Department of Commerce

Programme Specific Outcomes (PSOs)

PSOs	Bachelor of Commerce (B. COM)
1.	To enable students to understand the basic concepts of Administration, Cost and Works Accounting, Banking and Finance, Business Laws and Practice.
2.	To acquaint the students with the basic concepts in finance and production functions of a business enterprise.
3.	To acquaint the students with basic concept & functions of HRD and nature of marketing functions of a business enterprise.
4.	To make students aware about industrial sickness.
5.	To develop the Knowledge and understanding of BPO, KPO, LPO
6.	To provide basic knowledge about various forms of business organizations
7.	To acquaint the students about business environment and its implications thereon
8.	To aware them with the recent trends in business

PSOs	Master of Commerce (M. COM)
1.	Enrich knowledge with new ideas and techniques essential for business and management.
2.	Mastery over specific skills in business
3.	Capability to acquire and handle any position in business
4.	Develop analytical, interpretative and presentation skill regarding research in business and management
5.	Acquaintance with recent trends in commerce and management

Bachelor of Commerce (B. COM) Course Outcomes (COs)

FYBCOM	**Financial Accounting-I & II**	CO1. Described various accounting concepts, Conventions & Principles And an overview of Emerging Trends in Accounting
		CO2. Acquired knowledge on Piecemeal Distribution of cash
		CO3. Acquired Knowledge on Accounts from Incomplete Records (Single Entry System)
		CO4. Acquired Knowledge on Goods & Service Tax law and Accounting.
		CO5. Students are expected to acquaint themselves with Computerised accounting, its application and utility
		CO6. Understands on how to deal with adjustments in Final accounts of Charitable Trust (Clubs, Hospitals, Libraries etc.) also about Preparation of accounting books for Charitable Trust (Clubs, Hospitals, Libraries etc.)
		CO7. Learning the Concept of intangible assets and the methods of their valuation (Goodwill, Brand, Patents, Copyright and Trademarks)
		CO8. Acquired Knowledge on accounting for Leases (Finance Lease, Operating lease, Hire purchase and installments & Royalties)
	Business Mathematics and Statistics-I & II	CO1. To understand the concept of Annuity and its applications for EMIs and Amortization
		CO2 To Understand the Concept of Shares and Mutual Funds
		CO3. To compute various measures of central tendency and measures of dispersion
		CO4. To understand the application of determinant in solving linear equations
		CO5. To understand the concept of LPP and its application in business and decision making
		CO6. To know the applications of various index number
	Marketing and Salesmanship I &II	CO1 Understand the concept of marketing and various types of market.
		CO2 Knowledge on segmentation of market and Consumer behaviour.
		CO3 Analyses of marketing mix & Product mix
		CO4 To understand Marketing philosophy and generating ideas for marketing research
	Organisational Skill Developments I & II	CO1.Develop knowledge, skills, attitudes, and values necessary for success in management and Leadership positions in a variety of business, governmental education, and non-profit settings.
		CO2.Demonstrate advanced professional and educational capabilities using appropriate interpersonal, written communication and critical thinking skills that are required for successful
		CO3.performance and progress in an organization. Acquire knowledge through the application of principles of sound research designs to critical
		CO4.evaluation of academic literature related to organizational management.
		CO5.Exhibit leadership with the ability to be a change agent within an organization and the business Community.
		CO6.Integrate appropriate technology into the leadership and management and decision-making Process.
		CO7.Demonstrate personal and professional ethical responsibility in all managerial and organizational decision making
	Business Environment and	CO1. To acquire knowledge about Concept and Aspects of Business Environment.

	Entrepreneurship I & II	CO2. To acquire knowledge about Environmental Issues , Causes and Remedies.
		CO3. To acquire knowledge about Problems of Growth.
		CO4. To acquire knowledge about Entrepreneur.
		CO5. To acquire knowledge about Entrepreneurial Behaviour
		CO6. To acquire knowledge about Institutions working for promoting entrepreneurship
		CO5. To acquire knowledge about Entrepreneurship
	Value Added Course- **1. Employability Skill Enhancement Programme**	CO1. This programme is designed to aid candidates in their preparation for recruitment through campus or outside campus. The course will enable students to be a better professional through effective communication. Students will learn skills to present themselves in an effective manner while facing interviews or similar test for placements
	2. Value Education	CO1. The course is expected to aquatint students with the core values such as physical, mental and spiritual aspects of personality, developing respect for the dignity of individual and the society, inculcation of spirit of patriotism and national integrity and developing tolerance towards understanding of different religious faiths as well. The course will help students to be a better human being and a strong pillar of society.
SYBCOM	**Business communication I & II**	CO1. To make aware of various communication types.
		CO2. Learn basic method of communication with merit and demerits
		CO3. This course develop the students' skills of interview and effective speaking
		CO4. This course will develop the proforma of letter and application of related job.
		CO5. To understand the concept, process and importance of communication
		CO6 To Provide knowledge of various media of communication.
	Corporate Accounting I & II	CO1. This course assumes the prior knowledge of basic Corporate companies accounting.
		CO2. This course realise the student Amalgamation, Absorption and External Reconstruction of companies.
		CO3.To enable the students to developskills for computerised accounting.
		CO4. This course also Knowledge of valuation of different types of shares
	Business Management I & II	CO1 Described about different management theories Taylor & Fayol.
		CO2 Acquired knowledge on scientific management F.W.Taylor.
		CO3 Understands about PODSCORB.
		CO4 Described about different concept like staffing departs mentation & delegation.
	Elements of Company Law I & II	CO1 Classification of different types of Companies.
		CO2 Understanding memorandum of association, Articles of association and Prospectus.
		CO3 Knowledge on share capital, borrowing powers of companies.
		CO4 Awareness about meeting and resolutions passed.
		CO5 Understand winding up of the company.
	Cost & Works Accounting I & II	CO1. Acquired Knowledge on Concept of Cost, Costing and Cost Accounting
		CO2. To understand different elements of cost.
		CO3. Acquired Knowledge on Issue of Material and Pricing Method for issue of Material-FIFO, LIFO
		CO4. Acquired Knowledge on Labour Cost and Payroll.

		CO5. Acquired Knowledge on Direct Cost and Introduction to JIT, CAM and ERP
	Business Administration I& II	CO1.To provide basic knowledge about various forms of business organizations
		CO2. To acquaint the students about business environment and its implications thereon
		CO3. To aware them with the recent trends in business.
	Business Laws and Practices I & II	CO1. To acquire knowledge about concept and meaning of Agricultural Produce, Broker, Commission Agent, Director, Coolee, Local Authority, Market Committee and also Establishment of National Integrated Produce market, Private market.
		CO2. To Know the introduction, Meaning & importance of Insurance, Fire Insurance, Marine Insurance Basic Principals of General Insurance, Contract Insurance. Also Described Basic Terms-Insured, Insurer, Premium, Policy.
		CO3. Impart Knowledge on Evolution of the IT ACT, Digital Signature and Electronic Signature, Electronic Governance.
		CO4. Acquire Knowledge about (The Maharashtra Shops and Establishment) its Meaning, Introduction, Registration of Establishments, Opening and Closing Hours, Wages For overtime and weekly off, Leave with pay and payment of Wages, Welfare Provision (section 1 to 26)
		CO5. Acquire Knowledge about legal recognitions to all transactions conducted through electronic data exchange, electronic communication or other means of e-commerce.
	Marketing & Salesmanship I & II	CO1. Understanding of Student will get acquainted with the basics of Marketing Management subject
		CO2. It will help students to know the preferences, likes and dislikes of the consumer which lead to the further modernization of the sales strategies by marketer
		CO3. It will help them to implement this knowledge practical situations by enhancing their skills in the field of Marketing
		CO4. To enable the students to study the effect of external environment on decision- making of the firm.
		CO5. Students will understand how Green Marketing is necessary for marketers to use resources efficiently, so that organizational objectives are achieved without waste of resources
		CO6. It will help the student to apply the various techniques and methods of E- Marketing practically.
TYBCOM	**Business Regulatory Framework I & II**	CO1 Understand the legal rules regarding contract.
		CO2 Understanding about Indian partnership Act 1932 & is Rules and regulation
		CO3 Awareness of rules regarding signing of the contract
		CO4 To understanding rights and duties of the costumers under the Consumer protection Act 1986
		CO5 Identification of rules and regulations of sale of goods act
	Auditing & Taxation I & II	CO1 Described about the concept of auditing, types and methods of auditing.
		CO2 Acquired knowledge about vouching of cash & credit transaction, verification of assets & liabilities.
		CO3 Described about preparation of different methods & auditors

		responsibility Regarding depreciation & reserves.
		CO4 Comprehend the knowledge about appointment of different types of auditor, Their rights and duties.
		CO5 Acquired knowledge about audit in EDP environment.
		CO6Impart knowledge on the provisions of Income tax law and practice and make students compute the assessment practices under the various heads of income.
		CO7 Acquire knowledge about taxation, Rates of tax & Residential status.
		CO8 Described about the provisions of salary income, House property & business or profession and their computation.
		CO9 Enhance assessment of Individuals filing of returns and PAN.
		CO10 Understand the concept of deductions under the section 80C to 80U
	Advanced Accounting I & II	CO1 Described about preparation of branch accounts, inter branch and head office Accounts
		CO2 Acquired knowledge on preparation of departmental accounts with respect to Apportionment of overheads.
		CO3. To Understand the accounting standards and financial reporting.
		CO4. Learn the banking accounting system
		CO5. To Understand the insurance type one is a life insurance and second one is general insurance.
	Cost & Works Accounting- I & II	CO1. Acquired knowledge on Overheads.
		CO2. Acquired knowledge on Accounting of Overheads.
		CO3. Acquired knowledge on Activity Based Costing.
		CO4. Acquired knowledge on Marginal Costing.
		CO5. Acquired knowledge on Budgetary Control.
	Business Laws and Practices-II	CO1. To acquire knowledge about Labour laws in India.
		CO2. To acquire knowledge about Factories Act 1948
		CO3. To acquire knowledge about Employees State Insurance Act 1948
		CO4. To acquire knowledge about Employees Provident Funds and Miscellaneous Act 1952
		CO5. To acquire knowledge about Historical Development of Company Law in India.
		CO6. To acquire knowledge about Prevention of Oppression and Mismanagement
		CO7. To acquire knowledge about Inspection, Investigations, Compromise and Arrangement.
		CO8. To acquire knowledge about Rules of Corporate Governance.
	Business Laws and Practices-III	CO1. To Acquire Knowledge about Meaning scope, Definition of Custom Act 1962 ,and also described Levy and exemption from custom duty-Valuation of goods for purpose of assessment.
		CO2. To Know the Constitutional Background & Introduction of Goods & service Tax in India, and Types of GST.
		CO3. Described the Applicability & Exemption under GST, Registration Procedure of GST.
		CO.4 To Acquire the Knowledge about various Returns and their due dates under GST laws, Offences & Penal Provisions under GST Laws.
		CO5. To understand the Legal provisions relating to declaration and payment of dividend and also acquire Knowledge about the condition's which need to be fulfilled before declaring dividend out of accumulated.

		CO6. Imparting Types of accounts to be maintained, Reporting and recasting of accounts on Courts or Tribunals order.
		CO7. To Acquire Knowledge about Appointment of Auditors, Removal, registration of auditor and giving of special notice and also Eligibility, Qualification & Disqualification, Remuneration of Auditor.
		CO8. To Know the provisions relating to the appointment of directors, number of directors, resident director, appointment of Woman director and others.
	Business Administration II	CO1. Acquire knowledge about human Resource function
		CO2. Acquire Knowledge about Recruitment and training
		CO3. Acquire Knowledge about employee career, Succession planning & Performance Appraisal Management
		CO4. To understand the concept of Marketing mix, Advertising and Modern marketing Trends
	Business Administration III	CO1.To understand the concept of finance, financial planning.
		CO2. Acquire knowledge about over capitalisation and under capitalisation
		CO3. Acquire Knowledge about plant layout and its importance
		CO4. To understand the Concept of supply chain management and factors affecting supply chain management.

Master of Commerce (M. COM) Course Outcomes (COs)

MCOM-I	**Management Accounting**	CO1. To understand the concept of Financial Accounting and its limitations
		CO2. To understand the concept of Marginal Costing, its applications, different techniques of managerial cost accounting.
		CO3. To understand the concept of budget and budgetary control, types of budgets.
		CO4. To understand the concept of Working Capital Management, determination of working capital, components of working capital
	Strategic Management	CO1. To understand the process of Strategic Management.
		CO2.To Understand the External and Internal Business Environment for effective strategy.
		CO3. Acquired knowledge on Strategy Formulation, Strategic Analysis and Strategic Planning.
		CO4. Acquired knowledge on Strategic Choices and Strategy Implementation
	Advanced Cost Accounting	CO1. To understand the inventory related treatments in Cost Accounting
		CO2. To understand the concept of Employee Cost and its relevance in the total cost of product or services.
		CO3. To understand the stages in the process of Accounting of Overheads
	Costing Technique Exam. & Responsibility Accounting	CO1. To understand the role of Budget in the process of Cost Control and Decision Making.
		CO2.To understand the concepts of Uniform Costing and Inter firm Comparison
		CO3. Skills in computation and analysis of various variances.
		CO4. Understand the relevance of Cost Accounting Data as a part of

		monitoring various segments of business
	Production and Operation Management	CO1.Students will able to explain and critically analyze the basic concepts and techniques of production and operation management
		CO2.The PG students can take the decision of investment with the help of financial statements.
		CO3.They also able to analyse the financial systems.
	Financial Management	CO1.TO Understand the concept of Financial Management
		CO2. .TO Understand the concept of Financial Statements
		CO3.To study the Capital Budgeting Techniques
		CO4. To understand the meaning and nature of Working Capital
	Financial Analysis and Control	CO1. TO understanding basics of financial analysis
		CO2. To gain knowledge of practically comparing financial results of different years and different companies.
		CO3. To understand the importance of cash liquidity in an organization. To understand the computation of cash and fund flows under operating, investing and financing categories.
		CO4. To develop the skill of appropriate use of different ratios to evaluate the financial performance of entities
	Industrial Economics	CO1. To give students an overview of industrial economics
		CO2.To make the students understand the theories of industrial location
		CO3. To help the students know about industrial productivity and efficiency
		CO4. To impart knowledge about industrial finance and its sources
	Application Cost Accounting	CO1. To conceptualise the need to integrate financial and Cost Accounts.
		CO2. To Develop understanding about PLC and VCA Concepts
		CO3. To prepare cost formats under ABC & to compare such results with the Traditional Overhead Accounting.
		CO4. Students are expected to understand the importance of Transfer Pricing & Target Costing in the changing scenario
	Cost Control and Cost System	CO1. To be able to solve problems on Marginal Costing.
		CO2. Understand pricing mechanism under global competitive environment.
		CO3. To understand the process of installation of Costing System
		CO4. To understand the relationship between cost and productivity.
	Business Ethics & Professional Values	CO1. Understanding Knowledge of established methodologies of solving ethical problems
		CO2. To knowing the Analysis of Corporate Governance and Value Based Management
		CO3. To understand the unethical issues in Finance, Marketing, IT, HRM and at workplace
	Elements of Knowledge Management	CO1. To understand the Developing Conceptual Skill and Improving analytical Ability
		CO2. To understand the Technical and Practical Oriented Skills
		CO3. To understand the Value based and Application Oriented Skills
		CO4. To understand the Administrative and Management skills
MCOM-II	**Business Finance**	CO1. Students will be able to understand the role and importance of corporate finance, and learn the calculation value of money
		CO2. Students will be able to understand the financial planning, theories of capitalization and estimation of finance need of firm.
		CO3. Students will be able to learn the sources of finance to be tapped for running business successfully

		CO4. Students will be able to apply best practice in working capital management
	Research Methodology for Business	CO1.Students will enable to get the knowledge about the areas of business research activities and capabilities of students to conduct the research in the field of business and social sciences.
		CO2.Students will acquaint in developing the most appropriate methodologies for their research studies and familiar with the art of using different research methods and techniques.
		CO3. To gain the fundamental knowledge about Methods of Data Collection and formulating questionnaire
		CO4. To understand types and structure of Research Report
	Cost Audit	CO1.Students can acquire adequate knowledge and cost audit practices and level of knowledge
		CO2. In Depth Knowledge on Rights, Duties, Responsibilities and Liabilities of Cost Auditor
		CO3. Knowledge to Conduct the Cost Audit Traditionally and Electronically
		CO4. Knowledge On Preparation of Cost Audit Report.
	Management Audit	CO1. In depth Understanding of fundamentals of Management audit
		CO2. Knowledge on Management Audit procedures
		CO3. Knowledge on different areas of Management audit
		CO4. In depth Understanding of corporate Image
	Human Resource Management	CO1. To understand the meaning, definition and concepts of HRM and get the knowledge about the approaches, functions and challenges of HRM in changing scenario of the business
		CO2. To understand the objectives of HRP and development.
		CO3. To understand the meaning and Purpose of Training, Importance, Benefits, Training process and methodology and Develop ability to compare training and aids, evaluation of training programmes
		CO4. To understand the meaning and concept of retirement, resignation, discharge, dismissals, suspension of an employee and Layoff
	Organization Behaviour	CO1. To understand the meaning, definition and concepts of OB and get the knowledge about the study and diamemsions of OB
		CO2. To understand Networks and designs followed in OB
		CO3. To make the students know about the theory of Vroom's Expectanc
		CO4. To be understand Concept and Types of Group and Team building
	Capital market and Financial Services	CO1.Students can acquire sound knowledge, concept and structure of capital market and financial services
		CO2. Students will be able to learn the importance and working of capital market
		CO3. Student will be able to understand the working of BSE and NSE, and OTCEI in detail.
		CO4. Students will be able to know the role of inter-mediatories, Mutual funds. Portfolio management
		CO5. Students will be able to know the role of SEBI in regulating stock exchanges and investors' education, financial advisors.
	Industrial Economic Environment	CO1. To understand the elements of Economic & Non-Economic environment.
		CO2. To help students to know about changes in Industrial growth and pattern after 199

		CO3. Acquaint students with the broad features of industrial policies of Government of India since independence.
		CO4. To understand progress & problems of major industries in India
	Recent Advances in Cost Auditing and Cost System	CO1. Knowledge of Application of Cost Accounting Standards
		CO2. Detail understanding of GST and Productive Audit.
		CO3. In -Depth knowledge of ERP
		CO4. Knowledge about recent trends in Cost Accounting.
	Recent Advances in Business Administration	CO1. To understand the concept of change management and get the knowledge about the approaches management change and Important feature.
		CO2. To know the best practices and way to measure the success of customer centric company
		CO3. To Know the cross-cultural Management issues
		CO4. To know the steps on innovation management and also the role of various institution for promoting.
	Project Work	CO1.To know the actual Research work of students.

Maratha Vidya Prasarak Samaj's

K.K.W. Arts, Science & Commerce College Pimpalgaon (B)

AQAR 2021-2022

Program Outcomes, Course specific Outcomes

Department of Marathi

Program outcome : B.A. (Marathi)	
1.	विशिष्ट कालखंडाच्या पार्श्वभूमीवर साहित्यामागील प्रेरणा प्रवृत्तींचे ज्ञान करून घेतो.
2.	चिकित्सक अभ्यासाची क्षमता विकसित होते.
3.	जागतिकीकरणात विविध क्षेत्रांना सामोरे जाण्यासाठी भाषिक क्षमता विकसित करतो.
4.	विविध प्रकारची लेखनकौशल्ये विकसित करण्यास मदत होते.
5.	आस्वाद घेण्याची क्षमता विकसित होते.
6.	वाङ्मयीन व्यवहार व प्रकाशन व्यवसायाचे स्वरूप समजते.
7.	समीक्षा करण्याची दृष्टी व क्षमता विकसित होते

Program outcome : M.A. (Marathi)	
1.	विद्यार्थ्याला आपल्या आवडीचे संशोधनाचे क्षेत्र निश्चित करता येते.
2.	मराठी भाषा आणि वाङ्मयाचे प्रगत ज्ञान प्राप्त होते.
3.	समकालीन वाङ्मयीन प्रवाहांचे नीट आकलन होते.
4.	वाङ्मयीन प्रश्नांविषयी विचार करण्याची जाण निर्माण होते.
5.	वाङ्मयीन आणि जीवनविषयक जाणीव प्रगल्भ होते.
6.	चिकित्सक अभ्यासाची क्षमता विकसित होते.
7.	विद्यार्थ्याला लेखनगुणांना उत्तेजन मिळते.

Program Specific outcome : B.A. (Marathi)	
1.	मराठी साहित्यातील भिन्न- भिन्न प्रवाह आणि प्रकार लक्षात घेतो..
2.	विद्यार्थ्यांच्या वाङ्मयीन अभिरूचीचा विकास व्हायला मदत होते.
3.	संशोधनाची संकल्पना ,प्रयोजने आणि विविध संशोधन पध्दती समजावून घेतो.
4.	व्यक्तिमत्त्व विकासासाठी भाषिक कौशल्ये आत्मसात करतो.
5.	प्रसारमाध्यमांसाठी विविध प्रकारची लेखन कौशल्ये आत्मसात करणे.

Program Specific outcome : M.A. (Marathi)	
1.	विशिष्ट कालखंडातील साहित्याच्या व्याप्तीबद्दल जाण निर्माण होण्यास मदत होते.
2.	विषयाच्या चिकित्सेची समज वाढण्यास मदत होते.
3.	साहित्यकृतींच्या ,साहित्यप्रकारांच्या तौलनिक अभ्यासाबाबत दिशा , व्याप्ती आणि मर्यादा यांची समज निर्माण होण्यास मदत होते, अशा अभ्यासाची क्षमता वाढते.
4.	साहित्याच्या व्यवच्छेदक लक्षणांबाबत विचारांची आणि वाङ्मयीन मूल्यमापनाची सवय लागते.

Course Outcomes of BA (Marathi)

Class	Course title	Outcome
FYBA	**सत्र एक** CC-1 A मराठी साहित्य: कथा आणि भाषिक कौशल्यविकास-**(**11021A**)**	१. मराठी साहित्य, मराठी भाषा आणि मराठी संस्कृती यांचा क्रमश: परिचय करून घेतो. २. मराठी साहित्यप्रकार – कथेसंबंधी रूची निर्माण होते. ३. वाङ्मयीन अभिरूचीचा विकास होतो. ४. मराठी साहित्यातील भिन्न भिन्न वाङ्मयीन प्रवाह व प्रकार लक्षात येतात. ५. विविध भाषिक क्षेत्रांतील कौशल्ये विकसित होण्यास मदत होते. ६. कथेच्या विविध घटक, वाटचाल आणि प्रकाराबद्दल माहिती जाणून घेतो.
	सत्र दोन मराठी साहित्य:एकांकिका आणि भाषिक कौशल्यविकास -(11022A)	१.विविध भाषिक क्षेत्रांतील कौशल्ये विकसित होण्यास मदत होते. २. मराठी साहित्यप्रकार – एकांकिकासंबंधी रूची निर्माण होते. ३.अभिनयाची आवड निर्माण होते. ४. एकांकिकेचे विविध घटक, वाटचाल आणि प्रकाराबद्दल माहिती जाणून घेतो.
SYBA	**सत्र तीन** – **सामान्यस्तर मराठी** भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : कादबंरी [CC –1 C (3)]-**(**23023**)**	१. कादबंरी या साहित्य प्रकाराचे स्वरूप, घटक, प्रकार आणि वाटचाल समजावून घेतो. २. नेमेलेल्या कादबंरीचे आकलन, आस्वाद आणि विश्लेषण समजावून घेतो. ३. भाषिक कौशल्यविकास होतो. ४. कादंबरी वाड्मयाची रुची निर्माण होते.
	सत्र चार - भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार :ललितगद्य [CC – 1 D **(3)]** -(24023)	१. ललितगद्य या साहित्य प्रकाराचे स्वरूप, घटक, प्रकार आणि वाटचाल समजावून घेतो. २. नेमलेल्या अभ्यासपुस्तकातील ललितगद्याचे आकलन, आस्वाद आणि विश्लेषण करतो. ३. ललित गद्यातील विविध लेखांच्या संदर्भाने अवांतर वाचन करतो. ४. प्रमाणभाषा आणि साहित्यभाषा यांची तुलना करतो.
SYBA	**सत्र तीन-** [DSE 1 A (3)]-आधुनिक मराठी साहित्य: प्रकाशवाटा - 23021	१. आत्मचरित्र साहित्यप्रकाराचे स्वरूप,, संकल्पना समजावून घेणे. २. आत्मचरित्र साहित्यप्रकाराच्या प्रेरणा आणि वाटचाल यांची ओळख करून घेणे. ३.ललित गद्यातील अन्य साहित्यप्रकाराच्या तलुनेत आत्मचरित्राचे वेगळेपण समजावून घेणे ४. नेमलेल्या या आत्मचरित्राचे आकलन, आस्वाद आणि विश्लेषण करणे.
	सत्र चार- [DSE 1 B (3)]- मध्ययुगीन मराठी साहित्य: व निवडक मध्ययुगीन गद्य, पद्य - 24021	१. मध्ययगुीन गद्य – पद्य साहित्यप्रकाराची ओळख करून घेणे. २. नेमलेल्या अभ्यासपुस्तकातील मध्ययगुीन गद्य - पद्याचे आकलन, आस्वाद आणि विश्लेषण करणे. ३. मध्ययुगीन साहित्यातील भाषेचा परिचय करून घेतो. ४. मध्ययुगातील गद्य- पद्य साहित्यातील आविष्कार यांचा परिचय करून घेतो.
SYBA	**सत्र तीन-** [DSE 2 A (3)] साहित्यविचार -23022	१.भारतीय आणि पाश्चात्य साहित्यविचाराच्या आधारे साहित्याची संकल्पना, स्वरुप आणि प्रयोजनविचार समजावून घेतो. २. साहित्याची निर्मितीप्रक्रिया समजावून घेतो. ३ साहित्याची भाषा आणि शैलीविषयक विचार समजावून घेतो.
	सत्र चार- [DSE 2 B(3)]- साहित्य समीक्षा- 24022	१. साहित्त्य समीक्षेची संकल्पना, स्वरूप यांचा परिचय करून घेतो. २. साहित्त्य आणि समीक्षा यांचे परस्पर संबंध समजावून घेणे व अभ्यासणे. ३ साहित्यप्रकारानसुार समीक्षेचे स्वरूप समजावून घेणे व अभ्यासणे. ४. ग्रंथ परिचय, परीक्षण व समीक्षण यातील फरक समजावून घेणे.
SYBA	**सत्र तीन-** SEC-2A(2)-कौशल्यधिष्टीत	१.प्रकाशनव्यवहार आणि संपादन यासाठी आवश्यक कौशल्ये प्राप्त करणे. २.प्रकाशनव्यवहार आणि संपादन यासाठी आवश्यक प्रशिक्षण घेणे

