


Rayat Shikshan Sansha's  
**KARMAVEER BHAIKRAO PATIL MAHAVIDYALAYA, PANDHARPUR**  
(Autonomous)  
Department of BCA  
Programme Specific Outcomes (PSOs)

Programme Name	PSOs	Programme Specific Outcomes
BCA		<i>Student will be able to:</i>
	PSO 1	Analyze and apply latest technologies to solve problems in the areas of computer applications
	PSO 2	Develop and implement the desktop and web applications.
	PSO 3	Analyze, design, implement and evaluate computerized solutions to real life problems, using appropriate computing methods
	PSO 4	Apply techniques of software validation and reliability analysis to the development of computer programs.
	PSO 5	Create animation in web application
	PSO 6	Work in MNCs and banks under fancy job designations or pursue their desired course like Software Engineers.

  
**Head**  
**Dept. of B.C.A.**  
Karmaveer Bhaurao Patil Mahavidyalaya,  
Pandharpur (Autonomous)

Rayat Shikshan Sanstha's  
**KARMAVEER BHAI RAOPATIL MAHAVIDYALAYA, PANDHARPUR**  
 (Autonomous)  
 Department of BCA  
 2023-24

**Course Outcomes (COs)**  
 BCA-I


Paper Type	Paper/Course Name Course Code	COs	Semester-I
			<i>Student will be able to:</i>
Major - I	Programming and Problem Solving using 'C'-I BCA-5111-MJ	CO 1	Identify and define appropriate solutions to problems in the field of computer science and other related disciplinary areas.
		CO 2	Apply various computer programming language concepts and strategies to write and execute efficient and structured computer programs
		CO 3	Test and perform critical evaluation of the program outcome to validate the program logic.
Major - II	Programming and Problem Solving using 'C'-II BCA-5112-MJ	CO 1	Divide the programs into separate modules by writing user defined functions & implement it.
		CO 2	Implement various standard library and execute the dynamic memory management techniques using the concept of pointers
		CO 3	Evaluate the programs to test and validate the output
Minor	Digital Marketing BCA-5114-MN	CO 1	Understand the digital marketing principles and strategies.
		CO 2	How to reach your target customers using SEO.
		CO 3	Use of social media sites to manage and enhance an organization's message and online presence.
Open Elective	Introduction to computer BCA-5115-OE	CO 1	Apply various office tools and strategies to execute efficient and structured office work.
		CO 2	Explain about internet and email management
		CO 3	Select and use the appropriate software application to complete a particular task such as a word

			Processing skills.
Vocational Skill Course	Information Technology BCA-5117-VSC	CO 1	Understand basic concepts and terminology of information technology.
		CO 2	Understand various input and output devices.
		CO 3	Understand internet concepts.
Skill Enhancement Course	Web Designing BCA-5119-SEC	CO 1	Analyze a web page and identify its elements and attributes.
		CO 2	Create web pages using HTML and Cascading Style Sheets.
		CO 3	Build static web pages using HTML, CSS (Client side programming).
Indian Knowledge System	Computing Science in Ancient India BCA-51111-IKS	CO 1	Understand the need of algorithms/ sophisticated mathematics algorithms in ancient India
		CO 2	Study some algorithms in Chhanda shastra.
		CO 3	Introduce the Cryptography in Ancient India.
Ability Skill Course	English		

**Semester - II**

		<b>Semester - II</b>		
Major - I	OOPS with C++ - I BCA -5121-MJ	CO 1	Understand the features of C++ supporting object oriented programming	
		CO 2	Implement the object oriented concepts.	
		CO 3	How to produce object-oriented software using C++.	
Major - II	OOPS with C++ - II BCA -5122-MJ	CO 1	Use which Oops concept where in application.	
		CO 2	Understand advanced features of C++ specifically stream I/O, and operator overloading	
		CO 3	Apply the major object-oriented concepts to develop software in C++.	
Minor	Python Programming BCA -5124-MN	CO 1	Understand the concept of Python Virtual Machine, Python Data types, Command Line Argument, Operators & more.	
		CO 2	Explore Integrated Development Environment (IDE) of Python.	
		CO 3	Do programs using conditional control statements and also use the concept of Looping for doing programs.	
Open Elective	E-Commerce BCA -5126-OE	CO 1	Analyse the impact of E-commerce on business models and strategy.	
		CO 2	Illustrate the major types of E-commerce.	
		CO 3	Explain the process that should be followed in building an E-commerce presence.	

Vocational Skill Course	Advanced Excel BCA -5128-VSC	CO 1	Modify worksheets using advanced enhancements and worksheet features.
		CO 2	Calculate 3D referencing to merge data from multiple worksheets.
		CO 3	Construct templates after writing complex worksheets and workbooks
Skill Enhancement Course	Web Development BCA -51210-SEC	CO 1	Develop dynamic web pages using JavaScript (Client side programming).
		CO 2	Test Use appropriate client-side applications
		CO 3	Develop interactive web applications using JQuery.
Value Education Course	Introduction to Machine Learning BCA -51211-VEC	CO 1	Understand different types of machine learning.
		CO 2	Understand how to train data for Machine Learning.
		CO 3	Select features for Machine Learning.
Ability Skill Course	English		

  
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 Course Outcomes (COs)  
 BCA-II

Paper No.	Paper/Course Name Course Code	COs	Semester-III
			<i>Student will be able to:</i>
1	OOP with C++ 501311	CO 1	Understand the basic concepts in C++.
		CO 2	Understand how to define class and members, to create object, & implement constructor and destructor.
		CO 3	Understand how to implement object-oriented concepts using C++
2	Database Management System 501312	CO 1	Understand database concepts and structures and query language
		CO 2	Understand the E R model and relational model.
		CO 3	Control concurrency in database
		CO 4	Recover database
3	Data Structures using 'C' 501313	CO 1	Use stack in real life application or in computer.
		CO 2	Implement queue data structure in real life application or in computer.
		CO 3	Arrange the data in specific manner using LL
4	Advanced Operating System 501314	CO 1	Understand how the memory is allocated to OS and jobs & release it.
		CO 2	Describe file and directory structure in OS.
		CO 3	Prevent, avoid, detect deadlock and recover it.
5	Web Development	CO 1	Create PHP programs that use various PHP library functions and to create custom function.


	<b>using PHP 501315</b>	<b>CO 2</b>	Write PHP scripts to handle HTML forms.
		<b>CO 3</b>	Write regular expressions including modifiers, operators, and meta characters.
		<b>CO 4</b>	Analyze and solve common Web application tasks by writing PHP programs.
6	<b>Software Engineering 501316</b>	<b>CO 1</b>	Understand and apply the basic project management practices in real life projects
		<b>CO 2</b>	Analyze software requirements with existing tools
		<b>CO 3</b>	Design ERD and DFD for any system.
7	<b>Financial Accounting with Tally 501317</b>	<b>CO 1</b>	Understand the purpose of financial accounting.
		<b>CO 2</b>	Apply the concepts of accounting to make effective financial decisions.
		<b>CO 3</b>	Create employability to the students in the commercial tax practices
		<b>CO 4</b>	Work with well-known accounting software i.e. Tally ERP.9

**Semester-IV**

Paper No.	Paper/Course Name Course Code	COs	
			<i>Student will be able to:</i>
1	Python Programming-II 501421	CO 1	Express different Functions in python & different techniques to importing module and packages.
		CO 2	Understand and summarize different Exception handling.
		CO 3	Design GUI Applications in Python and evaluate different database operations.
		CO 1	Understand what different components of network are.
2	Computer Networks 501422	CO 2	Understand and describe the layered protocol model.
		CO 3	Understand about transmission media, mode and multiplexing.
		CO 4	Detect errors using different detection techniques and to understand different multiple access protocol.
		CO 1	Know basic install procedures for MySQL & identify basic SQL functions.
3	MySQL 501423	CO 2	Insert data, updation into table and data deletion, retrieval from table.
		CO 3	Create view, index and use of joins, subquery.
		CO 4	Create stored procedures, transaction and cursor.
		CO 1	Understand the digital marketing principles and strategies.
4	Digital Marketing 501424	CO 2	How to reach your target customers using SEO.
		CO 3	Use of social media sites to manage and enhance an organization's message and online presence.
		CO 4	Demonstrate their understanding of the various new medias such as; social media, mobile technology, web analytics, search engine optimization, viral advertising.
		CO 1	Use the directives and expressions in Angular JS application.
5	Angular JS 501425	CO 2	Create and retrieve module and to apply filters.



		CO 3	Design a GUI using Angular JS.
		CO 4	Develop the Single Page Application (SPA).
6	Ethics and Cyber law 501426	CO 1	Analyze the security attacks.
		CO 2	Locate and apply case law and common law to current legal dilemmas in the technology field.
		CO 3	Provide securities to information.
		CO 4	Distinguish enforceable contracts from non-enforceable contracts.
7	Advanced Excel 501427	CO 1	Format the data properly.
		CO 2	Enhance lists using pivot tables and pivot table charts
		CO 3	Import and export data from the Internet and merge the data in to Excel worksheets and publish Excel worksheets on the web.
		CO 4	Import and Export data to and from Excel and other Office applications

  
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 Course Outcomes (COs)  
 BCA-III

Paper No.	Paper/Course Name Course Code	COs	Semester-V
			<i>Student will be able to:</i>
1	Core Java KBP-S-BCA-3502	CO 1	Apply object oriented programming concepts.
		CO 2	Develop and utilize package and interfaces in a Java program.
		CO 3	Utilize graphical user interface in Java programs.
		CO 4	Create applets.
2	Visual Programming KBP-S-BCA-3503	CO 1	Construct knowledge of the structure and model of the programming language C #
		CO 2	Make use of the programming language C # for various programming technologies
		CO 3	Develop application in C #
		CO 4	Propose the use of certain technologies by implementing them in the C # programming language to solve the given problem (synthesis)
3	Recent Trends in IT KBP-S-BCA-3504	CO 1	Compare the big data and hadoop.
		CO 2	Explain the basic concepts of data science.
		CO 3	Model Cloud cube.
		CO 4	Make use of IOT.
4	Computer Graphics KBP-S-BCA-3505	CO 1	Explain the core concepts of computer graphics, including viewing, projection, perspective, modelling and transformation in two and three dimensions.
		CO 2	Apply the concepts of colour models, lighting and shading models, textures, ray tracing, hidden surface elimination, anti-aliasing, and rendering.
		CO 3	Explain the fundamentals of animation, parametric curves and surfaces, and spotlighting.

		<b>CO 4</b>	Identify a typical graphics pipeline and apply graphics programming techniques to design and create computer graphics.
5	<b>Linux and Shell Programming KBP-S-BCA-3506</b>	<b>CO 1</b>	Perceive the basic set of commands and utilities in Linux/UNIX systems.
		<b>CO 2</b>	Discover software for Linux/UNIX systems.
		<b>CO 3</b>	Determine the important Linux/UNIX library functions and system calls.
		<b>CO 4</b>	Discuss the inner workings of UNIX-like operating systems.

Paper No.	Paper/Course Name Course Code	COs	Semester-IV
			<i>Student will be able to:</i>
1	Advanced Java KBP-S-BCA-3602	CO 1	Create dynamic web pages, using Servlets and JSP.
		CO 2	Make a reusable software component, using Java Bean.
		CO 3	Develop Stateful, Stateless and Entity Beans
		CO 4	Design Java classes and object associations to relational database tables with Hibernate mapping files
2	Dot Net Technology KBP-S-BCA-3603	CO 1	Perceive the Microsoft .NET Framework and ASP.NET page structure
		CO 2	Design web application with variety of controls
		CO 3	Utilize Microsoft ADO.NET to access data in web Application
		CO 4	Develop secured web application
3	Data Warehouse & Data Mining KBP-S-BCA-3604	CO 1	Identify the key processes of data mining, data warehousing and knowledge discovery process.
		CO 2	Perceive the basic principles and algorithms used in practical data mining and their strengths and weaknesses.
		CO 3	Apply data mining techniques to solve problems in other disciplines in a mathematical way.
4	Cryptography & Network Security KBP-S-BCA-3605	CO 1	Apply various public key cryptography techniques
		CO 2	Apply Hashing and Digital Signature techniques
		CO 3	Perceive the various Security Applications
		CO 4	Apply system level security applications
5	Advanced Python KBP-S-BCA-3606	CO 1	Explain advanced principles of Python programming language
		CO 2	Elaborate object oriented concepts
		CO 3	Develop Web Application using Django
		CO 4	Compare NumPY and SciPY



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(According to NEP 2020)  
2023-24  
**PSOs C Os of B.Com. I (Regular)**

PSOs Programme Specific Outcomes

*Student will be able to:*

- PSOs 1 Students will be able to understand basic principles of business management understanding the thoughts of management thinkers and their contribution in development of management with various functions performed by the management to achieve an objectives of business enterprise.
- PSOs 2 Students are be able to understand basic principles of insurance and practices and skills of life insurance and general insurance with the role of LIC in GIC.
- PSOs 3 An Understanding the marketing principles and practices both for goods and services including recent era in marketing and significance and process of marketing research.
- PSOs 4 Students will be able to understand concept and recent trends in entrepreneurship and understanding of basic skills required in preparation of project report, skill required to become successful entrepreneurs.
- PSOs 5 Students will be able to understand Indian banking system, practices, functions and financial markets in India.
- PSOs 6 Ability to understand the entire accounting process of sole proprietor partnership firm cooperative societies banking company and company form of business organization with principles, rules, laws specially banking company act 1949 and company act 2013.
- PSOs 7 Students will be able to understand the basic principles of cost accounting particularly elements of cost and understanding the skill and techniques required for cost accounting process.
- PSOs 8 An understanding the different areas of management as a part of industrial management and skills in inventory management and to improve the productivity.
- PSOs 9 Students will be able to understand life insurance and general Insurance practices in India particularly types of policies and settlements of claims.

## Course Outcomes

### **1) Adv. Accounting Paper I (Fundamentals of Financial Accounting)**

CO1: Acquire the basic knowledge on accounting concepts, conventions and the basics of Accounting Standards

- CO2: find out the technical expertise in maintaining the books of accounts.  
CO3: Convert the Single-entry accounts into Double entry system of accounting.  
CO4: Learn the concepts and principles of accounting.  
CO5: Develop the skill in preparing and maintaining Day Book for a business concern.  
CO6: Prepare Trading Account, Profit and Loss Account and Balance Sheet for a Sole Trading Concern.

## **2) Adv. Accounting Paper II (Basics in Cost Accounting)**

- CO1 : Understand the conceptual background of Cost Accounting.  
CO 2: Differentiate between Financial accounting , Management accounting and Cost Accounting  
CO 3: Understand the various element of cost and its classification.  
CO 4: Familiar with Material procurement procedures like Bill of materials, material requisition note, Inviting Quotations, Selection of Quotations etc.  
CO 5: Statement of Cost showing cost per unit and total cost of production

## **3) Accountancy Paper III (Financial Accounting Practices)**

- CO 1: Understand provisions in Indian Partnership Act, 1932 relating to Partnership Deed, Admission of New Partner into Partnership firm.  
**CO 2:** Prepare necessary ledger accounts in the books of Partnership firms on the occasion of Admission of New partner.  
CO 3: Familiar with the term Purchase Consideration with its computation  
CO 4: Familiar with branch accounting, types of branches (Dependent, Independent and Foreign branch), Methods of Branch Accounting.  
CO 5: Prepare necessary Accounts of Dependent branch in the books of Head office.

## **4) Adv. Accounting Paper IV (Cost Accounting for Material Control)**

- CO 1: Understand the principles of purchasing and steps in scientific purchasing.  
CO 2: Understand pros & cons of Centralize purchase and Local purchase.  
CO 3: Learn the basic principles of material handling  
CO 4: Explain the concept of Bin card and Stores ledger with its content & utility in material control.

## **5) IKS- Ancient Indian Finance and Accounting**

- CO 1: Students will gain insight into the objectives and significance of ancient Indian finance and accounting systems, including the ethical foundations and their impact on trade and governance.

CO 2: Students will learn about the procedures of recording transactions, maintaining *Chopadis*, closing books of accounts, and the role of *Hundis* in ancient trade, along with their relevance to modern financial practices.

CO 3: Students will explore Kautilya's theories on financial management, classification of receipts, and preparation of financial statements, as well as his emphasis on building an ethical culture within financial systems.

## **6) VEC-1: Business Ethics Paper-I**

CO 1: Students will explore the advantages of business ethics for enterprises, consumers, and society, and understand the factors that influence ethical behavior in business.

Co 2 Students will analyze ethical considerations in key business areas such as marketing, production, human resources, and advertising, focusing on responsible and fair practices.

CO 3: Students will learn how ethical principles can guide decision-making and shape organizational culture, contributing to long-term success and sustainability in business.

## **7) Minor -1 - Introduction to General Insurance**

CO 1: Students will gain knowledge of the meaning, concept, and need for insurance, including its role as a tool for risk management.

**CO 2:** Students will explore the various types of insurance, their nature, and scope, and understand how insurance functions as a social security mechanism.

CO 3: Students will comprehend the socio-economic significance of insurance in promoting financial stability and protection for individuals and society.

CO 4: Students will learn about the nature and coverage of key general insurance schemes, including fire, marine, motor, and crop insurance.

## **8) VSC - 1 : Managerial Decision Skills**

CO 1: Students will understand the meaning, characteristics, and principles of decision making, as well as the importance of effective decision making in management.

CO 2: Students will learn the structured process of decision making, including various techniques and tools used in management to make informed and strategic decisions.

CO 3: Students will gain insights into different types of decisions in management and the importance of involving employees in the decision-making process to improve outcomes and engagement.

Co 4: Students will analyze common challenges faced during the decision-making process and explore ways to address these obstacles for improved managerial effectiveness.

### 9) SEC-1: Office Record and Filing Skills - Paper-I

Co 1: Students will learn about the importance and types of office manuals, along with the guidelines for preparing effective manuals and understanding common problems associated with them.

CO 2: Students will comprehend the essentials of conducting valid meetings, including the significance of meeting notices, agendas, and their proper preparation and presentation.

CO 3: Students will understand the importance of recording meeting minutes, the types of minutes, and the principles involved in accurately documenting and preserving meeting outcomes.



विभाग प्रमुख,  
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**Programme Outcome (POs):** *Student will be able to:*

PSOs 1. **Entrepreneurial Mindset Development:** Students will cultivate an entrepreneurial mindset, encouraging innovation, creativity, and the ability to identify and seize business opportunities.

PSOs 2. **Business Plan Creation:** Graduates will gain the skills to develop comprehensive business plans, including market analysis, financial projections, and operational strategies, essential for launching new ventures.

PSOs 3. **Understanding of Business Operations:** Students will develop an in-depth understanding of the various functional areas of business operations, such as finance, marketing, human resources, and production, and how they contribute to a successful enterprise.

PSOs 4. **Financial Management for Startups:** Students will acquire knowledge of financial planning, management, and accounting practices required to manage the finances of a startup or small business effectively.

PSOs 5. **Risk Management and Problem-Solving:** Graduates will be equipped with skills to assess risks, navigate uncertainty, and solve problems strategically, essential for managing the complexities of entrepreneurial ventures.

PSOs 6. **Legal and Regulatory Framework:** Students will understand the legal, regulatory, and ethical considerations involved in starting and managing a business, including intellectual property rights, business registration, and compliance.

PSOs 7. **Marketing and Sales Strategies:** Students will learn how to create effective marketing and sales strategies to attract and retain customers, leveraging digital tools and platforms to promote new ventures.

PSOs 8. **Leadership and Team Building:** Graduates will develop leadership skills to inspire and manage teams, fostering a collaborative and innovative working environment necessary for entrepreneurial success.

PSOs 9. **Resource Mobilization and Networking:** Students will learn how to mobilize resources, including funding, human capital, and partnerships, as well as build and leverage networks to support business growth.

PSOs 10. **Adaptability and Innovation:** Graduates will be able to adapt to dynamic market conditions, embrace technological advancements, and continuously innovate to stay competitive and sustain long-term business growth.

## **Course outcome of B.Com. in Entrepreneurial Skills**

### **1) Accounting for Entrepreneurs Paper –I**

CO1. Students will understand the fundamental concepts of accounting, including its meaning, definitions, need, objectives, and the key stakeholders involved in the accounting process.

CO 2. Graduates will demonstrate knowledge of various branches of accounting and the principles of accounting, including concepts and conventions, as well as relevant accounting standards (AS1, AS2, AS6, AS9, AS10, AS26).

CO 3. Students will be equipped to identify different types of accounts, apply the golden rules of accounting for journalizing transactions, and maintain accurate books of accounts, including subsidiary books.

CO 4. Students will grasp the concept of depreciation, its causes, and the various methods of calculating depreciation, including the straight-line method and written-down value method, as well as the effects of changing depreciation methods.

CO 5. Graduates will acquire practical skills in preparing financial statements, including trading and profit & loss accounts and balance sheets for sole proprietorships and partnership firms, enabling them to effectively report financial performance.

### **2) Business Communication Skills**

CO 1. Students will develop the ability to communicate clearly and confidently in various business settings, including meetings, presentations, and discussions, enhancing their verbal communication skills.

CO 2. Graduates will demonstrate proficiency in crafting professional documents such as emails, reports, proposals, and business letters, ensuring clarity, conciseness, and appropriateness for the audience.

CO 3. Students will learn the importance of active listening and constructive feedback, enabling them to engage effectively with colleagues and clients and fostering better interpersonal relationships.

CO 4. Students will recognize the significance of non-verbal cues in communication, such as body language and facial expressions, and learn how to use them to enhance their overall communication effectiveness.

CO 5. Graduates will develop the skills to navigate cross-cultural communication challenges, understanding cultural differences and adapting their communication style to effectively interact with diverse audiences in a global business environment.

### **3) Introduction to Entrepreneurship**

CO 1. Students will gain a comprehensive understanding of the concept of entrepreneurship, including its definitions, characteristics, and the role of entrepreneurs in the economy.

CO 2. Graduates will develop the skills to identify and evaluate business opportunities through market research and analysis, enabling them to recognize viable ideas for new ventures.

CO 3. Students will learn the essential components of a business plan, including market analysis, financial projections, and operational strategies, and will be able to create a solid business plan for their own entrepreneurial endeavours.

CO 4. Students will explore the stages of the entrepreneurial process, from idea generation to startup and growth, gaining insights into the challenges and strategies associated with each phase.

CO 5. Graduates will understand the importance of the entrepreneurial ecosystem, including the roles of incubators, accelerators, and networking opportunities, and will learn how to leverage these resources to support their entrepreneurial ventures.

### **4) Marketing Fundamentals**

CO 1. Students will develop a foundational understanding of marketing concepts, definitions, and the importance of marketing in business, including the role of marketing in creating value for customers and organizations.

CO 2. Graduates will learn how to conduct market research, analyse consumer behavior, and identify target markets, enabling them to make informed marketing decisions based on data and insights.

CO 3. Students will gain knowledge of the components of the marketing mix (4 Ps: Product, Price, Place, Promotion) and learn how to effectively develop and implement marketing strategies that align with business objectives.

CO 4. Students will acquire skills in developing effective marketing communication strategies, including advertising, public relations, and social media marketing, to engage and influence target audiences.

CO 5. Graduates will analyse the factors influencing consumer behavior and learn how to apply this knowledge to create customer-centric marketing strategies that enhance customer satisfaction and loyalty.

### **1) IKS- Ancient Indian Finance and Accounting**

CO 1: Students will gain insight into the objectives and significance of ancient Indian finance and accounting systems, including the ethical foundations and their impact on trade and governance.

