian and Hamiltonian formulation. CO-3. Solve the problems using Lagrangian and Hamiltonian Formulation. CO-4. Concept of Special Theory of Relativity. CO-5. To study Michelson-Morley experiment. CO-6. To study the motion of charged particle in electric and magnetic field in classical level.</p>
PH-XI: Digital and Analog circuits and instrumentation	<p>CO-1. Understand the concept of basic logic gates, flip-flop and adder. CO-2. To study the transistor amplifier(CE, CB and CC) CO-3. To study the sinusoidal oscillator and their application. CO-4. Constrution and working of Cathode Ray Oscilloscope and their applications. CO-5. To study operational amplifier and their types. CO-6. Block diagram of IC 555 and their applications(Astable and Monastable).</p>

Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Physics

Course Outcomes B. Sc. Physics

Semester-VI

PH-XIII: Nuclear and Particle Physics	<p>CO-1. Know the properties of nucleus likes binding energy, magnetic dipole moment and electric quadruple moment</p> <p>CO-2. To study the particle accelerator(Cyclotron and Synchrocyclotron)</p> <p>CO-3. Construction and working Betatron.</p> <p>CO-4. To knowing about nuclear detector.</p> <p>CO-5. To understand the basic concept of Particle Physics</p>
PH XIV: Solid State Physics	<p>CO-1. Crystal structure.</p> <p>CO-2. To understand the principles and techniques of X-rays Diffraction.</p> <p>CO-3. Lattice vibration.</p> <p>CO-4. Elementary band theory of solids.</p> <p>CO-5. To study the magnetic properties of matter(Dimagnetic, paramagnetic and ferromagnetic)</p> <p>CO-6. To study the classical and quantum mechanical theory of magnetic materials.</p> <p>CO-7. To study the Bloch theorem, Kroning-Penny model.</p> <p>CO-8. To study the Hall effect, Hall voltage and Hall coefficient.</p>
PH XV: Atomic and Molecular Physics and Astrophysics	<p>CO-1. Understand the concept of atomic spectra.</p> <p>CO-2. To understand molecular spectra & effect of magnetic field on atomic spectra .</p> <p>CO-3. To study the Raman effect.</p> <p>CO-4. To know about milky way galaxy and solar system.</p> <p>CO-5. To study the structure of universe theory(Big Bang, Steady state and Oscillating).</p> <p>CO-6. To understand stellar evolution of main sequence stars(Red giants and White drafts).</p> <p>CO-7. Evaluation of more massive stars i.e., Supernova, Black hole, Sunspots.</p>
PH XVI: Energy studies and Materials Science	<p>CO-1. Understand the renewable energy resources(solar energy, biomass energy and wind power energy).</p> <p>CO-2. To study the solar spectrum and utilize solar energy thermal route.</p> <p>CO-3. Construction and working of solar photovoltaic cell.</p> <p>CO-4. To study biomass conversion process.</p> <p>CO-5. To study the superconductivity.</p> <p>CO-6. Understand the concept and application of nanotechnology.</p> <p>CO-7. To study how to synthesize nanostructures material.</p>

Rayat Shikshan Sanstha's
D.P.Bhosale College, Koregaon
Department of Physics

Programme Specific Outcomes

- PSO1:** Students get acquainted with techniques which are useful in industry.
- PSO2:** To carry out experiments to understand the laws and concepts of Physics
- PSO3:** learn the organizational skills and working in group.
- PSO4:** Students will be well versed with use of computers
- PSO5:** To understand the basic laws and explore the fundamental concepts of physics
- PSO6:** To understand the concepts and significance of the various physical phenomena.
- PSO7:** To acquire a wide range of problem solving skills, both analytical and technical and to apply them.
- PSO8:** Providing a hands-on learning experience such as in measuring the basic concepts in properties of matter, heat, optics, electricity and electronics.
- PSO9:** To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community.
- PSO10:** Students get conceptual knowledge of entrepreneurship through the co-curricular activities
- PSO11:** To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens.
- PSO12:** To motivate the students to pursue PG courses in reputed institutions.

D.P. Bhosale College, Koregaon

Department of Microbiology

Programme Outcomes: B.Sc.