	अभ्यासक्रम-प्रकाशनव्यवहार आणि संपादन -23025 **सत्र चार-** SEC-2B(2) उपयोजित लेखनकौशल्ये 23026	३ प्रकाशनव्यवहार आणि संपादन यासाठी प्रात्यक्षिकासह उपयोजनाची कौशल्ये प्राप्त करणे. ४. प्रकाशन संस्था,जाहिरात संस्था, छापखाने,वृतपत्र कार्यालय, वितरण संस्था,ग्रंथ विक्री, फ्लेक्स निर्मिती केंद्र,वार्ताहर यांना भेटी देवून प्रशिक्षण घेतो. १.जाहिरात, मुलाखतलेखन आणि संपादन यासाठी आवश्यक कौशल्ये प्राप्त करतो. २ जाहिरात, मुलाखतलेखन आणि संपादन यासाठी आवश्यक प्रशिक्षण समजावून घेतो. ३ जाहिरात, मुलाखत लेखन आणि संपादन यासाठी प्रात्यक्षिकासह उपयोजनाची कौशल्ये प्राप्त करतो.
SYBA	**सत्र तीन-** मराठी भाषिक संज्ञापण कौशल्ये [MIL 2 (2)]) 23011 **सत्र चार-** नवमाध्यमे आणि समाजमाध्यमांसाठी मराठी [MIL 2 (2)]24011	१. प्रगत भाषिक कौशल्याची क्षमता विकसित करतो. २. प्रसारमाध्येमांतील संज्ञापनातील स्वरुप व स्थान स्पष्ट करतो.. ३.व्यक्तीमत्व विकास आणि भाषा यातील सहसंबंध स्पष्ट करतो. ४. लोकशाहीतील जीवनव्यवहार आणि प्रसारमाध्यमे यांचे परस्पर संबंध स्पष्ट करतो. ५. प्रसारमाध्यमांसाठी लेखनक्षमता विकिसत करून घेतो. १.संज्ञापनातील नवमाध्यमे आणि समाजमाध्यमांचे स्वरुप आणि स्थान स्पष्ट करतो. २. भाषा, जीवनव्यवहार आणि नवमाध्यमे, समाजमाध्यमांचे परस्परसंबंध स्पष्ट करतो. ३. नवमाध्यमे आणि समाजमाध्यमांसाठी लेखनक्षमता विकिसत करतो. ४. नवमाध्यमे आणि समाजमाध्यमा विषयक साक्षरता निर्माण करतो. ५. नवमाध्यमे आणि समाजमाध्यमाचा वापर आणि परिणाम याबद्दल चर्चा करतो.
TYBA	**सत्र पाच** CC-1 E भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्यप्रकार –प्रवासवर्णन (सामान्य स्तर -3)-35023 **सत्र सहा** CC-1 F भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्यप्रकार –कविता (सामान्य स्तर -3) 35024	१. आधुनिक मराठी साहित्यातील विविध साहित्यप्रकारांचा परिचय होतो. २. साहित्याबद्दलची अभिरूची विकसित होऊन कलाकृतीचा आस्वाद घेण्याची क्षमता विकसित होते. 3. भाषेचे यथोचित आकलन करून तिचा वापर करण्याची क्षमता विकसित होते. ४. निबंध व प्रवासवर्णन या साहित्यप्रकारांचे ज्ञान मिळते. ५. प्रवासवर्णन आणि मुद्रितमाध्यमांसाठी लेखन कौशल्ये आत्मसात करतो. ६. प्रवासवर्णन या साहित्यप्रकारची प्रेरणा, स्वरूप प्रयोजन, वैशिष्ट्ये, वाटचाल समजून घेतली. ७. नेमलेल्या प्रवासवर्णनाचे (देशविदेश) आकलन, आस्वाद घेतला. १.मराठी साहित्य भाषिक कौशल्यविकास आणि शासन व्यवहारातील मराठीचे स्थान समजून घेतो. २.कविता या साहित्यप्रकारचे स्वरूप, वाटचाल, प्रेरणा आणि वैशिष्ट्ये समजून घेतो. ३.नेमलेल्या अभ्यासपुस्तिकातील निवडक आकलन, आस्वाद आणि विश्लेषण करतो. ४.कविता या साहित्य प्रकारातील विविध अविष्कार व भाषा रूपांची अभ्यासपुस्तकातील कवितांच्या आधारे ओळख करतो.
TYBA	**सत्र पाच** DSE-1C(3+1) मध्ययुगीन मराठी वाड्मयाचा स्थूल इतिहास प्रारंभ ते १६०० सत्र-५-35021 **सत्र पाच** DSE-1C(3+1) मध्ययुगीन मराठी वाड्मयाचा स्थूल इतिहास इस १६०० ते इस १८१७ सत्र-५-	१.मध्ययुगीन काळातील भाषेचा अभ्यास जाणून घेतो. २. मध्ययुगीन मराठी वाड्मयाच्या इतिहासाचा अभ्यास करतो. ३. मध्ययुगीन संत,पंत, तंत परंपरा समजून घेतो. १.मध्ययुगीन काळातील भाषेचा अभ्यास जाणून घेतो. २. मध्ययुगीन मराठी वाड्मयाच्या इतिहासाचा अभ्यास करतो. ३. मध्ययुगीन संत,पंत, तंत परंपरा समजून घेतो.
TYBA	**सत्र पाच** DSE-1C(3)+1 वर्णनात्मक भाषाविज्ञान भाग-१-35022	१. भाषेचे स्वरूप व कार्य,भाषेच्या अभ्यासाचे महत्व ,भाषेच्या प्रमुख अंगांचा परिचय करून घेतो. २. भाषेचे मानवी जीवनातील कार्य व महत्त्व जाणून घेतो. ३. वेगवेगळ्या भाषाभ्यास पद्धतींचे वेगळेपण व महत्त्व जाणून घेतो.

	सत्र पाच MAR-35023 वर्णनात्मक भाषाविज्ञान भाग-२	१. मराठी भाषेचा उत्पत्तीकाल जाणून तत्कालीन भाषिक स्थित्यंतराचा परिचय होतो. २. मराठी भाषेची उच्चारण स्थाने जाणून घेतली. ३. मराठी भाषेतील शब्दांचा उच्चार शुद्ध स्वरूपात करू लागली.
TYBA	**सत्र पाच** **SEC-2 C(2)** कार्यक्रम संयोजनातील भाषिक कौशल्य भाग- १ 35025 **सत्र पाच** SEC-2 D (2) कार्यक्रम संयोजनातील भाषिक कौशल्य भाग- २ 35026	१.कार्यक्रम संयोजन कौशल्य आत्मसात करतो. २. विविध कार्यक्रमाच्या संयोजनात सहभाग घेतो. ३. विविध भाषेने, चर्चा सत्रे, गट चर्चा, मेळावे यात सहभागी होतो. ४. कार्यक्रमाची जाहिरात करण्याचे कौशल्य आत्मसात करतो. १.कार्यक्रम संयोजनाचे नियोजन करतो. २. कार्यक्रमाची आखणी, रूपरेषा आणि नियोजन करतो. ३. बातमीलेखन आणि मानपत्र लेखन कौशल्य आत्मसात करतो. ४.आभास कार्यक्रमाचे संयोजन करण्याचे कौशल्य आत्मसात करतो.

Semester I & II

SYBSc-	**सत्र तीन** उपयोजित मराठी (AECC – 2 A) 23331 **सत्र चार** मराठी साहित्य (AECC – 2 B) 24331	१ मराठी भाषा आणि साहित्य यांच्या परस्परसंबांधाची जाणीव करून दणे . २ मराठी भाषेचा परिभाषासापेक्ष आणि शैलीसापेक्ष विकास विद्यार्थ्यांच्या लक्षात आणनू देण. ३ मराठी भाषेची उपयोजनात्मक कौशल्ये विकवसत करणे १. साहित्यविषयक अभिरूची विकसित करणे. २. मराठी भाषा,व साहित्य यांच्या परस्परसांबांधाची जाणीव करून घेतो. ३. साहित्यविषयक अभ्यासातनू जीवनविषयक समज विकवसत करणे. ४. विज्ञानसाहित्यविषयक आकलनक्षमता वाढविणे.
FYBCom	**सत्र एक** भाषा, साहित्य आणि कौशल्यविकास (117) **सत्र दोन** भाषा, साहित्य आणि कौशल्यविकास (117)	१. विविध क्षेत्रांतील भाषा व्यवहाराचे स्वरूप व गरज जाणून घेतो. २.मराठी साहित्यासंबंधी रूची निर्माण होते. ३.वाङ्मयीन अभिरूचीचा विकास होतो. १. विविध व्यावसायिक व वैचारिक मूल्यांची जोपासना करतो. २.विविध भाषिक क्षेत्रांतील मराठी भाषेची उपयोजनात्मक कौशल्ये विकसित होण्यास मदत होते. ३. विविध क्षेत्रांतील कर्तृत्त्ववान व्यक्तींच्या कार्याची व विचारांची ओळख होण्यास मदत होते.

Course Outcomes of M.A (Marathi):

Semester I

Class	Course title	Outcome
M.A.-I	CC 1- भाषाव्यवहार आणि भाषिक कौशल्ये-10401	१. विविध स्तरावरील भाषिक कौशल्ये व क्षमता विकसित होते. २.भाषाव्यवहाराचे औपचारिक आणि अनौपचारिक क्षेत्रनिहाय स्वरूप समजते. ३. व्यक्तिमत्व विकासासाठी भाषिक कौशल्ये आत्मसात होतात. ४. विद्यार्थ्यांच्या वाड्मयीन व जीवनविषयक जाणिवा समृद्ध झाल्या. ५. वाचन ,आस्वादन ,विश्लेषण या प्रक्रियेतून विद्यार्थ्यांची आकलन आस्वाद क्षमता वाढली. ६. प्रासारमाध्यमांचे स्वरूप व त्यासाठी भाषाव्यवहाराचे स्वरूप लक्षात येते.
M.A.-I	CC 2- मराठी साहित्याचा इतिहास (इ.स.१८१८ ते १९२०) -10402	१. मराठीतील विविध साहित्य प्रकारांची वाटचाल,स्वरूप व ठळक विशेष जाणून घेतो. २. मराठी साहित्याच्या ऐतिहासिक परंपरेचे ज्ञान प्राप्त करून घेतो. ३.विशिष्ट कालखंडाच्या पार्श्वभूमीवर साहित्यामागील प्रेरणा व प्रवृत्तींचे ज्ञान करून घेतो.

		४. साहित्यप्रकारांच्या विकसनशील परंपरेचे स्थूल ज्ञान करून घेतो. ५.वाड्मयाचा इतिहास आणि संस्कृती याद्वारे साहित्याचा अभ्यास करण्याचे तंत्र विकसित होते.
M.A.-I	CC 3- ऐतिहासिक भाषाविज्ञान -10403	१. भाषेचे स्वरूप व कार्य, भाषेच्या अभ्यासाचे महत्व , भाषेच्या प्रमुख अंगांचा परिचय करून घेतो. २. भाषेचे मानवी जीवनातील कार्य व महत्त्व जाणून घेतो. ३. वेगवेगळ्या भाषाभ्यास पध्दतीचे वेगळेपण व महत्त्व जाणून घेतो. ४. मराठी भाषेचा उत्पत्तीकाल जाणून तत्कालीन भाषिक स्थित्यंतराचा परिचय होतो. ५.मराठी भाषेचा ऐतिहासिक परिचय होतो. ६ समाजातील विविध बोलींचा आणि विविध क्षेत्रात वापरल्या जाणाऱ्या भाषेचा अभ्यास करतो.
M.A.-I	CBOP-4 ग्रामीण साहित्य-10404	१. स्वातंत्र्यप्राप्तीनंतरच्या कालखंडात ग्रामीण साहित्याच्या निर्मितीची कारणपरंपरा समजावून घेतो. 2. ग्रामीण साहित्याचे स्वरूप व कार्य यांची चिकित्सा करतो. 3. ग्रामीण साहित्यातील विविध साहित्य प्रकारांचा विकास कसा होत गेला याचे मूल्यमापन करतो. ४.ग्रामीण साहित्याने दिलेले योगदान, त्याच्या विकासाची गती, दिशा यांची मीमांसा करतो.
Semester II		
M.A.-I	CC 5- भाषाव्यवहार आणि भाषिक कौशल्ये-20401	१. विविध स्तरावरील भाषिक कौशल्ये व क्षमता विकसित होते. २.भाषाव्यवहाराचे औपचारिक आणि अनौपचारिक क्षेत्रनिहाय स्वरूप समजते. ३. व्यक्तिमत्व विकासासाठी भाषिक कौशल्ये आत्मसात होतात. ४. प्रासारमाध्यमांचे स्वरूप व त्यासाठी भाषाव्यवहाराचे स्वरूप लक्षात येते.
M.A.-I	CC -6 मराठी साहित्याचा इतिहास (इ.स.१९२० ते २०१०) -20402	१. मराठीतील विविध साहित्य प्रकारांची वाटचाल,स्वरूप व ठळक विशेष जाणून घेतो. २. मराठी साहित्याच्या ऐतिहासिक परंपरेचे ज्ञान प्राप्त करून घेतो. ३.विशिष्ट कालखंडाच्या पार्श्वभूमीवर साहित्यामागील प्रेरणा व प्रवृत्तींचे ज्ञान करून घेतो. ४. साहित्यप्रकारांच्या विकसनशील परंपरेचे स्थूल ज्ञान करून घेतो.
M.A.-I	CC -7 समाजभाषाविज्ञान-20403	१. समाजातील भाषा उपयोजनातील विविधता,संस्कृती , भाषा आणि समाज यांचे परस्पर संबंध जाणतो. २. सामाजिक भाषाविज्ञानाची नवी संकल्पना,भूमिका व भाषेची विविध रूपे जाणतो. ३. भाषा आणि विविध क्षेत्रीय वापराचे महत्त्व समजून घेतो. ४. प्रामाणभाषा आणि परभाषा संपर्काचे स्वरूप जाणतो.
M.A.-I	CBOP- 8 दलित साहित्य-20404	१.स्वातंत्र्यप्राप्तीनंतरच्या कालखंडात दलित साहित्याच्या निर्मितीची कारणपरंपरा समजावून घेतो. २. दलित साहित्याचे स्वरूप ,वाटचाल व कार्य यांची चिकित्सा करतो. ३. दलित साहित्याने निर्माण केलेल्या विविध वाङ्मयप्राकारांच्या विकासाचे मूल्यमापन करतो. ४. दलित साहित्यातून व्यक्त होणा-या वेदनांचे व विद्रोहाचे स्वरूप जाणून घेतो.

Course Outcomes of M.A (Marathi):

Semester III

Class	Course Title	Outcome
M.A.-II	MAR-30431 प्रसारमाध्यमे आणि साहित्यव्यवहार-30401	१. संधी मिळविण्याची भाषिक क्षमता विकसित होते. २. मुद्रित माध्यमातील विविध कौशल्ये ,प्रसारमाध्यमांतील लेखन कौशल्ये आत्मसात करतो. ३. प्रसारमाध्यमांचे समाजातील महत्त्व जाणतो. ४. प्रसारमाध्यमांत सेवेची संधी आत्मसात करतो. ५. विविध कलांच्या आस्वाद प्राक्रिया जाणून घेतो.
M.A.-II	MAR-30432 साहित्य: समीक्षा आणि	१. प्रसारमाध्यमांतील लेखन कौशल्ये आत्मसात करतो. २. प्रसारमाध्यमांचे समाजातील महत्त्व जाणतो.

	संशोधन-30402	३. प्रसारमाध्यमांत सेवेची संधी मिळविण्यासाठी भाषिक क्षमता विकसित होते. ४. मुद्रित माध्यमांतील विविध कौशल्ये आत्मसात करतो. ५. विविध कलांच्या आस्वाद प्राक्रिया जाणून घेतो.
M.A.-II	MAR- 30433 नेमलेल्या मध्युगीन साहित्यकृतींचा अभ्यास - 30403	१. १६ व्या शतकातील मराठी भाषेचा अभ्यास करतो. २. प्रारंभिक मराठीतील भाषिक वैशिष्ट्ये विद्यार्थी जाणतो. ३. भक्ती चळवळीची माहिती जाणून घेतो.
M.A.-II	MAR-30434 लोकसाहित्याची मूलतत्त्वे आणि मराठी लोकसाहित्य-30405	१.लोकसाहित्याचे स्वरूप व विशेष समजून घेतो. २. लोकसाहित्याची व्यापकता व सर्वसमावेशकता समजून घेतो. ३. लोकसाहित्यातील विविध प्रकार,उपपत्ती व संप्रदाय समजावून घेतो. ४.लोकसाहित्यातील सामाजिक ,धार्मिक ,सांस्कृतिक आदी जाणिवा स्पष्ट होतात.
	Semester IV	
M.A.-II	MAR-– 40431 प्रसारमाध्यमे आणि साहित्यव्यवहार-40401	१. वृत्तसंकलनाची प्राक्रिया जाणून घेतो. २. जाहिरात लेखनाची कौशल्ये विकसित होतात. ३. विविध माध्यमांच्या पटकथा लेखनाचे कौशल्ये आत्मसात करतो. ४. विविध साहित्यप्रकारांचे स्वरूप आणि संकल्पना समजून गेतो. ५. रूपांतर कौशल्ये आत्मसात करून घेतो.
M.A.-II	MAR-40432 साहित्य: समीक्षा आणि संशोधन-40402	१. समीक्षा करण्याची दृष्टी व क्षमता विकसित होते. २. संशोधनाची संकल्पना , प्रयोजने आणि विविध संशोधन पध्दती समजावून घेतो. ३. वाङ्मयीन संशोधनाच्या विविध अभ्यासक्षेत्रांचा परिचय होतो. ४. आंतरविद्याक्षेत्रीय संशोधनाचे स्वरूप आणि महत्त्व लक्षात येते. ५. संशोधन करण्याची दृष्टी व क्षमता विकसित होते.
M.A.-II	MAR-40433 नेमलेल्या मध्ययुगीन साहित्यकृतींचा अभ्यास-40403	१. मध्ययुगीन कालखंडातील साहित्याच्या प्रेरणा प्रवृत्तींचा अभ्यास करणे. २. मध्ययुगीन वारकरी संत परंपरा व तिचे स्वरूप समजावून घेतो. ३. मध्ययुगीन कालखंडातील सामाजिक, सांस्कृतिक व धार्मिक पर्यावरण जाणून घेतो. ४. मध्ययुगीन कालखंडातील भाषा शैलीचा अभ्यास करणे .
M.A.-II	MAR– 40434 लोकसाहित्याची मूलतत्त्वे आणि मराठी लोकसाहित्य-40405	१. जागतिकीकरणातील लोकसाहित्याचे व लोककलेचे महत्त्व समजून घेतो. २. लोकसाहित्याचे इतिहास ,पुरातत्त्वशास्त्र ,मानसशास्त्र ,भाषाशास्त्र ,मानववंशशास्त्र ,धर्म शास्त्र इ. शास्त्रांशी असलेला अनुबंध समजून घेतो. ३. मराठी लोकसाहित्याचे विविध कलाविष्कार जाणतो. ४. मराठी लोकसाहित्य अभ्यासकांची परंपरा जाणतो.

Maratha Vidya Prasarak Samaj's

Karmveer Kakasaheb Wagh Arts, Science and Commerce College

Pimpalgaon Baswant Tal- Niphad, Dist- Nashik

Department of History

Programme Specific Outcomes (POs)-

Special Subject History

On completion of the BA with History special, students will be able to...

PSOs	Programme Specific Outcomes
1	Understand the basic themes, concepts, chronology and the Scope of Indian History.
2	Acquaint with range of issues related to Indian History that span distinct eras.
3	Understand the history of countries other than India with comparative approach.
4	Think and argue historically and critically in writing and discussion.
5	Prepare for various types of Competitive Examinations.
6	Critically recognize the Social, Political, Economic and Cultural aspects of History.

On completion of the MA with History students will be able to....

PSOs	Programme Specific Outcomes
1	Developed the capacity among the students to explain why and how historical events occurred.
2	Students understood the historical method of study.
3	Students acquainted with the various ways of collecting evidences from historical sources.
4	Developed critical thinking and understanding of historiography among the students.
5	Acquired the historical knowledge of the India and 20th Century Modern World.
6	Students became familiar with multiple cultures and its diversity in the world.
7	Developed awareness of contemporary historical debates among the students.
8	Acquired the research skills in history.

Course Outcomes (CO)-UG

Department of History

Class	Subject	Course Outcomes
F.Y. B.A.	**Semester-I** **Early India: From Prehistory to the Age of the Mauryas**	1.Students acquainted with History of Early India . 2.They understood history of early India from the prehistoric times to the age of the Mauryas. 3.Students came to know the factors and forces behind the rise, growth and spread of civilization and culture of India along with the dynastic history . 4. Students understood the contribution of Early Indians to polity, art, literature, philosophy. 5. The Syllabus helped a lot to foster the spirit of enquiry among the students by studying the major developments in early Indian history.
	Semester-II **Early India : Post Mauryan Age to the Rashtrakutas**	1.Students acquainted the history of India after the Mauryas 2.They understood the developments in early India after the Mauryas, which finally led to the transition to medieval India. 3.Students introduced with introducing the students to the developments in different parts of India through a brief study of regional kingdoms up to the tenth century C.E. 4. Students came to know the consequences of the foreign invasions particularly on the polity, economy, society and art and architecture. 5. The Syllabus helped a lot to instill the spirit of enquiry among the students.
S.Y.B.A.	**Semester -III-** **History of the Marathas: (1630-1707)**	1. Student will develop the ability to analysesources for Maratha History. 2. Student will learn significance of regional history and political foundation of the region. 3. It will enhance their perception of 17th century Maharashtra and India in context of Maratha history. 4. Appreciate the skills of leadership and the administrative system of the Marathas.
	Semester -III- **Medieval India - Sultanate Period**	1. Provides examples of sources used to study various periods in history. 2. Relates key historical developments during medieval period occurring in one place with another. 3. Analyses socio - political and economic changes during medieval period 4. Estimate the foreign invasion and the achievement of rulers
	Semester -III- **Glimpses of the**	1. It will enable students to develop the overall understanding of the Modern World.

	Modern World - Part I	2. The students will get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World. 3. It will enhance their perception of the history of the Modern World. 4. It will enable students to understand the significance of the intellectual, economic, political developments in the Modern World.
	Semester III- 2) Art and Architecture of Early India (From 3000 B.C. to 12th Century A.D.)	1. Students will get an overall understanding of the emergence and development of the art and architecture in Early India. 2. They will understand the emergence of the Pottery, Terracotta figures, Ornaments, Town Planning, preparation of seals and coins. 3. They will have an understanding of the art and architecture in early India.
	Semester -IV- History of the Marathas: (1707-1818)	1. Students will be able to analyze the Marathas policy of expansionism and its consequences. 2. They will understand the role played by the Marathas in the 18th century India. 3. They will be acquainted with the art of diplomacy in the Deccan region. 4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy.
	Semester -IV- Medieval India: Mughal Period	1. Draws comparisons between policies of different rulers. 2. Understanding Role of Akbar in the consolidation of Mughal rule in India. 3. Understand Aurangzeb's conflict with Rajputas, Maratha and weakening Mughals age. 4. Analyses factors which led to the emergence of new religious ideas and movements (bhakti and Sufi)
	Semester -IV- Glimpses of the Modern World - Part II	1. It will enable students to develop the overall understanding of the Modern World. 2. The students will get acquainted with the major nationalist movements, the World War II and its consequences, the Cold War and its Consequences. 3. It will enhance their overall perception of the history of the Modern World. 4. It will enable students to understand the significance of the strategic political developments in the Modern World.
	Semester IV- 6)Medieval Indian Arts and Architecture(1206 To 1857)	1. Students will get an overall understanding of the development of the Medieval Art and Architecture. 2. They will understand the changing patterns of the Art and Architecture during the Medieval India. 3. They will have an understanding of the impact of Persian Art on Islamic Art and Architecture in

		Medieval India.
T.YB.A.	**Semester V: Course Title: - Indian National Movement (1885-1947)**	1. It will enable students to develop an overall understanding of Modern India. 2. It will increase the spirit of healthy Nationalism, Democratic Values and Secularism among the Students. 3. Students will understand various aspects of the Indian Independence Movement and the creation of Modern India.
	Semester –V Course Title: Introduction to Historiography	1. Students will be introduced to the information and importance of Historiography. 2. Students will be introduced to the different Methods and Tools of data collection. 3. Students can study the interdisciplinary approach of History. 4. Students will learn about the usefulness of History in the 21st century, its changing perspectives, the new ideas that have been invented, and the importance of History in a competitive World. 5. This curriculum develops Research ability and process of Research Methodology in History.
	Semester –V Course Title: Maharashtra in the 19th Century	1. Student will develop the ability to analyse sources for 19th century Maharashtra History. 2. Student will learn significance of Regional History and Socio- religious reformism foundation of the region. 3. It will enhance their perception of 19th Century Maharashtra. 4. Appreciate the skills of leadership and the Socio-religious System of the Maharashtra.
	Semester V -SEC -:10 Research Paper Writing	1. Students will be introduced to the information and importance of Historiography. 2. Students can study the interdisciplinary approach History. 3. This curriculum Will help to develop Research ability and Process of Research Paper Writing in History.
	Semester VI: Course Title: - India After Independence-(1947-1991)	1. It will enable students to develop an overall understanding of the Contemporary India. 2. To increase the spirit of healthy Nationalism, Democratic Values and Secularism among the students. 3. Students will understand various aspects of India's domestic and foreign policies that shaped Post-Independence India.
	Semester –VI, Course Title: Applied History	1. Students will be introduced to the information and importance of applied history. 2. Student will learn about the Historical significance of Archaeology and Archives and opportunities in the field of Archaeology and Archives. 3. Through this course, students will be informed about

		the opportunities in the field of Media, Museums. 4. Students will learn about the usefulness of history in the 21st Century, its changing Perspectives, the new ideas that have been invented, and the importance of History in a Competitive World.
	Semester -VI, Course Title: History of Maharashtra in the 20th Century	1. Student will develop the ability to analyses sources for 20th Century Maharashtra History. 2. Student will learn significance of regional history and Socio- Religious Reformism foundation of the region. 3. It will enhance their Perception of 20th Century Maharashtra. 4. Appreciate the skills of leadership and the Socio-Religious System of the Maharashtra.
	Semester VI: 13 Course Title: - Archaeology	1. Students will learn to understand the definition, aims and scope of Archaeology so as to understand its applications in interpreting the human past. 2. They will be able to understand the nature of the archaeological record and the unique role of science in archaeology. 3. They will have an overall understanding of the Archaeology.