CO 2: Students will learn about the procedures of recording transactions, maintaining *Chopadis*, closing books of accounts, and the role of *Hundis* in ancient trade, along with their relevance to modern financial practices.

CO 3: Students will explore Kautilya's theories on financial management, classification of receipts, and preparation of financial statements, as well as his emphasis on building an ethical culture within financial systems.

## **2) VEC-1: Business Ethics Paper-I**

CO 1: Students will explore the advantages of business ethics for enterprises, consumers, and society, and understand the factors that influence ethical behavior in business.

Co 2 Students will analyze ethical considerations in key business areas such as marketing, production, human resources, and advertising, focusing on responsible and fair practices.

CO 3: Students will learn how ethical principles can guide decision-making and shape organizational culture, contributing to long-term success and sustainability in business.

## **3) Minor -1 - Introduction to General Insurance**

CO 1: Students will gain knowledge of the meaning, concept, and need for insurance, including its role as a tool for risk management.

**CO 2:** Students will explore the various types of insurance, their nature, and scope, and understand how insurance functions as a social security mechanism.

CO 3: Students will comprehend the socio-economic significance of insurance in promoting financial stability and protection for individuals and society.

CO 4: Students will learn about the nature and coverage of key general insurance schemes, including fire, marine, motor, and crop insurance.

## **4) VSC - 1 : Managerial Decision Skills**

CO 1: Students will understand the meaning, characteristics, and principles of decision making, as well as the importance of effective decision making in management.

CO 2: Students will learn the structured process of decision making, including various techniques and tools used in management to make informed and strategic decisions.

CO 3: Students will gain insights into different types of decisions in management and the importance of involving employees in the decision-making process to improve outcomes and engagement.

Co 4: Students will analyze common challenges faced during the decision-making process and explore ways to address these obstacles for improved managerial effectiveness.

## **5) SEC-1: Office Record and Filing Skills - Paper-I**

Co 1: Students will learn about the importance and types of office manuals, along with the guidelines for preparing effective manuals and understanding common problems associated with them.

CO 2: Students will comprehend the essentials of conducting valid meetings, including the significance of meeting notices, agendas, and their proper preparation and presentation.

CO 3: Students will understand the importance of recording meeting minutes, the types of minutes, and the principles involved in accurately documenting and preserving meeting outcomes.



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**M.Com I Adv. Costing**

**Program Outcomes for Advanced Cost Accounting**

PSOs 1. Students will develop a comprehensive understanding of advanced cost concepts, including fixed, variable, and mixed costs, enabling them to analyse and interpret cost behavior in various business contexts.

PSOs 2. Graduates will learn various costing methods such as job order costing, process costing, and activity-based costing, equipping them with the skills to select and apply the appropriate method for different types of production processes.

PSOs 3. Students will gain knowledge of cost control measures and cost reduction techniques, enabling them to identify inefficiencies and implement strategies to minimize costs without sacrificing quality.

PSOs 4. Graduates will be able to prepare and analyze budgets, perform variance analysis, and evaluate performance against budgeted standards, helping organizations manage their financial resources effectively.

PSOs 5. Students will learn to utilize cost accounting information to support managerial decision-making, including pricing decisions, product mix optimization, and make-or-buy analyses.

PSOs 6. Graduates will develop skills in performing cost-volume-profit (CVP) analysis to understand the relationship between costs, sales volume, and profits, aiding in strategic planning and decision-making.

PSOs 7. Students will understand the principles of standard costing and how to use standard costs for performance evaluation, facilitating effective management and control of operations.

PSOs 8. Graduates will learn how to integrate cost accounting information into financial statements, enhancing their ability to provide a complete picture of organizational performance.

PSOs 9. Students will become familiar with modern software tools and technologies used in cost accounting, improving their efficiency and effectiveness in cost analysis and reporting.

**Course Outcomes**

Course Outcomes for Advanced Cost Accounting

CO 1. Students will gain a thorough understanding of advanced cost accounting principles, enabling them to analyze and apply various cost accounting techniques effectively.

CO 2. Graduates will demonstrate proficiency in advanced costing techniques, such as activity-based costing, standard costing, and variance analysis, allowing for accurate cost measurement and control.

CO 3. Students will learn to prepare detailed budgets and financial forecasts, utilizing cost accounting data to support strategic planning and resource allocation within organizations.

CO 4. Students will develop the ability to use cost accounting information to support managerial decision-making, including pricing strategies, product profitability analysis, and cost-volume-profit analysis.

CO 5. Graduates will be equipped to implement effective cost control measures and identify opportunities for cost reduction, contributing to enhanced organizational efficiency and profitability.

CO 6. Students will understand how to integrate cost accounting practices with broader financial management objectives, facilitating informed decision-making and performance evaluation.

CO 7. Graduates will learn to evaluate key performance metrics through cost accounting analysis, enabling them to assess operational efficiency and effectiveness in meeting organizational goals.

### **Course Outcomes for Research Methodology**

CO 1. Students will develop a comprehensive understanding of various research methodologies, including qualitative and quantitative approaches, enabling them to choose appropriate methods for their research objectives.

CO 2. Graduates will acquire practical skills in designing data collection instruments (such as surveys and interviews), as well as analyzing data using statistical techniques and qualitative analysis methods, ensuring the reliability and validity of their research findings.

CO 3. Students will understand the ethical implications of conducting research, including informed consent, confidentiality, and the responsible handling of data, ensuring adherence to ethical standards throughout the research process.

### **Course Outcomes for Functional Areas Management**

CO 1. Students will gain a thorough understanding of the main functional areas of management, including marketing, finance, operations, and human resources, and how these areas interact to achieve organizational goals.

CO 2. Graduates will develop skills in strategic planning and implementation across various functional areas, enabling them to align departmental objectives with the overall business strategy.

CO 3. Students will learn to make informed decisions using data-driven analysis and critical thinking skills, considering the implications of their decisions across different functional areas.

CO 4. Graduates will enhance their collaboration and leadership skills, enabling them to work effectively in cross-functional teams and lead initiatives that require input from multiple areas of the organization.



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(Autonomous)  
 Department of Botany  
 B.Sc-I : 2023-2024  
 Course Outcomes (COs)

Paper No.	Paper/Course Name Course Code	Cos	Semester-I
I	Biodiversity of Microbes, Algae , Fungi, Lichens. KBP-S-BOT-3101	CO 1	<i>Student will be able to:</i>
		CO 2	To find out features, concept and uses of Microbes.
		CO 3	Explain features, concept and uses of Algae.
		CO 4	To demonstrate features, concept and uses of Fungi.
II	Biodiversity of Archegoniate KBP-S-BOT-3102	CO 3	To find out features, concept and uses of Lichens
		CO 1	To find out features, concept and uses of Lichens
		CO 2	To compare general characters and reproduction of Bryophytes.
III	Plant Ecology KBP-S-BOT-31201	CO 2	To interpret general characters and reproduction of Pteridophytes.
		CO 3	To illustrate general characters and reproduction of Gymnosperms.
		CO 1	To Analyze ecological adaptation.
		CO 2	Students will interpret the ecosystem, its structure and function.
IV	Taxonomy of Angiosperms KBP-S-BOT-31202	CO 3	To understand the functions of ecological succession.
		CO 4	To Explain Phylogeographical regions from India.
		CO 1	To Find out importance of Plant taxonomy.
		CO 2	To classify Angiospermic plants families.
		CO 3	To Show the morphological and reproductive characters of Angiospermic families
		CO 4	To Identify Angiospermic plants families.

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Department of Botany  
Programme Specific Outcomes (PSOs)  
2023-24

Programme Name	PSOs	Programme Specific Outcomes
<b>B.Sc. in BOTANY</b>		<i>Student will be able to:</i>
	<b>PSOs 1</b>	Estimate plant diversity.
	<b>PSOs 2</b>	Access the morphological and anatomical features of plants.
	<b>PSOs 3</b>	Analyze biochemical, molecular, genetically studies in plants.
	<b>PSOs 4</b>	Make use of medicinal plants in day today life.
	<b>PSOs 5</b>	Evaluate the characters of plants for identification.

  
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(Autonomous)

Department of Botany

M.Sc.-I : 2023-2024

Course Outcomes (COs)

Paper No.	Paper/Course Name /Course Code	COs	Semester-I
I	Biology and diversity of, Algae , Fungi, Bacteria Viruses and Lichens. M1		<i>Student will be able to:</i>
		CO 1	To find out features, concept and uses of Algae, fungi and Bacteria
		CO 2	Explain features, concept and uses of Algae, Fungi and Bacteria
		CO 3	To demonstrate features, concept and uses of Algae & Fungi.
		CO 4	To find out features, concept and uses of Viruses and Lichens
II	Biology and diversity of Bryophytes, Peridophytes and Gymnosperms. M2	CO 1	Compare general characters and reproduction of Bryophytes.
		CO 2	Interprets general characters and reproduction of

			Peridophytes.
		CO 3	To illustrate general characters and reproduction of Gymnosperms.
III	Biotechnology - Plant Biotechnology ME1	CO 1	To describe the techniques in plant tissue culture.
		CO 2	To Explore the procedure in micro propagation.
		CO 3	To know the various techniques in biotechnology.
IV	Research Methodology. RM	CO 1	To describe the research design.
		CO 2	To explain the rationale for the chosen methodology.
		CO 3	To discuss ethical considerations.
Paper No.	Paper/Course Name /Course Code	COs	Semester-II
			<i>Student will be able to:</i>
V	Advanced Plant physiology and plant biochemistry. M3	CO 1	To describe the organelles involve in photosynthesis and respiration.
		CO 2	To explain various pathways of plant physiology.
		CO 3	To discuss roles of various metabolism in plants.
		CO 4	To know types of metabolites formed in plants.

VI	Taxonomy of Angiosperms M4	CO 1	To Find out importance of Plant taxonomy.
		CO 2	To classify Angiospermic plants families.
		CO 3	Show the morphological and reproductive characters of Angiospermic families
		CO 4	To Identify Angiospermic plants families.
VII	Biotechnology-plant tissue culture, green house technology and hydroponics ME 4	CO 1	To describe the techniques in plant tissue culture.
		CO 2	To Explore the procedure of organ culture.
		CO 3	To know the various techniques in Greenhouse and hydroponics

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Department of Botany

Programme Specific Outcomes (PSOs) PG

2023-24

Programme Name	PSOs	Programme Specific Outcomes
M.Sc. in BOTANY		Student will be able to:
	PSOs 1	Estimate plant diversity.
	PSOs 2	Access the morphological and anatomical features of plants.
	PSOs 3	Analyze biochemical, molecular, genetically studies in plants.
	PSOs 4	Learn techniques such as Plant tissue culture and hydroponics.
PSOs 5	Evaluate the characters of plants for identification.	

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 Department of Chemistry  
**Programme Specific Outcomes (PSOs)**

Programme Name	PSOs	Programme Specific Outcomes
B.Sc. Chemistry		<i>On Successful completion of the programme student will be able to:</i>
	<b>PSOs 1</b> Disciplinary Knowledge	Acquire comprehensive knowledge of the science which in turn execute strong theoretical and practical understanding of programme in science.
	<b>PSOs 2</b> Critical Thinking and Problem solving	Develop the critical thinking and problem-solving skills by observing the situation closely and design the solutions.
	<b>PSOs 3</b> Social competence	Adapt the understanding and behavioral skills needed for group work culture.
	<b>PSOs 4</b> Research-related skills and Scientific temper	Develop a strong understanding of instrumentation and laboratory techniques enables researchers to design and conduct independent experiments, interpret results, and foster curiosity towards scientific inquiry and research.
	<b>PSOs 5</b> Trans-disciplinary knowledge:	Integrate disciplines enhances cognitive abilities, transcending discipline-specific approaches to address shared problems with a holistic and innovative perspective
	<b>PSOs 6</b> Personal and professional competence	Perform independently and collaboratively, executing interpersonal skills, self-motivation, adaptability, and professional ethics to achieve interdisciplinary objectives within a team.
	<b>PSOs 7</b> Effective Citizenship and Ethics	Demonstrate adopted social concern and promoting equity in national development, while acting with informed awareness of moral and ethical issues and upholding professional ethics and responsibility.
<b>PSOs 8</b> Environment and Sustainability	Recognize the societal and environmental implications of scientific solutions and comprehending the importance of sustainable development in addressing these challenges.	



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 Department of Chemistry  
 B. Sc. - I  
 Course Outcomes (COs)

Paper No.	Paper/Course Name Course Code	COs	Semester-I
<b>I</b>	<b>Physical Chemistry</b>		<i>On completion of the course, the students will be able to:</i>
		<b>CO 1</b>	Understand the rate of reaction and rate laws, mechanism and path of chemical reactions.
		<b>CO 2</b>	Calculate the order of reactions.
		<b>CO 3</b>	Explain and elaborate the laws of logarithm, graphical representation, derivative and integration in chemical calculations.
		<b>CO 4</b>	Interpret various concept in thermodynamics and entropy changes.
<b>II</b>	<b>Inorganic Chemistry</b>	<b>CO 1</b>	Discuss atomic model and atomic spectrum.
		<b>CO 2</b>	Explain the concept of wave-particle duality and wave equation, quantum numbers and rules of orbital electron distribution.
		<b>CO 3</b>	Understand structure of atom, various atomic properties like ionization potential, atomic size, electron affinity, electro-negativity etc. in the groups and across the periods.
		<b>CO 4</b>	Interpret structures of ionic solids in terms of radius ratio, coordination number, stoichiometry and unit cell.



Paper No.	Paper/Course Name Course Code	Semester-II	COs
III	Organic Chemistry		CO 1
			CO 2
			CO 3
			CO 4
			CO 5
IV	Analytical Chemistry		CO 1
			CO 2
			CO 3
			CO 4
			CO 5

**Title of the Course: DSC-I A: PHYSICAL CHEMISTRY**  
**Credits-2 (Theory 30)**

**Course Outcomes:**

- 1) Understand the rate of reaction and rate laws, mechanism and path of chemical reactions.
- 2) Calculate the order of reactions.
- 3) Explain and elaborate the laws of logarithm, graphical representation, derivative and integration in chemical calculations.
- 4) Interpret various concept in thermodynamics and entropy changes.

**Title of the Course: DSC-I B: INORGANIC CHEMISTRY**  
**Credits-2 (Theory 30)**

**Course Outcomes:**

- 1) Discuss atomic model and atomic spectrum.
- 2) Explain the concept of wave-particle duality and wave equation, quantum numbers and rules of orbital electron distribution.
- 3) Understand structure of atom, various atomic properties like ionization potential, atomic size, electron affinity, electro-negativity etc. in the groups and across the periods.
- 4) Interpret structures of ionic solids in terms of radius ratio, coordination number, stoichiometry and unit cell.

**Course Title: : PHYSICAL And INORGANIC CHEMISTRY**  
**Course Credits: 2, Total Contact Hours: 60**

**Course Outcomes:**

1. Inculcate the significance of physical properties of organic liquids.
2. Determine the order of given reaction by kinetics.
3. calibrate Instruments and glass wears in laboratory.
4. Analyze mixture of salts quantitatively.
5. Standardize and determine the concentration of solutions.
6. Measure the pH of solution and evaluate dissociation constant.
7. Analyze basic radicals qualitatively.

**Course Title: MN-1: Basic Principles in Chemistry**  
**Course Credits: 2, Total Contact Hours: 30**

**Course Outcomes:**

- 1) Apply mole concept to measure the concentrations of solutions and solve the problems based on acid base titration.
- 2) Define fundamental terms in analytical chemistry.
- 3) Explain the mechanisms of organic reactions and classify the organic compounds based on their nomenclature and their basic properties.
- 4) Recall basic concepts of states of matter and electronic effects operating in organic molecules.

**Course Title: OE-1: Chemistry in daily Life**

**Course Credits: 2, Total Contact Hours: 30**

**Course Outcomes:**

1. Use household chemicals by following safety measure.
2. Recall the Sources, role and deficiency symptoms of Vitamins.
3. Describe the significance of Hormones and consequences of their imbalance in body.

**Title of the Course: VSC2: Mastering the Calibration of Glassware and Instruments**

**Credits-2 (Theory 15 and Practical 30 Hrs)**

**Course Outcomes:**

1. Understand the importance of calibration in scientific measurements.
2. Learn the principles and techniques of glassware calibration.
3. Gain knowledge of the calibration process for different types of laboratory instruments.
4. Develop practical skills in calibrating glassware and instruments.
5. Apply quality control measures in laboratory settings.

**Skill Enhancement Course (SEC)**

**Course Title : : Food Packaging**

**Course Credits: 1, Total Contact Hours: 30**

**Course Outcomes:**

1. Define fundamental terms in Food Packaging.
2. Apply different method to food Packaging.
3. Understand practical knowledge for food Packaging.
4. Understand traditional Indian food packaging materials and their applications

**Skill Enhancement Course (SEC)**

**Course Title : : Food Packaging**

**Course Credits: 1, Total Contact Hours: 15**

**Course Outcomes:**

1. Define fundamental terms in Food Packaging.
2. Apply different method to food Packaging.
3. List different food samples and identify the correct method for labeling.
4. Understand traditional Indian food packaging materials and their applications

**Indian Knowledge System (IKS)**

**Course Title :: The Science and Artistry of Synthetic Dyes**

**Course Credits: 1, Total Contact Hours: 15**

**Course Outcomes:**

1. Describe ancient history of dyes.
2. Classify different dyes.
3. Distinguish different azo dyes.
4. Inculcate mechanism of azo dye.

**Semester II**

**Course Title: DSC-II A: Organic Chemistry**

**Course Credits: 2, Total Contact Hours: 30**

**Course Outcomes:**

- 1) Explain the mechanisms of organic reactions and classify the organic compounds based on their nomenclature and their basic properties.
- 2) Identify the types of hybridization, bonding, types of bond breaking and describe reaction intermediates.
- 3) Explain the modern theory of aromaticity with MO picture, resonance structure and representation of benzene.

- 4) Differentiate compounds on the basis of aromaticity by applying Huckel's rule.

#### Semester II

**Course Title: DSC-II B : Analytical Chemistry**

**Course Credits: 2, Total Contact Hours: 30**

**Course Outcomes:**

- 1) Define fundamental terms in analytical chemistry.
- 2) Describe qualitative and quantitative analysis of elements like C, H, N, S, X.
- 3) Recall calibration and sampling methods for quantitative analysis.
- 4) Apply analytical methods for sampling, titrations, separations and interpret the results for chemical analysis.
- 5) Prepare solutions of different concentrations for different estimations.

**Course Title : Organic And Analytical Chemistry**

**Course Credits: 2, Total Contact Hours: 60**

**Course Outcomes:**

1. Purify organic compounds by recrystallization method.
2. Identify the given unknown organic compound.
3. Calibrate Instruments and glass wears in laboratory.
4. Estimate the given organic sample quantitatively.
5. Prepare desired compound from given starting compound.

**Course Title: MN-2:**

**Course Credits: 2, Total Contact Hours: 30**

**Course Outcomes:**

- 1) Discuss atomic model and atomic spectrum.
- 2) Explain the concept of wave-particle duality and wave equation, quantum numbers and rules of orbital electron distribution.
- 3) Explain and elaborate the laws of logarithm, graphical representation, derivative and integration in chemical calculations.
- 4) Interpret various concept in thermodynamics and entropy changes.

**Course Title: Molecules of Life**

Credit Hours: 2 ( Lecture 30)

**Course Objectives:**

1. Understand the chemical structure, properties, and functions of key biomolecules in living systems.
2. Explore the relationship between molecular structure and biological function.
3. Analyze the role of biomolecules in cellular processes, including metabolism, signaling, and gene expression.
4. Gain practical laboratory skills in techniques related to the isolation, analysis, and manipulation of biomolecules.
5. Develop critical thinking and problem-solving abilities through scientific inquiry and data analysis.

**Skill Enhancement Course (SEC) in Synthesis of House hold materials**

**B. Sc. - I**

**Course Outcomes:**

1. Define fundamental terms in Food Packaging.
2. Apply different method to food Packaging.
3. List different food samples and identify the correct method for labeling.
4. Understand traditional Indian food packaging materials and their applications

**Chairman**  
**B.O.S. in Chemistry**  
**Kamaveer Bhaurao Patil Mahavidyalaya,**  
**Pandharpur (Autonomous)**

Rayat Shikshan Sanstha's  
**Karmaveer Bhaurao Patil Mahavidyalaya,**  
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**(Autonomous)**  
Affiliated to Punyashlok Ahilyadevi Holkar  
Solapur University, Solapur  
Department of Economics 2023-24

**COs**

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# **Semester -I**

## **B.A. Part -I**

**Major Subject: Paper I –Agriculture in India**

**(NEP Pattern)**

1. Identify the Role of Agriculture in Economic development
2. Aware regarding the challenges before Indian Agriculture
3. Minimize the problems of Agriculture.
4. Choose proper technology in Agriculture.

## **B.A. Part I**

**Major Subject: Paper II – Indian Planning**

**(NEP Pattern)**

1. Discuss on various aspects of Indian Planning.
2. Examine the Indian planning.
3. Discuss on various Development Models in India.

## **B.A. Part I**

**Minor Subject: Economy of Maharashtra**

**(NEP Pattern)**

1. Explain the Features of Maharashtra
2. Analyze present Sectoral structure of Maharashtra.

## **B.A. Part I**

**Open elective (OE)- Scientific Method**

**(NEP Pattern)**

- Students become aware about natural and positive science
- Students Understand the nature cycle
- Students Understand the Ecological Balance
- Students become aware of the STD diseases such as AIDS



**B.Com. Part -I & E.S I**

**Open Elective (OE) Subject: Micro Economics**

**(NEP Pattern)**

**Course Outcomes:**

*At the end of this course, student can...*

- 1) Apply the knowledge of market economy and price mechanism, demand elasticity, indifference curve analysis and demand forecasting analysis in price fixing.*
- 2) Versed in the concepts, tools and principles in the field of business economics.*
- 3) Apply the knowledge of breakeven point analysis in their business.*

**B.A. Part I**

**Vocational Skill Course (VSC)**

**Animal Husbandry**

**(NEP Pattern)**

1. Discuss on the role of Animal Husbandry in rural development.
2. Choose proper Government scheme for Animal Husbandry.

**B.A. Part I**

**Value Education Course (VEC)**

**Social Values of M.K. Gandhiji**

**(NEP Pattern)**

1. Apply the Social Values of M.K. Gandhiji in his life
2. Define the Social Values of M.K. Gandhiji in society.

**B.A. Part I**

**Indian Knowledge System (IKS)**

**Ancient Agriculture in India**

**(NEP Pattern)**

1. Compare the Progress of ancient agriculture and Modern agriculture
2. Choose proper system of agriculture

## Semester -II

### **B.A. Part I**

#### **Major Subject : Paper III –Industrial Sector in India (NEP Pattern)**

1. Identify the role of Industrial sector in Indian Economy.
2. Discuss on Large Scale industries in India
3. Compare Various Industrial Policies in India.
4. Discuss on the situation of agro based industries.

### **B.A. Part I**

#### **Major Subject : Paper IV – Service Sector in India (NEP Pattern)**

1. Discuss on the role of service sector in India.
2. Discuss on the progress of various service sectors in India.

### **B.A. Part I**

#### **Minor Subject : Rural Resources and Conservation (NEP Pattern)**

1. Discuss on the importance of Conservation of Rural resources
2. Utilize proper methods for Conservation of Rural resources

### **B.A. Part I**

#### **Open elective (OE) Scientific Method (S.M) (NEP Pattern)**

- Students become aware about natural and positive science
- Students Understand the nature cycle
- Students Understand the Ecological Balance
- Students become aware of the STD diseases such as AIDS

**B.Com. Part -I & E.S I**

**Open Elective (OE) Subject: Micro Economics**

**(NEP Pattern)**

- 1) Apply the knowledge of market economy and price mechanism, production cost analysis, market structure, distribution and breakeven analysis in price fixing, market competitors, profit level etc.
- 2) Apply marginal analysis to the firm under different market condition.
- 3) Compare and evaluate the cause and consequences of different market structures.
- 4) Analyze the meaning of various cost and their relevance for firm profitability.