After completing B. Sc. programme in Microbiology the students will get –

- Bachelor of Science in Microbiology (B.Sc. Microbiology) is a fulltime three years (6 semesters) research & applied life-science program that aims to develop knowledge to prevent or treat disease and develops new industrial & healthcare.
- This course makes a real difference to society, as well as plenty of opportunities to continue professional development and travel abroad for the purpose of studies, research, business & service (Indian and international agencies provide travel-fellowships).
- Stepping stone for further studies B.Sc. Microbiology graduates can easily be optimized for M.Sc. Microbiology course as well as in other M.Sc. specialization like Biotechnology, Virology, Agri-microbiology, Bioinformatics, Forensics and many more. Microbiologists possess adequate eligibility for pathological studies and jobs by opting for a specialized degree of DMLT or P.G.DMLT.
- This Course offers interdisciplinary approach to achieve overall development of the students to impart leadership, management and technical expertise in students along with industrial and field exposure.
- Students will become aware of the important role microorganisms play in maintenance of a clean and healthy environment. They will learn of the role of microorganisms in plant, animal and human health and disease.
- Students will gain knowledge of various biotechnological applications of microorganisms with the unique role of microbes in genetic modification technologies.
- Students will become familiar with scientific methodology, hypothesis generation and testing, design and execution of experiments. Students will develop the ability to think critically and to read and analyse scientific literature.

- Students will acquire and demonstrate proficiency in good laboratory practices in a microbiological laboratory and be able to explain the theoretical basis and practical skills of the tools and techniques commonly used to study this field.
- Students will develop strong oral and written communication skills through the effective

Programme Outcomes

PO-1 Transform and empower women graduates to meet global challenges through holistic education in terms of recent Teaching-Learning methodologies

PO-2 Groom the graduates towards excellence through building communication skills, handling leadership challenges and negotiating career path ways

PO-3 Heighten the conscious of the graduates on socio-economic concern and to evolve it as an in-built mechanism to chisel as better human being.

PO-4 Produce graduates strengthened by contextual knowledge of chemistry with innovative research attitude and serve the society with appropriate consideration for sustainable development.

PO-5 Produce chemists who can nurture the needs of chemical industries and laboratories

Programme Specific Outcomes

PSO-1 Make use of the concepts of organic, inorganic, physical chemistry and their applications in day to day life

PSO-2 Validate the multiple utility of chemistry in various interdisciplinary aspects
PSO-3 use modern chemical tools, Models, Chem-draw, Charts, computational Chemistry Software and Analytical Equipment.

PSO-4 Execute new ideas in higher education, research and development using the principles and techniques of Chemistry

PSO-5 Be competent to take challenging positions in industry, academics and government sectors by learning various qualitative and quantitative analytical skills and their applications.

Course Outcomes

CO1: Students will be able to explain the basic chemistry of transition metals and its compounds, spectroscopic characteristics of such compounds, nomenclature, reactions and applications.

CO2: Students will obtain knowledge about Preparation, structure, physical and chemical properties of metal carbonyls of transition metals.

CO3: Students will be able to understand the all aspects of synthesis, bonding, structure and reactivity of organometallic compounds and their applications in homogenous catalysis.

CO4: Student will be able determine the stability of the complexes and will be able to explain the nuclear stability and reactions

CO5: Students will able to differentiate between various organic reactive intermediates.

CO6: Students can recognize, classify, explain, and apply fundamental organic reactions.

CO7: Students will have ability to distinguish between different kinds of isomers.

CO8: Course will develop interest in writing and finding mechanisms of new reactions.

CO9: Students will be able to understand basic principles of thermodynamics and statistical mechanics

CO10: Able to learn advanced topics like quantum statistics and molecular dynamic simulation methods.

CO11: Develop abilities to understand how to estimate and analyze the physicochemical properties of condensed and gas phase materials.

CO12: Able to utilize spectral data to estimate molecular thermodynamic properties through partition function calculations.

CO13: Understand properties of detergents and colloidal materials

CO14: Learns the principles and techniques to understand gas and liquid adsorptions on solid surfaces


CO15: Can learn spectral techniques to study surface adsorption phenomena.

CO16: Learn principles and techniques for estimation of average molecular weight of a polymer or biological macromolecules

CO17: Develop abilities to characterize polymers through understanding theories of virial coefficients, concepts of glass transition temperatures, etc.

CO18: Students would acquire the knowledge about the fundamentals of Analytical Chemistry including the sampling, sample pretreatment, basic techniques, methods and data handling, processing and statistical analysis of the same.

