

**PROGRAM OUTCOME ACADEMIC YEAR 2023-24**

<b>PROGRAM</b>		<b>PROGRAM OUTCOMES</b>
<b>BACHELOR OF BUSINESS ADMINISTRATION IN COMPUTER APPLICATION B.B.A(CA)</b>		
<b>BACHELOR OF BUSINESS ADMINISTRATION IN COMPUTER APPLICATION B.B.A(CA)</b>	<b>PO-1</b>	To provide sound academic base from which an advanced career in Computer Application Can be developed. Conceptual grounding in computer usage as well as its practical business application will be provided.
	<b>PO-2</b>	To produce skill oriented human resource.
	<b>PO-3</b>	To impart practical skills among students.
	<b>PO-4</b>	To make industry ready resource.
	<b>PO-5</b>	To bring the spirit of entrepreneurship.
<b>BACHELOR OF COMPUTER APPLICATION (BCA)</b>		
<b>BACHELOR OF COMPUTER APPLICATION (BCA)</b>	<b>PO-1</b>	To produce skill oriented human resource
	<b>PO-2</b>	To bring the spirit of entrepreneurship.
	<b>PO-3</b>	To impart practical skills among students.
	<b>PO-4</b>	Acquire practical skills and hands-on experience on emerging technologies like Java, Web designing, Android, Python, IoT, PHP and Data Science.
	<b>PO-5</b>	Acquiring knowledge in basic management skills and business applications
	<b>PO-1</b>	Develop a sound academic base for an advanced career in Computer Applications.

<b>BACHELOR OF ARTS</b>		
<b>DEPARTMENT OF BACHELOR OF ARTS</b>	<b>PO-1</b>	The B.A. graduates can pursue B.Ed. course and opt teaching career in the schools.
	<b>PO-2</b>	Students can do Post Graduate Studies in their respective subjects studied in 'Under Graduate' level. Other Career options :- Journalism, Tourism, etc.
	<b>PO-3</b>	Students become eligible to appear for any competitive exams conducted by Union Public Service Commission (UPSC), Maharashtra Public Service Commission (MPSC), Indian Railway Board, Bank and PO exams etc for entering into the government services.
	<b>PO-4</b>	Students can pursue their studies in doing MBA, Post Graduate Diploma in Computer (PGDC), Certificate Courses of any discipline.
	<b>PO-5</b>	Students can develop various communication skills such as reading, listing, speaking, etc., which will be helpful in expressing ideas and views clearly and effectively. Graduates demonstrate social interaction and understand environment and sustainability.
<b>BACHELOR OF SCIENCE</b>		
<b>BACHELOR OF SCIENCE and MASTER OF SCIENCE</b>	<b>PO-1</b>	After completion of three year graduate, Student should Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life
	<b>PO-2</b>	Acquired the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, etc.
	<b>PO-3</b>	Acquired the skills in handling and applications of available scientific instruments, planning and performing in laboratory experiments in present subjects in their level
	<b>PO-4</b>	Analyzed the given scientific data critically and systematically and the ability to draw the objective conclusions
	<b>PO-5</b>	Thinking and developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments
	<b>PO-6</b>	Developed scientific outlook not only with respect to science subjects but also in all aspects related to life and community by participating in various social and cultural activities voluntarily
	<b>PO-7</b>	Developed various communication skills such as reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively

	<b>PO-8</b>	Realized that pursuit of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life
<b>BACHELOR OF COMMERCE</b>		
<b>BACHELOR OF COMMERCE</b>	<b>PO-1</b>	Students will be able to understand the various aspects of development in Agricultural, Industrial and service sector in India.
	<b>PO-2</b>	After completing three years for Bachelor's in Commerce (B.Com) program, students would gain a thorough grounding in the fundamentals of Commerce and Finance.
	<b>PO-3</b>	The programme will give knowledge about various new concepts in computerized system and Forensic Audit to students.
	<b>PO-4</b>	The commerce and finance focused curriculum offers a number of specialization and practical exposure which would equip the student to face the modern day challenges in commerce and business.
	<b>PO-5</b>	The all-inclusive outlooks of the course offer a number of values based and job oriented courses ensure that students are trained into up-to-date.
	<b>PO-6</b>	This program could provide well trained professional for the industries, Banking sector, Insurance companies, financing companies, Transport agencies, Warehousing etc. to meet the well-trained manpower requirements.
	<b>PO-7</b>	The graduates will get hands-on experience in various aspects acquiring skills for Marketing manager, selling manager, over all administration abilities of the company.
<b>MASTER OF COMMERCE</b>		
<b>MASTER OF COMMERCE</b>	<b>PO-1</b>	The programme will create the awareness about the latest developments in the field of capital market in India.
	<b>PO-2</b>	The programme will enable the students to understand various transactions in stock exchanges and agencies involved in it.
	<b>PO-3</b>	The programme will give knowledge about basic issues in Industrial Economic Environment to students.
	<b>PO-4</b>	The programme will enhance capabilities of students to conduct the research in the field of business and social sciences

	<b>PO-5</b>	The programme will develop independent logical thinking and facilitate personality development and equip the students to seek suitable careers in management and entrepreneurship.
	<b>PO-6</b>	Enriched knowledge with new ideas and techniques essential for business and management.
	<b>PO-7</b>	Develop analytical interpretative and presentation skill regarding research in commerce and management.

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**PROGRAMME SPECIFIC OUTCOMES**  
**ACADEMIC YEAR 2022-23**

<b>Programme Specific Outcomes</b>	
<b>Upon completion of these courses the student would</b>	
<b>DEPARTMENT OF BACHELOR OF BUSINESS ADMINISTRATION IN COMPUTER APPLICATION</b>	
<b>B.B.A(CA)</b>	
<b>PSO-1</b>	Students should be able to apply modern practices and strategies in software project Development using open-ended programming environments to deliver quality product for Business success in context with societal needs.
<b>PSO-2</b>	An ability to gain knowledge on design and control strategy; techniques to secure information and adapt to the fast changing world of information technology needs.
<b>PSO-3</b>	Design and develop Web and Mobile based computer applications
<b>PSO-4</b>	An ability to use and develop cloud software, administrative features, infrastructure services and architectural patterns; ethical hacking and forensic security technologies.
<b>BACHELOR OF COMPUTER APPLICATION (BCA)</b>	
<b>PSO-1</b>	Ability to correlate theory and practical knowledge in applications.
<b>PSO-2</b>	Become employable in various public and private sectors.
<b>PSO-3</b>	Blend analytical, logical, and managerial skills with technical aspects to resolve real- world issues.
<b>BACHELOR OF COMMERCE</b>	
<b>PSO-1</b>	Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals.
<b>PSO-2</b>	Students will be able to demonstrate knowledge in setting up computerized set of accounting books.
<b>PSO-3</b>	Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
<b>PSO-4</b>	Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
<b>PSO-5</b>	Students will learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

<b>PSO-6</b>	Learners will gain thorough systematic and subject skills
<b>MASTER OF COMMERCE</b>	
<b>PSO-1</b>	Impart the students with higher level knowledge and understanding of contemporary trends in commerce and business finance.
<b>PSO-2</b>	Equip the students to evaluate environmental factors that influence business operation with the conceptual requirements and skills on preparation and interpretation of financial statements.
<b>PSO-3</b>	Prepare the students to apply statistical methods and proficient use of tools for modeling and analysis of business data.
<b>PSO-4</b>	Facilitate the students to apply capital budgeting techniques for investment decisions.
<b>PSO-5</b>	Prepare students to appraise the structure and operations of banking systems.
<b>PSO-6</b>	Prepare the students for an in-depth analysis of investment, portfolio management, investment banking and liquidation of investments.
<b>PSO-7</b>	Develop competency in the students about the laws and regulations and roles of commercial, government and central banks in controlling money market and inflation.
<b>PSO-8</b>	Facilitate the students to analysis and frame micro financing schemes for rural banking. Impart the students the concept of risk mitigation in financial sectors and their role in investment decisions of individuals and business enterprises.
<b>PSO-9</b>	Provide guidance to students to plan and undertake independent research in a chosen discipline.
<b>PSO-10</b>	Train the students on teamwork, lifelong learning and
<b>PSO-11</b>	continuous professional development
<b>PSO-12</b>	Impart the students with higher level knowledge and understanding of contemporary trends in commerce and business finance.
<b>BACHELOR OF SCIENCE</b>	
<b>PSO-1</b>	Upon completion of the Graduate Chemistry sequence, chemistry majors are able to recognize and apply the principles of atomic and molecular structure to predict chemical properties and chemical reactivity
<b>PSO-2</b>	Upon completion of a degree, chemistry majors are able to employ critical thinking and scientific inquiry in the performance, design, interpretation and documentation of laboratory experiments, at a level suitable to succeed at an entry-level position in chemical industry or a chemistry graduate program.