**B.A. Part I**

**Vocational Skill Course (VSC ):**

**Dairy Industry**

**(NEP Pattern)**

1. Discuss on the Scope of Dairy Industry.
2. Explain the Benefits of Dairy Industry.
3. Build successful Dairy Industry.

**B.A. Part I**

**Skill Enhancement Course (SEC )**

**Recent Technique (Israel) in orchards**

**(NEP Pattern)**

1. Discuss on Natural condition of Israel.
2. Adopt Fundamentals of Israel technique in orchards.
3. Examine the Israel technique in orchard

**B.A. Part I**

**Value Education Course (VEC)**

**Economic Values of M.K. Gandhiji**

**(NEP Pattern)**

1. Apply the Economic Values of M.K. Gandhiji in his life
2. Define the Economic Values of M.K. Gandhiji in society.

# **M.A. Part I**

## **Semester -I and II**

### **Major Subject: Paper I –Micro Economic Analysis-Part I (NEP Pattern)**

- Develop the ability to explain core economic terms, concepts, and theories
- Be able to use critical thinking skills within the discipline of economics about economic matters.
- Recognize the role of ethical values in economic decisions.
- Apply economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy.

### **M.A. Part I**

### **Major Subject: Paper II – Economics of Growth & Development -Part I (NEP Pattern)**

- Aware about the Real GNI per capita – helps to lift people out of extreme poverty and improve development outcomes.
- Employment effects – sustained growth stimulates jobs and contributes to lower unemployment rates which helps to reduce income inequality.
- Rising growth stimulates new investment. Better growth may attract foreign direct investment in various projects.

### **M.A. Part I**

### **Major Subject: Paper III – Economics of Environment -Part I (NEP Pattern)**

- Understand the importance and problems of environment economics.
- Understand the role of people, government and NGO's in environmental protection.
- Analyze the methods of valuing environment.
- Aware about environmental degradation and pollution.
- Get the knowledge of methods of environment protection and policies.

### **M.A. Part I**

### **R.M. : Research Methodology in Economics -Sem.-I**

1. Gain the basic knowledge of research methodology.
2. Understand various sources of data collection.
3. Accept research aptitude in their work.

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Department of Economics -2023-24

**POs**

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**KARMAVEER BHAURAO PATIL MAHAVIDYALAYA, PANDHARPUR**  
**(Autonomous)**  
**Department of Economics-2023-24**

**Programme Specific Outcomes (PSOs)**

Programme Name	PSOs	Programme Specific Outcomes
<b>B. A. Economics</b>		<i>Student will be able to</i>
	<b>PSOs1</b>	Evaluate the Changing Role of Agriculture, Industry and Services
	<b>PSOs 2</b>	Adapt Income and Expenditure Ideas of Economics in Decision Making of Business
	<b>PSOs 3</b>	Apply the Knowledge of Modern Technology in Agriculture Sector
	<b>PSOs 4</b>	Develop Economic Condition through the Establishment of Co-operative Societies
	<b>PSOs 5</b>	Apply the Knowledge of Recent Technology of Banking Operation

Rayat Shikshan Sanstha's  
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**(Autonomous)**  
**Department of Economics-2023-24**

**Programme Specific Outcomes (PSOs)**

Programme Name	PSOs	Programme Specific Outcomes
<b>M. A. Economics</b>		<i>Student will be able to</i>
	<b>PSOs1</b>	Choose Proper Investment Alternatives from Money Market and Capital Market
	<b>PSOs 2</b>	Plan in the Respective Field
	<b>PSOs 3</b>	Build Co-operative Societies in any Field for Economic Progress
	<b>PSOs 4</b>	Develop the Knowledge about Theories of Economic Growth and Development issues of Business Planning
	<b>PSOs 5</b>	Identify the Problems of Labours Specially Child and Women Labours

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**Head**  
**Dept. of Economics**  
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 Pandharpur (Autonomous)

Rayat Shikshan Sanstha's  
**KARMAVEER BHAURAO PATIL MAHAVIDYALAYA, PANDHARPUR**  
 (Autonomous)  
 Department of B. Sc(Entire Computer Science)

**Course Outcomes (COs)**


Paper No.	Paper/Course Name Course Code	COs	COs	Semester-I
			<i>Student will be able to:</i>	
KBP-ECS- MJ-1108	Computer Organization & Design	CO 1	1. Understand the meaning and basic components of a computer system. 2. To learn generation, classification and application of computers. 3. Knowledge of computer equipment, including both hardware and software	
		CO 2	4. To learn input devices and output devices in detail. 5. To learn memory and its types in detail. 6. Understand model, components of computer and how it works.	
		CO 3	7. Understand the concept of input and output devices of Computers in detail. 8. Understand RAM, ROM and their types in detail. 9. Understand the concepts, structure, types and design of operating Systems	
KBP-ECS- MJ-1113	Basics of Operating System			<b>Semester-II</b>
		CO 1	1. To learn the fundamentals of Operating Systems. 2. To learn the mechanisms of OS to handle processes and threads and their communication. 3. To learn the mechanisms involved in memory management in contemporary OS.	
		CO 2	4. To gain knowledge on distributed operating system concepts that includes architecture, Mutual exclusion algorithms, deadlock detection algorithms and agreement protocols. 5. Analyze the structure of OS and basic architectural components involved in OS design. 6. Analyze and design the applications to run in parallel either using process or thread models of different OS.	
		CO 3	7. Analyze the various device and resource management techniques for timesharing and distributed systems. . Understand the Mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system.	

**WVKA**

		<b>Semester-II</b>	
<b>KBP-ECS- MJ-1116</b>	<b>OE: Web Designing Using HTML</b>	<b>CO 1</b>	<ol style="list-style-type: none"> <li>1. Give the distinguishing characteristic of scripting language.</li> <li>2. Discuss the reasons for and effects of nonstandard client-side scripting language characteristics, such as limited data types, dynamic variable types and properties, and extensive use of automatic type conversion.</li> <li>3. Develop event-driven programs that use HTML intrinsic event attributes, DOM events, listeners, and DOM-generated events</li> </ol>
		<b>CO 2</b>	<ol style="list-style-type: none"> <li>4. Use the DOM to modify a document's attributes and style properties as well as to modify its parse-tree representation.</li> <li>5. Explain the history of the internet and related internet concepts that are vital in understanding web development.</li> <li>6. Discuss the insights of internet programming and implement complete applications Over the web.</li> </ol>
		<b>CO 3</b>	<ol style="list-style-type: none"> <li>7. Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.</li> </ol>
<b>KBP-S- ECS-2321</b>	<b>Software Engineering</b>	<b>Semester III</b>	
		<b>CO 1</b>	<ol style="list-style-type: none"> <li>1. Software Engineering Students will try to learn: The main objective of the course is to introduce to the students about the product that is to be engineered and the processes that provides a framework for the engineering methodologies and practices.</li> <li>2. To provide the knowledge of software engineering discipline.</li> </ol>
		<b>CO 2</b>	<ol style="list-style-type: none"> <li>3. To apply analysis, design and testing principles to software project development.</li> <li>4. To demonstrate and evaluate real time projects with respect to software engineering principles.</li> </ol>
<b>KBP-S- ECS-2322</b>	<b>Software Testing</b>	<b>Semester IV</b>	
		<b>CO 1</b>	<ol style="list-style-type: none"> <li>1. To study fundamental concepts in software testing, including software testing objectives, process, criteria, strategies, and methods.</li> <li>2. To discuss various software testing issues and solutions in software unit test; integration, regression, and system testing.</li> </ol>
		<b>CO 2</b>	<ol style="list-style-type: none"> <li>3. To learn how to planning a test project, design test cases and data, conduct testing operations, manage software problems and defects, generate a testing report.</li> <li>4. To gain software testing experience by applying software testing knowledge and methods to practice-oriented software testing projects.</li> </ol>



		CO 3	5. To understand software test automation problems and solutions. 6. To learn how to write software testing documents, and communicate with engineers in various forms
KBP-S- ECS-3541	System Security		Semester VI
		CO 1	1. student will learn the fundamental principles of computer and network security by studying attacks on computer systems, network, and the Web.
		CO 2	2. Students will learn how those attacks work and how to prevent and detect them.

  
 Head  
 Dept. of B.Sc. E.C.S.  
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 Pandharpur (Autonomous)

Rayat Shikshan Sanstha's  
**KARMAVEER BHURAO PATIL MAHAVIDYALAYA, PANDHARPUR**

(Autonomous)

Department of B.Sc(Entire Computer Science)

ECS-I

Course Outcomes (COs)

		Semester I
<b>KBP-S- ECS-MJ- 1107 SEC</b>	<b>Data Visualization And representation using excel</b>	
	<b>CO 1</b>	Understandable the fundamental concepts of Advneced Excel with the present level of knowledge of the students. Describe maths,logical,Date & time,Text Functions . various selection techniques ,text formatting etc Knowledgeable about Protecting sheet,Tables,pivote table and various graph's types . Understandable the Advanced technique's of excel like as treemap, sunburst,Powermap,Power3D map Understandable the Advanced technique's of excel 3D graph's,sorting and filtering,planning and dashboard.
		<b>Semester I</b>
<b>KBP-S- ECS-MJ- 1105 OE</b>	<b>Data Visualization And representation using excel</b>	
	<b>CO 1</b>	Understandable the fundamental concepts of Advneced Excel with the present level of knowledge of the students. Describe maths,logical,Date & time,Text Functions . various selection techniques ,text formatting etc Knowledgeable about Protecting sheet,Tables,pivote table and various graph's types
	<b>CO 2</b>	Understandable the Advanced technique's of excel like as treemap, sunburst,Powermap,Power3D map Understandable the Advanced technique's of excel 3D graph's,sorting and filtering,planning and dashboard.
	<b>CO 3</b>	Knowledgeable about What if analysis , solvers,lookup function concept etc. Understanding Array function,gruiping concept,Logical function,Pivot table,Text formmating. Knowledgeable about data validation techniques,list validation ,down and droop list etc

**Punyashlok Ahilyadevee Holkar Solapur University,  
Solapur**

**Subject -Education**

**Semester- I - Paper- 1 – Philosophical Foundation of Education**

**Objectives :-**

- 1) To initiate the students in understanding the concept of philosophy, classes of philosophy and relation of philosophy with education.
- 2) To enable the students to understand the aims and objectives of education and functions of education.
- 3) To enable the students to understand the different reasons of indiscipline and their remedies.
- 4) To help the students in learning the educational works of different educationists.

**Outcomes – Students will be able to -**

- 1) Describe the concept of education and philosophy.
- 2) Illustrate the relation of philosophy with education.
- 3) Explain the aims, objectives and functions of education.
- 4) Think critically and discuss different reasons of indiscipline and suggest the remedies on it.
- 5) Interpret the educational works of different educationists.

**Unite Wise weightage**

<b>Year – I Semester – I</b>			<b>Weightage in Marks</b>
<b>Unit</b>	<b>Total Periods</b>	<b>Credits</b>	
ROLE OF PHILOSOPHY IN EDUCATION	<b>15</b>	<b>01</b>	<b>15</b>
AIMS AND FUNCTIONS OF EDUCATION	<b>15</b>	<b>01</b>	<b>15</b>
FREEDOM AND DISCIPLINE	<b>15</b>	<b>01</b>	<b>15</b>

STUDY OF SOME MAJOR EDUCATIONISTS	15	01	15
	60	04	60

## **Sem-II - Sociological Foundation of Education**

### **General Objectives :-**

- 1) To initiate the students in understanding the concept of educational sociology.
- 2) To help to illustrate the relation of sociology with education
- 3) To enable the students to understand the current social problems relating to education in India.
- 4) To enable the students to understand the role & and importance of national integration in Education
- 5) To help the students to identify and communicate the current social problems relating to education in India and suggest the remedies on it.
- 6) To help the students to identify and illustrate the role & and importance of national integration in education.

### **Outcomes:-** Students will be able to –

- 1) Describe the concept of education and sociology.
- 2) Illustrate the relation of sociology with education.
- 3) Classify and illustrate the role and importance of social groups in education.
- 4) Identify and communicate the current social problems relating to education in India and suggest the remedies on it.
- 5) Identify and illustrate the role & and importance of national integration in education.
- 6) Identify and illustrate the role & and importance of national integration in education

### Unit Wise Weightage

Year – I Semester – I			Weightage in Marks
Unit	Total Periods	Credits	
INTRODUCTION TO EDUCATIONAL SOCIOLOGY	15	01	15
EDUCATION - AN INSTRUMENT OF SOCIAL CHANGE	15	01	15
SOCIAL GROUPS AND CURRENT SOCIAL PROBLEMS RELATING TO EDUCATION IN INDIA	15	01	15
NATIONAL INTEGRATION AND EDUCATION	15	01	15
	60	04	60

**Punyashlok Ahilyadevee Holkar Solapur University,  
Solapur**

**Subject -Education**

**Open Elective –**

**Semester- I - Paper- I –History of Indian Education – I**

**General Objectives:-**

- 1) To enable the students to understand the aims objectives of the education in ancient and medieval era.
- 2) To enable the students to understand the different curriculums introduced in ancient and medieval era.
- 3) To enable the students to understand the different methods of teaching used in ancient and medieval era.
- 4) To enable the students to understand the discipline of student and the role of a teacher in ancient and medieval era.
- 5) To enable the student to develop the skill of comparison of aims of education, curriculums, method of teaching introduced and the role of teacher in ancient and medieval era.

**Outcomes:-**

- 1) Explain the aims and objectives of education, curriculum and methods of teaching in ancient and medieval era.
- 2) Discuss the discipline of students and role of teacher in ancient and medieval era.
- 3) Compare aims of education, curriculums and methods of teaching introduced in ancient and medieval era.
- 4) Compare the role of students and teacher introduced in ancient and medieval era.

## Unit Wise Weightage

Year – I Semester – I			Weightage in marks
Unit	Total Periods	Credits	
Education in Vedic and post Vedic Period	15	01	15
Education in Buddhist Period	15	01	15
<b>Total</b>	<b>30</b>	<b>02</b>	<b>30</b>

### Semester- II - Paper- II –

### History of Indian Education – II

#### General Objectives:-

- 1) To enable the students to understand the aims objectives of the education in ancient and medieval era.
- 2) To enable the students to understand the different curriculums introduced in ancient and medieval era.
- 3) To enable the students to understand the different methods of teaching used in ancient and medieval era.
- 4) To enable the students to understand the discipline of student and the role of a teacher in ancient and medieval era.
- 5) To enable the student to develop the skill of comparison of aims of education, curriculums, method of teaching introduced and the role of teacher in ancient and medieval era.


#### Outcomes:-

**After the completion of this Open Elective course students will be able to:**

- 1) Explain the aims and objectives of education, curriculum and methods of teaching in ancient and medieval era.
- 2) Discuss the discipline of students and role of teacher in ancient and medieval era.
- 3) Compare aims of education, curriculums and methods of teaching introduced in ancient and medieval era.
- 4) Compare the role of students and teacher introduced in ancient and medieval era.

Semester-II

Year – I Semester – II			Weightage in marks
Unit	Total Periods	Credits	
Main Educational Universities in Ancient India	15	01	15
Education in Islamic Period	15	01	15
<b>Total</b>	<b>30</b>	<b>02</b>	<b>30</b>

  
Dept. of Education.



Rayat Shikshan Sanstha's  
**KARMAVEER BHAURAO PATIL MAHAVIDYALAYA,**  
**PANDHARPUR**  
**(Autonomous)**

**Department of Electronics**

**NEP B.Sc.-I 2023-24**

**Program outcomes of B.Sc. Electronics Program**

**PO1:** Acquire knowledge, skill and to enhance thinking, comprehension and application abilities to compete, succeed and excel globally.

**PO2:** Gain knowledge and experience (through theory, experiments, projects and industrial visits), to achieve ultimate progress and improvement, to be capable of employment and meet the global competencies.

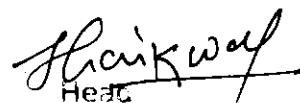
**PO3:** Identify, formulate and analyses problems. Create, select, and apply suitable techniques, resources, and modern scientific tools to accomplish verified conclusions with an understanding of the limitations.

**PO4:** Apply moral principles and commit to the norms of scientific practice in every endeavor. Validate expertise to conduct wide range of scientific experiments to solve problems.

**PO5:** Communicate efficiently scientific events with the Scientific community and with Society at large with capability to comprehend and pen operative reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO6:** Reveal knowledge with thoughtful expression of the scientific principles in one's own work, as an individual member and capable leader in a team, to manage projects in multidisciplinary environments.

**PO7:** Apply the knowledge of different types of simulator software and its techniques.



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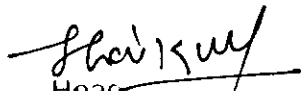
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**Department of Electronics**

**NEP M.Sc.-I 2023-24**

Program outcomes of M.Sc. Electronics Program

1. **Mastery of Various Electronics Branches:** The student will comprehend and articulate the concepts of Communication Electronics, Optical Electronics, Circuit Design, Power Electronics, Control Systems, Microcontroller and Semiconductor Devices, Microprocessors, Digital Signal Processing, and RF & Microwaves.
2. **Research Project Execution:** The student will demonstrate proficiency in executing a short research project, integrating techniques from Basic and Advanced Electronics, utilizing simulator software, under appropriate supervision.
3. **Industry Readiness:** Equipped with comprehensive knowledge and practical skills, the student will be prepared to assume suitable positions within the industry upon program completion.
4. **Communication Electronics Understanding:** The student will grasp the principles underlying communication systems, including modulation, transmission, reception, and signal processing.
5. **Optical Electronics Familiarity:** Proficiency in Optical Electronics will enable the student to comprehend and work with devices and systems that manipulate light for various applications.
6. **Circuit Design Competence:** The student will possess the skills to design and analyze electronic circuits, incorporating components such as resistors, capacitors, inductors, and integrated circuits.
7. **Power Electronics Proficiency:** Understanding of Power Electronics will enable the student to design and optimize electronic systems for efficient power conversion and control.
8. **Control Systems Understanding:** Mastery of Control Systems will empower the student to analyze and design systems for automatic control of dynamic processes.
9. **Microcontroller and Semiconductor Devices Knowledge:** Proficiency in Microcontroller and Semiconductor Devices will enable the student to work with embedded systems and semiconductor devices for various applications.
10. **Digital Signal Processing Aptitude:** The student will acquire the skills to analyze, process, and manipulate digital signals for applications such as audio and image processing, telecommunications, and control systems.

  
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Pandharpur (Autonomous)

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 (Autonomous)  
 Department of Electronics  
 NEP B.Sc.-I  
 Course Outcome (COs) 2023-24

Paper No.	Paper/Course Name	COs	Semester-I
I	Major-I Basic Circuit Theory and Network Analysis		<i>At the end of course, a student will be able to:</i>
		CO 1	List Basic Circuit components.
		CO 2	Tell basic circuit fundamentals.
		CO 3	Name the different types of AC circuits and their working principles.
		CO 4	Define different network theorems used for designing of various Electronic circuits.
II	Major-II Digital Fundamentals	CO 5	Understand two port network theory.
			<i>At the end of course, a student will be able to:</i>
		CO 1	Define different number systems.
		CO 2	List different logic gates.
		CO 3	Define Demorgan's theorems.
		CO 4	Tell the rules and laws of Boolean Algebra.
		CO 5	Explain how arithmetic circuits are working.
			<i>At the end of course, a student will be able to:</i>

III	<b>Semiconductor Devices</b>	CO 1	Define different number systems.
		CO 2	Tell the fundamental concept of semiconductor.
		CO 3	Explain how the semiconductor devices are working.
		CO 4	Understand construction and working of BJT, FET.
		CO 5	List the differences between BJT and FET.
IV	<b>Digital Electronics</b>		<i>At the end of course, a student will be able to:</i>
		CO 1	Define different logic families and their specifications.
		CO 2	List the types of flip flops.
		CO 3	List the different types of Shift Registers.
		CO 4	Tell the working principle of Binary Counter.
III	<b>Minor-II Basic's of Digital Electronics</b>	CO 5	Understand basic computer and memory.
			<i>At the end of course, a student will be able to:</i>
		CO 1	Solve the problems related to interconversion of number system and design
		CO 2	Develop logic circuits using logic gates and Boolean algebra
		CO 3	Analyze different logic families.
	CO 4	1	Design combinational logic circuits

*Shrikant*

		CO 5	Explain Multivibrator using IC 555 and Logic gates
<b>Paper No.</b>	<b>Paper/Course Name</b>	<b>COs</b>	<b>Semester-IV</b>
VII	<b>Operational Amplifier and Applications</b>		<i>At the end of course, a student will be able to:</i>
		CO 1	Classify types of differential amplifiers.
		CO 2	Solve problems related to Ad, Ac and CMRR.
		CO 3	Summarize characteristics of operational amplifier.
		CO 4	Perform experiments with operational amplifier.
		CO 5	Make use of operational amplifier in linear and non linear systems.
			<i>At the end of course, a student will be able to:</i>
VIII	<b>Microprocessor and Microcontroller</b>	CO 1	Compare ADC with DAC circuits.
		CO 2	Explain the architecture of microprocessor.
		CO 3	Develop assembly language programs for 8085 microprocessor.
		CO 4	Compare microprocessor with microcontroller.
		CO 5	Develop assembly language programs for 8051 microcontroller.

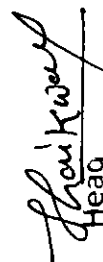
*Sheik Waf*

HEAD OF DEPARTMENT

DEPT. OF ELECTRICALS  
Kamaveer Bhatta Institute of Engineering & Technology  
Paindharpur, Autunomous.

					<i>At the end of course, a student will be able to:</i>
			CO 1		Classify communication systems.
			CO 2		Distinguish between modulation and demodulation techniques.
			CO 3		Compare transmitter and receiver circuits.
			CO 4		Explain working principle of Telephone System.
			CO 5		Discuss Radio wave Propagation.
					<i>At the end of course, a student will be able to:</i>
			CO 1		Explain the fundamentals of Embedded System Design.
			CO 2		Design programs in C.
			CO 3		Design programs in embedded C.
			CO 4		Build hardware to interface different devices with 8051 microcontroller.
			CO 5		Develop various embedded systems.
					<i>At the end of course, a student will be able to:</i>
			CO 1		Explain the fundamentals of Control System.
			CO 2		Classify control system.
			CO 3		List the components of control system.
			CO 4		Define programmable logic controller.
			CO 5		Explain the basics of ladder programming.
XI	<b>Electronics Communication</b>				
XII (DSE-1)	<b>Embedded System Design</b>				
XII (DSE-2)	<b>Industrial Automation and PLC Programming</b>				

			CO 5	Compare the network topologies used in computer communication.
				<i>At the end of course, a student will be able to:</i>
XVI (DSE-1)	<b>Biomedical Electronics</b>	CO 1	Define bioelectric signals.	
		CO 2	Compare working principles of ECG, EEG and EMG.	
		CO 3	Explain the fundamentals of biomedical instrumentation systems.	
		CO 4	Give importance of imaging systems used in biomedical.	
		CO 5	List the applications of biomedical instruments.	
				<i>At the end of course, a student will be able to:</i>
XVI (DSE-2)	<b>Virtual Instrumentation</b>	CO 1	Explain the fundamentals of virtual instrumentation.	
		CO 2	List the IDEs.	
		CO 3	Discuss the Fundamentals of LABVIEW.	
		CO 4	Develop virtual instrumentation using LABVIEW.	
		CO 5	Design various systems in LABVIEW.	