CO19: Students would acquire the knowledge and understand the scope of Analytical Chemistry spanning various fields. The students will learn fundamentals of qualitative analysis using conventional techniques


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Department of Chemistry
D. P. Shinde College, Koregaon

Rayat Shikshan Sanshta's
D.P. Bhosale College, Koregaon

Department of Commerce
Programme Outcomes 2021-22

Name of the Programme	Programme Outcomes
B.Com.	After completing three year for Bachelors in Commerce (B.Com.) Program 1. Develop Accounting abilities of students. 2. Inculcate business correspondence writing skills. 3. Develop language skills of students. 4. Acquire practical skills related with Company Account and other business. 5. Introduction recent trends in Marketing, Management and Insurance.
M.Com.	After completing two year for Master in Commerce (M.Com.) Program 1. Inculcate business correspondence writing skills. 2. Provide master level knowledge of Advanced Banking and Financial System of PG course. 3. Information about the Research knowledge to the Students. 4. Provide a platform for overall development of students.

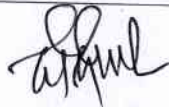


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Department of Commerce
Programme Specific Outcomes 2021-22

Name of the Programme	Programme Specific Outcomes
B.Com. III	<ol style="list-style-type: none">1. Students will learn relevant financial accounting career skills in business.2. Learner will able to recognize roles of businessman, entrepreneur, manager, consultant which help learners to acquire such knowledge and soft skills.3. Learner will be able to prove proficiency with the ability engage in competitive exams like CA, CS, ICWA and other courses.4. Learner will gain through systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, marketing, insurance, auditing.5. Learner will acquire the skill like effective communication, decision making, problem solving in day to day business affairs.6. Learner can also acquire practical skills to work as Accountant, Tax Consultant, Audit assistant and other financial supporting services.7. Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
M.Com. II	<ol style="list-style-type: none">1. Learner can acquire practical to work as Bank Manager.2. Learner will be acquires writing skills in Banking Services.3. Learner acquires Research Knowledge.



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Department of Commerce
Course Outcomes UG 2021-22

Name of the Course	Course Outcomes
B.Com. I Management Principles and Application	<ol style="list-style-type: none"> 1. Demonstrate professional communication and behavior. 2. Identify and evaluate social responsibility and ethical issues involved in business. 3. Understand and practice the process of management functions such as Planning, Organizing, Leadership, controlling, etc. 4. Evaluate leadership styles to anticipate the consequences of each leadership styles. 5. Observe and evaluate current management issues. 6. Understand the motivational theories in management.
Financial Accounting	<ol style="list-style-type: none"> 1. Develop and understand the nature and purpose of financial statement in relationship to decision making. 2. Develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an organization's accounting records and financial statements. 3. Develop the ability to use basic accounting system to create [record, classify, and summarize] the data needed to solve a variety of business problems. 4. Develop the ability to use accounting concept, principles, and frameworks to analyze and effectively communicate information to a variety of audiences. 5. Develop the ability to use accounting information to solve a variety of business problems. 6. Develop the ability to interact well with team members.
Principles of marketing	<ol style="list-style-type: none"> 1. Students will be aware about marketing practices available in India. 2. Students will be aware about conceptual and fundamental knowledge of markets and its

	<p>functioning.</p> <p>3. Subject will provide package of skills relevant to practice.</p> <p>4. It will provide marketing research methodology.</p>
Insurance	<p>1. Students will be aware about technical matters of claim settlement.</p> <p>2. Students will be capable to understand the insurance practices and its policy.</p> <p>3. Recognize and act within the rules of professional conduct.</p> <p>4. Identify the client's reasonable expectations as to quality and timeliness of service.</p> <p>5. Reflect on their learning and identify learning needs.</p>
B.Com. II Corporate Accounting	<p>1. Know the corporate accounting policies.</p> <p>2. Aware students about methods of issues of shares/debenture</p> <p>3. Know the financial analysis for comparison.</p>
Fundamental of Entrepreneurship	<p>1. Aware students about entrepreneurship culture.</p> <p>2. Know the theory of entrepreneurship.</p> <p>3. Know the practical know how about project of self employment.</p>
B.Com. III Business Regulatory Framework	<p>1. Students will capable to know the technical grounds of mercantile law and its uses.</p> <p>2. Students will capable to know the practices of law.</p>
Business Environment	<p>Paper No - I</p> <p>1 Student should able to understand the significance and position of Indian economy at the world level.</p> <p>2 Students should study the scenario of agricultural and industrial sectors.</p> <p>3 Student should aware regarding Indian economy is facing some of the fundamental economic problems. They should able to make plans and solutions to these being as a citizen.</p> <p>4 Student should understand the correlations between economical and social problems.</p> <p>Paper No - II</p> <p>1. Students will understand the Indian and global economic environment.</p> <p>2. Students will equip with proper knowledge of</p>