Course Outcomes (CO)- PG

M.A.-I SEM - I	**CC - 1: History: Theory and Method**	1.They understood history and its forces, they able to interrogate existing paradigms and challenge the outdated. 2.Students acquainted with basic concept of research and they can formulating hypotheses and 3.Developed Critique and broad frames of interaction with other social sciences and attain certain level of Interdisciplinary approach.
	CC - 2: Evolution of Ideas and Institutions in Early India	1. Students came to know the social, economic and institutional bases of early India 4. Students understood the contribution of Early Indians to polity, art, literature, philosophy. 2. The Syllabus helped a lot to understand the early Indian history which is crucial to understand Indian history as a whole.
	CC 3: Maratha Polity	1. The Syllabus helped a lot to to study the administrative system of the Marathas in an analytical way. 2. Students acquainted with the nature of Maratha Polity, to understand basic components of the Maratha

		administrative structure. 3. They can able to understand the basic concepts of the Maratha polity.
	EC-2: Early History of Maharashtra – Satavahana to Yadava	1. Students came to know the early historical period in Maharashtra . 2. Students understood the distinctive features of the developments in Maharashtra, 3 The Syllabus helped a lot to link the broader developments in the Deccan and in the rest of India.
SEM.-II	**CC - 4: Approaches to History**	1.Stduents became aware with the various approaches to the discipline of History. 2. As the paper includes the roots in Indian history students came to know a historical review of the salient approaches that have developed over the last few centuries. 3. Students are well acquainted with the same set of historical source materials and so they are able to interpret it in different ways depending upon the approach one takes in studying them
	CC-5: Ideas and Institutions in Medieval India	1. Students analyzed the nature of medieval Indian society, economy, state formations, and the main religious currents of the time. 2. They also understood the nature of society, and the problems of the challenge to that society, through colonialism, at a later stage.
	CC-6: Socio-Economic History of the Marathas	1.Students came to know the socio-economic history of the Marathas in an analytical Way. 2.They acquainted with the student with the components of social structure and their functions, to understand the relationship between religion, caste, customs, traditions, class in 17th and 18th century Maratha Society 3. Students are able to understand aspects of economic life, to trace the determinants of changes in social and economic life.
	EC-09: Marathas in 17th and 18th Century: Power Politics	1. Students can able to analyzed the role played by the Marathas in the context of India , and changing nature of Maratha State. 2.They understood the Maratha expansionism and its significance in various spheres.
M.A.-II SEM-III	**CC-7: Cultural History of Maharashtra**	1. Student interpreted the cultural manifestations across historical memory which have contributed to the creation of the geopolitical region of Maharashtra.
	CC-8: Intellectual History of Modern World	1. Students became aware with the concepts that are used in history. 2.They acquainted with the intellectual activity that played an important role in shaping events; the

		transition from medieval to modern times.
	CC-9: Economic History of Modern India	1. Students are introduced with structural and conceptual changes in Indian economy after coming of the British. 2.Students also became aware with the exploitative nature of the British rule. 3. They also understood the process of internalization by Indians of new economic ideas, principles and practices.
	EC- East Asia: Japan (1853-2000)	1. Students came to know Japanese history especially after the opening up of Japan. 2. They also understood Japan's modernization and its impact. 3. They realized post World War II developments and Japan's role in world politics.
SEM.-IV	**CC-10: Modern Maharashtra: A History of Ideas (1818-1960)**	1. Students explored the ideas which have given Maharashtra its unique character. 2. students received specialized knowledge of the Intellectual History of Maharashtra based on a critical reading of the original textual sources.
	CC-11: Debates in Indian Historiography	1. Students introduced with some of the issues that have been debated by historians. 2. They also came to know some perspectives with reference to India.
	CC-12: World after World War II (1945-2000)	1. Students are acquainted with the post-World War II scenario. 2.They also understood contemporary world from the historical perspective.
	EC- History of Modern India (1857-1971)	1. Students analyzed the history of 'Modern India' from an analytical perspective; They become aware of the multi-dimensionality of Modern India. 2. Students came to know the ideas, institutions, forces and movements that contributed to the shaping of Indian modernity. 3. They also acquainted with various interpretative perspectives; to help them in articulating their own ideas and views leading to research orientation.

Maratha Vidya Prasarak Samaj's, Nashik
K.K.Wagh Arts, Science and Commerce College, Pimpalgaon (B)
Dist-Nashik
Department of Hindi
Academic Year: 2020-21

Program Outcomes (BA Hindi)

Sr. No.	Outcomes
1	छात्रों ने हिंदी भाषा का ज्ञान आत्मसात किया।
2	छात्र दैनिक जीवन में हिंदी भाषा (श्रवण, संवाद, वाचन और लेखन) का समुचित व्यवहार करने लगे।
3	छात्र साहित्य की विभिन्न विधाओं से परिचित होकर उनमें भाषिक, साहित्यिक मूल्य विकसित हुए।
4	छात्रों में साहित्य की विभिन्न विधाओं के अध्ययन से जीवन दृष्टिकोण विकसित हुआ।
5	छात्रों को हिंदी विशेष स्तर (स्नातक) अध्ययन के बाद रोजगार के अनेक अवसर उपलब्ध हुए।
6	छात्रों को स्नातक उपाधि प्राप्त करने के पश्चात विभिन्न व्यावसायिक पाठ्यक्रमों के अध्ययन का अवसर मिला।

Maratha Vidya Prasarak Samaj's, Nashik
K.K.Wagh Arts, Science and Commerce College, Pimpalgaon (B) Dist Nashik
Department of Hindi
Academic Year: 2020-21
Course Outcomes

Class	Sub.	परिणाम (Outcomes)
FYBA Sem-I	**Hindi (G-1)**	1) छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित हुए। 2) छात्र हिंदी काव्य तथा कहानी की परंपराओं से तथा साहित्यकारों के विचारों से परिचित हुए। 3) छात्र हिंदी काव्य तथा कहानी साहित्य में अभिव्यक्त संवेदनाओं एवं मूल्यों का महत्व समझने लगे। 4) छात्र हिंदी भाषा में संवाद करने लगे। 5) छात्र हिंदी कंप्यूटिंग प्रणालीसे परिचय हुए। 6) छात्र इंटरनेट का समुचित उपयोग करने लगे। 7) छात्र हिंदी में प्रयुक्त सॉफ्टवेयर से परिचित हुए।
FYBA Sem-2	**Hindi (G-1)**	1) छात्र हिंदी काव्य साहित्य, उसकी परंपराओं से तथा साहित्यकारों के विचारों से परिचित हुए। 2) छात्र हिंदी काव्य साहित्य में अभिव्यक्त संवेदनाओं एवं मूल्यों का महत्व समझने लगे। 3) छात्र साहित्य की कथेत्तर विधाओं-रेखाचित्र, निबंध, यात्रा वर्णन, व्यंग्य, एकांकी विधा से परिचित हुए। 4) छात्र लेखन कौशल (स्ववृत्त लेखन) से परिचित हुए। 5) छात्र निबंध लेखन तथा विज्ञापन लेखन कला से परिचित हुए।
FYBCom Sem-1	**Hindi (Addi.)**	1) छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित हुए। 2) छात्र हिंदी काव्य तथा कहानी की परंपराओं से तथा साहित्यकारों के विचारों से परिचित हुए। 3) छात्र हिंदी काव्य तथा कहानी साहित्य में अभिव्यक्त संवेदनाओं एवं मूल्यों का महत्व समझने लगे। 4) छात्र देवनागरी में गणितीय चिन्हों तथा अंकों का लेखन करने लगे।

		5) छात्र हिंदी कंप्यूटिंग प्रणाली, हिंदी में प्रयुक्त सॉफ्टवेयर से परिचित हुए। 6) छात्र इंटरनेट का समुचित उपयोग करने लगे।
FYBCom Sem-2	**Hindi (Addi.)**	1) छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित हुए। 2) छात्र हिंदी काव्य तथा कहानी की परंपराओं से तथा साहित्यकारों के विचारों से परिचित हुए। 3) छात्र हिंदी काव्य तथा कहानी साहित्य में अभिव्यक्त संवेदनाओं एवं मूल्यों का महत्व समझने लगे। 4) छात्र हिंदी भाषा में संवाद करने लगे। 5) छात्र अनुवाद करने लगे। 6) छात्र कार्यालय में प्रयुक्त हिंदी पारिभाषिक शब्दों के महत्व को समझने लगे।
SYBA Sem-3	**Hindi (G-2)**	1) छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित हुए। 2) छात्र हिंदी काव्य तथा कहानी की परंपराओं से तथा साहित्यकारों के विचारों से परिचित हुए। 3) छात्र हिंदी काव्य तथा कहानी साहित्य में अभिव्यक्त संवेदनाओं एवं मूल्यों का महत्व समझने लगे। 4) छात्र हिंदी भाषा में प्रयुक्त कारक व्यवस्था से परिचित हुए। 5) छात्र शब्द युग्म का उचित अर्थ और वाक्य में उचित प्रयोग करते हैं। 6) छात्र संक्षेपण लेखन कला से अवगत हुए।
SYBA Sem-4	**Hindi (G-2)**	1) छात्र हिंदी काव्य तथा कहानी साहित्य से परिचित हुए। 2) छात्र हिंदी काव्य तथा कहानी की परंपराओं से तथा साहित्यकारों के विचारों से परिचित हुए। 3) छात्र हिंदी काव्य तथा कहानी साहित्य में अभिव्यक्त संवेदनाओं एवं मूल्यों का महत्व समझने लगे। 4) छात्र साक्षात्कार कौशल से परिचित हुए। 5) छात्र विविध ॲप्स का समुचित उपयोग करते हैं। 6) छात्र पल्लवन लेखन कला से अवगत हुए।
SYBA Sem-3	**Hindi (S-1)**	1) छात्र संस्कृत, हिंदी, अंग्रेजी काव्य लक्षणों से परिचित हुए।

		2) छात्र प्रतिभा, व्युत्पत्ति, अभ्यास, समाधि इन काव्य हेतुओं से परिचित हुए। 3) छात्र भारतीय काव्य प्रयोजन से अवगत हुए। 4) छात्र काव्य के तत्वों से परिचित हुए। 5) छात्र शब्द शक्तियों से परिचित हुए। 6) छात्र रस सिद्धांत की अवधारणा से अवगत हुए। 7) छात्र रस के अंगों से परिचित हुए। 8) छात्र शृंगार, वीर, हास्य, करुण आदि रसों से परिचित हुए।
SYBA Sem-4	**Hindi (S-1)**	1) छात्र प्रबंध काव्य और मुक्तक काव्य से परिचित हुए। 2) छात्र महाकाव्य और खंडकाव्य से परिचित हुए। 3) छात्र कहानी, उपन्यास, निबंध इन गद्य विधाओं से परिचित हुए। 4) छात्र कहानी तथा उपन्यास के अंतर से अवगत हुए। 5) छात्र नाटक तथा एकांकी के लक्षण तथा तत्वों से अवगत हुए। 6) छात्र रेडिओ, दूरदर्शन तथा मंचीय नाटक के भेदों से परिचित हुए।
SYBA Sem-3	**Hindi (S-2)**	1) छात्र कबीर के साहित्य की विशेषताओं से परिचित हुए। 2) छात्रों को कबीर के साहित्यिक योगदान का परिचय हुआ। 3) छात्र मीराबाई के साहित्य की विशेषताओं से परिचित हुए। 4) छात्रों को मीराबाई के साहित्यिक योगदान का परिचय हुआ। 5) छात्र उपन्यास की अवधारणा से अवगत हुए। 6) छात्र उपन्यास की रचनाकार (एक पत्नी के नोट्स-ममता कालिया) की सृजनात्मक दृष्टि से परिचित हुए। 7) छात्रों में उपन्यास के कथ्यगत एवं शिल्पगत अध्ययन की कला विकसित हुई।
SYBA Sem-4	**Hindi (S-2)**	1) छात्र रहीम के साहित्य की विशेषताओं से परिचित हुए। 2) छात्रों को रहीम के साहित्यिक योगदान का परिचय हुआ। 3) छात्र बिहारी के साहित्य की विशेषताओं से परिचित हुए। 4) छात्रों को बिहारी के साहित्यिक योगदान का परिचय हुआ। 5) छात्र नाटक की अवधारणा से परिचित हुए।

		6) छात्र हिंदी नाटक और रंगमंच से परिचित हुए। 7) छात्रों में अभिनय कला विकसित हुई। 8) छात्रों में नाटक विशेष (महाभोज-मन्नू भंडारी) के मूल्यांकन की कला विकसित हुई।
SYBA Sem-3	**Hindi (Skill)**	1) छात्र अनुवाद के स्वरूप से परिचित हुए। 2) छात्र अनुवाद के विविध क्षेत्रों से परिचित हुए। 3) छात्रों में अनुवाद कौशल विकसित हुआ। 4) छात्र मराठी से हिंदी में प्रत्यक्ष अनुवाद करना सीखे। 5) छात्र अंग्रेजी से हिंदी में प्रत्यक्ष अनुवाद करना सीखे। 6) छात्रों में मराठी और अंग्रेजी से हिंदी में अनुवाद कौशल विकसित हुआ।
SYBA Sem-4	**Hindi (Skill)**	1) छात्र माध्यम लेखन केस्वरूप से परिचित हुए। 2) छात्र माध्यम लेखन के विविध विधाओं से परिचित हुए। 3) छात्र फीचर लेखन की अवधारणा से परिचित हुए। 4) छात्र श्रव्य-दृश्य माध्यमों की भाषा से अवगत हुए। 5) छात्रों में सृजनात्मक लेखन कौशल विकसित हुआ।
SYBA Sem-3	**Hindi (MIL)**	1) छात्र हिंदी भाषा संरचना (लिपि, ध्वनि, शब्द विशेष) और भाषा व्यवहार की विशेषताओं से परिचित हुए। 2) छात्र हिंदी भाषा व्याकरण से परिचित हुए। 3) छात्रों में लघुकथाओं द्वारा (श्रवण, संवाद, वाचन और लेखन) बुनियादी भाषा कौशल का विकास हुआ। 4) छात्रों में लघुकथा लेखन कौशल विकसित हुआ।
SYBA Sem-4	**Hindi (MIL)**	1) छात्र हिंदी भाषा की वाक्य संरचना से परिचित हुए। 2) छात्र हिंदी भाषा में प्रयुक्त विरामचिह्नों से अवगत हुए। 3) छात्रों में काव्य-गीतोंद्वारा (श्रवण, संवाद, वाचन और लेखन) बुनियादी भाषा कौशल का विकास हुआ। 4) छात्रों में काव्य-गीत लेखन कौशल विकसित हुआ।
TYBA Sem-5	**Hindi (G-3)**	1) छात्र संस्मरण साहित्य विधा से परिचित हुए।

		2) छात्र रेखाचित्र साहित्य विधा से परिचित हुए। 3) छात्रों में सभा इतिवृत्त लेखन कौशल विकसित हुआ। 4) छात्रों में वार्ता लेखन कौशल विकसित हुआ।
TYBA Sem-6	**Hindi (G-3)**	1) छात्र गज़ल साहित्य विधा से परिचित हुए। 2) छात्र दुष्यंत कुमार के व्यक्तित्व एवं कृतित्व से परिचित हुए। 3) छात्र 'साये में धूप' गज़ल में अभिव्यक्त संवेदनाओं एवं मूल्यों से परिचित हुए। 4) छात्रों में मूल्यांकन दृष्टि विकसित हुई। 5) छात्र 'साये में धूप' गज़ल में अभिव्यक्त संवेदनाओं एवं मूल्यों से परिचित हुए। 6) छात्रों में मूल्यांकन दृष्टि विकसित हुई। 7) छात्र सरकारी पत्र लेखन से परिचित हुए।
TYBA Sem-5	**Hindi (S-3)**	1) छात्रहिंदी साहित्येतिहास लेखन से परिचित हुए। 2) छात्रों को हिंदी साहित्येतिहास के काल विभाजन तथा नामकरण का परिचय हुआ। 3) छात्र हिंदी साहित्य इतिहास की आदिकालीन प्रमुख साहित्यिक प्रवृत्तियों, रचनाओं और रचनाकारों से परिचित हुए। 4) छात्र हिंदी साहित्य इतिहास की भक्तिकालीन प्रमुख साहित्यिक प्रवृत्तियों, रचनाओं और रचनाकारों से परिचित हुए। 5) छात्र हिंदी साहित्य इतिहास की रीतिकालीन प्रमुख साहित्यिक प्रवृत्तियों, रचनाओं और रचनाकारों से परिचित हुए।
TYBA Sem-6	**Hindi (S-3)**	1) छात्र हिंदी साहित्य की आधुनिककालीन पृष्ठभूमि से परिचित हुए। 2) छात्र भारतेंदु युगीन तथा द्विवेदी युगीन काव्य विशेषताओं से परिचित हुए। 3) छात्र आधुनिककालीन प्रातिनिधिक रचनाकारों और रचनाओं से परिचित हुए। 4) छात्र छायावादी, प्रगतिवादी और प्रयोगवादी काव्य विशेषताओं से परिचित हुए। 5) छात्र छायावादी, प्रगतिवादी और प्रयोगवादी प्रमुख रचनाकारोंऔर रचनाओं से परिचित हुए। 6) छात्र हिंदी गद्य साहित्य के उद्भव और विकास से परिचित हुए। 7) छात्र फोर्ट विलियम कॉलेज के हिंदी गद्य के विकास में विशेष योगदान से परिचित हुए।

		8) छात्र हिंदी गद्य विधाओं (उपन्यास, कहानी, नाटक) के विकासक्रम से अवगत हुए।
TYBA Sem-5	**Hindi (S-4)**	1) छात्रभाषा विज्ञान के स्वरुप से परिचित हुए। 2) छात्र भाषा विज्ञान की व्याप्ति से परिचित हुए। 3) छात्र भाषा विज्ञान की अध्ययन की दिशाओं से परिचित हुए। 4) छात्र हिंदी भाषा संरचना (ध्वनि और रूप विशेष) से अवगत हुए। 5) छात्र हिंदी भाषा संरचना (अर्थ से संबंधित) से अवगत हुए। 6) छात्र साहित्य अध्ययन में भाषा विज्ञान की उपयोगिता से अवगत हुए।
TYBA Sem-6	**Hindi (S-4)**	1) छात्रभाषा के स्वरुप से परिचित हुए। 2) छात्र भाषा की व्याप्ति से अवगत हुए। 3) छात्र भाषा के अनुप्रयोगात्मक पक्ष से परिचित हुए। 4) छात्र हिंदी भाषा की उपबोलियों से अवगत हुए। 5) छात्र हिंदी के समृद्ध शब्द भंडार से परिचित हुए। 6) छात्र लिपि का उद्भव और विकास से परिचित हुए। 7) छात्र नागरी लिपि का उद्भव और विकास तथा विशेषताओं से परिचित हुए।
TYBA Sem-5	**Hindi (Skill)**	1) छात्रपटकथा (स्क्रिप्ट) लेखन, अर्थ, परिभाषा तथा स्वरुप से परिचित हुए। 2) छात्र कथा, पटकथा और संवाद से परिचित हुए। 3) छात्र पटकथा लेखन की प्रक्रिया (आयडिया, प्लॉट बनाना, ड्रॉफ्ट बनाना) से अवगत हुए। 4) छात्र पटकथा लेखन के विविध प्रकारों के लिए सामान्य दिशा निर्देशों, मानदंडों से परिचित हुए। 5) छात्रों ने पटकथा लेखन के लिए उपयुक्त प्रमुख सॉफ्टवेअरों का परिचय प्राप्त किया।
TYBA Sem-6	**Hindi (Skill)**	1) छात्रसिनेमा के स्वरुप से परिचित हुए। 2) छात्र हिंदी साहित्य और सिनेमा के अन्तसंबंध से परिचित हुए। 3) छात्र भारतीय सिनेमा के विकास क्रम और वर्तमान स्थिति से परिचित हुए। 4) छात्र फिल्मांतरण के स्वरुप से परिचित हुए। 5) छात्र हिंदी उपन्यासों और कहानियों पर आधारित फिल्मों से परिचित हुए।

K.K.W. Arts, Science & Commerce College ,Pimpalgaon Baswant

DEPARTMENT OF ECONOMICS

Programme Specific Outcomes (PSOs) 2020-21

PSOs	B.A Economics
1	Student is expected to understand the behavior of an economic agent, namely, a consumer, a producer, & the price fluctuation in a market
2	Student is expected to understand the basic concept of Macro Economics and application.
3	Understanding & deep knowledge about the basic principles that tend to govern the free flow of trade in goods & services at the global level
4	Expected to learn various statistical tools, techniques, data collection, presentation, and analysis

PSOs	B.Com Economics
1	Student is expected to study and undestand economic reasoning to problems of business
2	Student is expected to understand the behavior of the economy as a whole.
3	Expected to Compare the Indian Economy with other developed economy

PSOs	M.A. Economics
1	To understand of problems and policies in Indian labour market.
2	Indian agriculture problems and remedies and comparison with developed countries.
3	To study quantitative and qualitative aspects and characteristic of population through various demographic techniques. in recent times gender characteristics of the of population.
4	Elementary knowledge of research methodology consolidate and depend their understanding of various branches of Economics.

Course Outcomes 2020-21

Class	Subject	Outcomes
FYBA Sem I	Indian Economic Environment I	1.Student will understand the recent development in the Indian economy. 2.Students will understand basic concepts of Indian Economic Environment 3. Students will prepare for varied competitive examinations
Sem II	Indian Economic Environment II	1.student understand the economic environment and the factors affecting economic 2. student understand the develop awareness on the various new developments in the different sectors of an economy – agriculture, industry, services, banking, etc. 3.students understand the various issues and challenges facing the Indian Economic Environment
SYBA Sem III	Financial System I	1 To understand fundamentals of modern financial system. 2 To understand the recent trends and developments in banking system. 3 To understand the role of the Reserve Bank of India in Indian financial system.

Sem IV	Financial System II	• To provide the knowledge of various financial and non-financial institutions. • To provide the students the intricacies of Indian financial system for better financial decision making.
SYBA Sem III	Micro Economics I	1.To develop an understanding about subject matter of Economics. 2.To impart knowledge of microeconomics. 3.To clarify micro economic concepts
Sem IV	Micro Economics II	1.To develop an understanding of basic theories of micro economics and their application. 2. To demonstrate that the theories discussed in class will usually be applied to real-life situations. 3. To help the students to prepare for varied competitive examinations
SYBA Sem III	Macro Economics I	1.To introduce students to the historical background of the emergence of macroeconomics 2. To familiarize students with the differences between microeconomics and macroeconomics 3.To familiarize students with various concepts of national income
Sem IV	Macro Economics II	To introduce students to the role of money in an economy. • To introduce students to the conceptual and theoretical frameworks of inflation, deflation and stagflation, Business Cycle .
SYBA Sem III	Basic Concept of Research Methodology - I	• Demonstrate his/her understanding of sampling methods and the ability to use collection of data • Identify the appropriate sample techniques for different kinds of research questions
Sem IV	Basic Concept of Research Methodology - II	• Identify the appropriate source of data in relation to the collection of research data. • Able to classify and present the collected data in the form of graph, bar diagram, chart etc
TYBA Sem V	Indian Economic Development- I	To relate and recognize the concept and indicators of Economic Development. • To describe and analyze the concept and indicators of Human Development. • To explain the characteristics of Developing and Developed Countries. • To describe the constraints to the process of Economic Development.
Sem VI	Indian Economic Development- II	To describe and explain the process of Economic Planning. • To describe and examine the changing structure of planning process in India. • To describe and explain the relation between Economic Development and Environment.
TYBA Sem V	International Economics-I	To relate and recall the concepts of International Economics and International Trade. • To describe and apply the theories of international trade. • To explain and comprehend the issues relating to Terms of trade and Balance of Payment.
Sem VI	International Economics- II	Ability to relate and explain the concept of Exchange Rate and Foreign Exchange Market. • Ability to describe the trends in Growth, Composition and Direction of India's Foreign Trade. • Ability to comprehend the issues relating to Foreign Capital and Regional and International Co-Operation.
TYBA Sem V	Public Finance- I	To make students to analyze the role of Public Finance in Economic Development. **2.** To know the sources of Revenue, Expenditure and Debt of Govt. of India. **3.** To make students competent to become success in competitive examination.
	Public Finance- II	To explain and assess the components and instruments of Fiscal Policy.