  
 Head  
 Dept. of Electronics  
 Yashwantrao Chavan Pratishthan  
 Pantharapur (Mumbai)

Rayat Shikshan Sanstha's

**KARMAVEER BHAURAO PATIL MAHAVIDYALAYA,  
PANDHARPUR (AUTONOMOUS)**

**Department of English**

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**Under Graduate Program Outcomes and Program Specific  
Outcomes:**

**B. A. (Special English):**

**Program Outcomes**

- **Critical Thinking:** Capability to apply analytic thought to a body of knowledge; analyze and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.
- **Problem Solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.
- **Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem solving, synthesizing and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.
- **Cooperation/Team work:** Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.
- **Reflective thinking:** Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.



- Information/digital Literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.
- Self-directed Learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.
- Multicultural Competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

### ● **Program Specific Outcomes:**

The graduates in Special English:

- Understand major and minor forms of literature.
- Have developed interest in literature and language.
- Enjoy reading the short stories, poems, novels and dramas.
- Know the literary theories, terms and concepts in Criticism.
- Appreciate the literary works.
- Understand the structure and function of grammatical units.
- Know the use of language at semantic and syntactic levels. The students could improve vocabulary.
- Use English effectively in formal and informal situations.
- Attempt creative writings.
- Know phonological and morphological aspects of English.
- Understand the values of literature in life.
- Understand different cultures of the times.
- Know various genres in English literature like Indian English literature, British literature and American literature.

- Develop language learning skills like Listening, Speaking, Reading and Writing.
- Develop vocabulary and communicative skills.
- Develop verbal and non-verbal skills of communication.
- Are able to get the jobs in industry, government, schools and offices.
- Have enriched confidence to appear for competitive examinations.

## **Post- Graduate Program Outcomes and Program Specific Outcomes:**

### **M. A. (Entire English):**

#### **Program Outcomes**

- Scientific Temper: To build essential skills of life including questioning, observing, testing, hypothesizing, analysing and communicating.
- Effective Citizenship: Demonstrate empathetic social concern and engage in service learning and community engagement programmes for contributing towards achieving of local, regional and national goals.
- Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions and accept responsibility for them.
- Environment and Sustainability: Participate and promote sustainable development goals.
- Gender Sensitization and Social Commitment: To imbibe Gender sensitivity and the sense of social responsibility for self and community for the benefit of the society at large.
- Self-directed and Life-long learning: Engage in continuous learning for professional growth and development.

#### **Program Specific Outcomes:**

- To familiarise with the writers of English literature across different ages and continents, their theories, perspectives, models and methods.

- To be able to demonstrate competence in analysis and critically analyse scholarly work in the areas of English language teaching, literary research and translation.
- Application of the knowledge of Literature, theories, research and skills in different fields of literary practice.
- To develop the technical skills and ethical decisions appropriate for the holistic professional development in the field.

  
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**Department of ENGLISH**  
**B.A./B.Sc./B.Com/ECS -I/II/III**  
**Course Outcomes (COs)**

Paper No.	Paper/Course Name Course Code	COs	
			<i>Student will be able to:</i>
	<b>B. A / B. Com/ B. Sc/ECS Part I</b>		
			<b>Semester-I</b>
I	Opt English: Introduction to Literature KBP-UG-A-OENG1101	CO 1	Define various literary forms.
		CO 2	Get experience of reading and interpreting literary texts
		CO 3	Analyse of short story as a literary form.
I	Opt. Ling: Introduction to Linguistics KBP-UG-A-LIN1101	CO 1	Acquisition of knowledge of linguistics as a discipline.
		CO 2	Acquaint with basics of linguistics and the key concepts.
--	English Compulsory: B A/B Com/B Sc KBP-UG-A-CENG1101	CO 1	Develop the vocabulary and communication skills
	KBP-UG-S-CENG1101 (For B Sc)	CO 2	Classify forms of words
	KBP-UG-B-CENG1101 (For B Com)	CO 3	Summarize the prose and paragraphs
			<b>Semester II</b>
II	Opt English: Introduction to Literature KBP-UG-A-OENG1202	CO 1	Acquaint with linguistic terms.
		CO 2	Knowledge of structural and analytical techniques.
		CO 3	Identify various forms of Poetry

II	Opt. Ling: Introduction to Linguistics KBP-UG-A-LIN1202	CO 1	Aware of the structure of words and word formation processes.
		CO 2	Deal with form and function of Phrases
--	English Compulsory: B A/B Com/B Sc KBP-UG-A-CENG1202	CO 1	Develop the vocabulary and communication skills
	KBP-UG-S-CENG1202 (For B Sc)	CO 2	Classify forms of words
	KBP-UG-B-CENG1202 (For B Com)	CO 3	Summarize the prose and paragraphs
<b>B. A / B. Com Part II</b>			
<b>Semester III</b>			
III	Opt. British Literature KBP-UG-A-ENG2303	CO 1	Introduction to British Literature and writers.
		CO 2	Initiate the process of literary and critical interpretation of the texts.
		CO 3	Outline the history of British Literature
IV	Opt. Indian Literature in English KBP-UG-A-ENG2304	CO 1	Acquaint with different literary forms practiced in India in English language.
		CO 2	Initiate reading skills of Indian Literature in English.
		CO 3	Knowledge of history of Indian English literature
--	Linguistics ( IDS) KBP-UG-A-IDS-LIN2301	CO 1	Introduced with the basic knowledge of linguistics
		CO 2	Define the basic concepts of linguistics
		CO 3	Able to apply knowledge of linguistics in day today use of English
--	English Compulsory: B A/B Com KBP-UG-A-CENG2301	CO 1	Be competent and proficient to communicate properly
	KBP-UG-B-CENG2301 (For B Com)	CO 2	Understand the social commitment and value of good communication
		CO 3	Creative and will try his hands in writing from time to time
		CO 4	Be a good communicator
<b>Semester IV</b>			
V	Opt. Introduction to Language KBP-UG-A-ENG2405	CO 1	Acquisition of knowledge of linguistics as a discipline.
		CO 2	Acquaint with basics of linguistics and the key concepts.

		CO 3	Aware of the structure of words and word formation processes.
VI	Opt. Indian Literature in English KBP-UG-A-ENG2406	CO 1	Acquaint with critical and analytic skills of literary works
		CO 2	Acquaint with the salient features of Indian English novel and drama.
		CO 3	Able to analyze poetry as a form of literature
--	Linguistics ( IDS) KBP-UG-A-IDS-LIN2402	CO 1	Introduce with the basic knowledge of linguistics
		CO 2	Define the basic concepts of linguistics
		CO 3	Able to apply knowledge of linguistics in day today use of English
--	English Compulsory: B A/B Com KBP-UG-A-CENG2402 KBP-UG-B-CENG2402 (For B Com)	CO 1	Be competent and proficient to communicate properly
		CO 2	Understand the social commitment and value of good communication
		CO 3	Creative and will try his hands in writing from time to time
		CO 4	Be a good communicator
<b>B. A / B. Com/ B. Sc/ECS Part III</b>			
<b>Semester V</b>			
VII	Introduction to Literary Criticism KBP-UG-A-ENG3507	CO 1	Introduce with the basics of literary criticism.
		CO 2	Knowledge about various critical approaches.
		CO 3	Enable to read and appreciate literary texts critically.
VIII	British Literature KBP-UG-A-ENG3508	CO 1	Get acquainted with knowledge, stylistic strategies & diction of British Literature
		CO 2	Able to cultivate aesthetic & ethical values in life through literary text.
		CO 3	Comprehend the British poetry
IX	Indian English literature KBP-UG-A-ENG3509	CO 1	Understand gradual development of Indian English literature from mid-twentieth century to post 2000 period
		CO 2	Get acquainted with major genres/ themes through the study
		CO 3	Familiar with Indian socio-cultural ethos as revealed through texts prescribed and try to correlate it with everyday situations
X	Literatures in English KBP-UG-A-ENG3510	CO 1	Understand Afro-American fiction

		CO 2	Define features of Postcolonial Fiction
		CO 3	Analyze the postcolonial poetry
XI	Introduction to the Structure and Function of Modern English KBP-UG-A-ENG3511	CO 1	Understand various concepts in linguistics.
		CO 2	Get acquainted with various branches of linguistics.
		CO 3	Analyses of phrases and sentences
--	English Compulsory: B A/B Sc/ECS	CO 1	Be competent and proficient to communicate properly
	KBP-UG-A-CENG3501	CO 2	Understand the social commitment and value of good communication
	KBP-UG-S-CENG3501 (For B Sc/ECS)	CO 3	Creative and will try his hands in writing from time to time
		CO 4	Be a good communicator
			<b>Semester VI</b>
XII	Introduction to Literary Criticism KBP-UG-A-ENG3612	CO 1	Expose to major trends in literary criticism.
		CO 2	Familiarize with the tenets of practical criticism.
		CO 3	Train to write critical appreciation of poetry.
XIII	British Literature KBP-UG-A-ENG3613	CO 1	Be able to explore the creativity & human experiences in fiction, poetry & drama
		CO 2	Comprehension of major trends & traditions of British Literature
		CO 3	Able to cultivate aesthetic & ethical values in life through literary text.
XIV	Indian English literature KBP-UG-A-ENG3614	CO 1	Get acquainted with major genres/ themes through the study
		CO 2	Familiar with Indian socio-cultural ethos as revealed through texts prescribed and try to correlate it with everyday situations
		CO 3	Be able to understand & interpret literature on their own and in further cultivate interest in study of literatures in English
XV	Literatures in English KBP-UG-A-ENG3615	CO 1	Be able to respond critically to world literatures in English
		CO 2	Get acquainted with cultures across the world through literature
		CO 3	Analyze the postcolonial drama



XVI	Introduction to the Structure and Function of Modern English KBP-UG-A-ENG3617	CO 1	Get acquainted with organization of language
		CO 2	Get acquainted with language as a discourse.
		CO 3	Analyses of phrases and sentences
--	English Compulsory: B A/B Sc/ECS KBP-UG-A-CENG3501 KBP-UG-S-CENG3501 (For B Sc/ECS)	CO 1	Be competent and proficient to communicate properly
		CO 2	Understand the social commitment and value of good communication
		CO 3	Creative and will try his hands in writing from time to time
		CO 4	Be a good communicator
<b>M. A. Part I and II</b>			
<b>Semester I</b>			
I	British Literature KBP-PG-A-ENG1101	CO 1	Acquaint students with major trends & major writers in British Literature
		CO 2	Enable students to read and appreciate the works of major British authors.
III	Indian English Literature KBP-PG-A-ENG1102	CO 1	Acquaint students with selected masterpieces in Indian English Literature
		CO 2	Enable students to read and appreciate the works of Indian authors writing in English.
III	Introduction to applied linguistics KBP-PG-A-ENG1103	CO 1	Classify the concepts of applied linguistics are introduced to the students
		CO 2	Apply linguistics theories to different types of texts
IV	Comparative Literature KBP-PG-A-ENG1104	CO 1	Illustrate the students to the discipline of comparative literature.
		CO 2	Familiarize the students with the definition, nature, scope, concepts, issues, and methodologies of comparative literature
V	English for Competitive Examination KBP-PG-A-ENG1105	CO 1	To encourage students to appear and prepare for the competitive exams.
		CO 2	To help the students to overcome the fear about English as a compulsory subject in various competitive exams
<b>Semester II</b>			
VI	British Literature KBP-PG-A-ENG1206	CO 1	Acquaint students with major movements in British literature as reflected through literary works

VII	Indian English Literature KBP-PG-A-ENG1207	CO 2	Improved the linguistic competence along with the literary competence of the students Acquaint students with major movements in India as reflected through literary works.
VIII	Introduction to applied linguistics KBP-PG-A-ENG1208	CO 1	Acquaint the students with the literary achievements of some significant Indian Diaspora writers.
IX	Comparative Literature KBP-PG-A-ENG1209	CO 1	Explain Students to get acquainted with the knowledge of languages based on person place and society
X	English for Competitive Examination KBP-PG-A-ENG1210	CO 2	Interpret Students with the techniques to analysis prose and poetry stylistically appreciate comparative literature beyond regional and national boundaries
XI	Contemporary Critical Theory KBP-PG-A-ENG1311	CO 1	Survey the rationale of comparative literature in multilingual, multicultural and multinational studies.
XII	Postcolonial Literature KBP-PG-A-ENG1312	CO 1	To enable students to prepare for the competitive exams of various kinds especially meant for testing ability in English language.
XIII	Research Methodology KBP-PG-A-ENG1313	CO 2	To introduce students with the common question types asked in competitive examinations concerning English- grammar, vocabulary, comprehension, and other significant topics.
XIV	Translation Studies KBP-PG-A-ENG1314		<b>Semester III</b>
XV	21st Century Skills (Soft Core) KBP-PG-A-ENG1315	CO 1	Analyze how various critical theories developed in the course of the 20th Century.
		CO 2	Illustrate and justify contemporary theories to the best of their ability.
		CO 1	Analyze and interpret the colonial and postcolonial texts applying the postcolonial literary theory.
		CO 2	Perceive how race, class, gender, history and identity are presented and problematized in the literary texts.
		CO 1	Construct knowledge of basic concept and framework of research and its methodologies.
		CO 2	Develop an understanding of various research designs and techniques.
		CO 1	Comprehend translation studies as a separate discipline of knowledge
		CO 2	Analyze the nature, scope and theoretical issues in translation studies
		CO 1	Adopt different soft skills such as critical thinking and problem solving.
		CO 2	Develop a sense of comprehensibility by exposure through soft skills.

		<b>Semester IV</b>	
XVI	Contemporary Critical Theory KBP-PG-A-ENG1416	CO 1	Develop competency to mark differences and similarities in these theories and schools.
XVII	Postcolonial Literature KBP-PG-A-ENG1417	CO 2 CO 1	Acquire ability to understand their own theoretical/critical stance as readers. Read, comprehend and engage with postcolonial literary criticism.
XVIII	Research Methodology KBP-PG-A-ENG1418	CO 2 CO 1	Build how a literary text, explicitly or allegorically represents various aspects of colonial oppression. Develop an understanding of the ethical dimensions of conducting applied research.
XIX	Translation Studies KBP-PG-A-ENG1419	CO 2 CO 1	Appreciate the components of scholarly writing and evaluate its quality. Awareness of cultural, ethical, and epistemological aspects of translation and interpreting practices.
XX	21st Century Skills (Soft Core) KBP-PG-A-ENG1420	CO 2 CO 1	Understanding of theories of and approaches to a variety of translation and interpreting fields. Clearly articulate problems they encounter.
		CO 2	Show confidence in dealing with complexity and ambiguity.

Head

Dept. of English  
Karmaveer Bhaurao Patil Mahavidyalaya,  
Pandharpur (Autonomous)

Rayat Shikshan Sanstha's  
**KARMAVEER BHURAO PATIL MAHAVIDYALAYA, PANDHARPUR**  
**(Autonomous)**

Department of Geography  
**B.A.**

**Course Outcomes (COs) (2023-24)**

Paper No.	Paper/Course Name Course Code	COs	Semester-I
Paper I	Geomorphology DSC -I (4)	CO 1	<i>Student will be able to:</i> Understand the introduction, nature and scope of Geomorphology.
		CO 2	Summarize the Interior of the Earth, earthquakes and volcanoes.
		CO 3	Understand the Rocks and Geomorphic Processes.
		CO 4	Analyze Evolution of Landforms.
Practical- I	Relief Profile Analysis	CO 1	<i>Student will be able to:</i> Understand the students to the Slope and Gradient.
M-I-02	Conservation of Water Resources	CO 2	Acquaint the student to the Contours and Geographical Profiles.
		CO 1	<i>Student will be able to:</i> Understand the basic concept and hydrological cycle.
		CO 2	Understand importance of water and its conservation.
OE (4)	Physical Geography of Maharashtra	CO 1	<i>Student will be able to:</i> Understand the Location , physiography and Drainage pattern of Maharashtra
		CO 2	Understand the climate of Maharashtra and climatic region of Maharashtra.
		CO 3	Know about the Drought prone area and Flood area of Maharashtra.
		CO 4	Understand the Natural vegetation and soil types of Maharashtra.
VSC -I(2)	Introduction to GIS	CO 1	<i>Student will be able to:</i> Learns about the GIS
		CO 2	Familiar the knowledge about Components of GIS.
VEC-1 (2)	Travel and Tourism		<i>Student will be able to:</i>

			Understand fundamentals of tourism and Travel.
			Learn Geographical factors for Tourism Studies
IKS (2)	Bharatvarsh: A Land of Rare Natural Endowments		<i>Student will be able to:</i>
		CO 1	Understand diversity of physical geography of India
		CO 2	Understand richness of India, what kind of vegetation, animals and minerals is in India.
			Understand Uniqueness of Indian Culture and Indian Prosperity Held in the World.
DSC – II	Climatology		<i>Student will be able to:</i>
		CO 1	Understand the atmospheric condition that causes weather patterns and temperature changes over time.
		CO 2	Understand the shifting of the pressure belts causes seasonal changes in the climate.
		CO 3	Understand types of Humidity, Adiabatic laps rate- Distribution and condensation and precipitation.
		CO 4	Understand the Weather and Climate
DSC-P-2 Paper-II	Study of Weather instruments and Indian Weather Reports		<i>Student will be able to:</i>
		CO 1	learns about the Weather Instruments and Isobaric Patterns.
		CO 2	familiar the knowledge about Indian Weather Reports.
M-II (2)	Agriculture Geography		<i>Student will be able to:</i>
		CO 1	Understand the concept of agriculture geography, its nature, scope, approaches and significance of it.
		CO 2	Know about world agriculture system and problems and prospects of agriculture.
OE	Economic Geography of Maharashtra		<i>Student will be able to:</i>
		CO 1	Understand the crops and irrigation mode in Maharashtra.
		CO 2	Understand the various Industries and their role in state economy.
		CO 3	Understand the mode of Transport, trade and their role in state economy.
		CO 4	Understand growth of Population, Density, Migration and composition of Population.
VSC-II	Introduction To Remote Sensing		<i>Student will be able to:</i>
		CO 1	Learns about the Remote Sensing.

			CO 2	Familiar the knowledge about Basic Components of Remote Sensing. <i>Student will be able to:</i>
SEC-I	Introduction to Cartography		CO 1	Learns about the Cartography.
			CO 2	Familiar the knowledge about fundamentals of map. <i>Student will be able to:</i>
VEC-II	Travel and Tourism Management		CO 1	Learns about the knowledge of Infra structure for Tourism & Travel Management
			CO 2	Understand the Management of Tourism in India
<b>Semester III</b>				
Paper III	Climatology GEO-2303			<i>The student will be able to-----</i>
			CO 1	Knowledge the fundamental concepts of Climatology.
			CO 2	Understand Isolation and Temperature of climatic aspects.
			CO 3	Summaries the Air Pressure and Winds.
			CO 4	Acquaint the Atmospheric Moisture, Cyclone, Monsoon and its influence on human life.
Paper IV	Geography of India GEO-2304			<i>The student will be able to-----</i>
			CO 1	Recognize the idea of physical feature of India.
			CO 2	Understand the Growth of population, distribution of population and structure of population in India.
			CO 3	Understands distribution and production of mineral and power resources in India.
			CO 4	Acquaint the Physiographic and Economic regionalization of India
IDS	Introduction to Tourism Geography			<i>The student will be able to-----</i>
			CO 1	Acquaint the student with basic concept of Tourism Geography.
			CO 2	Understand the factor affecting the Tourism Geography.
			CO 3	Familiarize the classification, marketing, infrastructure & impact of Tourism
<b>Semester IV</b>				
Paper V	Economic Geography GEO-2405			<i>The student will be able to-----</i>
			CO 1	Understand the fundamental concepts of Economic Geography.
			CO 2	Knowledge of Primary, Secondary and Tertiary economic activities.
			CO 3	Understand the Manufacturing, Special Economic zones and Technology parks

		CO 4	Acquaint about problem and prospect about agriculture, trade and transport.
			<i>The student will be able to-----</i>
Paper VI	Environmental Geography GEO-2406	CO 1	Understand the fundamental concepts of Environmental Geography.
		CO 2	Aware about relationship between Human and Environment.
		CO 3	Know the concept, structure and functions of ecosystem
		CO 4	Acquaint about Environmental problems, programs and policies at global, National and Local level.
			<i>The student will be able to-----</i>
IDS	Tourism in India A-TOUR-240	CO 1	Acquaint the student with basic concept of Tourism development in India.
		CO 2	Familiarize the student about Geographical, Historical, Religious and cultural Tourist Places in India.
		CO 3	Prepare the students for the Tourism planning
			<b>Semester V</b>
			<i>The student will be able to-----</i>
Paper VII	Regional Planning and Development DSC 7	CO 1	Knowledge the importance of regional planning.
		CO 2	Understood the concepts of region, regionalization, regional planning & development and detailed knowledge of region.
		CO 3	familiarize with indicators of measurement of development
		CO 4	Relating to understanding of Growth Pole Model, Center place Theory and Growth Foci Model in Indian context
			<i>The student will be able to-----</i>
Paper VIII	Urban Geography DSE 1A	CO 1	Relate the importance of urban settlements through urban geography.
		CO 2	Interpret the types of urban Settlements, Site and situations.
		CO 3	Familiarize with an idea of relationship between human activities and urban development.
		CO 4	Understanding to the urban problems and capable to handling of present

			problematic situations in urban areas.
Paper VIII	Agriculture Geography DSE 1B		<i>The student will be able to-----</i>
		CO 1	Knowledge the importance and modern techniques of Agricultural geography.
		CO 2	Understand the factors affecting on agriculture.
		CO 3	Familiar with agriculture theories, green revolution and problems associated with agriculture
		CO 4	Criticize the Agricultural Land use theory.
Paper IX	Population Geography DSE 2A		<i>The student will be able to-----</i>
		CO 1	Understand the population geography along with relevance of demographic data.
		CO 2	Summarize of distribution and trends of population growth in the developed and less developed countries, along with population concepts.
		CO 3	Knowledge the implications of population composition in different regions of the world.
		CO 4	Familiar with the contemporary issues in the field of population studies.
Paper IX	Resource Geography DSE 2B		<i>The student will be able to-----</i>
		CO 1	Knowledge the importance of Resources.
		CO 2	Familiar with distribution, utilization and problems of resources like water, forest, energy and human.
		CO 3	Aware to conventional and non- conventional resource.
		CO 4	Understanding the sustainability of natural resource development.
			<b>Semester VI</b>
Paper X	Evolution of Geographical Thought DSC 8		<i>The student will be able to-----</i>
		CO 1	Understand the basic theme, ideas and approaches of geographic knowledge.
		CO 2	Knowledge about the debates in the geographical studies.