	<p>Indian economic planning.</p> <p>3. Students will enable with the knowledge of the plans and strategies toward foreign capital and multinational corporations.</p> <p>4. Students will get acquainted with the functions, mechanism and performance of international financial, trade and regional cooperation institutions.</p>
Modern Management Practice	<p>Paper No - I</p> <p>1 To impart knowledge of modern management</p> <p>2 To understand concepts of CRM</p> <p>3 To know the concepts of emotional and social intelligence</p> <p>4 To understand the concept of lean and talent management</p> <p>Paper No – II</p> <p>1 To impart knowledge of total quality management</p> <p>2 To understand the Japanese and Chinese Management Practices</p> <p>3 To know the concept of Event and Performance Management</p> <p>4. To understand the concept of time and stress management</p>
Co-operative Development	<p>Paper No - I</p> <p>1. To study the meaning and principles of Co-operation.</p> <p>2. To study the agricultural and Non-agricultural Credit Co-operative institutions.</p> <p>3. To study the Co-operative credit system</p> <p>4. To Study the important cooperative organizations</p> <p>Paper No – II</p> <p>1. To study the cooperative legislations and fund management</p> <p>2. To understand the institutional arrangement for cooperative education and training</p> <p>3. To understand the nature, registration, legislation and audit of housing cooperatives</p> <p>4. To understand the cooperative audit system and provisions</p>
Advanced Accountancy Paper I	<p>Paper No - I</p> <p>1. Practice the preparation of financial statements of banks.</p> <p>2. Demonstrate accounting for farms and hire purchase system.</p>

	<p>3. Simulate accounting situations of insurance claim. 4. Explain the accounting process on Tally with GST.</p> <p>Paper No - III</p> <p>1. Practice the preparation of financial statements of banks. 2. Demonstrate accounting for farms and hire purchase system. 3. Simulate accounting situations of insurance claim. 4. Explain the accounting process on Tally with GST.</p>
<p>Advanced Accountancy Paper II(Auditing and Taxation)</p>	<p>Paper No – II - Auditing</p> <p>1. To understand the concept and types of audit 2. To identify the residential status and its implication on tax liability 3. To understand the concept of exemption from income 4. To know the computation of income from various sources as well as total income</p> <p>Paper No – IV - Taxation</p> <p>1. To understand the basic concepts of income tax and basis of charge 2. To identify the residential status and its implication on tax liability 3. To understand the manner of computation of total income 4. To know the basic concepts about GST</p>

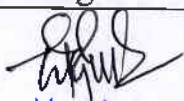


Head

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Department of Commerce
Course Outcomes PG 2021-22

Name of the Course	Course Outcomes
M.Com. I Management Concepts and Organizational Behaviour . Paper (I & II)	<ol style="list-style-type: none"> 1. It will acquaint the students with the basic management concepts and process. 2. It wills aware students about the modern trends in the management and impact of globalization. 3. It familiarize the students with the foundations of individual and group behavior and the concepts of organizational behavior 4. It will create awareness among students about the organizational culture and corporate social responsibility
M.Com. I Managerial Economics Paper (I & II)	<ol style="list-style-type: none"> 1. It will provide theoretical basket of information to cope the managerial problem. 2. It will help to solve managerial decision making.
M.Com. II Management Accounting Paper (I & II)	<ol style="list-style-type: none"> 1. It understand the application of accounting techniques for management 2. It will be acquaint with knowledge of management control system and techniques there under.
Business Finance Paper (I & II)	<ol style="list-style-type: none"> 1. It enhances the knowledge about the funds management and its utilization. 2. It will be helpful to know the credit rating agency and its functioning.
Advanced Banking and Financial System Paper (I,II,III,IV,V,VI,VII)	<ol style="list-style-type: none"> 1. It aware Recent Challenges in Bank Management and financial sector are to be studied by post graduate students. 2. It will know study and understand the nature of Bank Management 3. It aware about recent technologies required for efficient Banking and marketing. 4. It help to know the various Laws of Banking in India. 5. It study the practical Banking in India. 6. It also study about recent trends such as online banking RTGS, NEFT, Digital Payment.


Head