Sem VI		• To relate to the concepts of Budget and its components. • To describe and analyze the concept of Deficit Financing and its effects. • To describe and explain the Centre and State Financial Relationship.
TYBA Sem V	Business Management-I	Management of Business. • Business planning and decision making • Leadership Skills- Ability to work in teams at the same time, ability to show leadership qualities
Sem VI	Business Management-II (Project Report)	Analytical Skills – Ability to analyze data collected and interpret in the most logical manner • Project Report Writing Skills- Ability to comprehend and illustrate/demonstrate findings • Presentation Skills – PPT/Poster- Ability to illustrate findings in the most appealing manner • Leadership Skills: Ability to show leadership skills with business ideas or work on business ventures as a practical example
MA-I Sem I	MICRO-ECONOMIC ANALYSIS–I	• Ability to apply the concepts of micro economics such as demand, supply, revenue, cost, elasticity, etc. • Ability to analyze and demonstrate knowledge of the basic theories/laws in economics- law of demand, law of supply, production function, etc. • At the end of the course, the student should be able to evaluate micro economic concepts, models and its use in real life situations.
Sem II	MICRO-ECONOMIC ANALYSIS–II	• Ability to compare and contrast various market structures and understand concept of equilibrium, price determination • At the end of the course, the student should be able to evaluate micro economic concepts, models and its use in real life situations.
MA-I Sem I	PUBLIC ECONOMICS – I	• Ability to recognize, apply and analyze concepts and theories in public economics. • Ability to appraise and assess the theory of public economics in real life situations.
Sem II	PUBLIC ECONOMICS – II	• Ability to understand, apply and analyze concepts-public debt, budget, fiscal policy in public economics. • Ability to interpret the theories relating to public economics in real life situations. • Ability to discuss and debate on the public finance and policies w.r.t. India
MA-I Sem I	International Trade	• Ability to understand the concepts of international economics such as comparative cost, terms of trade, trade policies and trade agreements • Ability to interpret and apply theory relating to understand international trade • Ability to discuss and debate the effects of trade policy, trade agreements, exchange rate policies on the world economy/trade
Sem II	International Finance	• Ability to understand and interpret the concepts such as Balance of Payments, Exchange Rates, Foreign Exchange transactions, International capital flows, etc. • Ability to critically analyze the effects of deficits, exchange risk, role of foreign capital on the world economy/trade • Ability to discuss and debate on subjects related to international trade and finance w.r.t the Indian Economy.
MA-I Sem I	Agriculture Economics - I	• Ability to analyze and evaluate the subject with reference to various aspects of agrarian economies.

		• Ability to develop an understanding of agriculture with its intricacies and imperfections and to be able to construct intellectual dialogue on the challenges of agriculture.
Sem II	Labour Economics - I	• Ability to analyze and evaluate the subject with reference to various aspects of Labour economics. • Ability to develop an understanding of the labour with its intricacies and imperfections and to be able to construct intellectual dialogue on the challenges of labour w.r.t. the Indian Economy.
MA-II Sem III	Macro Economics Analysis-I	Ability to analyze and demonstrate knowledge of the basic theories/laws in macroeconomics. At the end of the course, the student should be able to evaluate macroeconomic concepts, models and its use in real life situations
Sem Iv	Macro Economics Analysis II	Ability to analyze and demonstrate knowledge of the basic theories/laws in economics- general equilibrium psychological law of consumption, etc. • At the end of the course, the student should be able to evaluate macroeconomic concepts, models and its use in real life situations.
MA-II Sem III	Growth & Development -I	Ability to apply the concepts of economic growth and compare international comparison of economic development, etc. • Ability to analyze and demonstrate knowledge of the economic growth and development theories of economic growth and development
Sem Iv	Growth & Development -II	Ability to analyze and demonstrate knowledge of the economic growth and development theories of economic growth and development • Ability analyze, evaluate and apply the growth and development concepts, role of human capital, etc. in real life situations
MA-II Sem III	Research Methodology- I	Ability to develop, demonstrate and examine topics under Economics to pursue research. • Ability to evaluate and examine subject areas in economics and explore possibilities of research.
Sem Iv	Research Project	Ability to develop, demonstrate and examine topics under Economics to pursue research. • Ability to evaluate and examine subject areas in economics and explore possibilities of research.
MA-II Sem III	Demography	Ability to develop, demonstrate and examine various topics under Demography. • Ability to evaluate and examine subject areas in economics bringing out the relation to population studies and demography
Sem Iv	Foreign Exchange Market	Ability to analyze and demonstrate knowledge of the foreign exchange market transactions, exchange rate mechanism and exchange risk in economics. • At the end of the course, the student should be able to evaluate Foreign exchange market concepts, market structure, transactions and its use in real life.
FYBCOM Sem I	Business Economics Micro - I	• Students will understand basic concepts of micro economics, • Will be able to analyze and Interpret • Will know cardinal and ordinal approach • Will understand the concept of consumer surplus

		• Will understand the concept of demand and elasticity of demand • Will understand the concept of supply • Able to interpret equilibrium in the market • Will understand revenue concept • Will know economies and diseconomies of scale
Sem II	Business Economics Micro - II	To understand the concept and types of cost To make the students know about short run and long run cost concepts To impart knowledge about types of revenue
FYBCOM Sem I	Banking & Finance -I	• Knowledge of evolution of banking. • Understanding structure of Indian Banking • Understanding primary and secondary functions of a bank. • Understanding the concepts related to lending and ratios. • Understanding the process of opening and operating procedure of bank accounts. • Understanding various types of bank account holders
Sem II	Banking & Finance -II	• To develop the working capability of students in banking sector To Make the Students aware of Banking Business and practices. • To enlighten the students regarding the new concepts introduced in the banking system.
SYBCOM Sem III	Business Economics Macro -I	To make the students aware of concepts in macro economics To makes thestudents aware of basic concepts in national income. To help the students to understand the concept of Employment andtheory Output.
Sem Iv	Business Economics Macro -II	To understand the concept of money. To make the students know about Demand, Supply and Value of Money. To understand the concept and phasesof trade cycle. To understand the policy measures
SYBCOM Sem III	Banking & Finance -I	Understanding the structure of Indian Banking Analyze the role of Banking In Economic Development . Understanding About the central Banking In india. Understanding ofrole and performance of Private Banking in India Analyze the pastand present
Sem Iv	Banking & Finance -II	Understanding the Functions and analyze the Role of Development Banking in India. Understanding the various concepts of Banking. To understand the rights and functions ofRegistrar. To understandprovisions of co- operative societiesAct-1960.
TYBCOM Sem V	Indian & Global Economic Development - I	**1.**Students will be able to understand present Economic Scenario of Indian Economy as well as World Economy. **2.**Students will be able to understand the various aspects of development in Agricultural, Industrial and service sector in India. **3.**Student will be able to critically evaluate the role of India in international economy. 4. Students will be able to evaluate the working of international financial organization and institutions.
Sem VI	Indian & Global Economic Development - II	1. Students will be able to understand the concept of Human Resource Development. 2. Students will be able to understand the role of foreign capital in Economic Development. 3. Students will be able to critically evaluate the Indian Foreign Trade

		Policy. 4. Students will be able to analyzethe role of International Financial Institutions. 5. Students will be able to evaluate the success of Regional Economic Cooperation's
TYBCOM Sem V	Banking &Finance - II	Understanding the Indian Financial System. Understanding the meaning, structure and role of Financial System in India. Understanding the meaning, functions,credit instruments, deficiencies and recent development in Money Market in India.
Sem VI	Banking &Finance - II	Understanding the basic concept of stock market. Understanding the basic concept and types of stock trading. Understanding the functions and working of Non -Banking Financial Institutions in India .
TYBCOM Sem V	Banking &Finance - III	Understanding the Banking Regulation Act 1949 with Objectives and selective Provisions. Understanding the Provisions of Negotiable Instruments Act, 1881 Understanding the Objectives, Importance Selective Definitions and Provisions Insolvency and Bankruptcy.
Sem VI	Banking &Finance - III	Understanding the concept and types of cyber-crimes in banking. Understanding the the concept of paying and aspects of paying and collecting Banker. Understanding the relationship between banker and customers. Understanding the legal aspects of bank advances.

M.V.P. Samaj's K.K. Wagh

Arts , Science and Commerce College,

Pimpalgaon (B)

Course Objective and Programme Outcomes

2020-2021

Department of English

Sr. No	Name Of The Faculty	Qualification	Years
1	Dr. Pawanjay N. Sudewad	M.A. B .Ed., SET., Ph. D.	06 Years
2	Dr. Dnyaneshwar K. Satbhai	M.A., B .Ed., M. Phil., SET, Ph. D.	21 Years
3	Dr. Vijaykumar I. Sonawane	M.A., B . Ed., M. Phil., SET, Ph. D.	17 Years
4.	Dr. Pranali M. Jadhav	M.A. , B . Ed., M. Phil., SET, Ph. D	15 Years
5.	Ms. Samradni S. More	M.A., B.Ed. , SET, Ph. D.	5 Years

Programme Specific Outcomes

Programme Specific Outcomes

PSOs	B.A. Upon completion of this programme the student will be able to:
1.	Develop interest in literature and language.
2.	Identify major and minor forms of literature.
3.	Get pleasure from reading the short stories, poems, novels and dramas.
4.	Acquaint with the literary theories, terms and various concepts in Criticism.
5.	Appreciate the literary works with the help aesthetic sense.
6.	Improve vocabulary and various linguistic skills, such as phonological and morphological aspects of English as well as they can able to use language at semantic and syntactic levels.
7.	Understand the structure and function of grammatical units
10.	Attempt creative writings.
11.	Develop language learning skills like Listening, Speaking, Reading and Writing.
12.	Build up communicative skills
13.	Realize the values of literature in life
14.	Acquaint with various cultures of the times.
15.	Know various genres in English literature like Indian English literature, British literature and American literature.
16	Increase verbal and non-verbal skills of communication.
17	To get the jobs in industry, government, schools and offices.

PSOs	M.A. Upon completion of this programme the student will be able to:
1.	Explore in greater depth literary history, works, genres and periods of literature in English and fully understand their literary value and socio-cultural relevance in the literary canon.
2.	Acquaintance with more complex texts and their practical applications in the contemporary context
3.	Enhance their knowledge of Western literary theory as well as various theoretical and practical aspects of language and literature teaching.
4.	Improve their knowledge and critical acumen in the aesthetics of non-British literatures in English through compulsory and optional courses, viz. South-Asian Writing in English, Indian Writing in English, American literature, and upcoming fields such as Translation studies, Cultural Studies, Postcolonial studies, and Women's Writing.
5.	Appreciate the different approaches, methods and techniques that could be utilised in the process of teaching.
6.	Apply knowledge acquired in the classroom to interpret and evaluate texts independently.
7.	Use different critical approaches to sharpening their interpretative abilities and thereby develop critical thinking.
8	Commence minor research for the courses they are studying in the form of term-papers or projects for internal assessment
9.	Extend a complete understanding of research tools, methodology and ethical research practices.
10.	Undertake independent research projects (individual/group) under UGC schemes or others supported by the institution under teacher-mentors from the department.
11.	Explore opportunities of comparative studies of an intra and inter-disciplinary nature which is now a days one of the prominent research trend.
12.	Assimilate the knowledge of human psychology, society and life gained through a study of literature to the domain of real life in order to lead a value-based existence.
14.	Convey the knowledge to sensitise peers, young people or society at large to become responsible global citizens
15.	Build up complete linguistic, literary, critical, and communicative competence needed to work in the field of education, research, the corporate sector, media, journalism, and other related fields.

Course Outcomes(COS)

Course Outcomes (Cos)

F.Y.B.A.	**1.Compulsory English**	**CO1** Enhanced the communicative power of English
		CO2 The behavior and nature of the students have been changed
		CO3 Aesthetic skills have developed
		CO4 The students have become competent to face the challenges of the time
	2.Optional English	**CO1** The students' interest for language and Literature is developed
		CO2 Aesthetic skills have developed
		CO3 The students have overcome the fear of English language
		CO4 The students have got the capability to differentiate the various dialects of English
F.Y.B.Com.	**1.Compulsory English**	**CO1** Students came to know the beauty and communicative power of English and they can able to do its practical application.
		CO2 Students exposed with a variety of topics that dominate the contemporary socio-economic and cultural life
		CO3 Developed oral and written communication skills of the students. It is very helpful to enhances employability skills of the students.
		CO4 Linguistic competence and communicative skills of the students is developed .
	2.Additional English	**CO1** Enhanced the pragmatic competence of the students
		CO2 Created awareness of the social and cultural issues of the time
		CO3 Sharpened the literary sensibility of the students
		CO4 Development of the aesthetic skills of the students
S.Y.B.A.	**1.Compulsory English**	**CO1** The exposure of literature contributed to the students' emotional quotient and in their independent thinking.
		CO2 The universal human values are instilled after studying the literary masterpieces

		CO3 The communication skills have developed by developing ability to use right words in the right context.
		CO4 Employability skills of the students have enhanced by developing their basic soft skills
		CO5 The linguistics competence of the students is reinforced
	2. Skill Enhancement Course-SEC-1A **(Old General English-G-2)** **Title of the Paper: Advanced Study of English Language Prescribed**	**CO1**The students are familiarized with the various components of language.
		CO2 Overall linguistic competence of the students is developed
		CO3 Some advanced areas of language study are introduced to the students
		CO4 The mindset of the students are prepared for detailed study and understanding of language.
	3.Discipline Specific Course (DSC-1A) (Old Special Paper-I)	**CO1 Drama** as a major form of literature is introduced to the students
		CO2 The minor forms of Drama are introduced
		CO3 The students have acquainted and enlightened regarding the literary and the performing dimensions of drama
		CO4 The students have acquainted and familiarized with the elements and the types of Drama
		CO5 The students are encouraged to make a detailed study of a few sample masterpieces of English Drama from different parts of the world
		CO6 The students' awareness regarding aesthetics of Drama and to empower them to evaluate drama independently has enhanced
	4. Discipline Specific Course (DSC-2A) (Old Special Paper-II) **Title of the Paper: Appreciating Poetry**	**CO1**The students have to acquainted with the terminology in poetry criticism regarding the terms used in appreciation and critical analysis of poems
		CO2 The students have encouraged to make a detailed study of a few sample masterpieces of English poetry
		CO3 The students are awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate poetry independently is enhanced
	5. Skill Enhancement Course-(SEC-2A) **"A Certificate Course in Skill Development"**	**CO1**The skill of using English for everyday communication has Enhanced
		CO2 The students are acquainted with the verbal and nonverbal communication

		CO3 The students are acquainted and familiarized with soft skills
		CO4 The interest among to interact in English is developed
S.Y.B.Sc. & S.Y.B.Sc. (Computer Science)	**1. Ability Enhancement Course-AEC** **Text: Horizons: English in Multivalent Contexts**	**CO1** Students are introduced to the use of English in multimedia
		CO2 They are acquainted with the language skills in multivalent contexts
		CO3 Students are enlightened regarding the speaking skill in various contexts
		CO4 They were familiarized with advanced writing skills in different contexts
		CO5 Developed their soft skills
		CO6 The syllabus is very helpful to minimize the gap between the existing communicative skills of the students and the skills they require at professional level
		CO7 Developed the competence among the students to appreciate and analyze short stories and poetry.
T.Y.B.A.	**1. Compulsory English** **Prescribed Text: Exploring New Horizons (Ed-Board of Editors- Orient BlackSwan**	**CO1** The students have familiarized with some excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English.
		CO2 The students are enabled to become competent and effective users of English in real life situations.
		CO3 Humanitarian values and foster sympathetic attitude are instilled in the students.
		CO4 The students are trained in practical writing skills required in work environment.
		CO5 The knowledge of some essential soft skills to enhance employability is imparted to the students
	2. Skill Enhancement Course (SEC 1-C & SEC 1-D) (Old G-3) **Title of the Paper: Enhancing Employability Skills**	**CO1**The students are acquainted with the career opportunities available to them.
		CO1 The students are made capable to identify the career opportunities suitable to them
		CO1 The competence in using English for the career of their choice is developed
		CO1 The skills required for their placement for the career is enhanced

M.A. Part- I **CBCS Pattern (Semester-I & II)**	**3. Discipline Specific Elective (DSE-1C& DSE-1D) (Old S-3)** **Title of the Paper: Appreciating Novel**	**CO1**The students are introduced to the basics of novel as a literary form
		CO2 The students are exposed to the historical development and nature of novel
		CO3 The students are made awared of different types and aspects of novel
		CO4 Literary sensibility and sense of cultural diversity in students is developed
	4. Discipline Specific Elective (DSE-2C & DSE-2D) (Old S-4) **Title of the Paper: Introduction to Literary Criticism**	**CO1**The basics of literary criticism has introduced to the student
		CO2 The students are made aware of the nature and historical development of criticism
		CO3 They are made familiar with the significant critical approaches and terms
		CO4 The students are encouraged to interpret literary works in the light of the critical approaches
		CO5 Students' aptitude for critical analysis is developed
	5. Skill Enhancement Course (SEC 2-C & SEC 2-D) **Title of the Paper: Mastering Life Skills and Life Values**	**CO1**The students have equipped with the social skills
		CO2 Student's interpersonal Skill is developed.
		CO3 Students self-confidence and ability to communicate effectively is built up
		CO4 Students can able to think critically and developed their positive thinking.
		CO5 Leadership qualities are enhanced and they also got aware with universal human value, consequently overall personality of the student is developed
	1.Paper – 1.1: English Literature from 1558 to 1798 t	**CO1**The students have comprehended the thematic and stylistic aspects of text prescribed for the academic year.
		CO2 The students have acquired knowledge of different schools of thoughts in literary genre .
		CO3 They can able to examine critically the writers' thematic concerns and to point out the(in)significance of such concerns in the postcolonial context.
		CO4 Students are recognized the distinctive ways in which the writers differed, in their ideological positions, from their counterparts belonging

	2.Paper – 1.2: English Literature from 1798 to the Present	**CO1**The students recognized the distinctive ways in which the writers differed, in their ideological positions, from their counterparts belonging to different ages.
		CO2 The students have understood post-colonialism and neo colonialism with reference to Indian context
		CO3 The students have enhanced their proficiency in English.
		CO4 They are able to identify potential areas of research on which they can work independently for securing a degree or merely for the sake of obtaining knowledge.
		CO5 Proficiency in English is enhanced.
	3.Paper 1.3: Contemporary Studies in English Language	**CO1**The students acquitted with the basic tools of language which are essential for a systematic study of language.
		CO2 Students enabled to apply the acquired linguistic skills in real life situations.
		CO3 Conversational activities become more comprehensive as well as interesting with application and analysis of Co-operative Principle which reflects significance of CP as a theory of language use.
		CO4 The Students became confident to use language in socio-cultural context.
	4.Paper – 1.4: Literary Criticism and Theory	**CO1**Students have realized multi critical approaches regarding the various literary theories.
		CO2 Enhancement in the students' logical , research and analytical faculties
		CO3 Students' ability to think critically to appreciate literary works have increased.
		CO4 Students became competent and improved their sensibility for practical application of critical approach to literary texts.
	1.Paper-3.1: Indian Writing in English (Core Paper)	**CO1** Students are introduced with the various phases of the evolution in Indian Writing in English. They also came to know the major movements and figures of Indian Writing in Englsh.
		CO2 Students came to know the writings of different Indian writers. The topic helped a lot to appreciate the variety and diversity of Indian

M.A. Part- II **CBCS Pattern (Semester-III & IV)**		Writing in English.
		CO3 Developed students' critical ability to examine and restate their understanding of literary texts.
		CO4 Students could interpret the corpus of Indian Writing in English, they also understood the sociopolitical and cultural contexts in which the works were written and received.
		CO5 Students got aware with the uniqueness of artistic and innovative use of the the English language in IWE. The topics are also useful to enhanced the literary and linguistic competence of students.
		CO6 Students can easily able to instill human values and develop literary sensibility among students through exposure to IWE texts.
	2.Paper-3.4: Indian Literatures in English Translation	**CO1** Students are introduced with some of the significant Indian regional language writers of various periods and to their works.
		CO2 Students are well acquainted with major ancient, medieval and modern literary movements in India and their influence on literature.
		CO3 Students can easily compared the features and peculiarities of Indian societies, cultures and languages.
		CO4 Students got aware with the different literary techniques employed by various Indian regional language writers.
		CO5 Students can easily understood how English gets Indianised in translation.
		CO6 Students are introduced with the vast possibilities of translating literary texts from their own languages into English.Students also came to know the necessity of undertaking multidisciplinary research projects focusing on the literary-cultural varieties of India.
	3.Paper-3.6: American Literature	**CO1** Students came to know the major texts that led to the evolution of American literature as an independent branch of literature in English.
		CO2 Students are introduced with the issues and problems America has gone through and how they find expression in her literature.
		CO3 Students got aware with the a broad historical

		view of the entire period from the time of the early settlers, through the westward movement to the contemporary period.
		CO4 Students are well acquainted with a general idea about the religious, socio-political, literary and cultural movements in America.
		CO5 Students are introduced with some of the major conflicts, struggles and movements that are closely connected with the experiences of a group of people struggling to establish their space within the nation.
		CO6 Students came to know the the rich diversity of American writing.
		CO7 Students can able to undertook research of a comparative nature to discover similarities between the socio-political, cultural and literary issues pertaining to America and India.
	4.Paper-3.8: **World Literature in English**	**CO1** Students came to know some of the important literary texts of the world.
		CO2 Students got aware with the socio-cultural aspects of the regions from where the texts are chosen.
		CO3 Students can easily compared the authors of the world with Indian writers in English or the writers in their own languages.
		CO4 Students are well acquainted with the various techniques employed by the authors and how the techniques are adapted/adopted by Indian authors.
		CO5 This topic is really very helpful for the Students to undertake research in comparative literature.

M.V.P. Samaj's K.K. Wagh

Arts, Science and Commerce College,

Pimpalgaon (B)

Course Objective and Programme Outcomes

2021-2022

Department of Psychology

Sr. No	Name Of The Faculty	Qualification	Years
1	Prof. Jondhale C. V.	M.A.	33 Years

Programme Specific Outcomes

Sr. No.	Programme	Specific Outcome
1	**Under Graduate Program : B.A. (Psychology)**	**Upon completion of this programme the student will be able to:** ❖ Theory and Content of Psychology: Identify the major concepts, theoretical perspectives, ❖ Research Methods in Psychology: To acquaint with basic research methods in psychology, including research design, data analysis, and interpretation. ❖ Applications of Psychology: In personal, social, and organizational issues. ❖ Critical Thinking Skills in Psychology: Enhancement critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behaviour and mental processes. ❖ Communication Skills: Communicate effectively in a variety of formats ❖ Values in Psychology: Weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline. ❖ Information, communication & Technological Literacy: Demonstrate information competence and the ability to use computers and other technology for many purposes. ❖ Socio-cultural and International Awareness: recognize, understand, and respect the complexity of socio-cultural and international diversity. ❖ Personal Development: develop insight into their own and others' behavior and mental processes and apply effective strategies for self-management and self-improvement. ❖ Career Planning and Development: With realistic ideas about how to implement their psychological knowledge, skills, and values in occupational pursuits in a variety of settings. ❖ Enhancement to the stress management's skills. ❖ Enhancement to coping skill with different problems in life. ❖ Enabling to measure attitude, aptitude, Interest, adjustments skills .etc. within the people. Pso.4. Introduction to counseling proses and techniques. ❖ Illustration of mental disorder and treatment.

Course Outcomes

Sr. No.	Syllabus	Course Outcome
1	**FYBA Foundations of Psychology Semester -I**	1. To acquaint with the basic psychological processes and their applications in day to day life. 2. To develop the ability to evaluate cognitive processes, learning and memory of an individual. 3. To acquaint with the importance of motivation and emotion of the individual. 4. To acquaint with the personality and intelligence of the individual.
2.	**FYBA Social Psychology Semester-II**	**Social Psychology** After the completion of this course students will be able to demonstrate the following competencies: a) Understand the basics of social psychology. b) Understand the nature of self, concept of attitude and prejudice of the individual. c) Assess the interactional processes, love and aggression in our day today life. . d) Understand group dynamics and individual in the social world.

3.	**SYBA –** **Semester -III** **Health psycology**	**Health Psycology** Co1.To know the bio psychosocial model of health and other specific but related psychological theories. Co2.To develop an understanding of basic human biology such as the functioning of the endocrine, immune and nervous systems. Co3.To know how a person's health can be affected by their behaviour, given certain social factors, environments, and biological factors. Co4.To analyze the effects of stress on a person's health and the role played by stress-buffering factors. Co5.To know how stress, affective distress (e.g. anxiety, depression), and other psychological and physical symptoms are assessed, and the potential problems with this measurement. Co6.To know the effects of health status and changes in health on a person's emotions, thinking, and behaivour. Co7To recognize the factors that underpin positive and negative changes in health- related behaviour, and the promotion of healthy behavior. Co8.To identify and describe the content, principles, and methods of past and current health psychology research.