		CO 3	Understanding of recent trends in Geography.
		CO 4	Summaries the Quantitative revolution in Geography
Paper XI	Geography of Health and Wellbeing DSE 3A		<i>The student will be able to-----</i>
		CO 1	Understand various geographical perspectives related to human health
		CO 2	Develop awareness of human health and environment.
		CO 3	Familiar with geographical background of diseases and their regional pattern.
		CO 4	Aware about impact of climate change on human health.
Paper XI	Political Geography DSE 3B		<i>The student will be able to-----</i>
		CO 1	Understand the history and development of political geography.
		CO 2	Knowledge about evaluation of state and nation.
		CO 3	Explain the Geo-political theories.
		CO 4	Investigates problems and disputes of India with the most current research topics in political geography.
Paper XII	Hydrology and Oceanography DSE 4A		<i>The student will be able to-----</i>
		CO 1	Understand the hydrological cycle related to formation of precipitation, infiltration, ground water recharge.
		CO 2	Acquaint the human interference on hydrological cycle and its impact on globally drought region, flooded area.
		CO 3	Summaries the ocean floor topography, ocean properties and circulations.
		CO 4	Familiar with Coral Reefs and Marine Deposits
Paper XII	Social Geography DSE 3A		<i>The student will be able to-----</i>
		CO 1	Understand the concept, nature and scope of social geography.
		CO 2	Explain the problems and prospects of society in India.
		CO 3	Knowledge the social categories and their spatial distribution.
		CO 4	Familiarize with concepts of social wellbeing, welfare and social problem in India.

Practical I	Map Making and Map Interpretation DSC 9			<i>The student will be able to-----</i>
		CO 1		Understand the map, concept of scale and projection.
		CO 2		Knowledge about the analysis of landforms and its identification.
		CO 3		Aware about basic information to the students about S.O.I. toposheets and I.M.D. weather reports
		CO 4		Obtain the skills about map interpretation.
Practical II	Advanced Tools, Techniques & Field Work DSC 10			<i>The student will be able to-----</i>
		CO 1		Understand the importance of field work and advanced Techniques in Geography.
		CO 2		Implement modern tool and techniques in Geography.
		CO 3		Aware about the basics and trained in instrumental survey.
		CO 4		Familiar with computer, GIS, GPS and Remote Sensing.

*SWP*

Department of Geography  
M. B. P. Arts College,  
Pondicherry.

Rayat Shikshan Sanstha's  
**KARMAVEER BHAURAO PATIL MAHAVIDYALAYA, PANDHARPUR**

(Autonomous)

Department of Geography

M.A./M.sc

Course Outcomes (COs) (2023-24)

Paper No.	Paper/Course Name Course Code	COs	Semester-I
Paper I	Geomorphology	CO 1	Understand the the fundamentals of geomorphological aspects.
		CO 2	Acquaint the fundamentals of geomorphological concepts.
		CO 3	Understand the recent Trends in geomorphology & applied geomorphology.
		CO 4	Aware the movements of the earth, endogenetic and exogenetic forces of Earth.
			<i>The student will be able to-----</i>
Paper II	Climatology	CO 1	Learned about the knowledge of Climatology.
		CO 2	Understand the atmospheric wind and air pressure.
		CO 3	Familiarized the knowledge about Agro-climatology.
		CO 4	Understand the Applied Climatology
			<i>The student will be able to-----</i>
Practical I	Representation of Landform and Topographical Map	CO 1	Understand geomorphic data and its importance with the help of Toposheet.
		CO 2	Analyzing maps and representation methods of reliefs in Toposheet.
		CO 3	Expressing distinct geographical landforms
		CO 4	Calculating drainage pattern through stream ordering, bifurcation ratio and drainage density
			<i>The student will be able to-----</i>
Practical II	Study of Weather Maps	CO 1	Understand the weather conditions in day to day human life.
		CO 2	Explaining relationship between weather elements like a rainfall,
Paper -III	Analysis of Climatic Data		<i>The student will be able to-----</i>

		CO 1	Understand climatic data and its Importance
		CO 2	Preparing use of climatic data to communicate effectively by graphs, chart and diagrams.
Paper- III	Population Geography		The student will be able to-----
		CO 1	Understand association between demographic & socio economic
		CO 2	Categorizing Population Distribution Pattern and Population Composition.
		CO 3	Tabulating Population Growth & Changes in India.
		CO 4	Highlighting the population problems and prospect in India.
Paper -IV	Research Methodology		The student will be able to-----
		CO 1	Understand the concept of fieldwork, techniques of data Collection and its Presentation.
		CO 2	Describe the Importance of Sampling in Research and skill of report writing.
		CO 3	The express knowledge about format of project report.
		CO 4	technical paper writing without violating professional ethics.
<b>Semester II</b>			
Paper- V	Biogeography		The student will be able to-----
		CO 1	Understand the concept of Biogeography and its interpretation.
		CO 2	Familiarized climate, physical environment and their interactions with the living organisms.
		CO 3	Understand the living and nonliving environments and their interactions with special reference to India.
		CO 4	Aware about conservation of biodiversity and biotic resources.
Paper VI	Regional Geography of India		The student will be able to-----
		CO 1	Understand India in terms of various regional divisions, their important characteristics. Intraregional & inter- regional linkages
		CO 2	Understand physiographic division, population, agriculture, resources and industries in India.

		CO 3	Analyzing Agro-climatic Regions of India
		CO 4	Preparing Basis of Regionalization Geo-political, Physiographic, Climatic, Socio-Economic Regionalization
Practical Paper –IV	Study of Landforms Analysis Techniques		<i>The student will be able to-----</i>
		CO 1	Analyzing the slope and its types
		CO 2	Identifying different profiles of landform
		CO 3	Measuring the different types of slope determination.
Practical Paper –V	Statistical Techniques in Geography-I		<i>The student will be able to-----</i>
		CO 1	Applying statistical methods in analysis of Geographical data.
		CO 2	Measuring frequency distribution- Histogram, Polygon and Ogive Curve.
		CO 3	Calculating measures of central tendency- Mean, Median and Mode.
		CO 4	Assessing absolute measures of Deviation.
Practical Paper –VI	Statistical Techniques in Geography-II		<i>The student will be able to-----</i>
		CO 1	Analyze various statistical tools applied in geography.
		CO 2	Explaining the relative measurement of dispersion.
		CO 3	Testing the correlation analysis Karl Pearson and Spearman.
Paper – VII	Economic Geography		<i>The student will be able to-----</i>
		CO 1	Annotating the fundamental concepts of Economic Geography.
		CO 2	Criticizing the Industrial Location Theories by Weber and Losch.
		CO 3	Understand the energy resources and energy crisis.
		CO 4	Appraising modes of transportation and trade.
OJT/FP Paper- VIII	Field Project		The student will be able to-----
		CO 1	Understand the skill of report writing.

CO 2 Expressed the knowledge about format of project report

**Semester III**

Paper IX	Agricultural Geography	HCT 3.1		The student will be able to-----
			CO 1	Knowledge the term, origin and approaches of Agricultural geography.
			CO 2	Considering the different determinants of agriculture
			CO 3	Assessing the world agricultural system.
			CO 4	Examining the delimitation techniques of agricultural regions
Paper X	Settlement Geography	HCT 3.2		The student will be able to-----
			CO 1	Relating to the term, nature, scope, evolution and trend of settlement geography
			CO 2	Knowledge the site, situation and functional classification of rural settlement
			CO 3	Assessing the distinct morphological structure of cities
			CO 4	Criticizing the theories of Christaller and August Losch of Human Settlement.
Paper XI	Biogeography	SCT 3.1		The student will be able to-----
			CO 1	Knowledge the definition, significance, branches of Biogeography.
			CO 2	Estimating the functions and major biomes in the world.
			CO 3	Contrasting the plant geography and zoo geography
			CO 4	Relating to Paleorecords and its climatic changes
Paper XII	Cultural Geography	OET 3.1		The student will be able to-----
			CO 1	Understand the definition, nature and significance of Cultural Geography.
			CO 2	Interpreting the cultural diversity, cultural hearths and world cultural realms.
			CO 3	Explaining the socio-cultural development and well being indicators.
			CO 4	Estimating cultural dimensions and diffusion of religion and ethnic traits.
				<i>The student will be able to-----</i>
Practical IX	Quantitative Techniques in Economic Geography	HCP 3.1		
			CO 1	Estimating the quantitative techniques in agricultural geography

			CO 2	Acquaint the quantitative techniques applied in marketing geography <i>The student will be able to-----</i>
Practical X	Introduction to Computer 3.2	HCP	CO 1	Understand the terms, concepts, involved in computer.
			CO 2	Explaining fundamental concepts and application of computer.
			CO 3	Determining basic facts of computer Networking
Practical XI	Applications of Computer in Geography SCP 3.1		CO 1	<i>The student will be able to-----</i> Aware with geographical data and data structure.
			CO 2	Apprise the computer in cartography
			CO 3	Explain the representation of geographic data using various computational methods by computer.
			CO 4	Prepare and design maps and graphs with the help of computer software.
Practical XII	Quantitative Techniques in Population and Settlement Geography OEP 3.1		CO 1	<i>The student will be able to-----</i> Understand the quantitative techniques in population geography
			CO 2	Acquaint the quantitative techniques applied in settlement geography.
			CO 3	Measure birth rates, death rates, Population projection by various Quantitative techniques.
			CO 4	Examine the various quantitative Techniques in Settlement Geography
<b>Semester IV</b>				
Paper XIII	Regional Planning and Development in India HCT 4.1			The student will be able to-----
			CO 1	Analyze the basic concept of Region and Regional planning
			CO 2	Illustrate the Indicators of Development in regional planning and Regional imbalances in India.
			CO 3	Examine the application of theories in Regional Planning

		CO 4	Explain the Multi-level Planning in Regional Planning <i>The student will be able to-----</i>
Paper XIV	Development of Modern Geography HCT 4.2	CO 1	Express the initial development Stage of modern Geography
		CO 2	Distinguish dichotomies in modern Geography
		CO 3	Explain contribution of eminent Geographers in the development of modern Geography.
		CO 4	Analyze recent trends in modern Geography <i>The student will be able to-----</i>
Paper XV	Political Geography HCT 4.3	CO 1	Describe the Fundamentals of Political Geography.
		CO 2	Explain themes and concepts of Political Geography.
		CO 3	Summaries Theories and Geopolitical significance of different places in political Geography.
		CO 4	Analyze recent issues in Political Geography. <i>The student will be able to-----</i>
Paper XVI	Geography of Tourism SCT 4.1	CO 1	Describe the general features of tourism
		CO 2	Illustrate the Scenario of tourism development in India.
		CO 3	Analyze the Positive and negative impacts of tourism
		CO 4	Explain tourism status of Maharashtra. <i>The student will be able to-----</i>
Practical XIII	Introduction to Remote sensing and GIS HCP 4.1	CO 1	Illustrate the structural arrangement and application of the Remote Sensing.
		CO 2	Explain the general features of GIS.
		CO 3	Summaries knowledge about Aerial photography.
Practical XIV	Application of Remote Sensing HCP 4.2		<i>The student will be able to-----</i>



		CO 1	Express knowledge about Indexing and Photogrammetry of aerial photographs.
		CO 2	Interpret the knowledge of Interpretation and mapping of aerial photographs.
		CO 3	Explain visual interpretation of satellite image.
Practical XV	Research Methodology and Project Report HCP 4.3 (MP)		<i>The student will be able to-----</i>
		CO 1	Explain fieldwork, techniques of data Collection and its Presentation.
		CO 2	Describe Importance of Sampling in Research and skill of report writing.
		CO 3	Express knowledge about format of project report.

*QMS*  
 HOOD,  
 Department of Geography,  
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 Bangalore.

Rayat Shikshan Sanstha's

**Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur**

**[Autonomous]**




**PROGRAM OUTCOMES: U.G. & P.G. HISTORY**

### **Program Outcomes for B.A. in History**

1. **Understanding Maratha History:**
  - Analyze the rise of Maratha power, its political structures, economic strategies, and societal dynamics during 1630-1680.
2. **Conflict Analysis:**
  - Evaluate the causes, events, and consequences of the Maratha Wars of Independence (1681-1707), understanding their significance in Indian history.
3. **Regional History:**
  - Develop a comprehensive understanding of the history of Solapur, focusing on its socio-economic and cultural evolution in two distinct parts.
4. **Historical Contextualization:**
  - Contextualize the introduction to Social Theory and Development (STD) within historical narratives, understanding its implications for historical interpretation.
5. **Tourism and Heritage Management:**
  - Apply concepts of historical tourism and travel management to promote and preserve historical sites, enhancing public engagement with history.
6. **Museum Studies:**
  - Acquire knowledge about museum practices, focusing on the curation and interpretation of historical artifacts and exhibitions.
7. **Literary Analysis:**
  - Engage with the Ramayana's historical and cultural significance, analyzing its influence on Indian society and literature.
8. **Cultural Studies:**
  - Study the Warkari Sampradaya, exploring its historical roots, practices, and its role in the cultural landscape of Maharashtra.
9. **Research and Analytical Skills:**
  - Develop research skills through critical analysis of historical texts, enhancing abilities to construct informed arguments and narratives.
10. **Effective Communication:**
  - Communicate historical knowledge effectively through written and oral presentations, fostering public speaking and presentation skills.

## Program Outcomes for M.A. in History

1. **Comprehensive Historical Knowledge:**
  - Demonstrate a deep understanding of key historical events, periods, and themes, particularly in Indian history and the modern world.
2. **Critical Thinking and Analysis:**
  - Develop the ability to critically analyze historical sources, interpret various perspectives, and construct well-reasoned arguments.
3. **Research Skills:**
  - Acquire proficiency in research methodologies specific to historical studies, enabling the design and execution of independent research projects.
4. **Cultural and Contextual Awareness:**
  - Gain insights into the cultural, social, and political contexts of different historical periods, fostering an appreciation of diverse historical narratives.
5. **Effective Communication:**
  - Cultivate strong written and verbal communication skills, enabling effective presentation of historical research and arguments.
6. **Interdisciplinary Approach:**
  - Integrate knowledge from related disciplines, such as anthropology, archaeology, and sociology, to enrich historical understanding.
7. **Fieldwork Experience:**
  - Apply theoretical knowledge in practical settings through field projects, enhancing real-world understanding of historical sites and contexts.
8. **Engagement with Contemporary Issues:**
  - Connect historical insights with contemporary societal issues, facilitating a deeper understanding of current events through a historical lens.
9. **Preservation of Heritage:**
  - Recognize the importance of preserving cultural heritage and historical sites, particularly through studies focused on regions like Maharashtra.
10. **Lifelong Learning:**
  - Foster a commitment to lifelong learning and intellectual curiosity, preparing graduates for further academic pursuits or careers in education, research, and heritage management.

  
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**PROGRAM SPECIFIC OUTCOMES: U.G. & P.G. HISTORY**

After studying and implementing the National Education Policy (NEP) 2020, we have discussed, reviewed, set and finalized the following program specific outcomes for B.A. & M.A. history subject.

**1. Knowledge and Understanding:**

- Demonstrate a comprehensive understanding of historical events, periods, and civilizations.
- Acquire knowledge of key historical figures, movements, and their contributions.
- Develop an understanding of the interconnections between local, regional, and global historical processes.

**2. Critical Thinking and Analytical Skills:**

- Apply critical thinking skills to analyze and interpret historical sources, texts, and artifacts.
- Evaluate different perspectives and interpretations of historical events.
- Engage in historical inquiry, formulate research questions, and apply evidence-based reasoning.

**3. Historical Research and Methodology:**

- Demonstrate proficiency in historical research methods, including locating and evaluating primary and secondary sources.
- Apply appropriate research methodologies to investigate historical questions and problems.
- Use a variety of sources to construct historical narratives and arguments.

**4. Historical Contextualization and Interpretation:**

- Situate historical events, ideas, and developments within their social, cultural, political, and economic contexts.
- Interpret and analyze the causes and consequences of historical events and transformations.
- Recognize the influence of historical factors on contemporary societies and issues.

**5. Effective Communication:**

- Communicate historical knowledge and arguments effectively through oral and written means.
- Develop proficiency in academic writing, including clear organization, logical coherence, and proper citation.


- Engage in respectful and constructive dialogue, demonstrating the ability to express ideas and opinions articulately.

#### **6. Ethical and Social Awareness:**

- Recognize and engage with ethical considerations in historical research and interpretation.
- Understand the role of history in promoting social justice, inclusivity, and cultural understanding.
- Demonstrate sensitivity to diverse perspectives and experiences in historical analysis and narrative construction.

#### **7. Digital Literacy and Technological Skills:**

- Utilize digital tools and technologies effectively for historical research, analysis, and presentation.
- Navigate digital archives, databases, and online resources for historical inquiry.
- Critically evaluate digital sources for reliability, bias, and authenticity

  
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Paper No.	Paper/Course Name	COs	Semester-I
DSC (Major) - Paper No- I	<b>Subject Code: HIST/MJ1/101</b> <b>Rise of the Maratha Power [1630 – 1680 A.D.]</b>		<i>Student will be able to:</i>
		CO 1	Students will be able to examine institutional basis of Maharashtra.
		CO 2	Students will be able to understand real history of Chhatrapati Shivaji Maharaj and his times.
		CO 3	It will help the students to understand the most important and inspiring history of medieval Maharashtra.
		CO 4	Students will be able to examine social, economic and religious condition in medieval Maharashtra.
		CO 5	Students will be able to analyse the Civil administration, military administration and judicial system during the 1630 to 1707 A.D.
		CO 6	Student will able to familiar with the virtues of Chhatrapati Shivaji Maharaj and his soldiers
		<b>COs</b>	<b>Semester-II</b>
DSC (Major)Paper No- I	<b>Subject Code: HIST/MJ1/201</b> <b>Rise of the Maratha Power [1630 – 1680 A.D.]</b>		<i>Student will be able to:</i>
		CO 1	Students will able to know administration of Chhatrapati Shivaji Maharaj.
		CO 2	Students will able to familiar with forts of Maratha period
		CO 3	Students will able to understand the gavgada of Medieval period.
		CO 4	Student will classify the pilgrims of medieval Maharashtra.
		CO 5	Students will able to analyse wari and Pandharpur.
		CO 6	Student will able to understand the spiritual values from various pilgrimage


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			<i>Student will be able to:</i>
DSC (Major) - Paper No- I  Sem I	Subject Code: <b>HIST/MJ2/101</b>  Maratha's War of Independence (1681- 1707)	CO 1	Students will be able to know the political condition of Maharashtra in Medieval Period
		CO 2	Students will be able to introduce the character of Chhatrapati Sambhaji Maharaj, Rajaram and Tarabai and his times.
		CO 3	Students will able to understand the Maratha's war of Independence.
		CO 4	To examine role of Marathas in southern Indian politics of 17 <sup>th</sup> Century.
		CO 5	Student will able to acquire knowledge of Sambhaji's Bravery against the Mughals.
		CO 6	Student will able to compare the war technique of Maratha and Mughal.
DSC (Major)- Paper II Sem II	Subject Code: <b>HIST/MJ2/202</b>  Maratha's War of Independence (1681- 1707)	CO 1	Students will able to compare the war techniques of Maratha and Mughal.
		CO 2	Students will be able to introduce the character of Chhatrapati Rajaram Maharaj and his times.
		CO 3	Students will be able to know the political condition of Maharashtra in Medieval Period
		CO 4	Students will able to understand the great contribution of Chatrapati Sambhaji Maharaja
		CO 5	Students will able to analyse the Maratha and Mughal war.
		CO 6	Students will able to familiar with the Great soldier Santaji and Dhanaji.
		CO1	Students will understand the Development of Science and Technology from Pre-historic period to Modern age.
		CO2	Student will able to know the difference between science and superstition

			<i>Student will be able to:</i>
<b>Minor</b>	<b>Subject Code: HIST/MN/101 History of Solapur Part - I</b>	CO 1	Student will able to know the importance of local history.
		CO 2	Student will able to gather knowledge history of Solapur from ancient to Modern period.
		CO 3	Student will able to understand the Solapur was the important place in Medieval Period.
		CO 4	Student will able to understand the value of land fort of Solapur in Medieval Period.
		CO 5	Student will able to familiar with Siddheshwar and his philosophy and compare with Mahatma Basveshwar.
		CO 6	The student will understand the changing socio-cultural scenarios of Solapur.
<b>Minor</b>	<b>Subject Code: HIST/MN/202 History of Solapur Part - II</b>		<i>Student will be able to</i>
		CO 1	Student will able to know the Solapur in colonial and British Period
		CO 2	Student will able to gather information the struggle for independence of Solapur.
		CO 3	Student will able to understand Marshal Law and three days Independent Solapur in Indian History.
		CO 4	Student will able absorb the value of four martyr of Solapur and his sacrifice.
		CO 5	Student will able to familiar with Land fort of Solapur.
		CO 6	Student will able to classify the tourist places of Solapur for tourism.



<b>B. A. I OE (Open Elective) Semester I</b>	<b>Subject Code: HIST/OE/101 Paper I: Introduction to STD</b>	CO3	Students become acquainted with basics of Earth and human evolution.  Students will able to understand the work of great scientist.
		CO4	Students will able to familiar with earth and Solar system.
		CO5	Students will able to gather information of Indian Atomic energy development.
		CO6	
<b>BA I OE (Open Elective) Semester II</b>	<b>Subject Code: HIST/OE/202 Paper I: Introduction to STD</b>	CO1	Students will get basic idea of human disease and Human health.
		CO2	Students will able to know the ancient Indian Medical Science.
		CO3	Students will able to know the Indian Agriculture revolution.
		CO4	Students will able to familiar with Bio Technology and Tissue Culture.
		CO5	Students will able to aware the Communication Technology its Advantage and Disadvantage
		CO6	Students will able to understand the importance of Environmental Issues.

  
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B.A.I SEM: I	Subject Code: HIST/VSC/101 Paper :I: Historical Tourism and Travel Management	CO1	To Study the definition , nature and scope of Tourism.
		CO2	To introduce the important museum in India.
		CO3	To study types and forms of Tourism.
		CO4	To study the forts, Caves and religious centre as the concern of Tourism.
		CO5	To Make awareness of the development and importance of Tourism in India.
		CO6	Student can get career opportunities on tourism and employment opportunities
B.A.I SEM: II	Subject Code: HIST/VSC/202 Paper: II: Historical Tourism and Travel Management	CO1	To know the importance of religious tourism.
		CO2	To know the cultural unity through the religious place.
		CO3	To know the importance of religion and social order.
		CO4	To Know the importance of fort in Maharashtra.
		CO5	To know the importance of forts in the formation of Swarajya.
		CO6	It will help students to know the history of forts


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<b>VEC</b> <b>(Value</b> <b>Education</b> <b>Course</b> <b>Paper: 1</b>	<b>Subject Code:</b> <b>HIST/VEC/101</b>  <b>Study of Warkari</b> <b>Sampradaya-I.</b>		<i>Student will be able to:</i>
		CO 1	Student will able to know basic concept of warkari Sampradaya
		CO 2	Student will able to identify Saint of warkari Sampradaya
		CO 3	Student will able to Analyze development of the warkari Sampradaya.
		CO 4	Student will able to evaluate contribution of warkari Sampradaya in preserving Spirituals Value.
		CO 5	Student will able to collect the information about Pilgrimages aera in Solapur.
		CO 6	Student will able to know .Literature of warkari Sampradaya
<b>VEC</b> <b>(Value</b> <b>Education</b> <b>Course</b> <b>Paper: - II</b>	<b>Subject Code:</b> <b>HIST/VEC/202</b>  <b>Study of Warkari</b> <b>Sampradaya</b>		<i>Student will be able to:</i>
		CO 1	Student will able to know basic concept of Pilgrimages aera warkari Sampradaya.
		CO 2	Students will be able to identify Wari and Economy.
		CO 3	Student will be able to find code and conduct of warkari Sampradaya.
		CO 4	Student will be able to Analyse cocept of Wari and Environment..
		CO 5	Student will be able to evaluate contribution of saint development warkari Sampradaya..
		CO 6	Student will be able to collect the information about Four Wari in Pandharpur.


			<i>Student will be able to:</i>
<b>IKS</b>	<b>Subject Code: HIST/IKS/101  Sem I  Introduction of Ramayan</b>	CO 1	Student will able to know the Ramayana's historical facts from Archeological Sources.
		CO 2	Students will able to gather the knowledge Political, Society, Culture History of Ancient India.
		CO 3	Student will able to acquire the knowledge the primitive life of ancient India and find great ideal characters of Ramayana.
		CO 4	Students will able to understand the Values in society of Ramayana Period.
		CO 5	Students will able to familiar with the ideal virtues from great character of Ramayana.
		CO 6	Students will able to compare the character of Ram and Ramayana
<b>SEC</b>	<b>Subject Code: HIST/SEC/202  Sem II  A Study of Museum</b>	CO 1	To understand the historical development and evaluation of museums.
		CO 2	Gain knowledge of different types of museums and their respective collections.
		CO 3	To comprehend the role of museum in preserving cultural heritage.
		CO 4	To analyse various cultural practices and exhibition design strategies.
		CO 5	To apply theoretical knowledge two practical assignment and case studies.
		CO 6	To reflect the cultural values through the earth effects of museums.

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Paper No.	Paper/Course Name	COs	Semester-I
DSC (Major) - Paper No- I	<b>DSC – Paper I Ancient India up to 650 A. D.</b>		<i>Student will be able to:</i>
		CO 1	As a history student will learn about the historiographical trends, interpretation of the historical sources of India as well.
		CO 2	Student will able to gather knowledge about the society, culture, religion and political history of ancient India.
		CO 3	The Student will able to acquire knowledge about Indus civilization and Vedic Period.
		CO 4	The student will understand the changing socio-cultural scenarios of India.
		CO 5	The student will become familiar with the foundation & Administration of ancient India
		<b>COs</b>	<b>Semester-II</b>
DSC (Major)Paper No- V	<b>DSC – Paper V Ancient India 650 A. D. To 1200 A. D.</b>		<i>Student will be able to:</i>
		CO 1	Student will learn and analyse about the transition from historic centuries to the early medieval.
		CO 2	Student will able delineate changes in the realm of polity and culture.
		CO 3	The Student will able to acquire knowledge the growth of vernacular languages and newer forms of art and architecture.
		CO 4	The student will understand the changing socio-cultural scenarios of ancient India.
		CO 5	The student will become familiar with the emergence and spread of Bhakti movement.

  
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Major Paper No. III	HISTORY OF WORLD (1900 A.D. - 1939 A.D.)		<i>Student will be able to:</i>
		CO 1	Student will able to familiar with modern world concept
		CO 2	Student will able to know the world politics and first world war.
		CO 3	Student will able understand the Russian revolution.
		CO 4	Student will able to analyse the first world war and its effects.
		CO 5	Student will able to familiar with the dictator Hitler, Mussolini, Kemal pasha and his policy
		<b>COs</b>	<i>Student will be able to:</i>
Major Paper No. VII-	HISTORY OF WORLD (1939 A.D. - 1970 A.D.)	CO 1	Student will able to know the causes and effects of Second world war
		CO 2	Student will able to compare first and Second world war.
Major Paper No. III	HISTORY OF WORLD (1900 A.D. - 1939 A.D.)	CO 3	Students will able to understand the contemporary world in the light of its background History.
		CO 4	Students will able to understand the struggle freedom movement after the Second World War.
		CO 5	Student will able to analyse the second world war and cold war
			<i>Student will be able to:</i>

  
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<b>Elective Paper DSC X Paper V</b>	<b>Institutions and thoughts of Maratha period</b>		<i>Student will be able to:</i>
		CO 1	to understand religious condition of Maratha history
		CO 2	To understand administration social you go and cultural history of
		CO 3	Student will able to gather knowledge about Bhakti Sampradaya
		CO 4	The Student will able to acquire knowledge of Maratha Histogramy
		CO 5	Student will learn and analyse to Maratha Dharma
		<b>COs</b>	<i>Student will be able to:</i>
<b>Elective Paper DSC Paper X</b>	<b>Institutions and thoughts of Maratha period</b>	CO 1	The student will understand the Concept of kingdom.
		CO 2	Student will able to gather knowledge about. Central administration of Maratha
		CO 3	Student will learn and analyse to Land revenue system.
		CO 4	The student will able to understand policy of Chhatrapati Shivaji Maharaj
		CO 5	The Student will able to acquire knowledge of Marathas contribution in art and architecture

  
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 Maharashtra

M.A.I SEM: I	Subject Code Hist/RM/ Research Methodology in History	CO 1	Developing interest in research among students.
		CO 2	Student will learn the stages of Historical research.
		CO 3	Students learn the importance of documents in historical research method.
		CO 4	In Historical research how to add footnotes will help.
		CO 5	It will help documents and organize documents and prepare a research plan.
		CO 6	It will help to know how important reference text is in historical research method.
M.A.I SEM: II	Subject Code Hist/FP/ Field Project		<i>Student will be able to:</i>
		CO 1	To help develop research skills in students
		CO 2	It help to know the social problems.
		CO 3	Helping to know the past
		CO 4	Cultivating the habit of self study
		CO 5	Getting opportunities for action learning in yourself.
		Co6	Develop inherent observation reporting collection presentation skills.
		COs	<i>Student will be able to:</i>

  
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Paper No.	Paper/Course Name	COs	Semester-I
<b>DSC (Major) - Paper No- I</b>	<b>Subject Code: AIHC/MJ1/101 Ancient Indian History and Archaeology</b>		<i>Student will be able to:</i>
		CO 1	Student will be able to Realized the importance of sources for study of ancient Indian history
		CO 2	Student will be able to know salient features of Harrapan civilization
		CO 3	Student will be able to Understood the History of stone Age
		CO 4	Student will be able to identify Archaeological Sources.
		CO 5	Student will be able examine social economic and religions condition Vedic period.
		CO 6	Sudents will be able to analyse the Ancient Indian Cultural Development.
		<b>COs</b>	<b>Semester-II</b>
<b>. DSC Major Paper No- II</b>	<b>Subject Code: AIHC/MJ1/201 Political &amp; cultural History of ancient India up to 650A.D.</b>		<i>Student will be able to:</i>
		CO 1	Student will be able to know about Jainism & Buddhism & their main teaching.
		CO 2	Student will be able to Understood work of Chandragupta and Maurya, Ashoka
		CO 3	Students will be able to familiar with Political condition in Deccan.
		CO 4	Students will be able to the knowledge of Post Maurya period
		CO 5	Students will be able to analyse the administration system during the Mauryan period

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<b>DSC</b> <b>Major II</b> <b>Paper No- I</b>	<b>Subject Code:</b> <b>AIHC/MJ2/10</b> <b>Idea of Bharat-I</b>		<i>Student will be able to:</i>
		CO 1	Students will be acquire knowledge regarding the primitive life and cultural status of the people of ancient India.
		CO 2	Students will able to gather knowledge about the society, culture, religion and political history of ancient India.
		CO 3	Students will able to also acquire the knowledge of changing socio-cultural scenario of India
		CO 4	Students will able to familiar with the glory of literature in ancient India.
		CO 5	The Student will able to acquire knowledge the growth of vernacular languages and newer forms of art and architecture
		CO 6	Students will able to absorbs the values from Indian Education System.
<b>. DSC</b> <b>Major II</b> <b>Paper No- II</b>	<b>Subject Code:</b> <b>AIHC/MJ2/202</b> <b>Idea of Bharat- II</b>		<i>Student will be able to:</i>
		CO 1	Students will acquire knowledge regarding Dharma and Darshan in ancient India.
		CO 2	They can gather knowledge about the society, culture, religion and political history of ancient India.
		CO 3	They will also acquire the knowledge of changing socio-cultural scenario of India
		CO 4	Students will able to familiar with the concept of Vasudhaiva Kutumbakam.
		CO 5	Students will able to understand the Ancient Indian Economy and Agriculture.
		CO 6	Students will able to compare the ancient Indian industry to Modern period.


<b>B A I – Sem I [Minor]</b>	<b>Subject Code: AIHC/MN/101  History of Pandharpur</b>		<i>Student will be able to:</i>
		CO 1	To Know the importance of Pandharpur.
		CO 2	Studying Spiritual Pandharpur.
		CO 3	Studying the pilgrimage of Pandharpur.
		CO 4	To know the antiquity of Pandharpur.
		CO 5	A Study of Reference Texts of Pandharpur in the Medieval Period.
		CO 6	Studying Pandharpur during the peshwa period.
<b>B A I – Sem II [Minor]</b>	<b>Subject Code: AIHC/MN/202  History of Pandharpur</b>		<i>Student will be able to:</i>
		CO 1	To know the importance of Yatra in Pandharpur
		CO 2	To Study the Yatra tradition in Pandharpur.
		CO 3	A Study of cultural cohesion during the Yatra period.
		CO 4	To study social movement in Pandharpur.
		CO 5	To study the temple movement in Pandharpur.
		CO 6	To study the cleanliness movement of Sant Gadge Maharaj

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Pandharpur

VSC (Vocation Skill Course)	Subject Code: AIHC/VSC/101  Study of Archaeology-I		<i>Student will be able to:</i>
		CO 1	Student will able to know basic concept of Archaeology.
		CO 2	Demonstrate knowledge of historical development of Indian archaeology.
		CO 3	Acquired knowledge apply to solve problems through practical, assignment, projects, and reading books.
		CO 4	To analyze development of human culture and compare between prehistoric and modern culture.
		CO 5	To evaluate role of Indian archaeology in preserving heritage of India.
		CO 6	To collect the information about, theory of human evolution, society, culture, religious history of ancient India
VSC (Vocation Skill Course)	Subject Code: AIHC/VSC/202  Study of Archaeology-II		<i>Student will be able to:</i>
		CO 1	Student will able to know basic concept of Archaeological Excavation
		CO 2	.Student will be able to identify artifacts of excavations.
		CO 3	Apply acquired knowledge to find Agrological sites and take part in field work.
		CO 4	To analyse contribution of archaeology in discovering of ancient Indian culture
		CO 5	.To evaluate various methods of Exploration use an archaeology
		CO 6	To Develop cultural and professional value in Archaeology.


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			<i>Student will be able to:</i>
<b>B A I – Semester II Skill Enhancement Course (SEC)</b>	<b>Subject Code: AIHC/SEC/202</b>		
		CO 1	Student will learn the knowledge about various heritage sites in Maharashtra
		CO 2	It helps them to understand the importance and significance of such Heritage of Maharashtra
		CO 3	Students will get knowledge forts from historical points of view
		CO 4	Students will get information about caves structure.
		CO 5	From the point of view of tourism, the importance of the heritage site will be realized.
		CO 6	Students will get to understand the different facts of heritage and their significance

  
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<b>VEC (Value Education Course)</b>	<b>Subject Code: AIHC/VEC/101</b> <b>Education System in Ancient Indian</b>		<i>Student will be able to:</i>
		CO 1	Student will able to know basic concept of Education in Ancient India
		CO 2	Students will able to Identify Value Higher Education system in Ancient India
		CO 3	Student will able to learn discipline, self-reliance and respect for teachers
		CO 4	Student will able to create curiosity about education in students
		CO 5	Student were taught to appreciate the balance between human beings and nature
		CO 6	Students will able to compare Education system in Vedic-Period and Post-Vedic-Period.
<b>VEC (Value Education Course)</b>	<b>Subject Code: AIHC/VEC/202</b> <b>Education System in Ancient Indian</b>		<i>Student will be able to:</i>
		CO 1	Student will able to understand of Indian Education system.
		CO 2	Student will able to learned the basic rules of humanity.
		CO 3	Student will able to e Education was imparted through monasteries and viharas.
		CO 4	Student will able to understand the moral of simple living and high thinning.
		CO 5	Student will able to Asa result many famous educational centers came in to existence.
		CO 6	Student will able to familiar with the Major Educational Centers of Ancient India.

			<i>Student will be able to:</i>
<b>IKS</b>	<b>Subject Code: AIHC/IKS/101  Sem I Introduction of Mahabharat</b>	CO 1	Students will able to know the historical fact of Māhabharata from Archaeological Sources.
		CO 2	Students will able to gather the knowledge Political, Culture History of Ancient India.
		CO 3	Student will able to understand the primitive life of ancient India and find great ideal characters of Mahabharata.
		CO 4	Students will able to absorbs the Values in society Education System of Mahabharata Period.
		CO 5	Student will classify the characters of Mahabharata.
		CO 6	Students will able to familiar with great holy book Bhagvadgeeta

  
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**Department of Marathi**

**Course and Program Outcome**

**Outcomes of UG and PG Course,**

SN	Class	Paper		Outcome
1	B.A.I	Comp	Sem 1	Understanding Marathi Prose & Poetry. Develop Reading, Writing & Communication Skills in Marathi.
			Sem2	Understanding Marathi Prose & Poetry. Develop Reading, Writing & Communication Skills in Marathi.
2	B.A.II	P.I	PSO1	Get information about Literary form specially Drama & Skill Development of Language.
			PSO2	Get information about Literary form specially Literary Essay
		III	PSO3	Develop poem Reading, Writing & understanding Skills.
			PSO4	Improve Reading, understanding capacity of Novel. Develop Communication Skills in Marathi.
		V	PSO5	Perceive the text and content of story. Develop summary writing & understanding Skills.
			PSO6	Aware social and cultural values through autobiography.
3	B.A.III	VII	PSO7	Inculcate the critical thinking about literature studies.
			PSO8	Apply the study of Marathi Linguistics & Grammar in their practical life.
		IX	PSO9	Develop competency about Ancient and Saint Literature.
			PSO10	Develop awareness about Marathi official Language, soft skills of Writing for Media.
		XI	PSO11	Understand the interrelation between Dalit - Gamin literature and society
			PSO12	Develop competency about literary forms, language and values of literature
		XIII	PSO13	Apply the study of Marathi Linguistics & Grammar in their practical life.
			PSO14	Develop competency about medieval Marathi Literature.
		XV	PSO15	Develop communication, writing skill and Governance communication among students.
			PSO16	Understand the interrelation between Feminist and Muslim literature and society.
4	M.A.I	I	PSO17	Increasing the critical attitude about literature, literary canon and Isms.
			PSO18	Students aware about Language skills. Understood communication process of Government & Governance.
		III	PSO19	Understanding the history of Marathi Literature within British and modern era.
			PSO20	Improve the Literary Method of special author.
		V	PSO21	Improve the critical ability about literature
			PSO22	Develop capacity about Media and Social Media.
		VII	PSO23	Understanding the relation between literary movement and Marathi Literature within 1920 to 1945
			PSO24	Understanding the views of life special author through the Text.
5	M.A.II	IX	PSO25	Understand origin, nature and function of language through Linguistic
			PSO26	Understand the interrelation between ancient literature and society.
		XI	PSO27	Understanding the impact of social movements in Marathi Literature from 1945 to 1980
			PSO28	Develop competency about Literary Form – Novel and application to Pre-independence novels.
		XIII	PSO29	Understand the phonetics, dialect and socio cultural study through language.
			PSO30	Understand the interrelation between modern literature and society.
XV	PSO31	Understanding the crisis of globalization through Marathi Literature.		
	PSO32	Develop competency about Literary Form – Novel and application to Post-independence novels.		



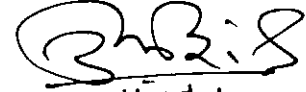
## Course Outcomes

### B.A.

- Students Develop competency in communication, reading and writing skills of Marathi language and literary form.
- Students will demonstrate an accurate understanding of linguistic concepts as- phonetics, semantics, and morphology and syntax, as well as basic pragmatic and sociolinguistic aspects.
- Develop competence about Marathi official Language, soft skills of Writing for Media.
- Develop competence about creative writing.
- Students apply the study of Marathi linguistics and the theories of literature.
- Students will develops personality through language communication skills. Demonstrate awareness of perspectives and the ability to express cultural viewpoints and accuracy in and writing.

### M.A.

- Students will articulate knowledge of major literary, artistic and cultural works through literature.
- Develop competency in Literary Forms, i.e. Marathi poetry, autobiography, novel, short story, drama & performing prose. Develop Reading, Writing & Communication Skills in Marathi. The history of Saint Literature. Literary Theories.
- 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.
- Apply the study of Marathi Linguistics & Grammar in their practical life. Job opportunities for their livelihood. Be motivated for their further education.



Head  
Dept. of Marathi  
Karmaveer Bhaurao Patil Mahavidyalaya,  
Pandharpur (Autonomous)

रयत शिक्षण संस्थेचे,  
कर्मवीर भाऊराव पाटील महाविद्यालय, पंढरपूर (स्वायत्त)  
मानव्यविद्याशाखा  
सुधारित अभ्यासक्रम (NEP २०२०)  
२०२३-२०२४  
युजी व पीजी भाग-१, मराठी विभाग - साध्यपूर्ती (Outcome)

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बी.ए. भाग-१, विषय – Major Marathi  
सत्र पहिले  
Major Marathi P- I  
कथारंग

साध्यपूर्ती (Outcome)

- १) कथा या साहित्यप्रकारचा विद्यार्थ्यांना परिचय करून देतील.

Major Marathi P – II  
व्यावहारिक मराठी

साध्यपूर्ती (outcome)

- १) स्पर्धा परीक्षांसाठी उपयुक्त असणारे निबंधलेखन कौशल्य अवगत होईल.
- २) कार्यालयीन पत्रव्यवहाराचे स्वरूप समजून घेतील.
- ३) निबंधलेखन कौशल्य अवगत करतील.

Minor Marathi P – I

पाठ्यपुस्तक : साहित्यदर्पण- भाग-१

साध्यपूर्ती (Outcome)

- १) विद्यार्थ्यांमध्ये मराठी भाषा, साहित्याची जाणीव आणि अभिरुची समृद्ध होईल.
- २) विद्यार्थ्यांमध्ये मराठी भाषा प्रभावीपणे वापरण्याची क्षमता विकसित होईल.
- ३) मराठी भाषेतील लेखक आणि त्यांच्या साहित्याचा परिचय होईल.

४) विद्यार्थ्यांमध्ये राष्ट्रीय एकात्मता, मानवी मूल्ये यांची जागृती होईल.

Open Elective Marathi  
मुद्रित माध्यमांसाठी लेखन कौशल्ये

साध्यपूर्ती (outcome)

- १) वृत्तपत्राचे स्वरूप स्पष्ट करता येईल.
- २) बातमीलेखन करता येईल.
- ३) वृत्तलेखाचे महत्त्व अधोरेखित करता येईल.
- ४) वृत्तपत्रातील वाचकांच्या पत्रव्यवहारचे स्थान स्पष्ट करता येईल.

व्यावसायिक कौशल्य अभ्यासक्रम (VSC P-I)  
मुद्रितशोधन

साध्यपूर्ती : (outcome)

- १) मुद्रितशोधन व ग्रंथ प्रकाशन ही कौशल्ये आत्मसात करतील.
- २) लेखनविषयक नियम व मुद्रितशोधन यांची उपयुक्तता समजावून घेतील.
- ३) मुद्रितशोधन कौशल्ये उपयोजनाची विविध क्षेत्रे अवगत करून घेतील.

भारतीय ज्ञान प्रणाली (Indian Knowledge System)

वारकरी संप्रदाय : स्वरूप व परंपरा

साध्यपूर्ती :

- १) भारतीय तत्त्वज्ञानाची परंपरा समजावून घेतील.
- २) भारतीय तत्त्वज्ञानातील वारकरी संप्रदायाचे स्वरूप समजून घेतील.
- ३) वारकरी संप्रदायातील अभंग, ओव्या, गौळणी व भारुड आदीचे सादरीकरण करतील.
- ४) वारकरी संप्रदायातील साहित्याचे विश्लेषण करतील.
- ५) वारकरी संप्रदायातील साहित्याचे मूल्यमापन करतील.
- ६) वारकरी संप्रदायातील तत्त्वज्ञानाचा नवीन अर्थ लावतील.

VEC - मूल्यशिक्षण आणि साहित्य

साध्यपूर्ती :

- १) विद्यार्थ्यांना मानवी मूल्यांचे आकलन होईल.
- २) मानवी मूल्ये समजून घेवून त्यांचे व्यक्तिगत जीवनात अमलबजावणी करता येईल.

- ३) मूल्यशिक्षणातून व्यक्तिगत विकास घडवून आणतील.
- ४) विद्यार्थ्यांमध्ये सामाजिक बंधुत्वाची भावना निर्माण होईल.
- ५) विद्यार्थ्यांमध्ये स्वावलंबन, श्रमप्रतिष्ठा, शिस्तप्रियता, खिलाडूवृत्ती, कर्तव्यदक्षता आणि विज्ञाननिष्ठा विकसित होईल.
- ६) विद्यार्थ्यांमध्ये वैज्ञानिक दृष्टीकोन विकसित होईल.
- ७) 'श्यामची आई' या कादंबरीतील निवडक घटकातील मूल्ये समजून घेतील.

## सत्र दुसरे

### Major Marathi P – III कवितारंग

#### साध्यपूर्ती (outcome)

- १) कविता या साहित्यप्रकारचा परिचय विद्यार्थ्यांना होईल.

### Major Marathi P – IV

#### व्यावहारिक मराठी

#### साध्यपूर्ती (outcome) :

- १) सूत्रसंचालन कौशल्य अवगत करतील.
- २) सूत्रसंचालन कौशल्याची विविध क्षेत्रे माहित होतील.
- ३) सारांशलेखन कौशल्य संपादन करतील.

### Minor Marathi P – II

#### पाठ्यपुस्तक : साहित्यदर्पण- भाग दुसरा

#### साध्यपूर्ती (Outcome)

- १) विद्यार्थ्यांमध्ये मराठी भाषा, साहित्याची जाणीव आणि अभिरुची समृद्ध होईल.
- २) विद्यार्थ्यांमध्ये मराठी भाषा प्रभावीपणे वापरण्याची क्षमता विकसित होईल.
- ३) मराठी भाषेतील लेखक आणि त्यांच्या साहित्याचा परिचय होईल.

४) विद्यार्थ्यांमध्ये राष्ट्रीय एकात्मता, मानवी मूल्ये, पर्यावरण व निसर्गविषयक जाणीव यांची जागृती होईल.

**GE/OE - अभ्यासपत्रिका क्र. २**  
**श्राव्य माध्यमांसाठी लेखन कौशल्ये**

**साध्यपूर्ती (outcome)**

- १) आकाशवाणी माध्यमाचे स्वरूप समजून घेतील.
- २) आकाशवाणीवरील उद्धोषणा लेखनाची माहिती होईल
- ३) आकाशवाणीवरील जाहिरात लेखनाचे स्वरूप समजेल.
- ४) आकाशवाणी उद्धोषणा आणि जाहिरातीचे लेखन करता येईल.

**व्यावसायिक कौशल्य अभ्यासक्रम (VSC P-II)**  
**व्यक्तिमत्त्व विकास व मराठी भाषा**

**साध्यपूर्ती : (outcome)**

- १) विद्यार्थी व्यक्तिमत्त्वाचे स्वरूप व महत्त्व लक्षात येईल.
- २) व्यक्तिमत्त्व विकासासाठी आवश्यक असणारे घटक समजून घेतील.
- ३) व्यक्तिमत्त्व विकासात भाषेचे उपयोजन करतील.