		Co9.Identify the research methods used to conduct health psychology studies, and the ethical issues that pertain to this research.
4.	**S.Y.B.A.** **Semester-IV** **Positive Psychology**	**Positive Psycology** After the completion of this course students will be able to: 1. Understand how the positive psychology as the science of happiness, human strengths, positive aspects of human behavior and 'psychology of well-being.' 2. How we lead our lives, find happiness and satisfaction, and face life's challenges. 3. How positive psychology has become an evolving mosaic of research and theory from many different areas of psychology.
5.	**T. Y. B. A.** **SEMESTER V** INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY	**Industrial and organizational Psycology** After completing the course, student should be able to: 1: Describe the concept of industrial and organizational psychology, selection and training, evaluation and motivation at workplace. 2: Explain job profile, job analysis, recruitment techniques and

		employee training. 3: Identify and classify the appraisal rating system. 4: Compare different theories of motivation. 5: Evaluate the training programme and job performance.
6.	APPLIED PSYCHOLOGY **Semester VI**	**Applied Psycology** After completing the course, student should be able to: 1. Describe the concept of applied psychology, educational psychology, family structure and developmental patterns. 2. Know the clinical psychology related mechanisms, social issues, and criminal behavior. 3. Classify the intellectual ability, abnormality, criminal behavior. 4. Identify the problems and solutions in the field of education, 5. Evaluate the interpersonal relations. 6. Apply psychological remedies to assess abonormal behaviour, to tackle the social issues and to rectify the problematic behaviour.

M.V.P.Samaj's

K.K.Wagh Arts, Science & Commerce College, Pimpalgaon (B)

Department of Geography

2021-22

Syllabus Outcomes

Special Subject: Geography

Programme Specific Outcomes

1. The students develop theoretical and applied knowledge and computational skills.
2. The geographical maturity of students in their current and future courses.
3. Students get knowledge about fundamental concepts of environment.
4. Students acquired geographical knowledge and they understand the interrelationship between the subject and society.
5. Students get knowledge regarding problems and prospects of agricultural.
6. Students learn new techniques skill of map making.
7. Students develop Research Methodology for research work.

Course Outcomes

Department of Geography

Sr. No.	Class	Subject	Course Outcomes
1	FYBA Sem-I	Physical Geography	i) The geographical maturity of students in their current and future courses shall develop. ii) The student develops theoretical, applied and computational skills. iii) To make the students aware about Earth system (Lithosphere, Atmosphere, Biosphere and Hydrosphere)
2	FYBA Sem-II	Human Geography	The student develops theoretical, applied and computational skills.
3	SYBA Sem-III	Environment Geography- I	To create the awareness about dynamic environment among the student. 2. To acquaint the students with fundamental concepts of environment geography for development in different areas. 3. The students should be able to integrate various factors of Environment and dynamic aspect of Environmental geography.

4	SYBA Sem-IV	Environment Geography- II	To make aware students about the problems of environment, its utilization and conservation in the view of sustainable development.
5.	SYBA Sem-III	Geography of Maharashtra I	To acquaint students with Geography of our State. 2. To make students aware of the magnitude of problems and prospects in Maharashtra. 3. To help students understand the inter relationship between the subject and the society.
6.	SYBA Sem-IV	Geography of Maharashtra II	To make students aware about the Agriculture problems and prospects of Maharashtra. 2. To understand the population distribution and settlement pattern in Maharashtra. 3. To understand the concept of rural development. 4. To understand the prospectus in Tourism activity in Maharashtra and the role of MTDC and Role of MIDC in industrial development in rural area of Maharashtra
7.	SYBA Sem- III	Scale and Map Projection I	Develop practical skill and use of map scale and projection. 2. To make students aware of the new techniques, accuracy and skills of map making.
8.	SYBA Sem - IV	Cartographic Techniques, Surveying and Excursion / Village / Project Report Scale and Map Projection II	1. Develop practical knowledge and application of cartographical techniques. 2. To make students aware of the new techniques, accuracy and skills of Map Making.
9.	SYBA Sem- III	Introduction to Geographic Information System	Comprehend knowledge about the concepts in GIS. Acquire skills of map making using GIS.

10.	SYBA Sem-IV	Introduction to Remote Sensing	Obtain knowledge about the concepts of remote sensing. Acquire skills in visual interpretation of satellite images.
11.	TYBA Sem- V	Geography of Tourism- I	Introduce the students to the basic concepts in Tourism Geography. understand the types of Tourism
12.	TYBA Sem- VI	Geography of Tourism- II	Students gain knowledge different aspects of Tourism Geography.
13.	TYBA Sem- V	Geography of India I	Students aware with geography of our Nation.
14.	TYBA Sem- VI	Geography of India II	Student aware of the magnitude of problems and Prospects at National level.
15.	TYBA Sem-V	Techniques of Spatial Analysis I	To introduce the students with SOI *Toposheets* and acquire the Knowledge of Toposheet interpretation. 3. To introduce the students with Weather Maps and acquire the Knowledge of its interpretation.
16.	TYBA Sem-VI	Techniques of Spatial Analysis II	Students aware about the Calculation of Central Tendency, & Dispersion
17.	TYBA Sem-V	Research Methodology I	To develop the understanding of the basic concept of research 2. To develop the understanding of the basic framework of sampling and data collection
18	TYBA Sem- VI	Research Methodology II	To develop the understanding of various sampling methods and techniques.

Maratha Vidya Prasarak Samaj's
Karmveer Kakasaheb Wagh Arts, Science and Commerce College,
Pimpalgaon Baswant Tal- Niphad, Dist- Nashik
Academic Year: 2021-22

Department of Political Science & Public Administration

Programme Specific Outcomes:

BA (Political Science & Public Administration)

On completion of the BA with Political science Special & Public Administration general students will be able to…

Sr. No.	Programme Specific Outcomes
1	Students Understood the basic themes, concepts, chronology and the Scope of Indian Constitution
2	Students familiarized with the working of the Constitution of India.
3	Students enable to understand the philosophy of Indian Constitution.
4	Students enable to appreciate the various phases of Indian National Movement.
5	Students Understood the nature of Indian Federalism with focus on Union-State Relations.
6	Students enable to know the salient features in making of Indian Constitution.
7	Students enable to understand the working of Public Administration.

Programme Specific Outcomes: MA (Political Science)

On completion of the MA with **Political Science** students will be able to....

Sr. No.	Programme Specific Outcomes
1	Students became aware of the sociological and political issues including institutions and process.
2	They taught about the organization and theories of public administration with their application in India.
3	Students familiarized with different approaches to the study of politics and an ability to apply these to contemporary collective and political problems and political behaviour.
4	This programme helps to understand the broad administrative system in India, thus making them the right fit for managerial positions.
5	This programme gives ability to formulate and construct logical arguments about political phenomena and an ability to evaluate these through empirical and theoretical methods.
6	This programme analyse political problems, arguments, information and theories.

Course Outcomes (CO) - UG

Department of Political Science & Public Administration

Class	Subject	Course Outcomes

F.Y. B.A.	Semester-I General Paper I **INTRODUCTION TO INDIAN CONSTITUTION**	1. Students acquainted with the important features of the Constitution of India. 2. Students acquainted with the basic framework of Indian government. 3. Students understood the working of the Constitution of India 4. Students acquainted with the knowledge about Fundamental rights and Fundamental Duties.
	Semester-II, General Paper I **INTRODUCTION TO INDIAN CONSTITUTION**	1. Students acquainted with the important features of the Constitution of India and with the basic framework of Indian government. 2. Students familiarized with the functioning of the Constitution of India.
	Semester-I , General Paper I **NTRODUCTION TO PUBLIC ADMINISTRATION** Semester-II, General Paper I **INTRODUCTION TO PUBLIC ADMINISTRATION**	1. Students are introduced with the discipline of Public Administration. 2. Students are introduced with the principles and types of Administration.
S.Y.B.A.	Semester III General Paper 2 **AN INTRODUCTION TO POLITICAL SCIENCE** Semester IV General Paper 2 **AN INTRODUCTION**	1. Students understood the important sub themes of Political Science as a discipline. 2. Students learned the various approaches to study Political Science 3. Students understood basic concepts and values in Political Science

	TO POLITICAL SCIENCE	
	Semester-III. Special Paper I **WESTERN POLITICAL THOUGHT**	1. Students learned the major traditions of thought that have shaped political discourse in different parts of the world. 2. Students understood the great diversity of social contexts and philosophical visions. 3. Students are introduced with the history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
	Semester IV, Special Paper I **WESTERN POLITICAL THOUGHT**	
	Semester III, Special Paper II **POLITICAL JOURNALISM**	1. Students can differentiate the complex relationship between the communication, media and power politics. 2. Students also understood the critical appraisal of practices of political image management, campaigns, propaganda and censorship. 3. Students understood the Indian context of political Journalism.
	Semester IV, Special Paper II **POLITICAL JOURNALISM**	
	Semester –III **Pub Ad G3** **DISTRICT ADMINISTRATION**	1. Students introduced with the concept of district administration. 2. Students understood the changes related to the district administration.
	Semester- IV **Pub Ad G2** **DISTRICT ADMINISTRATION**	
T.YB.A.	**Semester V** General Paper 3 **LOCAL SELF GOVERNMENT IN MAHARASHTRA**	1. Students introduced evolution of Local Self Government in Maharashtra 2.Students Understood the 73rd and 74th Constitutional Amendments 3. Students also understood the structure of Local Self Government 4. students learned to about composition, power and functions of local bodies
	Semester VI General Paper 3	

	LOCAL SELF GOVERNMENT IN MAHARASHTRA	
	Semester V Special Paper 3 **PUBLIC ADMINISTRATION** **Semester VI** Special Paper 3 **PUBLIC ADMINISTRATION**	1. Students enable to demonstrate understanding of various activities of governmental administrators that fall under the rubric of public administration to include rule making and other regulatory activities, policy making and the delivery of services and programs. 2. Students enable to understand the 20th century emergence of the modern administrative state as a result of the technological, social, economic and political pressures that have emerged in national industrialized and developed complex, interdependent systems. 3. Students enable to understanding of public administration as a career field in government.
	Semester V Special Paper 4 **INTERNATIONAL RELATIONS** **Semester VI** Special Paper 4 **INTERNATIONAL RELATIONS**	1. Students enable to understand the evolution, scope and significance of international relations. 2. Students enable to demonstrate an understanding of the key historical events and also they enable to understand contemporary international system and the key actors which shaped the international politics. 3. Students enable to discuss the main international relations theories. 4. Students enable to analyse importance of international relation in process of nation progress.
	Semester V Pub Ad G3 **LOCAL SELF GOVERNMENT IN INDIA** **Semester VI** Pub Ad G3 **SELF GOVERNMENT IN INDIA**	1. Students acquainted with the Objectives, Structure and Functions of Local Government. 2. Students acquainted with the working of the urban and rural system of Local Government. 3. Students identified the role of Local Government in development.

Course Outcomes (CO) - PG

M.A.-I **SEM - I**	**Traditions of Political Thought**	This course is meant to serve as a window on the major traditions of thought that have shaped political discourse in different parts of the world over the last three millennia. It stresses the great diversity of social contexts and philosophical visions that have informed the ideas of key political thinkers across epochs. The chief objective is to project the history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
	Administrative Theory	Public Administration is an essential part of a society. In last few years the profession of Public Administration is going through changes. Present paper aims to make aware the students about Evolution & Importance of the Public Administration. Paper introduces changing trends in the field of Public Administration.
	Political Institutions in India	The course introduces the student to the leading institutions of India's political system and to the changing nature of these institutions. Apart from explaining the structure and functions of the main institutions the course will try to acquaint students with the idea of institutional balance of power as discussed in the Indian constitution and as developed during the functioning of Indian democracy over the past seven decades.
	Political Process in Maharashtra	This course introduced students to an in-depth study of politics in one State- Maharashtra. Therefore, students are expected to understand both the historical evolution of Maharashtra's politics and

		different analyses of politics of the state. It is expected that the students will situated the politics in Maharashtra in three contexts One, the historical context of the region itself, two, the all India context and three comparative context of other states. This approach will help the students in distinguishing between the special and normal features of state's politics.
SEM.-II	**Comparative Political Analysis**	Students acquainted with the sub-discipline of comparative politics. It expects the students to understand the comparative methodology and dynamics of domestic politics across countries.
	Theory of International Politics	Students need a brief history of international politics to understand why we study the subject and how current scholarship is informed by what preceded it. Theories provide interpretative frameworks for understanding what is happening in the world and the levels of analysis. Competing theories are presented.
	Public Policy	This course provides an understanding of the basic concepts, theories and process of public policy to students. The course also seeks to help students understand public policy processes and actors involved in it by studying specific policies. It attempts to help students understand and analyse policy making in practical context
	Political Thought in Modern Maharashtra	The course is an introduction to the political thinking in Modern Maharashtra since the late 19th century. It tries to acquaint students with the main issues and concerns in the public life of a regional society as it shaped in the context of colonialism, nationalism and modernity. The course is woven around thematic issues rather than around individual thinkers in order to help students understand the essentially collective and yet diverse nature of political thought.
M.A.-II		Students introduced to the political ideas, views and concerns of leading Indian thinkers. The course

SEM-III	**Modern Political Thought**	encourages students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in pre and post-independence India.
	Political Sociology	Students introduced the overall scope of the sub-discipline of political sociology. The focus of the course is on the political sociology of power. The emphasis is on the nature of power in modern societies-more in the form of organizations and social formations than as individual power. Students are also expected to understand different forms of justifications of power and the role of ideology in this regard. State will be studied as a repository of power in society while class and patriarchy are two instances of how the nature of power is shaped by social factors.
	World Politics-New Developments	1. Students introduced to the contemporary issues and debates in the world politics. 2. Students made aware of the dimensions of the making of the foreign policy as well as the role of Non-State Actors in World Politics. 3. Students learn about the emerging New World Order and the challenges to it
	Research Methodology	1. This course introduced the concept and techniques of the students. 2. Students aware of the different tools of research. 3. Students introduced different stage of research such as research Design Data collection, Analysis and Report Writing.
SEM.-IV	**Fundamentals of Political Theory**	This course introduces the students to the evolution, importance to the study of Political Theory. It introduces Political Theory as a distinctive area of inquiry. It is the integral area to the study of politics.

		It highlights debates in the field and places them in a historical perspective.
	Political Process in India	This course introduced to the student the key issues and details of the political process in post-independence India. It will also try to develop among students a perspective to understand and analyse Indian politics. The aim is to help students understand the expansive meaning of political process as it shapes in the arena of electoral and party politics, in the form of mass mobilizations and as politics of interests.
	Politics and Society	Students enable to understand the interface of politics with social structures and processes and how the nature of power is shaped by social factors.
	Twentieth Century Political Thought	This Course provides glimpses of certain prominent intellectual currents that have shaped global political discourse in the twentieth century and beyond. It does so by focusing on major representative thinkers. The chief objective is to project the contemporary resonance and rich diversity of key perspectives, frameworks and agendas articulated by these seminal theorists and schools of thought.

Programme : B.Sc (Physics)

Sr No.	Programme Specific Outcomes
1	It helps in understanding the theoretical and mathematical development of the subject and to create interest in the subject.
2	It helps in general to improve scientific attitude. So emphasis is given on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and data and, results obtained.
3	It helps in understanding the concepts of physics. It underlines the strength of equations, formulae, graphs, mathematical tools to tackle the problems. So accordingly, we have introduced compulsory problem part in the question paper.
4	It helps in understanding the conceptual development of the subject and thereby increase the interest in the subject. A topic on this is introduced in the Physics Course.
5	It improves the scientific awareness among the students. A discussion on different subjects is encouraged.
6	It creates interest in the subject and improves technological aspect. Accordingly, mini projects, hands-on activities, projects, models and demonstrations etc. is included in the syllabi.
7	It creates interest in the subject to continue to work in the field of science in general and physics in particular. Accordingly future directions and frontiers of the subject are included in the syllabi.

Programme : M.Sc (Physics)

Sr No.	Programme Specific Outcomes
1	To foster scientific attitude, provide in-depth knowledge of scientific and technological concepts of Physics
2	To enrich knowledge through problem solving, minor/major projects, seminars, tutorials, review of research articles/papers, participation in scientific events, study visits, etc.
3	To familiarize with recent scientific and technological developments.
4	To create foundation for research and development in Physics.
5	To help students to learn various experimental and computational tools thereby developing analytical abilities to address real world problems.

6	To train students in skills related to research, education, industry and market.
7	To help students to build-up a progressive and successful career in Physics.

Course Outcome (CO)

Class	Subject	Course Outcome
F.Y.B.Sc	PHY-111 Mechanics and Properties of Matter	1.To foster scientific attitude, provide in-depth knowledge of scientific and technological concepts of Physics. 2. To enrich knowledge through problem solving, minor/major projects, seminars, tutorials, review of research articles/papers, participation in scientific events, study visits, etc. 3. To create foundation for research and development in Physics. 4. To help students to learn various experimental and computational tools thereby developing analytical abilities to address real world problems. 5. To train students in skills related to research, education, industry, and market. 6. To help students to build-up a progressive and successful career in Physics.
	PHY-112 Physics Principles and Applications	
	PHY-113 Physics Laboratory-IA	
	PHY-121 Heat and Thermodynamics	
	PHY-122 Electricity and Magnetism	
	PHY-123 Physics Laboratory-IB	
S.Y.B.Sc	PHY-231 Mathematical method in Physics-I	1.To help students to learn various experimental and computational tools thereby developing analytical abilities to address real world problems. 2. To train students in skills related
	PHY-232 Electronics	
	PHY-232 Instrumentation	

	PHY-233 Practical course (2A)	to research, education, industry, and market. 3. To help students to build-up a progressive and successful career in Physics.
	PHY-241 Oscillation waves & sound	
	PHY-242 Optics	
	PHY-243 Practical course (2B)	
T.Y.B.Sc	PHY-351 Mathematical Methods in Physics-II	1. It helps in general to improve scientific attitude. So emphasis is given on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and data and, results obtained. 2. It creates interest in the subject and improves technological aspect. Accordingly, mini projects, hands-on activities, projects, models and demonstrations etc. is included in the syllabi. 3.It creates interest in the subject to continue to work in the field of science in general and physics in particular. Accordingly future directions and frontiers of the subject are included in the syllabi.
	PHY-352 Electrodynamics	
	PHY-353 Classical Mechanics	
	PHY-354 Atomic and Molecular Physics	
	PHY-355 Computational Physics	
	PHY-356(B) Elements of Materials Science	
	PHY-357 Physics laboratory-3A	
	PHY-358 Physics laboratory-3B	
	PHY-359 Project-I	
	PHY-3510(G) Python Programming	
	PHY-3511(K) Physics Workshop Skill	
	PHY-361 Solid State Physics	
	PHY-362 Quantum Mechanics	
	PHY-363 Thermodynamics and Statistical Physics	
	PHY-364Nuclear Physics	
	PHY-365 (B) Advanced Electronics	
	PHY-366(R) Laser	
	PHY-367 Physics Laboratory 4A	
	PHY-368 Physics Laboratory 4B	
	PHY-369 Project-II	
	PHY-3610(U) scientific data analysis using python	

M.Sc I	PHCT-111 mathematical method in physics	1.To foster scientific attitude, provide in-depth knowledge of scientific and technological concepts of Physics 2. To enrich knowledge through problem solving, minor/major projects, seminars, tutorials, review of research articles/papers, participation in scientific events, study visits, etc. 3. To familiarize with recent scientific and technological developments 4. To create foundation for research and development in Physics 5. To help students to learn various experimental and computational tools thereby developing analytical abilities to address real world problems.
	PHCT-112 Classical mechanics	
	PHCT-113 Electronics	
	PHOT-114 Lasers and Applications	
	PHCP-115 Physics Lab-I	
	PHCT-121 Electrodynamics	
	PHCT-122 Atoms & Molecules	
	PHCT-123 Quantum Mechanics	
	PHOT-124 Physics of Semiconductor Devices	
	PHCP-125 Physics Lab-II	
M.Sc II	PHCT-231 Statistical mechanics	
	PHCT-232 solid state Physics	
	PHCT-233 Experimental Techniques in Physics - I	
	PHOT-234 Electronics Instrumentation – I	
	PHCP-235 Physics Laboratory - III	
	PHCT-241 Nuclear Physics	
	PHCT-242 Experimental Techniques in Physics-II	
	PHOT-243 Physics of Nanomaterials	
	PHOT-244 Electronics Instrumentation – II	
	PHCP-245 Project	

Special Subject: Botany

PSOs	Programme Specific Outcomes
1.	Critically evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize the position of plants in the broad classification and phylogenetic level.
2.	Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification.
3.	Accurately interpret collected information and use taxonomic information to evaluate and formulate a position of plant in taxonomy.
4.	Students will be able to apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.
5.	Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.
6.	Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
7.	Students will be able to apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations.
8.	Students will be able to identify the major groups of organisms with an emphasis on plants and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life.
9.	Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history.
10.	Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.
11.	Students will be able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.
12.	Students will be able to demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.

Course Outcomes (CO)-

Departments of Botany

Class	Subject	Course Outcomes
F.Y. B.Sc.	**SEMESTER-I** **111:Plant life and Utilization**	1) To provide thorough knowledge about various lower group organism like algae, fungi, lichen etc. Understand the diversity among Algae.
		2) Know the systematic, morphology and structure, of Algae.
		3) Understand the life cycle pattern of Algae.
		4) Understand the useful and harmful activities of Algae.
		5) Understand the Biodiversity of Fungi
		6) Know the Economic Importance of Fungi
		7) Understand the morphological diversity of Bryophytes.

		8) Understand the economic importance of the Bryophytes.
		9) Know the taxonomic position, occurrence, thallus structure, reproduction of Bryophytes.
		10) Become aware of applications of different plants in various industries.
		11) To highlight the potential of these studies to become an entrepreneur.
	112: Plant morphology and Anatomy	To provide knowledge about external features for identification, collection, description, and internal features through section of various plant part like root, stem, leaf.
		2) Understand plant morphology
		3) Understand basics of floral morphology
		4) Understand how plant morphology relates to plant reproduction
		5) Understand significance of morphological modifications of plant parts
		6) Have foundation for a course on Plant Systematics
		7) Anatomy of plants, cells, tissues, salient characters of simple and complex tissues. Explain the primary structure of dicot and monocot root, stem and leaf.
		8) To allow the students to understand the difference in the anatomy of dicot and monocot, learn to apply this knowledge in identification of isolated plant organs.
		9) Study of epidermal outgrowths and stomata of dicot and monocot leaves.
	113: PRACTICALS BASED ON BO 111 & BO 112	1) The study of macroscopic and microscopic characters and identification of algae, fungi, lichens and bryophytes.
		2) To learn the vegetative and reproductive structures of angiospermic plants and their functions and modifications.
		3) Distinguish between different plant groups
		4) Make a thorough background for a course on Plant Systematics.
	SEMESTER-II **121: PLANT LIFE AND UTILIZATION-II**	1) Identify the different location of the plants belonging to Pteridophyta.
		2) Explain the classification, occurrence, structure, reproduction and life cycle of Nephorolepis.
		3) Describe the stellar evolution.
		4) Explain the general characteristic of Gymnosperms.
		5) Write about the classification, occurrence, structure, reproduction life cycle Cycas.
		6) Explain the economic importance of gymnosperms.
		7) Understand the basic structure of leaf, its types and their modification.
		8) Describe the margin, shapes, apex and base of each leaf.
		9) Explain the basic structure of infloresences and its types along with the modification.
		10) Describe in detail the plants belonging to family Malvaceae and Amaryllidaceae.
	122: PRINCIPLES OF PLANT SCIENCE	1) Know about the basic principles of plant function, metabolism, secondary products, cell physiology & principles of growth & development.
		2)Prokaryotic and eukaryotic cell structure ,General structure of plant cell: cell wall, Plasma membrane (bilayer lipid structure, fluid mosaic model) Mitosis
		3) Ultra structure and functions of the following cell organelles:
		4) Endoplasmic reticulum and Chloroplast
		5) Know about the genomic organization or living organisms, study of genes genome, chromosome etc.
		6) Gain knowledge about the mechanism and essential component required for prokaryotic DNA replication.
		7) Understand the fundamentals of Recombinant DNA Technology.
		8) Know about the Genetic Engineering.
		9) Understand the principle and basic protocols for Plant Tissue Culture.

	123: PRACTICALS BASED ON BO 121 & BO 122	1) Distinguish between different plant groups
		2) Differentiate various parts of angiospermic plant on the basis of internal organization.
		3) Know about the DPD, Osmosis, chlorophyll-a and chlorophyll-b
		4) Know about the mitosis- preparation of slides using onion root tips.
		5) Know about the comparative account of Dicotyledonous and Monocotyledonous plants.
S.Y. B.Sc. Botany	**SEMESTER-I** **231:Taxonomy of Angiosperms and Plant ecology**	1) To provide knowledge about flowering plants and its reproductive character and vegetative characters
		2) To study interaction between Abiotic and Biotic component
		3). The students understand the Plant taxonomy and their classification systems.
		4) Students know the modern approaches in taxonomic studies.
		5) Students learn the role of taxonomy in conservation of biodiversity.
		5) Earn the diversity of angiosperms.
		6) Know the comparative account among the families of angiosperms.
		7) Understand the economic importance of the angiosperm plants.
	232: Plant Physiology	1) Students learn the absorption, translocation and utilization of water and other minerals.
		2) Understand the changes during growth process (germination to abscission).
		3) Learn the energy flow and various metabolic cycles with their integration.
		4) Understand the overall perception about various physiological processes occurring in plants.
	Practical based on BO 231 & BO 232	1) To get practical presentation and study through specimen, samples, equipment's and microscopic handling.
		2) Know about absorption, translocation and utilization of water and other minerals.
	SEMESTER-II **241:Plant Anatomy and Embryology**	1) Students know the scope & importance of Anatomy and Embryology.
		2) Learn the various tissue systems.
		3) Know the normal and anomalous secondary growth in plants and their causes.
		4) Perform the techniques in anatomy.
		5) Understand male and female gametophytes.
		6) Know fertilization, endosperm and embryogeny.
	242: Plant Biotechnology	1) Understand the fundamentals of plant tissue culture techniques.
		2) Know the transgenic technology for the improvement of quality and quantity of plant and thereby product.
		3) Learn the application and importance of plant tissue culture and transgenic plants.
	Practical based on BO 241 & BO 242	1) To get acquainted with the subject in live form and field visit, identifying weed species.
T.Y. B.Sc.	**SEMESTER-I** **331: Cryptogamic Botany**	1.To give information regarding lower organism with to its sporophytic and gametophytic study.
		2. Interpret the performance characteristics & life cycles of various lower plants
	332: Cell and Molecular Biology	1.By the end of this course students will be able to understand the structure of cells in relation to the functional aspects.
		2. to understand the difference between prokaryotic and eukaryotic cells.
		3. to study the details of the plant cell wall, cytosol and cytoplasmic organelles.
		4. to learn the functioning of the cell at the molecular level.

		5. to understand the properties of nucleic acids (DNA &RNA)
		6. to study the details of protein synthesis and cell signalling.
	333: Genetics and Evolution	1.Analyze the evolution with genetical characteristics for future aspects
		2. To provide information about inheritance and variation in organism etc
	334: Spermatophyta And Palaeobotany	1. Evaluate the performance of various line of evolution with respect to live and fossil forms of fossil.
		2. Understand the various fossil genera representing different fossil groups
	335: Horticulture and Floriculture	1.To develop the skills to become Entrepreneurship for small scale start up.
		2. Gain knowledge about various plants of economic use.
		3. Know about exploitation of Heterosis, hybrid and variety development and their release through artificial hybridization.
	336: Computational Botany	Apply optimization, numerical methods, statistical methods to solve problems, hypothesis

Special subject: B. Sc. (Chemistry)

PSOs	Programme Specific Outcomes
1	Chemicals identifications, handelling, safety precautions and primary tratment.
2	Learning basic knowledge of all branches of chemistry.
3	Employ critical thinking and scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
4	Apply the knowledge of chemistry for daily life for growth of society.
5	Develeop environmentally bening and cost effective method for synthesis of usefull chemical compounds.
6	To develop basic chemistry reserch interest in students.
7	Operating basic chemistry instuments.
8	Uses of chemistry softwares.

Special subject: M. Sc. (Organic Chemistry)

PSOs	Programme Specific Outcomes
1	Basic concepts of organic chemistry
2	Determine molecular structure by using UV, IR and NMR.
3	Study of medicinal chemistry for lead compound.
4	Improve the Skill of students in the organic research area.
5	Synthesis of Natural products and drugs by using proper mechanisms.
6	Study of Asymmetric synthesis.
7	Determine the aromaticity of different compounds.
8	Solve the reaction mechanisms and assign the final product.

Course Outcomes (CO)

Department of Chemistry:

Class	Subject	Course outcomes
		First Semester
FYBSc	**CH-101: Physical Chemistry**	• Students will be able to apply thermodynamic principles to physical and chemical process • Calculations of enthalpy, Bond energy, Bond dissociation energy, resonance energy • Variation of enthalpy with temperature –Kirchhoff's equation • Third law of thermodynamic and its applications • Relation between Free energy and equilibrium and factors affecting on equilibrium constant. • Exergonic and endergonic reaction • Gas equilibrium, equilibrium constant and molecular interpretation of equilibrium constant • Van't Haff equation and its application • Concept to ionization process occurred in acids, bases and pH scale • Related concepts such as Common ion effect hydrolysis constant, ionic product, solubility • product • 11. Degree of hydrolysis and pH for different salts , buffer solutions
	CH-102 : Organic Chemistry	• To understand fundamental concept of organic chemistry. • To understand reactivity and stability of organic compounds. • To learn basic stereochemistry of organic compound. • Identify difference between basic hydrocarbons
	CH- 103: Chemistry Practical	• Importance of chemical safety and Lab safety while performing experiments in laboratory • Determination of thermochemical parameters and related concepts • Techniques of pH measurements • Preparation of buffer solutions • Elemental analysis of organic compounds • 6. Chromatographic Techniques for separation
		FYBsc Second Semester
FYBSc	**CH-201: Inorganic Chemistry**	• Various theories and principles applied to revel atomic structure • Origin of quantum mechanics and its need to understand structure of hydrogen atom • Understanding of periodic table and basic chemical and physical properties of elements. • Learning types and mechanism of chemical bonding. • Stable geometries of molecule from VSPER teory

	CH- 202: Analytical Chemistry	• Introduction of analytical Chemistry • Preparations of solutions and ways to express their concentration • Qualitative analysis and purification of organic compounds. • Chromatographic techniques of separation. • Construction and working of pH meter. • Measurement of pH of different solutions
	CH-203 Chemistry Practical –II	• Inorganic Estimations using volumetric analysis • Synthesis of Inorganic compounds • Analysis of commercial products • Purification of organic compounds • Preparations and mechanism of reactions involved
SYBSc First Semester		
SYBSc	**CH-301 Physical & Analytical Chemistry**	• Introduction to chemical kinetics and rate law of reactions • Understanding order, molecularity of reactions • Factors affecting on rate of reaction • Rate constant equations for first, second order reactions • Adsorptions and absorption phenomenon • Factors affecting on adsorption • Different adsorption isotherm • Error in quantitative analysis • Classification of errors and ways to minimize it. • Identify significant figure and their computations • Basics of volumetric analysis • Different types of volumetric analysis (non-instrumental)
	CH-302 Inorganic & Organic Chemistry	• Understanding molecular orbital theory • Applying LCAO principle for the formation of MO's from AO's. • Predicting stability of molecule on the basis of bond order. • Understanding bonding in diatomic molecule • Introduction of coordination chemistry and coordination compound • Werner's theory of coordination compound • IUPAC naming of coordination compounds • Identify and draw the structures aromatic hydrocarbons from their names or from structure name can be assigned. • Reactions mechanism and reagent for aromatic compounds • Identify and draw the structures alkyl / aryl halides from their names or from structure name can be assigned. • Write / discuss the mechanism of Nucleophilic Substitution (SN1 , SN2 and SNi) reactions. • Identify and draw the structures alcohols / phenols from their names or from structure name can be assigned.
	CH-303: Practical Chemistry-III	• To study kinetics and hence determine the rate constant of some basic reactions

		• Qualitative analysis of organic compounds and their preparations • Estimations of inorganic compounds or commercial compound by volumetric analysis • Deciding best or suitable indicator form pH merry.
SYBSc Second semester		
SYBSc	**CH-401 Physical & Analytical Chemistry**	• Basics terms involved in Phase Equilibrium • Drawing phase diagram for one-component system • various terms, laws, differentiate ideal and no-ideal solutions • Interpretation of i) vapor pressure–composition diagram ii) temperature- composition diagram. • Construction and working of conductometer • Apply conductometric methods of analysis to real problem in analytical laboratory • Basics terms and laws of spectrophotometry. • Analysis of chemical sample by using colorimetric methods. • Understanding column chromatography, ion-exchange chromatography and terms involved in it. • Apply chromatographic technique for purification and separation of compound.
	CH-402: Inorganic and Organic Chemistry	• Identifying Isomerism in coordination complexes • VBT theory of coordination compounds • Identifying inner and outer orbital complexes • Applying CFT to different complexes • Calculating stabilization energy of complexes • Magnetic properties of • Structures, nomenclature preparations and reaction mechanism of Aldehyde and ketones • Structures, nomenclature preparations and reaction mechanism of carboxylic compounds • Structures, nomenclature preparations and reaction mechanism of Amines • Stereochemistry of cyclohexane
	CH-403 Practical Chemistry-IV	• Phase diagram of phenol-water system • Synthesis of coordination compounds • To verify the Freundlich and Langmuir adsorption isotherm for adsorption of acetic acid on activated charcoal • Colorimetric estimation of metal ion form aqueous solution
TYBSc First Semester		
	CH-501 Physical Chemistry -I	• To know the history and development of chemistry • Understand and explain the differences between classical and quantum mechanics. • Solving Schrodinger equation for 1D, 2D and 3D model

		• Applications to conjugated systems, zero-point energy and quantum tunnelling • To understand and interpret the molecular structure by molecular spectroscopy • Introduction and basics of IR, Microwave spectroscopy
	CH-502 Analytical Chemistry-I	• Understanding of analysis of inorganic compounds by gravimetric analysis. • Analysis of compound by thermal methods of analysis • UV-Visible spectroscopy: Principal, working, constructions and application. • Inorganic qualitative analysis.
	CH-503 Physical Chemistry Practical -I	• To Analyze of acid mixture, metal salt by conductometric method. • Simultaneous and bare metal determination by colorimetry. • To determine the refractive index of pure liquid or their mixtures. • To determine the molecular weight of polymer by viscosity method.
TYBSc	**CH-504 Inorganic Chemistry-I**	• To explain Nephelauxetic effect, charge transfer, sigma bonding of coordination compound using MOT • Understand the mechanism of inorganic reactions. • To study the chemistry of transition elements. • To understand the basics and difference between metals, semiconductor and superconductor. • Applications of superconductors.
	CH-505 Industrial Chemistry-II	• Importance of chemical industry. • Difference between batch and continuous process • Concept of basic chemicals and their different manufacturing process. • Importance of sugar industry. • Basic requirements of fermentation process • Manufacturing of ethyl alcohol by using molasses and fruit juice.
	CH-506 Inorganic Chemistry Practical -I	• Qualitative Analysis of the inorganic binary mixture • Quantitative analysis of Fe, Ba, Ni, etc. by gravimetric analysis. • Preparation coordination complexes.
	CH-507 Organic Chemistry-I	• To introduce and classify polynuclear and heteronuclear aromatic hydrocarbons. • To Write the structure, reactivity and synthesis of polynuclear and hetreonuclear aromatic hydrocarbons. • To predict product with panning or supply the reagent/s for these reactions. • To predict product with panning or supply the reagent/s for these reactions. • 1,1 and 1,2 elimination 2. E1, E2 and E1cB mechanism with evidences of these reactions.

	CH-508 Chemistry of Biomolecules	• To identify biological composition and organization of cell membrane, structure and function of various cell organelles of plant and animal cell. • To know types of carbohydrates and their biochemical significance in living organisms, structure of carbohydrates and reactions of carbohydrates with Glucose as example. Properties of carbohydrates. • To know the types of lipids with examples, structure of lipids, properties of lipids • To understand the structure and types of amino acids. Reactions of amino acids. Properties of amino acids. Peptide bond formation. Types of proteins. Structural features in proteins. Effect of pH on structure of amino acid, Determination of N and C terminus of peptide chain. • Basic concepts of Endocrinology. Types of Endocrine glands and their hormones. Biochemical nature of hormones. Mechanism of action of lipophilic and hydrophilic hormones.
	CH-509 Organic Chemistry Practical-I	• To prepare the organic derivatives and preparations. • Synthesis of various organic compounds through greener approach. • Separation of organic binary mixtures. • Understand principle of Thin Layer Chromatographic techniques. • Understand the purification technique used in organic chemistry.
	CH-510 B Polymer Chemistry	• To distinguish simple compound and polymer. • To understand history, nomenclature, classification of polymer. • Terms-Monomer, Polymer, Polymerization, Degree of polymerization, Functionality, Number average, Weight average molecular weight. • Role of polymer industry in the economy. • Uses & properties of polymers.
	CH-511 A Environmental Chemistry	• Importance and conservation of environment, biochemical cycles. • To understand Water resources, organic & inorganic pollutant, hydrological cycle, water quality parameter • To use analytical technique for water analysis. • Management of industrial waste
	TYBSc Second Semester	
	CH-601 Physical Chemistry -II	• To know electrochemical cells: Explanation of Daniell cell, Conventions to represent electrochemical cells • To understand the primary reference electrode: The standard hydrogen electrode (SHE) with reference to diagram, Construction, representation, working and limitation.

TYBSc		• Applications of emf measurements: 1. Determination of pH of a solution by using hydrogen electrode, quinhydrone electrode and glass electrodes 2. Potentiometric titrations: i) Acid-base titrations, (ii) Redox titrations and (iii) Precipitation. • Secondary Batteries: Nickel-cadmium, Lithium-ion batteries, the lead acid battery with respect to construction, diagram and working • Applications for Secondary Batteries • Fuel Cells: Types of fuel cells, advantages, disadvantages of these fuels cells, comparison of battery Vs fuel cell • To Distinguish between crystalline and amorphous solids / anisotropic and isotropic solids. • Methods of Crystal structure analysis: The Laue method and Braggs method: Derivation of Bragg's equation, • X ray analysis of NaCl crystal system and Calculation of d and λ for a crystal system, • To understand Radioactivity, types and properties of radiations: alpha, beta and gamma • Detection and Measurement of Radioactivity: Cloud chamber, Ionization Chamber, Geiger-Muller Counter, Scintillation Counter, Film Badges • Types of radioactive decay: α- Decay, β-Decay and γ-Decay • Application of radioisotopes as a tracer: Chemical investigation-Esterification, Friedel -Craft reaction and structure determination w.r.t PCl5, Age determination use of tritium and C14 dating.
	CH-602 Physical Chemistry -III	• Meaning of the terms-Solution, electrolytes, nonelectrolytes and colligative properties • Investigation of colligative properties such as lowering in vapor pressure, elevation in boiling point, osmatic pressure, depression of freezing point etc. • Application of colligative properties to determine molecular weight of nonelectrolyte, abnormal molecular weight • Factors affecting on solid state reactions, • Rate laws for reactions in solid state • Applying rate laws for solid state reactions • Results of kinetics studies. • To understand history, nomenclature, classification of polymer. • Terms-Monomer, Polymer, Polymerization, Degree of polymerization, Functionality, Number average, Weight average molecular weight. • Role of polymer industry in the economy. • Uses & properties of polymers.

TYBSc	**CH-603 Physical Chemistry Practical -III**	• To determine formal redox potential, estimation of NaCl and halide ion by Potentiometric method. • Determination of standard electrode potential • Determination of dissociation constant of weak monobasic acid by potentiometric and pH metric titration. • To Use colligative properties to determine molecular weight of nonelectrolyte, abnormal molecular weight • To determine the molecular weight by turbidimeter. • Analysis of X-ray diffractogram of different compounds
	CH-604 Inorganic Chemistry-II	• To understand M-C bond and to define organometallic compounds • To know methods of synthesis of binary metal carbonyls. • To understand the uses of organometallic compounds in the homogenous catalysis. • Understand the essential properties of homogeneous catalysts- Give the catalytic reactions for Wilkinson's Catalysis, hydroformylation reaction, Monsanto acetic acid synthesis, Heck reaction. • Understand the principle of heterogeneous catalyst and development in it. • Understand the catalytic reactions used in industries around. • Identify the biological role of inorganic ions & compounds. • Explain the functions of hemoglobin and myoglobin in O2 transport and storage. • To know the types, synthesis, and structure of Inorganic polymers • Ionic liquids, their preparations, and their significance w.r.t green chemistry • Technological importance of ionic liquids,
	CH-605 Inorganic Chemistry-III	• Basic concept of acid, bases their properties, strength and factor affection on it. • To know the nature and crystal structure of solid. • Draw the simple cubic, BCC and FCC structures. • Know the effect of radius ratio in determining the crystal structure. • Different Zeolite Framework Types and their classification and classification. • Various methods of nanoparticle synthesis • Properties and applications of nanoparticles. • To know toxic chemical in the environment. • To know the impact of toxic chemicals on enzyme.
	CH-606 Inorganic Chemistry Practical -II	• Estimation of phosphate from fertilizer, iodine from iodized salt, calcium from milk, Cu from fungicide by volumetric analysis.

		• Estimation of Na and K from flame photometry. • Purification of water using cation/anion exchange resin and analysis by qualitative analysis /conductometry. • Synthesis of Ag and ZnO nanomaterial. • Band gap calculation for the nanomaterial TiO2/ SnO2/ ZnO from its electronic spectra (UV-Visible).
	CH-607 Organic Chemistry -II	• To Understand the principle and working of UV, IR, NMR and MS spectroscopy. • To calculate maximum wavelength for any conjugated system. And from the value of λ-max they will be able to find out the extent of conjugation in the compound. • To find out IR frequencies of different functional groups. And thus, they will be able to find functional groups present in the compound. • To interpret the NMR data and they will be able to use it for determination of structure of organic compounds. • To determine the structure of simple organic compounds on the basis of spectral data such as λ max values, IR frequencies, chemical shift (δ values).
	CH-608 Organic Chemistry-III	• To study Retrosynthesis and Synthesis of target molecules: Acetophenone, Crotonaldehyde, Cyclohexene, Benzylbenzoate, and Benzyl diethyl malonate. • To study chemistry of reactive intermediates (carbocations, carbanions, free radicals, carbenes, nitrenes, benzynes etc…); • Preparation and applications of various oxidizing and reducing agents. • Introduction, Isolation, Classification. Citral- structure determination using chemical and spectral methods, Synthesis of Citral by Barbier and Bouveault Synthesis. • Introduction, extraction, Purification, Some examples of alkaloids and their natural resources. Ephedrine- structure determination using chemical methods.Synthesis of Ephedrine by Nagai.
	CH-609 Organic Chemistry Practical -III	• To achieve the practical skills required to estimations of glucose and glycine. • To determine the molecular weight of given tribasic acids. • To understand the equipment for extraction • To gain practical hands-on experience of modern Extraction. • To defines the basic parameters in chromatography • To explain the processes of a chromatography analysis • To realize the selection of appropriate mobile phase, column and detector •

	CH-610 (A) Chemistry of Soil and Agrochemicals	• Understood various components of soil and soil properties and their impact on plant growth. • To Understood the classification of the soil. • To Explores the problems and potentials of soil and decide the most appropriate treatment for land use. • Understood the Reclamation and management of soil physical and chemical constraints. • Useful in making decisions on nutrient dose, choice of fertilizers and method of application etc. practiced in crop production. • Understood various Nutrient management concepts and Nutrient use efficiencies of major and micronutrients and enhancement techniques. • Imparts knowledge on different pesticides, their nature and, mode of action and their fate in soil so as to monitor their effect on the environment.
	CH-611 (B) Analytical Chemistry	• Basic concept of solvent extraction. • Determination of Fe(III) with 8-hydroxyquinoline, determination of nickel by synergistic extraction. Solid phase extraction • Basics principles, working and construction of GC, HPLC, AAS and FES. • Application of GC, HPLC, AAS and FES. • Differentiate / distinguish / compare among the different analytical terms, process and analytical methods.

Department: Chemistry

Course Outcome:

Course : MSc. Organic Chemistry

Class	Sem	Subject	Course outcome
M.Sc - I	**I**	**CHP-110 Physical Chemistry-I**	1. Know historical of development of quantum mechanics in chemistry. Understand and explain the differences between classical and quantum mechanics. 2. Understand the idea of wave function 4. Understanding of De Broglie hypothesis and the uncertainty principle 3. Understanding the operators: Position, momentum and energy. Solving Schrodinger equation for 1D, 2D and 3D model 4. Physical interpretation of the ψ and ψ2 and sketching the wave function. Applications to conjugated systems, zero-point energy and quantum tunnelling, Numerical Problems 5. To understanding the Operators: algebra of operators, commutative property, linear operators, commutator operator, the operator ∇ and ∇2, Valence bond theory, Huckel theory. 6. Chemical Thermodynamics: to understanding the first, second and third law of thermodynamics and its applications. Change of States in which proper getting the knowledge of raoults and henry's law, some of the points related to the colligative properties. 7. Define / Explain concept of kinetics, terms used, rate laws, molecularity, order. Explain factors affecting rate of reaction. Explain / discuss / derive integrated rate laws, characteristics, expression for half-life and examples of zero order, first order, and second order reactions. 8. Determination of order of reaction by integrated rate equation method, graphical method, half-life method and differential method. Explain / discuss the term energy of activation with the help of energy diagram.

			9. Explanation for temperature coefficient and effect of temperature on rate constant k. Derivation of Arrhenius equation and evaluation of energy of activation graphically. 10. Derivations of collision theory and transition state theory of bimolecular reaction and comparison. Solve / discuss the problem based applying theory and equations, Enzyme catalysis and Statistical Thermodynamics.
		CHI-130 Inorganic Chemistry-I	1. Student should visualize/ imagine molecules in 3 dimensions. 2. To understand the concept of symmetry and able to pass various symmetry elements through the molecule. 3. Understand the concept and point group and apply it to molecules. 4. To understand product of symmetry operations. 5. To apply the concept of point group for determining optical activity and dipole moment.
		CHO-150 Organic Chemistry-I	1. To understand some fundamental aspects of organic chemistry, to learn the concept aromaticity, to understand the various types of aromaticity 2. To study heterocyclic compound containing one and two hetero atoms with their structure, synthesis and reactions. 3. To know stereochemistry of organic compounds; able to do interconversion of Fischer to Newmann, Newmann to Sawhorse and vice versa, Able to assign R and S to given molecules; understand stereoselective and stereospecific reactions; acquire knowledge on topicity. 4. To study structure, formation, stability and related name reaction of intermediates like Carbocation, Carbanion, Free Radical, Carbenes and nitrenes; Recognize neighboring group participation. 5. To study rearrangement reaction with specific mechanism and migratory aptitude of different groups.
		CHG – 190 **(Section I) General Chemistry-I**	1. Understanding the basic mathematics of functions, Differential Equations, Vectors Matrices, and Determinants which is required in the chemical science.

		CHG – 190 (SECTION-II) (Inorganic Material Analysis, Synthesis and Applications Practical Course)	2. Useful to analyze different ore qualitatively and quantitatively . 3. To understand the various process involved in analysis of ore and to determine content and quantity of each elements 4. To study the different alloy and its composition and processes involved in it . 5. Useful for preparation of nano material by methods like sole gel, precursor method and to determine band gap by absorption .
		CHP-107: Practical Course – I:	ents are trained to different purification techniques in nic chemistry like recrystallization, distillation, steam llation and extraction. ents are made aware of safety techniques and handling of nicals
M.Sc II	**II**	**CHP-210 Physical Chemistry-II**	1. Electromagnetic spectrum, Nature of wave and its characteristics such as wavelength, wave number, frequency and velocity, Energy level diagram, 2. Classification of molecules on the basis of moment of Inertia, 3. Rotational spectra of rigid diatomic molecules, selection rules, nature of spectral lines. 4. Simple Harmonic oscillator model, Born-Oppenheimer approximation. Vibrational spectra of diatomic molecules selection rules, nature of spectral lines. 5. Explain the difference between Rayleigh, Stokes and anti-Stokes lines in a Raman spectrum. 6. Justify the difference in intensity between Stokes and anti-Stokes lines. 7. Draw the Stokes and anti-Stokes lines in a Raman spectrum 8. Raman spectra: Concept of polarizability, 9. Pure rotational Raman spectra of diatomic molecules, Energy Expression, Selection rule, Rotational energy level diagram, Rotational Raman spectrum and Problems. 10. To understanding the points of Nuclear and radiation chemistry in which Radioactivity, Elements of Radiation, and Applications of Radioactivity

		CHI-230 Inorganic Chemistry-II	1. Student should able to find out the no of microstates and meaningful term symbols, construction of microstate table for various configuration 2. Hund's rules for arranging the terms according to energy. 3. Student should understand interelectronic repulsion. 4. Student should know the concept of weak and strong ligand field. 2. 5. Student able to find out splitting of the free ion terms in weak ligand field and strong ligand field.
		CHO – 250 Organic Chemistry-II	1. MOT and will be able to extend this in predicting reaction mechanism and stereochemistry of electrocyclic reactions. 2. The concepts in free radical reactions, mechanism and the stereo chemical outcomes. 3. 3. The basic principle of spectroscopic methods and their applications in structure elucidation of organic compounds using given spectroscopic data or spectra.
		CHG – 290, General Chemistry -II (SECTION-I: Theory Course)	1. Valence electron count, back bonding in organometallics, spectral characterization of organometallic compounds. 2. Catalytic reaction involving organometallic compounds and mechanism of these reactions . 3. Types of reaction involving organometallic compounds. 4. Types of reactions in coordination compounds, inert and labile complexes, substitution reactions in coordination complexes and their mechanism, stereochemistry of reaction, kinetics of reactions.
		CHG – 290 (SECTION-II: Practical Course)	1. Students will be able to explore new areas of research in both chemistry and allied fields of science and technology. 2. Students will be able to function as a member of an interdisciplinary problem solving team. 3. To impart the students thorough idea in the chemistry of chemical kinetics, Conductometry, Potentiomerty, colorimetry and pH metry. 4. Analysis of powder XRD of SrTiO3 and Ag metal or any two compounds (Calculation d, lattice constant, crystal volume and density, and assigning planes to peaks using JCPDS data) 5. Cyclic voltamogram of K3Fe(CN)6 in KCl/H2O / Ferrocene in TEAP//MeCN