**कौशल्ये विकास अभ्यासक्रम (SEC P - I)**  
**वक्तृत्व कौशल्य**

**साध्यपूर्ती :**

- १) संभाषण कौशल्याचे स्वरूप समजून घेतील .
- २) वक्तृत्व कौशल्याचे घटक आत्मसात करतील.
- ३) वक्तृत्व कौशल्याचे प्रत्यक्ष उपयोजन करतील.

**VEC - मूल्यशिक्षण आणि साहित्य**

**साध्यपूर्ती :**

- १) मूल्यशिक्षणामुळे विद्यार्थ्यांच्या व्यक्तिमत्त्वातील शारीरिक, मानसिक, भावनिक पैलूंचा विकास होईल.
- २) विद्यार्थ्यांमध्ये सदवर्तन, सदाचार याची रुजवण करणे. त्यातून समाजातील जबाबदार व्यक्ती विकसित होईल.
- ३) विद्यार्थ्यांमध्ये देशभक्ती आणि राष्ट्रीय एकात्मतेची भावना निर्माण होईल.

४) विद्यार्थ्यांमध्ये स्वावलंबन, श्रमप्रतिष्ठा, शिस्तप्रियता, खिलाडूवृत्ती, कर्तव्यदक्षता आणि विज्ञाननिष्ठा विकसित होईल.

५) 'श्यामची आई' या कादंबरीतील निवडक पाठांच्या आधारे मानवी मूल्यांचा विद्यार्थ्यांना परिचय होईल.

## एम. ए. भाग- १ मराठी

### सत्र पहिले

अभ्यासपत्रिका (Major Mandatory) क्र. १ :

साहित्यविचार

#### Outcomes/उद्दिष्टपूर्ती

- १) साहित्य, निर्मितीप्रक्रिया, वाद, अभिरुची यांची माहिती होईल.
- २) साहित्याच्या निर्मितीप्रक्रियेचे आकलन होईल.
- ३) साहित्यकृती अभ्यासताना साहित्यविचाराचे उपयोजन करतील.
- ४) ललित, ललितेतर साहित्याचे विश्लेषण करू शकतील.
- ५) वाङ्मयीन वादाचे मूल्यमापन करतील.
- ६) साहित्यकृतींचे सर्वकष समीक्षण करता येईल.

अभ्यासपत्रिका (Major Mandatory)क्र. : २

मराठी भाषा: संवाद व उपयोजन- भाग:१

#### Outcomes/उद्दिष्टपूर्ती

- १) भाषिक संवादाचे महत्त्व, सिद्धांत स्मरणात राहतील.
- २) वक्तृत्वाचे तंत्र व कौशल्ये यांचे आकलन होईल.
- ३) वृत्तपत्रासाठी बातमी लेखन करेल.
- ४) वृत्तपत्रीय लेखांचे विश्लेषण करतील.

५) संवाद माध्यमे, घटक यांचे मूल्यमापन करतील.

६) जाहिरात निर्मिती करू शकतील.

अभ्यासपत्रिका (Major Mandatory) क्र. ३ :

आधुनिक मराठी वाङ्.मयाचा इतिहास (इ. स. १८०० ते १९२०)

Outcomes/उद्दिष्टपूर्ती

१) साहित्य, साहित्यिक यांचे कालखंडानुसार ज्ञान होईल.

२) आधुनिक मराठी वाङ्.मयाच्या इतिहासाची परंपरा आकलन होईल.

३) विशिष्ट कालखंडातील साहित्यकृतींच्या प्रभावाची कारणे शोधतील.

४) वाङ्.मयेतिहासातील साहित्यप्रकारानुसार साहित्यकृतींचे विश्लेषण करतील.

५) इ. स. १८०० ते १९२० कालखंडातील साहित्याचे मूल्यमापन करू शकतील.

६) साहित्यकृतींच्या प्रभावाबाबत नवा दृष्टिकोन मांडू शकतील.

अभ्यासपत्रिका(Major Mandatory) क्र. ४:

ग्रंथप्रकाशन व्यवहार- भाग: १

Outcomes/उद्दिष्टपूर्ती

१) ग्रंथनिर्मिती व्यवहाराच्या स्वरूपाचे ज्ञान होईल.

२) ग्रंथ छापण्याअगोदरची प्रक्रिया समजून घेतील.

३) हस्तलिखिताचे टंकलेखन, मुखपृष्ठ करणे/करून घेऊ शकतील.

४) हस्तलिखिताचे विश्लेषण करतील.

५) मुद्रण प्रक्रीयेचे मूल्यमापन करतील.

६) ग्रंथ संपादन करू शकतील.

अभ्यासपत्रिका(Major Electives)क्र. ५.२ :

## लोकसाहित्य

### Outcomes/उद्दिष्टपूर्ती

- १) लोकसाहित्याचे स्वरूप लक्षात घेतील.
- २) लोकसाहित्य संकल्पना समजतील.
- ३) लोकसाहित्य संकलन करता येईल.
- ४) लोकसाहित्य, इतर शास्त्रे यांतील सहसंबंध विश्लेषण करतील.
- ५) लोकसाहित्य संकलन, संशोधन पद्धतीचे मूल्यमापन करतील.
- ६) संकलित लोकसाहित्याचा अर्थ लावू शकतील.

### Research Methodology (Mandatory)

अभ्यासपत्रिका : RM.1

भाषा व साहित्य संशोधनाचे पद्धतिशास्त्र

### Outcomes/उद्दिष्टपूर्ती

- १) संशोधन: संकल्पना व स्वरूप लक्षात येईल.
- २) संशोधनाचे प्रयोजन व संशोधनाची वैशिष्ट्ये समजतील.
- ३) संशोधन पद्धती निश्चित करू शकतील.
- ४) भाषा संशोधनाचे विश्लेषण करतील.
- ५) साहित्य संशोधांचे मूल्यमापन करता येईल.
- ६) प्रबंध लेखन आराखडा तयार करू शकतील.

### सत्र दुसरे

अभ्यासपत्रिका (Major Mandatory) क्र.६ :

साहित्यसमीक्षा

### Outcomes/उद्दिष्टपूर्ती

- १) समीक्षेच्या प्रकारांचे ज्ञान होईल.



- २) समीक्षा संकल्पना समजेल.
- ३) समीक्षा पद्धतीचा वापर करता येईल.
- ४) समीक्षेच्या कार्याचे विश्लेषण करतील.
- ५) मराठी समीक्षा विचारांचे मूल्यमापन करू शकेल.
- ६) वृत्तपत्रीय समीक्षा लिहू शकतील.

अभ्यासपत्रिका (Major Mandatory) क्र. ७ :

मराठी भाषा: संवाद व उपयोजन भाग – २

Outcomes/उद्दिष्टपूर्ती

- १) प्रशासकीय व व्यापारी संवादाचे स्वरूप माहिती होणे.
- २) आकाशवाणी श्रुतिका, नभोनाट्य यांचे आकलन होणे.
- ३) आकाशवाणी उदघोषणा, बातमी देता येणे.
- ४) टीव्ही बातमी, मालिका यांचे विश्लेषण करता येणे.
- ५) समाजमाध्यमावरील संवादाचे मूल्यमापन करणे.
- ६) युट्युबसाठी लघुपट निर्मिती करता येणे.

अभ्यासपत्रिका (Major Mandatory) क्र. ८ :

आधुनिक मराठी वाङ्मयाचा इतिहास (इ. स. १९२० ते १९६०)

Outcomes/उद्दिष्टपूर्ती

- १) इ. स. १९२० ते १९६० कालखंडातील साहित्याचा इतिहास माहिती होईल.
- २) इ. स. १९२० ते १९६० कालखंडातील साहित्याची पार्श्वभूमी समजेल.
- ३) इ. स. १९२० ते १९६० कालखंडातील साहित्याच्या चळवळींची देऊ शकतील.
- ४) इ. स. १९२० ते १९६० कालखंडातील साहित्यकृतींचे साहित्यप्रकारानुसार विश्लेषण करू शकतील.

- ५) इ. स. १९२० ते १९६० कालखंडातील साहित्याचे मूल्यमापन करू शकतील.  
६) इ. स. १९२० ते १९६० कालखंडातील साहित्याचे सामाजिक पैलू मांडू शकतील.

अभ्यासपत्रिका (Major Mandatory) क्र. ९ :  
ग्रंथ प्रकाशन व्यवहार भाग २

Outcomes/उद्दिष्टपूर्ती

- १) ग्रंथ रचनेची प्रक्रिया लक्षात घेतील.  
२) मुद्रणपद्धती व बांधणीचे स्वरूप समजेल.  
३) कागदाचे स्वरूप निश्चित करता येईल.  
४) ग्रंथ रचनेच्या प्रक्रियेचे विश्लेषण करू शकेल.  
५) ग्रंथाचे मूल्यमापन करता येईल.  
६) ग्रंथ वितरण व्यवस्थेत सहभागी होईल.

अभ्यासपत्रिका (Major Electives) क्र. १०: २ :  
मराठी लोकसाहित्य

Outcomes/उद्दिष्टपूर्ती

- १) मराठीतील प्रयोगारूप लोककला ज्ञात होईल.  
२) मराठी लोकसाहित्य परंपरा समजून घेतील.  
३) मराठी लोकसाहित्याचे वर्गीकरण करता येईल.  
४) मराठी लोकसाहित्य अभ्यासकांच्या विचारांचे विश्लेषण करू शकतील.  
५) मराठी लोकसाहित्याचे मूल्यमापन करतील.  
६) लोककलांचे बदलत्या रूपाची नोंद घेऊ शकतील.



विभागप्रमुख  
मराठी विभाग व संशोधन केंद्र,  
कर्मवीर भाऊराव पाटील महाविद्यालय,  
पंढरपूर, जि. सोलापूर (स्वायत्त)

Rayat Shikshan Sanstha's  
**KARMAVEER BHAURAO PATIL MAHAVIDYALAYA, PANDHARPUR**  
 (Autonomous)  
 Department of Mathematics  
 2023-24  
 B.Sc. I  
 Course Outcomes (COs)

Paper No.	Paper/Course Name Course Code	COs	Semester-I
Major	Algebra MAT-101-MJ		<i>Student will be able to:</i>
		CO 1	<b>Find the inverse of matrix by using Cayley Hamilton theorem.</b>
		CO 2	Solve the given system of homogeneous and non-homogeneous linear equations.
		CO 3	Apply Demovire's theorem to find the roots of given polynomial equation .
		CO 4	Develop skill to construct groups by using different kinds of sets.

Paper No.	Paper/Course Name Course Code	COs	Semester-I
Major	Calculus MAT-101-MJ		<i>Student will be able to:</i>
		CO 1	Solve given indeterminate form and find its solution by using L'Hospital ' Rule.
		CO 2	find the series expansion of given function by using Taylor's theorem and Maclaurin's theorem.
		CO 3	determine the definite integration of trigonometric functions of higher order by using reduction formulae.
		CO 4	to find higher order partial derivatives of given homogeneous function and apply Euler's theorem.

**Course Outcomes (COs)**

Paper No.	Paper/Course Name Course Code	COs	Semester-II
Major	Geometry MAT-151-MJ		<i>Student will be able to:</i>
		CO 1	Think geometrically about the concepts like Translations, Rotations, Translations and Rotations.
		CO 2	Classify conics from general form of second-degree equations and find the equation of conics in polar co-ordinate system.
		CO 3	To determine the equation of plane which satisfies the given conditions.
		CO 4	To find the equation of sphere passing through given circle.

Paper No.	Paper/Course Name Course Code	COs	Semester-II
Major	Differential Equation MAT-152-MJ		<i>Student will be able to:</i>
		CO 1	obtain solution of differential equations of first order and first degree by using variable separable method.
		CO 2	determine the solution of homogeneous and non-homogeneous differential equations.
		CO 3	solve the given exact differential equation.
		CO 4	obtain the general solution of Linear Differential Equations with Constant Co-efficients (D) $y = X$ for repeated, non-repeated and complex roots.

	<b>CO 5</b>	solve the equation f(D)y = X where X is of the form $e^{ax}$ , $\sin(ax)$ , $\cos(ax)$ , $x^m$ , $e^{ax}V$ .

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Department of Mathematics  
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B.Sc. II  
 Course Outcomes (COs)

Paper No.	Paper/Course Name Course Code	COs	Semester-III
	<b>Differential Calculus</b> KBP-S-MAT-2305		After completion of this course, students will be able to:
		<b>CO 1</b>	determine the equations of tangent and normal to the give curve at given point.
		<b>CO 2</b>	find the angle of intersection of two curves.
		<b>CO 3</b>	understand and calculate radius of given curvature.
		<b>CO 4</b>	verify that radius of curvature of given curve satisfies given particular condition.

Paper No.	Paper/Course Name Course Code	COs	Semester-III
			After completion of this course, students will be able to:
		CO 1	define the concept of integral transform and Laplace transform
		CO 2	determine/ calculate Laplace transform of derivative, integration and periodic functions
		CO 3	check whether the Laplace transform of given function exists or not.
		CO 4	solve ordinary differential equations, partial differential equations by using Laplace transform and inverse Laplace transform.
	<b>Laplace Transform KBP-S- MAT - 2306</b>		

**Course Outcomes (COs)**

Paper No.	Paper/Course Name Course Code	COs	Semester-IV
			After completion of this course, students will be able to:
		CO 1	define and construct differential equations of the first order and higher degree, Linear Equations of the second Order, Homogeneous linear equations, total differential equation.
	<b>Differential Equations MAT-1S1-MJ</b>	CO 2	find the solution of equations solvable for p, equations solvable for x, equations solvable for y, Clairaut's equation.
		CO 3	apply method of reduction of order to find solution of given second order ODE if one integral is given.
		CO 4	solve given homogeneous differential equation by using integrating factor.

Paper No.	Paper/Course Name Course Code	COs	Semester-IV
	<b>Abstract Algebra-I</b> <b>KBP-S- MAT -2408</b>		After completion of this course, students will be able to:
CO 1		justify whether given subset is subgroup or not with	
CO 2		construct Cayley table for the group of square, rectangle, parallelogram and given different kind of groups	
CO 3		prove the given relation is equivalence relation.	
CO 4		find out all solutions of the given congruence equation.	
CO 5		express the g.c.d. of given two integers as the linear combination of those integers.	
CO 6	find all positive divisors of given integer.		

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 Course Outcomes (COs)

Paper No.	Paper/Course Name Course Code	COs	Semester-V
IX	Algebra-II KBP-S-MAT-3509		<i>Student will be able to:</i>
		CO 1	construct different examples of Integral domains, Subrings, Fields by applying their corresponding definitions.
		CO 2	apply the concept of homomorphism to study different properties of rings.
		CO 3	construct vector subspace of given vector space from given linearly independent set.
		CO 4	classify the given subset of vector space as linearly dependent or independent by using system of linear equations
		CO 5	characterize linear transformations onto, one-to-one from its corresponding matrix.
CO 6	make use of inner product and norm to study their applications in geometry.		

Paper No.	Paper/Course Name Course Code	COs	Semester-V
X	Complex Analysis KBP-S-MAT-3510		<i>Student will be able to:</i>
		CO 1	identify curves and regions in the complex plane defined by simple expressions.
		CO 2	decide when and where a given function is analytic and find it series development.
		CO 3	solve complex integrals using Residue theorem.
		CO 4	calculate Real integrals using Residue theorem.
CO 5	classify various kinds of singularities.		



**Course Outcomes (COs)**

Paper No.	Paper/Course Name Course Code	COs	Semester-V
XI	Integral Calculus KBP-S-MAT-3511		<i>Student will be able to:</i>
		CO 1	calculate the area by using limit of an infinite sum
		CO 2	solve improper integrals of first and second kind by using comparison test and some other tests.
		CO 3	compute indefinite and definite integral using by the method of substitution.
		CO 4	compare beta and gamma functions and inter relation between them.
		CO 5	use integration to calculate areas of regions in a plane, volumes of solids.
CO 6	discuss the convergence of improper integrals by using Abel's Test and Dirichlet's test.		

Paper No.	Paper/Course Name Course Code	COs	Semester-V
XII	Partial Differential Equations KBP-S-MAT-3512		<i>Student will be able to:</i>
		CO 1	construct partial differential equation by eliminating arbitrary constants, arbitrary functions.
		CO 2	find the applications of partial differential equations in various field
		CO 3	classify partial differential equations with respect to their order and linearity
		CO 4	solve first order partial differential equation by Charpit's Method.
		CO 5	develop skill to formulate physical problems as PDEs.
CO 6	classify Linear partial differential equations with constant Coefficients and find their complimentary functions and particular integrals by using various methods.		

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 Course Outcomes (COs)

Paper No.	Paper/Course Name Course Code	COs	Semester-VI
XIII	Metric Space KBP-S-MAT-3613		<i>Student will be able to:</i>
		CO 1	understand the generalization of concept distance to metric with examples.
		CO 2	apply the concept of continuity to metric space to study some important properties of that space.
		CO 3	identify the dense set, open set, closed set, totally bounded set, limit point in any metric space.
		CO 4	develop the logic to construct Complete metric space, Compact metric space, connected space and path connected space
		CO 5	construct uniformly continuous function and find the supremum and infimum of new space from given compact metric space and continuous function.
		CO 6	find the difference between connected space and path connected space.
		CO 7	study various properties connected space and path connected space.
Paper No.	Paper/Course Name Course Code	COs	Semester-VI
			<i>Student will be able to:</i>
		CO 1	apply numerical methods to find the solution of algebraic equations using different methods under different conditions.
		CO 2	find the numerical solution of system of algebraic equations.
		CO 3	apply various interpolation methods.
		CO 4	work out numerical differentiation and integration whenever routine methods are not applicable.
		CO 5	apply Trapezoidal rule, Simpson's 1/3rd rule, Simpson's 3/8th rule to calculate numerical differentiation and integration.
		CO 6	develop the approach for the application of various numerical methods, numerical differentiation and integration to solve day-to-day life problems.
XIV	Numerical Analysis KBP-S-MAT-3614		

**Course Outcomes (COs)**

Paper No.	Paper/Course Name Course Code	COs	Semester-VI
XV	Graph Theory KBP-S-MAT-3615		<i>Student will be able to:</i>
		CO 1	classify different types of graphs and discuss the difference among them.
		CO 2	Perform different operations on graphs and study their matrix representation, adjacency matrix, incidence matrix.
		CO 3	construct Planner graphs, Eulerian and Hamiltonian graphs and study their various properties.
		CO 4	use Euler's formula for planner graphs.
		CO 5	develop a technique to construct spanning trees required to cable companies.
		CO 6	study different properties and applications of planer and non-planer graphs.
		CO 7	understand relation between abstract duality and planarity of graph.

Paper No.	Paper/Course Name Course Code	COs	Semester-VI
XVI	Integral Transform KBP-S-MAT-3616		<i>Student will be able to:</i>
		CO 1	recognize the different methods of finding Laplace transforms.
		CO 2	calculate inverse Laplace by using different methods and use of first shifting theorem and second shifting theorem
		CO 3	solve the differential equations by using Laplace and inverse Laplace
		CO 4	have deep understanding of Laplace Transformation and its real-life application.
		CO 5	find the Laplace transform of derivatives, integrals and periodic functions.
		CO 6	use the method of Laplace transforms to solve initial-value problems for linear differential equations with constant coefficients.

*A. S. Patil*

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**Department of Political Science**

**B.A. - I**

**Course Outcomes (COs)**

**Year 2023-24**

**B.A. Part I**

**Semester –I**

<b>Course Outcome (Cos)</b>		
<b>Paper</b>	<b>Title of the Paper</b>	<b>Cos</b>
<b>B.A.Part- I, Semester – I [First Year]</b>		
<b>Major P. 01</b>	<b>Introduction to Political Science</b>	<ol style="list-style-type: none"> <li>1) explains meaning of Political Theory</li> <li>2) analyses elements and functions of State</li> <li>3) compare of State and Nation</li> <li>4) define concept of Sovereignty</li> </ol>
<b>Major P. 02</b>	<b>Basic Concept in Political Science</b>	<ol style="list-style-type: none"> <li>1) explains meaning of Liberalism and Democracy.</li> <li>2) explains definition Democracy.</li> <li>3) define concept of Liberty, Equality and Justice.</li> </ol>
<b>Minor P. 01</b>	<b>Introduction to Indian Constitution</b>	<ol style="list-style-type: none"> <li>1) interpret historic background and characteristics of the Indian Constitution.</li> <li>2) adapt Fundamental Rights and duties</li> </ol>
<b>Open Elective P. 01</b>	<b>Introduction to Indian Constitution</b>	<ol style="list-style-type: none"> <li>1) interpret historic background and characteristics of the Indian Constitution.</li> <li>2) adapt Fundamental Rights and duties</li> <li>3) explains meaning of directive principles and duties of citizen</li> <li>4) compare federal system and centre state relation.</li> </ol>
<b>VSC P. 01</b>	<b>Political Leadership</b>	<ol style="list-style-type: none"> <li>1) Meaning and define concept of Political Leadership.</li> <li>2) Explain the concept of political leadership.</li> <li>3) Adapt communication skill and leadership</li> </ol>
<b>IKS P. 01</b>	<b>Political Thought of Kautilya</b>	<ol style="list-style-type: none"> <li>1) Students will analyze the historical and cultural context of Kautilya's time.</li> <li>2) Detail explain of Kautilya's view on kingship and Governance.</li> </ol>

		3) Explain Kautilya's thoughts on interstate relation
<b>VEC P.01</b>	<b>Philosophy of Indian Constitution</b>	1) Explain brief history and source of Indian constitution. 2) Students will analyze fundamental rights
<b>B.A. Part- I, Semester – II [First Year]</b>		
<b>Major P.03</b>	<b>Constitutional Government in India</b>	1) Explain brief history and source of Indian constitution. 2) Students will analyze fundamental rights 3) compare of legislature and executive body of union and state 4) Explain judiciary system
<b>Major P.04</b>	<b>Indian Political System</b>	1) Explain centre-state relation. 2) analyses elements and functions of election commission 3) explain party system
<b>Minor P.02</b>	<b>Indian Democracy and Challenges</b>	1) explain meaning and features of parliamentary democracy 2) explain democratically and political issues 3) analyses challenges before democracy
<b>Open Elective P. 02</b>	<b>Indian Governance</b>	1) compares Lok sabha and Rajya sabha 2) explain executive of Parliamentary system 3) Explain judiciary system 4) analyses elements and functions of election commission
<b>VSC P. 02</b>	<b>Human Rights</b>	1) explain meaning and origin of human rights 2) compare human rights and Indian constitution rights
<b>VEC P. 02</b>	<b>Democracy, Elections and Good Governance</b>	1) explain dimensions, decentralization and challenges of democracy 2) process of local self government bodies election 3) meaning and concept of good governance
<b>SEC P. 01</b>	<b>Office Management</b>	1) explain meaning and definition of office management 2) explain functions of management

  
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**(Autonomous)**  
**Department of Political Science**  
**Programme Specific Outcomes (PSOs)**  
**Political Science**  
**B.A.I**

<b>Programme Name</b>	<b>PSOs</b>	<b>Programme Specific Outcomes</b>
<b>B.A. Political Science</b>		<i>Student will be able to:</i>
	<b>PSOs 1</b>	admit for higher education
	<b>PSOs 2</b>	place in civil service examination
	<b>PSOs 3</b>	develop their leadership skill
	<b>PSOs 4</b>	develop their carrier as political analyst
	<b>PSOs 5</b>	develop their carrier in journalism

  
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**Department of Political Science**