			Detailed interpretation of Raman spectra of diatomic molecules
		CHP-227: Practical Course-I	1. to synthesis co-ordination complexes and determine their purity , 2. 2.structural determination of metal complex , complex formation rate ,ionic conductance and solubility product by conductometry 3. 3.synthesis of photosensitive co-ordination complex and effect of light on it and study of rate of substitution reaction . 4. sepration of some ionic mixture by using chromatography technique 5. 5.determination of concentration of some ions by using solvent extraction and by using colorimetric technique **6. SECTION II** 7. 1.This course is designed to make students aware of how to perform organic compounds in laboratory. 1. The course includes synthesis of some derivatives and organic compounds, which will help them while working in research laboratory in future. 2. Making derivatives of organic compounds will help them in industry or while doing research in medicinal chemistry for Drug development. 8. This practical course is also designed to make student aware of green chemistry and role of green chemistry in pollution reduction. 9. 5. The students learn how to avoid solvents and do solvent free reaction.
M.Sc II	**III**	**CHO-350: Organic Reaction Mechanism and Biogenesis**	1. useful for to understand reactiom mechanism and which methods can be use to determine reaction methods , like kinetic isotopic substitution and its effect on reaction rate . 2. 2.free radicals reactions are very useful for understanding ,, radical generation , its stability , reactivity, which is widely used in synthesis of various polymers which is useful in daily life . 3. to understand the transition state of reaction and stability . 4. 4. biogenesis is very useful for understand the shikimate pathway , natural resources , origin, mechanism , role ,and uses of various natural product ,like ,terpenoids , alkaloids ,amino acids .
		CHO-351: Structure Determination of Organic Compounds by Spectroscopic Methods	1. Students should able to solve 1H-NMR problems and should also able to draw the 1H-NMR spectrum for simple organic compounds mentioning multiplicity pattern and coupling

			constant with the help of "Tree Diagram" Should able to predict and analyze the multiplicity patterns with more than one coupling constants. 2. Student should able to determine stereochemistry of compound with help of spectroscopy 3. The basic principle of spectroscopic methods and their applications in structure elucidation of organic compounds using given spectroscopic data or spectra.
		CHO-352: Stereochemistry and Asymmetric Synthesis of Organic Compounds	1. student should able to draw conformation of cyclic compound 2. Students should able to draw geometry of cyclohexane and determine stability . 3. Students should able to study the mechanism of asymmetric synthesis
		CHO-353A: Protection - De-protection, Chiron approach and Carbohydrate Chemistry	1. student should able to know the reagent and condition of protection -deprotection 2. student should able to determine the mechanism of protection -deprotection 3. student should able to study the basic concept of carbohydrates. 2. 4. To study synthesis of glycosides.
		CHO-354: Practical I: Solvent Free Organic Synthesises	1. synthesis of some organic compounds by using methods solvent free synthesis 2. to understand steps involving in the synthesis of solvent free like, grinding, mixing , heating , separations ect . 2. Useful understand basic principle of green chemistry . 3. A solvent-free or solid state reaction may be carried out using the reactants alone or incorporating them in clays, zeolites, silica, alumina or other matrices. Thermal process or irradiation with UV, microwave or ultrasound can be employed to bring about the reaction. 4. To understand reduced pollution, low costs, and simplicity in process and handling
M.Sc II	**IV**	**CHO-450: Chemistry of Natural Products**	1. To understand the total planning of some natural products like longifolene. 2. To understand the origin of some naturally occurring compound from, fungi, microorganisms, grasses and their properties and medicinal uses. 3. 3.study of hirsute lone, ribisins , vannusals and pinnaic acid
		CHO-451: Organometallic Reagents in Organic Synthesis	1. To study structure, formation, stability and related name reaction. 2. To study rearrangement reaction with specific mechanism and migratory aptitude of different groups.1

		CHO-452A: Medicinal Chemistry	Students will 1. Understand development of various antibiotics. 2. Understand mode of actions of different antibiotics. 3. Study pharmacokinetics and pharmacodynamics of antibiotics 2. Understand the selective toxicity and side effects of various antibiotics. 3. Will understand diseases caused by various pathogens and their treatment. 4. Will biochemical basis of cancer and different approaches to treat cancer. 5. 7. Will study functioning of systems like CNS, CVS, Gastrointestinal system and endocrine
		CHO-453: Practical III: Section-I: Ternary Mixture Separation	The students should be able to 1. Understand and employ concept of type determination and separation 2. Meticulously record physical constants 3. Perform micro scale chemical elemental analysis 4. Perform qualitative estimation of functional groups 5. Recrystallize /distill the separated compounds
		CHO-453: Practical III: Section-II: Carbohydrates Synthesis and Isolation of Natural Products	1. Students should be able to collect a reasonable quantities natural products to do the characterization (Physical Constant, solubility, Elemental analysis functional group test etc) and should also form the appropriate derivative. They are encouraged to study novel medicinal plants from their local area.
		CHO-454: Practical II: Convergent and Divergent Organic Syntheses	1. All experiments should be carried out on micro-scale and by considering stoichiometric quantities of reactants and reagents with the proper understanding of the mechanism 2. Students should able to read MSDS and should handle chemicals and reactions accordingly

Maratha Vidya Prasarak Samaj's
Karmveer Kakasaheb Wagh Arts, Science and Commerce College,
Pimpalgaon Baswant Tal- Niphad, Dist- Nashik
Academic Year: 2021-22

Department of Electronic Science

Programme Specific Outcomes:

B.Sc. (Electronic Science)

On completion of the B.Sc. with Electronic Science students will be able to…

Sr. No.	Programme Specific Outcomes
1	To understand importance of Electronics in day today life
2	To understand basics of electronic circuits
3	To make the students learn through problem solving
4	To understand few electronic systems
5	To build and understand application circuits of electronic devices.
6	To encourage the students for making use of simulation software for testing the circuits before experimentation.
7	The aim of the course is to generate trained manpower with adequate theoretical and practical knowledge of the various facets of electronic circuits and systems. Due care is takento inculcate conceptual understanding in basic phenomena, materials, devices, circuits and products and development of appropriate practical skills suitable for industrial needs.

Course Outcomes (CO) - UG

Department of Electronic Science

Class	Subject	Course Outcomes
F.Y.B.Sc.	Semester-I Paper I EL- 111: Basics of Applied Electronics	1. To identify different parameters /functions / specifications of components used in electronic circuits 2. To solve problems based on network theorems. 3. To perform simulations using simulator for analysing network performance
	Semester-II, Paper I EL-121: Fundamentals of Digital Electronics	1. To solve problems based on inter conversion of number systems 2. To reduce the expression using Boolean theorems 3. To reduce expressions using K maps in SOP and POS forms 4. To understand how to use flip flops to build modulus counter 5. To familiarize with applications of counters like ring counter or event counter
	Semester-I , Paper II: EL- 112: Electronic Devices and Circuits	1. To analyze performance parameters based on study of characteristics of electronic devices like diode, transistors etc 2. To choose proper electronic devices as per the need of application 3. To perform simulations for designing and analyzing diode/transistor circuits 4. To build and test the circuitslike street light controller using electronic devices 2. Students are introduced with the principles and types of Administration.
	Semester-II, Paper II EL- 122: Analog and Digital Device applications	1. To compare different opamps as per specifications or performance parameters 2. To understand opamp circuits and its usefulness in different applications 3. To know operating principle of IC 555 in different configurations 4. To understand different types of DAC and their performance parameters 5. To study different types of ADC and their performance parameters
	Semester-I , Paper III EL- 113:	1. To identify different components and devices as well as their types

	ELECTRONICS LAB IA	2. To understand basic parameters associated with each device 3. To know operation of different instruments used in the laboratory 4. To connect circuit and do required performance analysis 5. To compare simulated and actual results of given particular experiment
	Semester-II, Paper III EL- 123: ELECTRONICS LAB IB	1. To connect opamp circuits and analyze the output 2. To build application circuits of opamp 3. To design the output frequency of IC 555 as astable /monostable multivibrator 4. To compare simulated and actual results of given circuit
S.Y.B.Sc.	Semester III Paper I EL-231: Paper – I: Communication Electronics	1. Understand need of modulation, modulation process and amplitude modulation and demodulation methods 2. Analyse generation of FM Modulation and demodulation methods and comparison between amplitude and frequency modulation 3. Identify different radio receivers and their performance parameters. 4. Solve problems based on AM and FM performance parameters 5. Compare pulse modulation techniques such as PAM, PPM, PWM and compare TDM and FDM techniques used in communication 6. Understand need of sampling and sampling theorem as well as know about performance parameters of digital communication 7. Analyze difference between ASK, FSK , PSK as well as PCM and its applications
	Semester III Paper II EL-232: Paper- II: Digital Circuit Design	1.Distinguish between different logic families based on their performance parameters 2.Analyze basic combinational logic circuits for simple applications 3.Design combinational logic circuits using K maps 4.for identified applications 5.Design Sequential logic circuits using state diagram, excitation table for identified applications 6.Understand and compare different types of ADC and their performance parameters using data sheets/manuals 7.Understand and compare different types of DAC and their performance parameters using data sheets/manuals

	Semester-III. EL-233: Paper- III: Practical Course	1. Describe and explain the techniques of generation of AM/ FM and demodulation 2. Design FSK generation using standard IC XR 2206 refering data manuals 3. Describe and explain the TDM/ FDM generation technique 4. Design and build minimum complexity digital circuits using logic gates 5. Design and analyze different 6. combinational and sequential logic circuits using standard ICs in data manuals 6. Design ADC/ DAC using data manuals and study its performance parameters
	Semester-IV. EL-241: Paper - I: Analog Circuit Design	1. Design single/multistage amplifier using transistor and analyze their frequency response base on gain-bandwidth product due to coupling / bypass capacitors 2. Classify and compare different power amplifiers 3. Understand and design push pull amplifier and need of heat sinks 4. Distinguish between Opamp Feedback circuits based on their configurations 5. Analyze the effect of negative and positive feedback on characteristics of Opamp 6. Understand and analyze the need of positive feedback in oscillator circuits 7. Design , develop and build circuits for identified applications
	Semester-IV EL-242: Paper II: Microcontroller and Python Programming	Identify the features and architectural details of microcontroller(arduiono) Write code/program using open source programming language(ardiuno) for basic identified applications Understand programming basics of python programming language Understand special features of python programming language such as importing modules, directory, tupules Design , build and implement applications using ardiuno and python
	Semester-IV EL-243: Paper- III: Practical Course	1. Describe and explain the design procedure of different types of active filters and analyze its frequency response 2. Demonstrate positive feedback for oscillator circuits using standard ICs 3. Describe and explain design procedure for two stage amplifiers and application circuits 4. Design practical circuits for identified applications 5. Develop working setup and write programs using programming techniques of arduino 6. Demonstrate and explain interfacing hardware to arduino microcontroller 7. Solve problems using programming techniques of python
T.Y.B.Sc.	Semester V EL 331: Advanced Digital System	1. Know and understand structure of HDL and Verilog. 2. Understand different modeling styles in Verilog. 3. Use Verilog effectively for simulation, verification and synthesis of digital system.

	Design	4. Understand basics of programmable logic devices.
	Semester V EL-332: Microcontrollers	1.Understand the basics of microcontroller. 2. Acquire basic programming skills in C language. 3. Understand and acquire basic programming skills for AVR microcontroller.
	Semester V EL-333 Analog Circuit Design and Applications of Linear ICs	1. Understand basics of analog circuit design. 2. Analyze waveform generators required for testing different circuits. 3. Build application circuits using specialized ICs. 4. Design analog systems using available ICs.
	Semester V EL-334: Principles of Semiconductor Devices	1. Understand basic concepts of nano electronic devices and nano technology. 2. Understand the electron transport mechanism in nanostructures. 3. Understand techniques of characterization of nanostructures. 4. Understand different devices constructed using nanotechnology
	Semester V EL -335: 'C' Programming	1. To understand fundamentals of C language. 2. To develop algorithm/flowcharts for problem solving and writing programs. 3. To learn to use functions, arrays, pointers and file handling in C language. 4. To study different types of algorithm.
	Semester V EL-336: A) Fiber Optic Communication Communication	1.To acquire Knowledge of optical fiber communication system. 2. To understand different parameters of optical fibers. 3. To learn essential optical components of Fiber Optic Communication. 4. To analyze and integrate fiber optical network components in variety of networking schemes.
	Semester VI Paper I: EL-341: Advanced Communication Systems	1.. Design FSK generation using standard IC XR 2206 refering data manuals 2. Describe and explain the TDM/ FDM generation technique
	Semester VI Paper II: EL-342: Microcontroller and its Applications	1. Use 'C' language for programming the microcontrollers 2. Learn to use Timers, Interrupts and Serial Communication in Microcontroller. 3. Apply the knowledge in real world applications
	Semester VI Paper III: EL- 343: Power	1. To get introduce to basics of power electronics and familiar with Power Electronic Devices, circuits and applications 2. To learn about power devices and protections of devices 3. To study various types of power circuits 4. To study applications of power electronics

	Electronics	
	Semester VI Paper IV: EL -344: Foundation of Nanoelectronics	1. To learn essential principles of Electromagnetics 2. To know the principles of quantum mechanical aspects 3. To study the basics of nanoelectronics.
	Semester VI Paper V: EL- 345: Mathematical Methods and Circuit Analysis using MATLAB	1. To learn features of MATLAB as a programming tool. 2. To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems. 3. To understand Laplace Transform and Fourier series and its applications. 4. To use MATLAB as a simulation tool.
	Semester VI Paper VI: EL-346: A) Industrial Automation	1. To learn essential principles of Electromagnetics 2. To know the principles of quantum mechanical aspects 3. To study the basics of nanoelectronics.
	Semester VI Paper VII EL-347 Practical Course- I Semester VI Paper VII EL-348 Practical Course- II Semester VI Paper IX: EL-349 Practical Course- III	1. The practical activities are self learning process, there are three practical courses. 2. There are TWO activities i.e. one for Practical course-I and other for Practical course-II. One activity is equivalent to 4 experiments. 3.throughout the year he/ she will work on it and at the end submit full activity report individually. 5. Student will prepare a report on each activity. It will be evaluated both at internal and university practical examination. 6. The progress of the student activity will access time to time/ weekly/ monthly by the teacher during regular practical timing. 7. This activity will generate good quality of work and prepare good report (study material with practical experience) which will be useful to the teachers, departments, other students etc.

Mathematics Outcomes:

Programme: B.Sc (Mathematics)

Sr.No	Programme Specific Outcomes
1	It helps in understanding the theoretical and mathematical development of the subject and to create interest in the subject
2	A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.
3	A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.
4	Student is equipped with mathematical modeling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
5	Student should be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
6	Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

Programme: M.Sc (Mathematics)

Sr.No	Programme Specific Outcomes
1	Create a hypothesis and appreciate how it relates to broader theories.
2	Evaluate hypotheses, theories, methods and evidence within their proper contexts.
3	Solve complex problems by critical understanding, analysis and synthesis. Demonstrate engagement with current research and developments in the subject.
4	Critically interpret data, write reports and apply the basics of rules of evidence.
5	Select, interpret and critically evaluate information from a range of sources that include books, scientific reports, journals, case studies and the internet.
6	Provide a systematic understanding of the concepts and theories of mathematics and their application in the real world – to an advanced level, and enhance career prospects in a huge array of fields.

Mathematics Course Outcomes:

F.Y.B.Sc Course Outcomes:

Sr.No	Course Outcomes
1	The mathematical maturity of students in their current and future courses shall develop.
2	The student develops theoretical, applied and computational skills.
3	The student gains confidence in proving theorems and solving problems.

S.Y.B.Sc Course Outcomes:

Sr.No	Course Outcomes
1	The mathematical maturity of students in their current and future courses shall develop.
2	The student develops theoretical, applied and computational skills.
3	The student gains confidence in proving theorems and solving problems.

T.Y.B.Sc Course Outcomes:

Subject **(Sem-I)**	Sr.No	Course Outcomes
Metric Spaces	1)	Learn the basic facts in logic and set theory
	2)	Learn to define sequence in terms of functions from N to a subset of R and to understand several properties of the real line.
	3)	Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.
	4)	Use the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.
Group Theory	1)	Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, etc;
	2)	Analyze consequences of Lagrange's theorem
	3)	Learn about structure preserving maps between groups and their consequences.
	4)	Explain the significance of the notion of cosets, normal subgroups, and factor groups
Ordinary Differential Equations	1)	Understand the genesis of ordinary differential equations.
	2)	Learn various techniques of getting exact solutions of solvable first order differential equations and linear differential equations of higher order.

	3)	Grasp the concept of a general solution of a linear differential equation of an arbitrary order and also learn a few methods to obtain the general solution of such equations.
Operations Research	1)	Analyze and solve linear programming models of real-life situations.
	2)	The graphical solution of LPP with only two variables, and illustrate the concept of convex set and extreme points. The theory of the simplex method is developed.
	3)	The relationships between the primal and dual problems and their solutions with applications to transportation, assignment and two-person zero-sum game problem
Laplace Transform and Fourier Series	1)	Students will be able to know the use of Laplace transform in system modeling, digital signal processing, process control.
	2)	Solve an initial value problem for an nth order ordinary differential equation using the Laplace transform.
	3)	Find the Fourier series representation of a function of one variable
Programming in Python (Practical)	1)	The student will be able to explain basic principles of Python programming language.
	2)	The student will implement object oriented concepts.
LaTeX for Scientific Writing	1)	Write a simple LaTeX input document based on the article class.
	2)	Turn the input document into pdf with the pdflatex program.
	3)	Format Words, Lines, and Paragraphs.
	4)	Understand how to present data using tables.
Sem-II Courses		
Complex Analysis	1)	Understand the significance of differentiability of complex functions leading to the understanding of Cauchy-Riemann equations.
	2)	Evaluate the contour integrals and understand the role of Cauchy-Goursat theorem and the Cauchy integral formula.
	3)	Expand some simple functions as their Taylor and Laurent series, classify the nature of singularities, find residues and apply Cauchy Residue theorem to evaluate integrals.
	4)	Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.
Real Analysis-II	1)	Some of the families and properties of Riemann integrable functions, and the applications of the fundamental theorems of integration.
	2)	Beta and gamma functions and their properties.
	3)	Recognize the difference between pointwise and uniform convergence of a sequence of functions
	4)	Illustrate the effect of uniform convergence on the limit function with respect to continuity, differentiability, and integrability.
Ring Theory	1)	The fundamental concept of Rings, Fields, subrings, integral domains and the corresponding morphisms.
	2)	Learn in detail about polynomial rings, fundamental properties of finite field extensions, and classification of finite fields.
	3)	Appreciate the significance of unique factorization in rings and integral domains.

Partial Differential Equations	1)	Formulate, classify and transform partial differential equations into canonical form.
	2)	Solve linear partial differential equations using various methodsand apply these methods in solving some physical problems.
	3)	Solve Laplace equations using various analytical methods demonstrate uniqueness of solutions of certain kinds of these equations.
Computational Geometry	1)	Construct algorithms for simple geometrical problems.
	2)	Characterize invariance properties of Euclidean geometry by groups of transformations.
	3)	Describe and construct basic geometric shapes and concepts by computational means.
Machine Learning-II	1)	Demonstrate the use of Python in Mathematics such as operations research and computational Geometry etc
	2)	Study graphics and design and implement a program to solve a real world problem.
	3)	The students will implement the concepts of data with python and database connectivity
Mathematics into LaTeX	1)	Typeset mathematical formulas, use nested list, tabular and array environments.
	2)	Import figures and pictures that are stored in external files.

M.Sc.Course Outcomes:

Subject	Sr.No.	Course Outcomes
Sem-I **Linear Algebra**	1)	This is very basic course in Mathematics, and it has so many applications.
	2)	This course deals with vector spaces , linear maps ,inner products spaces, and higher topicsin Linear algebra .
	3)	After learning this course students are ready to learn higher Mathematics, Statistics and computer languages.
Real Analysis	1)	The mathematical maturity of students will develop.
	2)	The student will gain confidence in proving theorems and solving problems.
	3)	Student will understand the generalized concept of measure and integration.
	4)	Student will understand the need to generalize the concept of integration.
Group Theory	1)	This course is combination of basic group theory and advanced group theory and gives proper understanding of groups.
	2)	This course deals with Group , symmetric group , Syllow Theorem and more such interestingtopics
	3)	After learning this subject students are prepared for basic Algebra.
	4)	This course is beginning of algebra

	5)	With this course students are prepared to learn about higher mathematics, like prepared to learn about ring theory and field theory ,Galois theory etc.
Advanced Calculus	1)	This course enhances theoretical view of students towards numerical methods.
	2)	This course will clear core linear algebra as well as numerical methods.
	3)	This course gives different types of methods to calculate LU factorization, floating point numbers.
	4)	This course enhances the quality and standards of Mathematical Education.
	5)	This course takes care of fast development in the knowledge of Mathematics.
Ordinary Differential Equations	1)	Students will able to solve the problems using multiple approaches and will learn to classify ODEs.
	2)	Students will demonstrate an understanding of the theory of ODEs and will work with a variety of applications of ODE.
	3)	Students will learn to visualize ODEs in graphical, numerical form
	4)	Student will have a working knowledge of basic application problems described by second order lineardifferential equations with constant coefficients.
Semester II (2019 pattern)		
Complex Analysis	1)	This subject is part of analysis.
	2)	This subject gives more understanding about analysis in Mathematics.
	3)	This course involved complex number , properties of them , analytic function , residues ,fundamental theorem.
	4)	With this course students are prepared to learn about advance complex analysis.
General Toplogy	1)	Students will understand the concepts of metric spaces and topological spaces, and their role in mathematics.
	2)	Students will be able to prove basic results about completeness, compactness, connectedness and convergence within these structures.
	3)	Students will be able to demonstrate familiarity with a range of examples of these structures.
	4)	Students will be able to apply the theory in the course to solve a variety of problems at an appropriate level of difficulty.
Ring Theory	1)	This subject is part of abstact algebra and continuation of Group theory.
	2)	This course involved rings ,ideal, homeomorphism rings and introduction of module.
	3)	This subject is prerequisite for commutative Algebra and some advanced algebra.
	4)	This subject increase the thinking power of students in algebra.

Advance Numerical analysis	1)	This course enhances theoretical view of students towards numerical methods.
	2)	This course will clear core linear algebra as well as numerical methods.
	3)	This course gives different types of methods to calculate LU factorization, floating point numbers.
	4)	This course enhances the quality and standards of Mathematical Education.
	5)	This course takes care of fast development in the knowledge of Mathematics.
Partial Differential Equations	1)	Classify partial differential equations and transform into canonical form.
	2)	Solve linear partial differential equations of both first and second order.
	3)	Identify real phenomena as models of partial derivative equations.
	4)	Solve Elliptic, parabolic and Hyperbolic differential equations.
	5)	Apply specific methodologies, techniques to conduct research and produce innovative results in the area of specialization.

Maratha Vidya Prasarak Samaj's

Karmaveer Kakasaheb Wagh Arts, Science and Commerce College Pimpalgaon (B)

Outcomes Of Syllabi of Zoology

Programme Specific Outcomes (POs)-

Special Subject Zoology :

PSOs	Programme Specific Outcomes
1.	To foster curiosity in the students for Zoology
2.	To create awareness amongst students for the basic and applied areas of Zoology
3.	To orient students about the importance of abiotic and biotic factors of the environment and their conservation.
4.	To provide an insight to the aspects of animal diversity.
5.	To inculcate good laboratory practices in students and to train them about proper handling of lab instruments.