**M.A. - I**

**Course Outcomes (COs)**

**Year 2023-24**

<b>Course Outcome (Cos)</b>		
<b>Paper</b>	<b>Title of the Paper</b>	<b>Cos</b>
<b>MA Part- I, Semester – I [First Year]</b>		
<b>Major P. 01</b>	<b>Political Theory</b>	<ol style="list-style-type: none"> <li>1. Students are able to apply theoretical knowledge for public decision making.</li> <li>2. Students are able to evaluate state and civil society for public interest.</li> <li>3. Students are able to establish just and legitimate society.</li> <li>4. Students are able to generate political obligations in diverse society.</li> </ol>
<b>Major P. 02</b>	<b>Major Ideas in Public Administration</b>	<ol style="list-style-type: none"> <li>1. Student are able to develop the organizational structure.</li> <li>2. Student are able to build the delegation of authority chart.</li> <li>3. Student are able to create right staffing pattern.</li> <li>4. Student are able to apply the proper corporate governance structure.</li> </ol>
<b>Major P. 03</b>	<b>Modern Indian Political Thinkers</b>	<ol style="list-style-type: none"> <li>1. Ability to develop principle based thinking.</li> <li>2. Students are able to apply theoretical knowledge for public decision making.</li> <li>3. Students are able to evaluate state, political economy and civil society for public interest.</li> <li>1. Students are able to establish just and legitimate society.</li> </ol>
<b>Major P. 04</b>	<b>Constitution of Indian</b>	<ol style="list-style-type: none"> <li>1. Students will be able to apply constitutional values in their day to day life.</li> <li>2. Students will be able to understand ideological bases of Indian Constitution.</li> <li>3. Students will be able to apply constitutional values in the functioning of governmental institutions at all level.</li> <li>4. Students will get acquainted with fundamental rights &amp; they will increase societal understanding of these rights</li> </ol>

<b>Elective Paper 01</b>	<b>Comparative Government</b>	<ol style="list-style-type: none"> <li>1. Students will have better understanding of theoretical bases of Comparative Government.</li> <li>2. A better understanding of Constitutionalism will help students to protect &amp; preserve our constitution.</li> <li>3. Students will be able to have better of understanding of the importance of Separation powers.</li> <li>4. A better understanding of intricate relation between centre &amp; the states will help students to understand Federal Setup.</li> </ol>
	<b>OR</b>	
	<b>Financial Administration in India</b>	<ol style="list-style-type: none"> <li>1. Ability to develop operation of liberal ideology and get aware about civil political liberties and role of state.</li> <li>2. Become aware about different types of principle of socialism and utilize it to move towards goal of socialist society.</li> <li>3. Ability to identify challenges before nation-state in global context and discuss its solutions.</li> <li>4. Ability to demonstrate substantive knowledge of Modern Political Concept and ideologies.</li> </ol>
<b>RM Paper 01</b>	<b>Research Methodology</b>	<ol style="list-style-type: none"> <li>1. Students shall able to analyze some basic concepts of research and its methodologies.</li> <li>2. Students are able to develop various research designs and techniques.</li> <li>3. Students are able to identify various sources of information for literature review and data collection.</li> <li>4. Students are able to perform data analysis and its interpretations</li> <li>5. Students are independently able to search for, integrate and critically assess research information</li> </ol>
<b>MA Part- I, Semester – II [First Year]</b>		
<b>Major P. 05</b>	<b>Contemporary Political Issues</b>	<ol style="list-style-type: none"> <li>1. Students will be able to have theoretical understanding of major political issues.</li> <li>2. Students will be able to have better understanding of environmentalism and will contribute towards it.</li> <li>3. The correct understanding of development will help students to intervene in the development projects.</li> <li>4. On the backdrop of globalization and liberalization, students will be able to give valid inputs to create just of humane society.</li> </ol>
<b>Major P. 06</b>	<b>Political Sociology</b>	<ol style="list-style-type: none"> <li>1. Students are able to develop just state politics.</li> <li>2. Students are able to eradicate regional disparities.</li> <li>3. Students are able to solve caste discrimination.</li> <li>1. Students are able to develop perspective of political sociology</li> </ol>



<b>Major P. 07</b>	<b>Political Process in Indian</b>	<ol style="list-style-type: none"> <li>1. Students are able to create various models of Political Process.</li> <li>2. Students are able to evaluate Electoral Politics.</li> <li>3. Students are able to eradicate caste disparities.</li> <li>4. Students are able to analyze before political economy.</li> </ol>
<b>Major P. 08</b>	<b>Electoral Politics in India</b>	<ol style="list-style-type: none"> <li>1. explain meaning of Political Science and build their own understanding of politics.</li> <li>2. answer why the state plays so much central place in the discourses on politics.</li> <li>3. make a distinction between state and society.</li> <li>4. make a distinction between nation and state.</li> <li>5. know about different elements of nationalism.</li> <li>6. explain different theories of Sovereignty</li> </ol>
<b>Elective Paper 02</b>	<b>Human Rights in India</b>	<ol style="list-style-type: none"> <li>1. Students will develop the capacity to understand and protect human rights.</li> <li>2. Students will be able to apply human rights in the governmental functioning.</li> <li>3. Better understanding of human rights will facilitate students to resolve socio-economic crisis.</li> <li>4. Students will have better understanding of judicial procedure to protect human rights.</li> </ol>
	<b>OR</b> <b>Political Thought on Women</b>	<ol style="list-style-type: none"> <li>1. Students are able to eradicate inequalities.</li> <li>2. Students are able to compare parliamentary institutions in different political systems and their peculiarities</li> <li>3. Students are able to elaborate formation and functions of parliament and parliamentary control over government through its powers</li> <li>4. Students are able to compile best features in various parliamentary institutions to design and construct an ideal parliamentary institution</li> </ol>
<b>FP</b>	<b>Field Project</b>	<ol style="list-style-type: none"> <li>1. Students develop the ability to design and conduct empirical research, including data collection, analysis, and interpretation.</li> <li>2. Learn to assess and critique public policies, including their formulation, implementation, and impact on different communities.</li> <li>3. Learn techniques for effectively advocating for policy changes, including lobbying strategies, public speaking, and grassroots organizing</li> <li>4. Develop strategies for engaging with the public and fostering civic participation, including outreach campaigns and community organizing.</li> </ol>

  
**Head**

Dept. Of Political science  
K.B.P. Mahavidyalaya,  
Pandharpur (Autonomous)

Rayat Shikshan Sanstha's  
**KARMAVEER BHAURAO PATIL MAHAVIDYALAYA, PANDHARPUR**  
(Autonomous)  
Department of Political Science  
Programme Specific Outcomes (PSOs)  
Political Science  
M.A.I

Programme Name	PSOs	Programme Specific Outcomes
M.A. Political Science		<i>Student will be able to:</i>
	PSOs 1	Critical Analysis of Political Theories:
	PSOs 2	Comparative Politics Understanding
	PSOs 3	Global Perspectives on Indian Politics:
	PSOs 4	Engagement with Current Affairs
	PSOs 5	Research Methodology Proficiency:

  
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**Rayat Shikshan Sanstha's**  
**Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur.**  
**(Autonomous)**  
**Department of Statistics**  
**B.Sc. – I**  
**Course Outcomes**

**B.Sc. - I: Semester - I(Major)**

Sr. No	Paper Title	Course Outcomes
1	Descriptive Statistics - I	<ol style="list-style-type: none"> <li>1. To understand and calculate measures of central tendency</li> <li>2. Differentiate between qualitative and quantitative data.</li> <li>3. Constructions of graphs and diagrams from data and interpret the result.</li> <li>4. Compute Skewness and Kurtosis of the data.</li> </ol>
2	Elementary Probability Theory	<ol style="list-style-type: none"> <li>1. Calculate probabilities and conditional probabilities.</li> <li>2. Identify the types of events.</li> <li>3. Compute the expectation of the Univariate discrete random variable.</li> <li>4. Apply the concept of probability in real-life situations.</li> </ol>

**B.Sc. - I: Semester - II(Major)**

Sr. No	Paper Title	Course Outcomes
1	Descriptive Statistics - II	<ol style="list-style-type: none"> <li>1. Define Correlation, Regression multiple, and Partial correlation coefficients.</li> <li>2. Differentiate between dependent variables and independent variables for a simple linear regression model.</li> <li>3. Compute correlation coefficients, partial and multiple correlation coefficients.</li> <li>4. Apply simple linear regression on real-life data.</li> </ol>
2	Discrete Probability Distributions	<ol style="list-style-type: none"> <li>1. Explain the discrete probability distributions such as binomial, geometric, poisson and hypergeometric distributions.</li> <li>2. Compute mean, variance and standard deviations for discrete probability distributions.</li> <li>3. Find the expectations of the bivariate probability distributions.</li> <li>4. Evaluate the strengths and limitations of different probability models and select appropriate models for specific applications.</li> </ol>

**B.Sc. - I: (Minor)**

Sr. No	Paper Title	Course Outcomes
1	Introduction to Descriptive Statistics (Sem I)	<ol style="list-style-type: none"> <li>1. Calculate arithmetic mean, Geometric mean and Harmonic Mean</li> <li>2. Differentiate between qualitative and quantitative data.</li> <li>3. Construct graphs and diagrams from data and interpret the result.</li> </ol>
2	Elements Of Probability Theory (Sem II)	<ol style="list-style-type: none"> <li>1. Calculate probabilities and conditional probabilities.</li> <li>2. Identify the types of events.</li> <li>3. Apply the concept of probability in real-life situation</li> </ol>

**B.Sc. - I: (SFC)**

Sr. No	Paper Title	Course Outcomes
1	Data Analysis using MS-Excel -I (Sem I)	<ol style="list-style-type: none"> <li>1. Understand how to plot graphs through excel software</li> <li>2. Perform operations on Text data</li> </ol>
2	Data Analysis using MS-Excel -II (Sem II)	<ol style="list-style-type: none"> <li>1. Perform complex calculations within short time using MS-Excel</li> <li>2. Apply Statistical functions to compute statistical measures of the data</li> </ol>

**B.Sc. - I: (VSC)**

Sr. No	Paper Title	Course Outcomes
1	Basics of Statistics Using R -I (Sem I)	<ol style="list-style-type: none"> <li>1. Understand basics of R Programming.</li> <li>2. Write code to perform simple statistical analysis.</li> </ol> Syllabus:
2	Basics of Statistics Using R -II (Sem II)	<ol style="list-style-type: none"> <li>1. Perform complex calculations within short time using R</li> <li>2. Apply Statistical Functions to compute statistical measures of the data.</li> </ol>


**B.Sc. - I: (HKS)**

Sr. No	Paper Title	Course Outcomes
1	History of Ancient	<ol style="list-style-type: none"> <li>1. Get information about the Origin and development of Mathematics, Astronomy, medicine and engineering in</li> </ol>

Science, Higher Educational Institutes and Statistics in India (Sem -I)	ancient India
	2. Get information about the history of ancient higher educational institutes in India.
	3. Get information about the statistical heritage and statistical organization in India.

### B.Sc. - I: (OE)

Sr. No	Paper Title	Course Outcomes
1	Data Tabulation and Graphical Representation (Sem I)	<ol style="list-style-type: none"> <li>1. Learn various methods of organizing, summarizing, and presenting data in tabular form.</li> <li>2. Differentiate between qualitative and quantitative data and choose appropriate tabulation techniques for each type.</li> <li>3. Construct bar graphs, histograms, line graphs, pie charts, scatter plots, and other visual representations.</li> <li>4. Create and interpret cross-tabulations and contingency tables to analyse the relationships between variables.</li> </ol>
2	Basic Statistical Analysis (Sem II)	<ol style="list-style-type: none"> <li>1. Calculate the mean, median, and mode for given datasets</li> <li>2. Differentiate between different measures of central tendency</li> <li>3. Apply measures of dispersion in real-life data analysis scenarios.</li> <li>4. Interpret the correlation coefficient to understand the strength and direction of a relationship between two variables.</li> </ol>

  
 Head  
 Dept. of Statistics  
 Karmaveer Bhaurao Patil Mahavidyalaya,  
 Pandharpur (Autonomous)

# Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur

To be implemented from year 2023-2024

Department of Zoology

M.Sc.I NEP 2020

Mandatory

Paper I Biosystematics

**Learning Outcomes: After successfully completing this course, the students will be able to:**

1. Collect, analyze and preserve the specimens for taxonomic studies.
2. Use different equipments and traps for collection of sample from the field.
3. Develop understanding on the diversity of life with regard to protists, non-chordates and chordates.
4. Group animals on the basis of their morphological characteristics/ structures.
5. Construct the taxonomic keys by observing morphological characters of animals
6. Analyze the specimens and identify them by using new techniques used in modern taxonomy
7. Develop critical understanding on how animals changed from primitive cell to a complex multicellular forms
8. Examine the diversity and evolutionary history of a taxon through the construction of a basic phylogenetic/cladistics tree.
9. Understand how morphological change due to change in environment helps drive evolution over a long period of time.
10. Write scientific reports as required in the field of biosystematics.

## M.Sc. SEMESTER- I

### Paper II Tools and Techniques in Biology

Learning outcomes: After successfully completing this course, the students will be able to:

1. Understand the purpose of technique, its proper use and possible modifications or improvements.
2. Learn the theoretical basis of technique, its principle of working and its correct application.
3. Learn the construction repair and adjustment of any equipment required for a technique.
4. Learn the application and accuracy of technique.
5. Learn the maintenance laboratory equipment/tools, safety hazards and precautions.
6. Understand the technique of cell and tissue culture. Learn the preparation of solution of given percentage and molarity.
7. Understand the process of preparation of buffer. Learn the techniques of separation of amino acids, proteins and nucleic acids.
8. Understand the application of sequencing techniques in the field of molecular diagnostics.
9. Learn the basics of PCR techniques in context to current scenario of pandemics.

M.Sc. SEMESTER – I

**ELECTIVE PAPER**

**Paper III Cell and Molecular Biology**

Learning outcomes: After successfully completing this course, the students will be able to:

1. Understand the turnover of biomolecules in the cells.
2. Learn the interaction of biomolecules within the cell.
3. Learn the dynamics of cargo transport through different compartments of cell.
4. Understand the properties of transformed cells.
5. Learn the current practices used in treatments of cancer.
6. Explain the mechanism of gene expression regulation and associated abnormalities.
7. Use the inherent property of prokaryotes in the therapeutics.
8. Understand the cascade of signal transduction and its implications in gene expression



**M.Sc. SEMESTER – I**  
**ELECTIVE PAPER**  
**Paper III: Population Genetics and Evolution**

Learning outcomes: After successfully completing this course, the student will be able to:

1. Acquire an in-depth knowledge on the diversity and relationships in animal world.
2. Develop a holistic appreciation on the phylogeny adaptations in animals.
3. Enable the student to understand the evolution of universe and life.
4. Understanding on the process and theories in evolutionary biology.
5. Develop an interest in the debates and discussion taking place in the field of evolutionarybiology.
6. Understand the uses and limitations of phylogenetic trees.
7. Appreciate the complexities and difficulties of various species concepts
8. Understanding sources of new alleles and homology within populatio

# M. Sc. I Zoology

## Research Methodology

Learning outcomes: After successfully completing this course, the students will be able to

1. Research methodology and research aptitude.
2. IPR and its national and international significance.
3. Methodology to file patent and other IPRs.

# M. Sc. I Zoology (SEMESTER- II)

## Paper V Developmental Biology

**Learning outcomes: After successfully completing the course, the student will be able to :**

1. Develop critical understanding of how a single-celled fertilized egg become an embryo and then a fully formed adult by going through three important processes of cell division, cell differentiation and morphogenesis.
2. Understand how developmental processes and gene functions within a particular tissue or organism can provide insight into functions of other tissue and organisms.
3. Realize that very similar mechanisms are used in very diverse organisms; and development is controlled through molecular changes resulting in variation in the expression and function of gene network.
4. Understand that how the field of developmental biology has changed since the beginning of the 19<sup>th</sup> century with different phases of developmental research predominating at different times.
5. Examine the evolutionary history of the taxa based on developmental affinities.
6. Understand the relevance of developmental biology in medicine or its role in development of diseases.
7. Understand the role of genes in developments of animals.
8. Students can explore molecular mechanisms of development as well as importance of cell-cell interactions in the cell lineage development.

M.Sc. SEMESTER- II  
Paper VI General and Comparative Endocrinology

**Learning outcomes:**


1. Explain the neuroendocrine systems of invertebrates and vertebrates
2. Understand neurohormones and neurosecretion in chordates and non chordates
3. Classify the hormones and explain the chemical nature of hormones
4. Describe the experimental methods used in hormone studies
5. Explain development and differentiation of gonads, genital ducts, external genitalia, mechanism of sex differentiation
6. Explain the mechanism of hormonal regulation and control in animals
7. Learn about hypothalamo and hypophysial axis
8. Describe different endocrine glands and their disorders
9. Explain mechanism of hormone action
10. Understand clinical significance of hormonal regulation in the animal.
11. Perform different techniques used in the applied endocrinology

Head  
Dept. of Zoology  
Kannur Shourao Mahavidyalaya,  
Pancharpu (Panchangam)

M.Sc. SEMESTER-II  
Paper VII Environmental Physiology

Learning outcomes: After successfully completing this course, the students will be able to

1. Realize that similar physiological mechanisms are used in very diverse organisms.
2. Get a flavour of research by working on project besides improving their writing skills. It will further enable the students to think and interpret individually.
3. Undertake research in any aspects of environmental biology and physiology in future
4. Understand what makes the scientific study of animal ecology a crucial and exciting endeavour.
5. Engage in field-based research activities to understand to understand well the theoretical aspects taught besides learning techniques for gathering data in the field.
6. Analyse a biological problem, derive testable hypotheses and then design experiments and put the tests into practice.
7. Solve the environmental problem involving interaction of human and natural systems at local or global level.

  
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**Rayat Shikshan Sanstha's**  
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**PANDHARPUR**  
**(AUTONOMOUS)**  
**Department of Zoology**  
**B.Sc. I 2023-24 (NEP2020)**

**MAJOR-THEORY**

**PAPER I: ANIMAL DIVERSITY I**

**Learning Outcomes:** At the end of course, student will .....

1. Classify animal on the basis of Phylum.
2. Student will compare habitat of the animal.
3. Student will explain life history of Tapeworm and Ascaris.
4. Student will experiment with Earthworm.
5. Student will explain Water vascular system in star fish.
6. Student will explain canal system in sycon.

**MAJOR-THEORY**

**PAPER II: ANIMAL DIVERSITY II**

**Learning Outcomes:** At the end of course, student will .....

1. Classify animal on the basis of Phylum.
2. Student will demonstrate morphology of Petromyzon and myxine.
3. Student will classify animals of Pisces and Amphibia up to order
4. Student will classify animals of Reptile, Aves and Mammals up to order
5. Student will apply knowledge of snake identification in laboratory /field. Skill of identification will be developed among students
6. Student will explain general characters of Protochordates to Mammals.

**PAPER I: EVOLUTIONARY BIOLOGY**

**Learning Outcomes:** At the end of course, student will .....

1. **Explain** major events in history of life.
2. Student will **explain** theory of Lamarck, Darwin and Neo Darwinism.
3. Student will **list** the kinds of fossils.
4. Student will **interpret** the process of incompleteness of fossil record.
5. Student will **explain** the process of dating of fossil.
6. Student will **summarize** the causes of extinction.

**PAPER I: SERICULTURE**

**Learning Outcomes:** At the end of course, student will .....

1. **Explain** types of silkworm
2. Student will **demonstrate** cultivation of mulberry.
3. Student will **explain** life cycle of silkworm.
4. Student will **plan** for construction of rearing house.
5. Student will **experiment with** silkworm in rearing house.

6. Student will **analyse** cocoon on the basis of quality.

### **PAPER I: POULTRY FARMING**

**Learning Outcomes:** At the end of course, student will .....

1. **Classify** breeds of Poultry.
2. Student will **explain** feeding and housing pattern to Poultry birds.
3. Student will **identify** diseased bird on the basis of morphological symptoms.
4. Student will **understand** the principles of Poultry breeding.
5. Student will **plan** breeding farm sequence.
6. Student will **experiment with** commercial poultry breeding.

### **PAPER I: AQUARIUM FISH CULTURE**

**Learning Outcomes:** At the end of course, student will .....

1. **Define** aquarium fish as cottage industry.
2. Student will **construct** aquarium of different sizes.
3. Student will **list** the different accessories of aquarium.
4. Student will **explain** characteristics of freshwater aquarium fishes.
5. Student will **explain** characteristics of marine water aquarium fishes.
6. Student will **demonstrate** the process of fish acclimatization.

### **SEMESTER I: IKS - THEORY**

#### **PAPER I: ANIMAL CONSERVATION FROM ANCIENT TO MODERN INDIA**

**Learning Outcomes:** At the end of course, student will .....

1. **List** the important wild animals.
2. Student will **explain** history of animal conservation from 3<sup>rd</sup> Century B.C.
3. Student will **demonstrate** sacred forest and sacred groves.
4. Student will **tell** ancient methods of animal protection.
5. Student will **explain** methods of wildlife conservation.
6. Student will **list** the wild life organizations.

### **SEMESTER II: MAJOR-THEORY**

#### **PAPER III: COMPARATIVE ANATOMY OF VERTEBRATES**

**Learning Outcomes:** At the end of course, student will .....

1. **List** the soft and hard derivatives.
2. Student will **explain** comparative account of alimentary canal in vertebrates.
3. Student will **demonstrate** comparative account of respiratory organs.
4. Student will **show** difference among heart in vertebrates.

5. Student will **outline** the evolutionary changes in kidney.
6. Student will **compare** brain in vertebrates.

#### **PAPER IV: DEVELOPMENTAL BIOLOGY OF VERTEBRATES**

**Learning Outcomes:** At the end of course, student will .....

1. **Explain** the process of gametogenesis.
2. Student will **demonstrate** the process of fertilization.
3. Student will **explain** embryonic development of chick.
4. Student will **compare** structural changes in chick embryo depends on hours.

#### **PAPER II: GENETICS**

**Learning Outcomes:** At the end of course, student will .....

1. **Define** law of inheritance.
2. Student will **tell** why mendel selected Pea Plant for Experiment.
3. Student will **experiment with** law of dominance, segregation and independent assortment.
4. Student will **explain** mechanism of crossing over
5. Student will **explain** types of linkage
6. Student will **experiment with** examples of supplementary and complementary genes.

#### **PAPER II: ADVANCED FISH FARMING**

**Learning Outcomes:** At the end of course student will .....

1. **Define** freshwater fish culture and biofloc fish culture.
2. Student will **explain** the process of construction of fish farm.
3. Student will **list** the cultivable fishes
4. Student will **explain** the technical specifications of BFT.
5. **Skill of fish farming in stocking pond** will develop among students.
6. **Skill of BFT** will develop among students.

#### **PAPER II: POULTRY MANAGEMENT**

**Learning Outcomes:** At the end of course student will .....

1. Student will **explain** need of male management.
2. Student will **explain** cross breeds for parent stock.
3. Student will **apply** knowledge of broiler growth in farm.
4. **Development** of egg handling skill among students.



5. **Development** of egg preservation skill among students.
6. Student will **understand the** importance of health, hygiene and good management in Poultry farming.

## **PAPER II: FRESHWATER ORNAMENTAL FISH MANAGEMENT**

**Learning Outcomes:** At the end of course, student will .....

1. **Tell** characteristics of fish food.
2. Student will **explain** nutritional requirement of ornamental fish.
3. Student will **demonstrate** preparation of formulated fish feed.
4. Student will **explain** ornamental fish diseases and their management.
5. Student will **explain** methods of fish transportation.
6. Student will **explain** the scheme for development of ornamental fisheries.

*Hemraj*  
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