Course Outcomes (CO)-

Departments of Zoology

Class	Subject	Course Outcomes
F.Y. B.Sc.	Animal Diversity I	1.The student will be able to understand, classify and identify the diversity of animals. 2. The student understands the importance of classification of animals and classifies them effectively using the six levels of classification. 3. The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life.
	Animal Ecology	1.The learners will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population. 2.To understand, anticipate, analyze and evaluate natural resource issues and act on a lifestyle that conserves nature. 3.The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community. 4.The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for

		non-exploitation of the biotic and abiotic components. 5.The working in nature to save the environment will help develop leadership skills to promote betterment of the environment.
	Animal Diversity II	1.The student will be able to understand, classify and identify the diversity of animals. 2. The student understands the importance of classification of animals and classifies them effectively using the six levels of classification. 3. The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life.
	Cell Biology	1.The learner will understand the importance of the cell as a structural and functional unit of life. 2.The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates life to the aspect of development. 3.The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in life. 4.The cellular mechanisms and its functioning depends on endo-membranes and structures. They are best studied with microscopy.
S.Y. B.Sc.	Animal Diversity III & IV	1. The students will be able to understand, classify and identify the diversity of higher vertebrates. 2. The students will be able to understand the complexity of higher vertebrates 3. The students will be able to understand different life functions of higher vertebrates. 4. The students will be able to understand the linkage among different groups of higher vertebrates. 5. The student will become aware regarding his role and responsibility towards nature as a protector, to understand his role as a trustee and conservator of life which he has achieved by learning, observing and understanding life.
	Applied Zoology I & Applied Zoology II	1. The learner understands the basics about beekeeping tools, equipment, and managing beehives. 2. The learner understands the basic information about fishery, cultural and harvesting methods of fishes and fish preservation techniques. 3. The learner understands the biology, varieties of silkworms and the basic techniques of silk production. 4. The learner understands the types of agricultural pests, Major insect pests of agricultural importance and Pest control practices.
T.Y. B.Sc. Sem II	ZO 351 - Pest Management	1. Define pest management. 2. Describe the economic, ecological, and sociological benefits of IPM. 3. Distinguish positive and negative impacts of pesticide use. 4. Understand problems resulting from misuse, overuse, and abuse of chemical pesticides. 5. Define and describe pesticide resistance and how it develops. 6. Identify ecological and biological characteristics

		important in development of pest populations. 7. Identify 10 tactics commonly used in IPM and be able to distinguish them. 8. Understand society's role in IPM decisions. 9. Describe different groups of pests and compare them to weeds and plant pathogens. 10. Analyze and compare management tactics to determine the best approach to reducing pest populations, weeds, and disease presence. 11. Locate appropriate, scientifically valid sources of information on specific tactics to manage insect pests, weeds, and diseases. 12. Know how to develop an IPM program.
	ZO 352 - Histology	1. The students will be able to understand, classify and identify the different types of tissue. 2. The students will understand the complexity of various tissues in an organ. 3. The students will be able to learn the structure & functions of various tissues. 4. The students will understand the various diseases related to organs. 5. The student will be able to know the role of glands in mammals.
	ZO 353 - Biological Chemistry	1. Learners shall be able to understand basic concepts and significance of biochemistry 2. The students will learn about the pH and Buffers. 3. The students will learn about the chemical structures of carbohydrates, and their biological and clinical significance. 4. The students will be able to understand, interpret the structure and importance of proteins, carbohydrates and lipids 5. Learners will be able to comprehend variations in enzyme activity and kinetics.
	ZO 354 - Genetics	1.Comprehensive, detailed understanding of the chemical basis of heredity 2.Comprehensive and detailed understanding of genetic methodology and how quantification of heritable traits in families and populations provides insight into cellular and molecular mechanisms. 3.Understanding of how genetic concepts affect broad societal issues including health and disease, food and natural resources, environmental sustainability, etc. 4.Understanding the role of genetic mechanisms in evolution.
	ZO 355 - Developmental Biology	1.To understand the basic concept and theories related to developmental biology 2.Understand reproductive organs gametogenesis and fertilization 3. Illustrate cleavage blastulation and gastrulation 4. Differentiate the embryology of chick,frog and humans
	ZO 356 - Parasitology	1. The students will be able to learn about basics and scope of parasitology. 2. The students will be able to learn the types of host and parasite with examples. 3. The students will be able to

		learn about the morphology, life cycle, pathogenicity and treatment of common parasites (Protists and Platyhelminthes). 4. The students will be able to learn about host -parasite relationships and their effects on the host body. 5. The students will be able to learn about the arthropod parasites and their role as vectors.
	ZO 3510: Aquarium Management	CO1: To comprehend the key skills needed to set up an aquarium. CO2: To be able to identify and differentiate the different aquarium/ornamental fishes. CO3: To be able to formulate fish food that provides complete nutritional benefits. CO4: To analyze the required budget to set up a well maintained home aquarium.
	ZO – 3511 Poultry Management	1. The students will be able to understand the Poultry farming practices. 2. The students will be able to understand the poultry breeding techniques. 3. The students will be able to understand poultry rearing techniques. 4. The students will be able to understand feeding requirements and food ingredients. 5. The students will be able to understand the poultry disease and their pathogens. 6. The students will be able to understand the market value of poultry products.
Sem II	ZO 361 - Medical & Forensic Zoology	1. The students will be able to understand the basics principles of Medical and Forensic Zoology. 2. The students will able to understand scientific methods in crime detection. 3. The students will be able to understand the advancements in the field of Medical and Forensic Zoology. 4. The students will be able to understand modern tools, techniques and skills in forensic investigations. 5. The students will be able to describe the fundamental principles and functions of forensic science and its significance to human society.
	ZO 362 - Animal Physiology	1. The various physiological organ-systems and their importance to the integrative functions of the human body. 2. Understand Concept of energy requirements 3. Various aspects of Digestive physiology. 4. Circulatory system with medical conditions 5. Understand Respiratory mechanism and gasses transport. 6. Eliminations of waste materials from the body. 7. Develop understanding in Structure and functions of muscles 8. Understand formation of gametes and function of endocrine glands.
	ZO 363 - Molecular Biology	1. Learner shall get an insight into molecular mechanisms of various biological processes in cells and organisms 2. Learners shall get an insight into the Structure of DNA and RNA, DNA and RNA as genetic material 3. The course shall prepare learner to get insight into the Central Dogma of Molecular Biology 4. Learners shall also understand the concept of gene regulation 5. Learner shall get an insight into the DNA Damage and Repair
	ZO 364 - Entomology	1. Understand basic concepts in Entomology and its scope. 2. Learn morphology and anatomy of Insects. 3. Understand the concept of social organization in Insects. 4. Understand the development process of Insects. 5. Identify disease causing

		insect vectors. 6. Will be able to design and implement pest controlling methods against pests.
	ZO 365 - Techniques in Biology	1.Develop competence in handling various chromatographic techniques and apply them in isolating and characterizing different biological molecules. 2.Understanding the applications of centrifugation and chromatography in biological investigations. 3.Purify proteins by affinity chromatography using epitope tags such as histidine tag, GST tag, Flag tag etc. 4.Understanding the principles of Electrophoresis, Spectrophotometry and ELISA and their applications in biological investigations/experiments.
	ZO 366 - Evolutionary Biology	1. Students will be able to learn most of the essential aspects of Evolutionary Biology in detail which will help them in acquiring better understanding regarding the subject. 2. Explain important processes, principles and concepts and critically evaluate theories and empirical research within evolutionary biology 3. Apply evolutionary theory and concepts to address empirical and theoretical questions in evolutionary biology. 4. Independently investigate evolutionary questions using literature and analyses of empirical data. 5. Communicate the principles, theories, problems and research results associated with questions that lie within the evolutionary framework to students
	ZO 3610 - Environmental Impact Assessment	Explicate the concept of EIA , CO2 Identify the objectives and scope of EIA CO3 Illustrate the necessity of public the importance participation in EIA studies CO4 Summarize of Environmental Attributes C05 Explain the phenomena of Impacts on environment C06 Quantify impacts developmental projects for

K.K.W. Arts, Commerce and Science College Pimpalgaon(B),
Taluka: Niphad, Dist: Nashik-2021-22
Department of Microbiology
B. Sc. (Microbiology)

Sr. No	Programme specific outcomes
1.	To enrich students' knowledge and train them in the pure microbial sciences
2.	To introduce the concepts of Microbiology
3.	To inculcate research aptitude
4.	To inculcate sense of scientific responsibilities and social and environment awareness
5.	To help student's build-up a progressive and successful career in Microbiology

Programme:B.Sc (Microbiology)

Programme: M.S.c (Microbiology)

Sr. No	Programme specific outcomes
1.	To enrich students' knowledge and train them in the pure microbial sciences
2.	To introduce the concepts of mathematics in biology
3.	To inculcate research aptitude
4.	To inculcate sense of scientific responsibilities and social and environment awareness
5.	To help students build-up a progressive and successful career in Microbiology

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F.Y.B.Sc SEM I	**MB:111** **Paper I: Introduction to Microbial world**	**CO1)** Enhanced the knowledge of the students about the history of the microbiology and the discovery of the microorganisms,
		CO2) The students have overcome the fear of the microbiology course.
		CO3) The student's knowledge is enhanced in the history and the evolution of the Microbiology.
		CO4) The knowledge in the various fields and the contribution of the different scientist in the microbiology enhanced the various ideas in the field of the research.
	MB112: **Paper-2. Basic Techniques in Microbiology**	**CO1)** Enhanced the knowledge about various techniques to the various basic technique used in the field of microbiology To expose students to use of variety of instruments and techniques used in the field of microbiology
		CO2) To expose students to use of techniques in the visualization of the different forms of microorganism
		CO3) Studentare able to introduce the various instruments,their working and principles of the instruments.
		CO4) Students are able to Control of sterilization andTesting of sterility. To expose students to use of techniques in the visualization of the different forms of microorganism
	MB113: **Paper III Practical Course based on theory paper I & II**	**CO1)** Enhanced practical knowledge of the students, various techniques used in research and the practical
		CO 2)Enhance the knowledge of sterility
		CO 3) Enhanced Students knowledge in field of research such as R&D.
		CO4) To enhance the knowledge about the

		cultivation of different microorganisms used in practical purpose.
SEM II **F.Y.B.SC**	**MB:121** **Paper-1 Bacterial Cell and Biochemistry**	**CO1)**Enhanced knowledge of students to classification of bacteria on the basis of the structure.
		CO2) Students are able to understand the Knowledge of regarding microscopic forms or the structures of the microorganism. Students are able to make use of various Microscopic techniques
	MB:122 **Paper II: Microbial cultivation and growth**	**CO1)**After successful completion of this course students are expected to: To enhance the knowledge about the cultivation of Different microorganisms To study the different cultural requirements of the microorganism.
		CO2) Enhanced knowledge about TO bacterial growth characteristics and the kinetics of the bacterial growth.
		CO3) Students can improve and use of different techniques in the measurement of microbial growth.
		CO4) Students are effectively study of various factors affecting the growth of the Microorganism.
	MB-123: **Paper III Practical Course based on theory paper I & II**	**CO1)** After successful completion of this course, the students are expected to: Competently explain various Morphological,structuralcharacterization,Isolationstechniques,staining techniques & nutritional requirements will be taught in details.
		CO2) In practical course,Students will be trained in preparing laboratory manuals,standard operating practicals
SEM I **S.Y.B.Sc**	**MB:211** **Medical Microbiology & Immunology**	**CO1)** Enhanced the knowledge of the students about the definitions of Incubation period, Viability, Susceptibility, Pathogenicity, Virulence, Pathogenesis, Lab diagnosis, Epidemic, Sporadic, Endemic, Pandemic. students know about the pathogens & study their morphological,cultural& biochemical characters, Antigenic structure, Viability characteristics, Pathogenicity, Pathogenesis, Symptoms, Laboratory diagnosis, Epidemiology, Prophylaxis and Chemotherapy: **Bacteria:** a) *Escherichia coli* b) *Staphylococcus aureus* **Fungi:** a) *Candida*
		CO2) Enhanced the knowledge of the students about the Chemotheraphy i. Selective toxicity, Bioavailability MIC, MBC, LD 50 ii. Antagonism and synergism in drug administration

		iii. Antibiotic sensitivity, iv. Antibiotic misuse/antibiotic overuse v. Concept of drug resistance (e.g., MRSA, ESBL)
		CO3) Enhanced knowledge about the Immunity & its types Innate and acquired, active and passive, humoral and cell mediated & about the Formation of blood cells.Also the concept & definitions of antigens & antibodies CO4 Enhanced the knowledge of the students about the blood group systems & their types a. ABO and Rh blood group systems b. Bombay blood group c. Biochemistry of blood group substances d. Inheritance of ABH antigens e. Medico legal applications of blood groups
	MB:212 **Paper II Bacterial Physiology & Fermentation Technology**	**CO1)** Enhanced Students knowledge about various methods of active site determinations,role of enzymes & its cofactors to microbial physiology
		CO2) Enhanced the knowledge of the students about the Fermentation Technology. a. Microbial biomass- based fermentation (Biofertilizer, biopesticide, Probiotics) b. Production of Primary metabolites (Organic acids, amino acids, vitamins, enzymes) c. Production of Secondary metabolites (Antibiotics) d. Production of recombinant products (insulin and growth hormones) e. Production of Fermented food products (Cheese, yoghurt) f. Microbial bio transformation (Steroid transformation)
		CO3) Enhanced Student knowledge about various strains of industrially important microorganisms.
		CO4) Students learn the Fermenter, Fermentation parameters, the types of fermentations, the media for industrial fermentations, the contaminations
	MB-213 **Paper III Practical based on MB 211 & 212**	**CO1)** Enhanced Students knowledge about the practical and experimental.
		CO2) After successful completion of this course, the students are expected to: Competently explain various aspects of Biochemical Characterization of bacteria.
		CO3) Enhanced knowledge about Isolation & Identification of organisms from different clinical samples
		CO4) Students will gain knowledge of Isolation, maintenance & handling of industrially important microbial cultures in laboratory settings.

SEM II S.Y.B.Sc	**MB:221** **BACTERIAL GENETICS**	**CO1)** Enhanced the knowledge of the students about the DNA
		CO2) Enhanced the knowledge of the students about the replication, plasmids i. Concept of Genetic code and its properties ii. Concept of transcription and translation
	MB:222 **Air,Water& Soil Microbiology**	**CO1)** Enhanced knowledge about Air flora & its types
		CO2) After completion of this course students are able to understand the methods of air sampling & types of air samplers.
		CO3) Enhanced the knowledge of the students about the Types of water, Water Quality crieteria,Water purifications methods,water born infections,Indicators of faecalpollution,Bacteriological analysis of water for Potability.
	MB:223 **Practicals based on MB 22` & MB 222**	**CO1)** After successful completion of this course students are expected to: Inculcate the ability to apply the process of science.
		CO2) Completion of the course will give an overview of relevant use of microbial biofertilizers and biopesticides.
T.Y.B.Sc **SEM I**	**MB: 351** **Medical Microbiology I**	**CO1)**Students understand the human anatomy,pathogens associated with diseases
		CO2) Students acquire knowledge of principles underlaying estabilishment of pathogens in human body &comprehend of pathogenesis of specific pathogens causing microbial disease.
		CO3) Students gain knowledge principles of chemotherapy of microbial diseases & development of drug resistance among pathogens & strategies to mitigate.
	MB: 352 Immunology I	**CO1)** Students understand immune system structure,composition,function& comparison of different types of immunity**.**
		CO2)students acquire knowledge about antigens,recognition of pathogens,antigen processing &presentation,Immunity to infection & pathological consequences of immunodeficiencies & their applications.
		CO3) Students understand the abnormal working of immune system in hypersensitivity,auto immune diseases,immune tolerance & transplantation immunology.
	MB:353 **Enzymology**	**CO1)** Students are able to understand methods of active site determination,role of enzymes &ts cofactors in microbial physiology**.**
		CO2) Students are able to learn to perform enzyme assay,purification& quantification of enzyme activity,enzyme kinetics parameters**.**
		CO3) Students learn about the mechanism of transport of solutes

		across the membrane & also comprehend basic concept of autotrophic mode of metabolism of prokaryotes**.**
	MB: 354 **Genetics**	**CO1)** Enhancedstudents' knowledge about base in Genetics & Molecular Biology. Students are able to understand the central dogma of Molecular Biology
		CO2) Enhanced students' knowledge about to construct genetic map of bacteria & fungi.
		CO3) Enhancedstudents' knowledge about concept of recombination 7 Bacteriophage genetics& concept of cloning in bacteria.
	MB: 355 **Fermentation Technology-I**	**CO1)** Enhancedstudents' knowledge about technical understanding of commercial fermentations & apply classical advanced strain improvement & isolation techniques for fermentation processes.
		CO2) Enhancedstudents' knowledge about fermentation economics process patentability,process validation.
		CO3) To comprehend the large-scale production of commercially significant fermentation product of classical & recent significane
	MB: 356 **Agricultural Microbiology**	**CO1)** Enhancedstudents' knowledge about plant growth improvement with respect to disease resistance,environment tolerance.
		CO2) Students can correlate stages of plant disease development,epidemiology,symptoms based on classification,control methods**.**
		CO3) Students are able to understand the importance of microorganisms in sustainable agriculture,biotechnological application of biofilms,edible vaccines
	MB:3510(Elective) **Marine Microbiology**	**CO1)** To impart the awareness of unseen & unexplored niche of marine ecosystem of microbes
		CO2) Enhanced students' knowledge about Marine microbes & Marine ecology.
		CO3) To comprehend the role of marine microbes in bioremediation 7 bioprospecting. To avail career opportunities in marineeducation industry & research.
	MB: 3511(Elective) **Dairy Microbiology**	**CO1)** After successful completion of this course, the students are expected to: To understand prospects of dairying at commercial marketing
		CO2) To comprehend production of dairy products of commercial significance with emphasis to local & global market demand
	MB:357 Practical Course-I **Diagnostic microbiology &Immunology**	**CO1** Students will gain hands on experience of haematology&imunotechniques
		CO2) After successful completion of this course, the students are expected to: Physical,Chemical& Microscopic examination of clinical samples
	MB:358 Practical Course-II	**CO**1)After successful completion of this course, the students are expected to: Different techniques & instrument used in microbiolgy

	Enzymology & Genetics	**CO2)** Students will also learn applications of different separation techniques (Chromatography)
	MB:359 Practical Course - III	**CO1)** After successful completion of this course, the students are expected to: Students will be able to correlate disease symptoms with causative agent,isolate& Identify pathogens.
		CO2) Students will gain knowledge of mechanism of action of antimicrobial drugs
	MB 3510: Elective Practical Marine Microbiology	**CO1)** After successful completion of this course, the students are expected to: To learn the field research on marine processes and laboratory research on microorganisms.
		CO2) To comprehend the role of marine microbes in bioremediation and bioprospecting
	MB 3511 Elective Practical Dairy Microbiology	CO1)After successful completion of this course, the students are expected to: To acquire skills of processing of milk and dairy products
		CO2) To comprehend production of dairy products of commercial significance with emphasis to local and global market demand
SEM II T.Y.B.Sc	**MB:361 Paper I Medical Microbiology-II**	CO1)After successful completion of this course, the students are expected to: To assess epidemiological patterns of microbial disease transmission as various modes intensity at local & global level
		CO2) Develop identification systems for microbial disease diagnosis,disese treatment & prevention measures.
	MB:362 Paper II Immumnology-II	**CO1)**After successful completion of this course, the students are expected to: Acquire knowledge about antigens,recognition of pathogens,antigen processing &presentation,Immunity to infection & pathological consequences of immunodefeciencies.
		CO2) To develop strategies for diagnosis of diseases based on antigen & antibody reactions with emphasis on prevailing communicable diseases**.**
	MB:363 Paper III Metabolism	**CO1)** After successful completion of this course, the students are expected to: To learn mechanism of transport of solutes across the membrane
		CO2) To comprehend basic concept of autotrophic mode of metabolism of prokaryotes
	MB:364 Paper IV	**CO1)** After successful completion of this course, the students are expected to:

	Molecular Biology	Enhanced the knowledge of students to construct genetic map of bacteria & fungi.
		CO2) To demonstrate the knowledge of common & advanced laboratory practices in molecular biology**.**
	MB: 365 Paper V Fermentation Technology II	**CO1**)After successful completion of this course, the students are expected to: To recover the product using suitable methods & ensuring quality of the finished product by quality assurance tests.
		CO2) To comprehend the large-scale production of commercially significant fermentation product of classical 7 recent significance**.**
	MB:366 Paper VI Food Microbiology	**CO1)** After successful completion of this course, the students are expected to: Identify & classify types of microorganism in food processing & compare their characteristics & behavior.
		CO2) To learn food classification based on their perishability,intrinsic& extrinsic factors affecting the growth of microbes in food,role of microorganisms in food fermentations**.**
	MB:3610 (Elective) Waste Management	**CO1)**After successful completion of this course, the students are expected to: To learn the design & working treatment plants & methods used for liquid & solid waste treatment.
		CO2) To learn the standards of waste management & competent authorities involved at National & International level.
	MB:3611(Elective) Nano-biotechnology	**CO1)** After successful completion of this course, the students are expected to: To understand design,development& application of nanomaterials & their application in nanodevices.
		CO2) To learn fundamentals of nanotechnology as to synthesis & characterization techniques of nanaoparticles.
	MB: 367 Practical Course - I Diagnostic Microbiolgy& Immunology	**CO1)** Students will gain hands on experience of haematology&imunotechniques
		CO2) After successful completion of this course, the students are expected to: Physical,Chemical& Microscopic examination of clinical samples
	MB:368 Practical Course - II Metabolism & Molecular Biology	**CO1)** After successful completion of this course, the students are expected to: Students will be able to handle microorganism for isolation & amplification of DNA
		CO2) Students will also learn applications of different separation techniques
	MB:369 Practical Course III	CO1)After successful completion of this course, the students are expected to: Isolation of industrially important microbial strains & fermentation

	Fermentation Techgnolgy II & Food Microbiology	media
		CO2) Students will gain knowledge of isolation,maintenance& handling of industrially important microbial cultures in laboratory setteings.
	MB:3610 Elective Practical Waste Management	**CO1)**After successful completion of this course, the students are expected to: To understand waste management &it practicable applicability
		CO2) To learn the design & working of treatment plants & methods used for liquid & solid waste treatment.
	MB:3611 Elective Practical Nano-biotechnology	**CO1)**After successful completion of this course, the students are expected to: To acquire knowledge of applications of nanomaterials in different disciplines of human life.
		CO2) To compare the merits of using nanotechnology with existing technologies.

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M Sc. I (Microbiology)

M.Sc I SEM I	**1. MB501:Microbial Systematic**	**CO1** Enhanced students knowledge about classification and identification of organism is enhanced
		CO2 Students are able to classify and identify the organisms
		CO3 Students knowledge about evolutionary histories, distribution of organisms in nature .
	2. MB502:Quantitative Biology	**CO1** Students are enabling to represent raw data in a more meaningful way by using various hypotheses.
		CO2 Students can summarize large data using statistical terms and used this knowledge in the field of research
		CO3 Student are able to analyzed numerical data in order to enable us to maximize our interpretation, understanding and use.
		CO4 Students are able to generalize the results from the sample of people in the study to the entire population
	3. MB503 : Biochemistry and Metabolism	**CO1** Enhanced knowledge about the process by which organism grow and develop.
		CO2 Enhanced knowledge about various process operated in cell.
		CO3 Enhanced Students knowledge in field of research such as R&D .
		CO4 Students knowledge about developmental processes are enhanced.
	4. MBTE11:Fungal Systematics and Extremophiles	**CO1**Enhanced knowledge about fungal systematic, and identification of organism is enhanced
		CO2 Students are able to understand the physicochemical parameters defining life on Earth

	5.MBCP 114: Biochemical Techniques	**CO1** After successful completion of this course students are expected to: Inculcate the ability to apply the process of science .
		CO2 Enhanced knowledge about formulation of hypotheses and design experiments based on the scientific method
		CO3 Students can analyze and interpret results from a variety of microbiological methods and apply these methods to analogous situations.
		CO4 Students are effectively communicate fundamental concepts of microbiology in written and oral format.
	6. MBEP 115: Practicals Based on Fungal Systematics and	**CO1** After successful completion of this course, the students are expected to: Competently explain various aspects of environmental microbiology
		CO2 Enhanced knowledge the diversity of microorganisms and learn the abundance, distribution and significance of microorganism
	SEM II **1. MB601:Instrumentation and Molecular Biophysics**	**CO1** Enhanced knowledge about research in bimolecular field is enhanced and learn various methods and can use this technique in research
		CO2 Learn to understand the mechanics of how the molecules of life are made, how different parts of a cell move and function,
		CO3 Enhanced knowledge about analytical techniques often include sensitivity, safety, noninvasiveness and/or remote access to study the structure of atoms and molecules
	2.MB602:Molecular Biology	**CO1** Enhanced Students knowledge about various molecular techniques have the advantage that, they are rapid, less laborious, and more sensitive, specific
		CO2 Students knowledge about genetic engineering is enhanced and students learn various technique that can be used in research
		CO3 Enhanced Student knowledge about various technique to the mapping and sequencing the genes

		CO4 Students learn various techniques to analyze the genes that are involved in causing the diseases.
	3. MB603:Enzymology, Bioenergetics and Metabolism	**CO1** Enhanced Students knowledge about the various energetic processes and laws for energy utilization.
		CO2 Student learn about various methods for purification and separation of enzymes And learn statistical methods in enzyme reactions
		CO3 Enhanced knowledge about various life processes
		CO4 Enhanced knowledge about the structure and function of various biomolecules important for life .
	4. MBTE23:Nitrogen Metabolism, respiration and Photosynthesis	**CO1** Students learn about basic mechanism of nitrogen fixation by microorganisms and can be use this knowledge in the field of research in agricultural field
		CO2 Enhanced knowledge about biochemistry and various process in plants
	5. MBCP 124: Molecular Biology, Enzymology and Instrumentation	**CO1** Enhanced knowledge about use of various techniques in molecular biology
		CO2 After completion of this course students are able to handle various instruments in microbiology.
		CO3 Students learn proper handling of micropipette, pH meter, graduated pipette and volumetric flask along with their calibrations.
	6. MBEP 127: Practicals based on Nitrogen Metabolism, respiration and photosynthesis	**CO1** After successful completion of this course students are expected to: Inculcate the ability to apply the process of science.
		CO2 Completion of the course will give an overview of relevant use of microbial biofertilizers and biopesticides.

B. Sc. Computer Science

Programme Specific Outcomes :

1. To develop problem solving abilities using a computer.
2. To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems
3. To train students in professional skills related to Software Industry.
4. To prepare necessary knowledge base for research and development in Computer Science.
5. To help students build-up a successful career in Computer Science and to produce entrepreneurs who can innovate and develop software products.

M. Sc. Computer Science

Programme Specific Outcomes :

1. To impart basic understanding of the wirelesscommunication systems. To expose students to various aspects of mobile and ad-hoc networks. Understand the issues relating to Wireless applications Understand the Mobile security.
2. To Prepare student to think about programming languages analytically:
3. Separate syntax from semantics .
4. Compare programming language designs.
5. To design the algorithms.
6. To Learn how to write and execute programme in python.

Course Outcome

FYBSc Computer Science

After completion of this course students will be able to understand the concept of

1. Explore algorithmic approaches to problem solving.
2. Develop modular programs using control structures and arrays in 'C'.
3. Solve real world problems using appropriate set, function, and relational models.
4. Design E-R Model for given requirements and convert the same into database tables.
5. A students should be able to work with graphs and identify certain parameters and properties of the given graphs.

SYBSc Computer Science

After completion of this course students will be able to understand the concept of

1. To use well-organized data structures in solving various problems.
2. To differentiate the usage of various structures in problem solution.
3. Implementing algorithms to solve problems using appropriate data structures.
4. Compare and chose a process model for a software project development.
5. Identify requirements analyze and prepare models.
6. Prepare the SRS, Design document, Project plan of a given software system.

TYBSc Computer Science

After completion of this course students will be able to understand the concept of

1. Processes and Thread Scheduling by operating system
2. Synchronization in process and threads by operating system
3. Memory management by operating system using with the help of various schemes
4. Student will understand the different protocols of Application layer.
5. Develop understanding of technical aspect of Multimedia Systems.
6. Understand how to develop dynamic and interactive Web Page
7. Detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization.
8. Understand the concept of classes, object, packages and Collections.
9. To develop GUI based application.

FY.M.Sc. Computer Science

After completion of this course students will be able to understand the concept of

1. Understand basic language implementation techniques
2. Learn small programs in different programming Languages
3. To select the appropriate algorithm by doing necessary analysis of algorithms.
4. To convey the ideas in AI research and programming language related to emerging technology.
5. To learn how making a project in Different kinds of computer languages.

SY.M.Sc. Computer Science

After completion of this course students will be able to understand the concept of

1.Able to use specific frameworks as per applications need.
2.Design java application using design pattern techniques. 3.Design application using machine Learning techniques.
4.Students will be ready with the technology which is used widely in Industry as a part of full stack developer.
5.Students will know the powerful way to develop the web application in Python.
6.Study & Design various case studies using big data tools/commands and analyze it.