<b>PSO-3</b>	Upon completion of a chemistry degree, chemistry majors are able to interpret and analyze quantitative data.	
<b>PSO-4</b>	Upon completion of a BSC in Chemistry degree, students are able to understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.	
<b>PSO-5</b>	Understand the basics in Atomic Structure, Errors in analysis, Acids, Bases, Its strength, Electrophilic, Nucleophilic Periodicity, Qualitative, Quantitative analysis, Chromatographic Techniques, Kinetic reactions, Conductance, Phase rules, Nuclear rections, Quantum, MOT, Sidgwick, LFT, CFT, Coordination Chemistry, Industries like Agro, Cement, Glass, Food, Sugar, Soap, Dye etc.	
<b>PSO-6</b>	The ability to apply such knowledge and understanding to the solution of qualitative and quantitative problems	
<b>PSO-7</b>	Basic knowledge of spectra of molecular, atomic, UV, IR and NMR	
<b>PSO-8</b>	Approach to Green Chemistry and protection of environment and west management	
<b>PSO-9</b>	Progression to HE	
<b>SCIENCE</b>		
<b>Chemistry (UG, PG)</b>	<b>PSO-1</b>	Expectation of all PO of Graduate in Science.
	<b>PSO-2</b>	Upon completion of the Graduate Chemistry sequence, chemistry majors are able to recognize and apply the principles of atomic and molecular structure to predict chemical properties and chemical reactivity.
	<b>PSO-3</b>	Upon completion of a degree, chemistry majors are able to employ critical thinking and scientific inquiry in the performance, design, interpretation and documentation of laboratory experiments, at a level suitable to succeed at an entry-level position in chemical industry or a chemistry graduate program.
	<b>PSO-4</b>	Upon completion of a chemistry degree, chemistry majors are able to interpret and analyze quantitative data.
	<b>PSO-5</b>	Upon completion of a BS in Chemistry degree, students are able to understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as nterpret and use data generated in instrumental chemistry.
	<b>PSO-6</b>	Understand the basics in Atomic Structure, Errors in analysis, Acids, Bases, Its strength, Electrophilic, Nucleophilic Periodicity, Qualitative, Quantitative analysis, Chromatographic Techniques, Kinetic reactions, Conductance, Phase rules, Nuclear reactions, Quantum, MOT, Sidgwick, LFT, CFT, Coordination Chemistry, Industries like Agro, Cement, Glass, Food, Sugar, Soap, Dye etc.
	<b>PSO-7</b>	The ability to apply such knowledge and understanding to the solution of qualitative and quantitative problems.
	<b>PSO-8</b>	Basic knowledge of spectra of molecular, atomic, UV, IR and NMR.

	<b>PSO-9</b>	Approach to Green Chemistry and protection of environment and waste management.
	<b>PSO-10</b>	Progression to HE
	<b>PSO-11</b>	Expectation of all PO of Graduate in Science.
	<b>PSO-12</b>	Upon completion of the Graduate Chemistry sequence, chemistry majors are able to recognize and apply the principles of atomic and molecular structure to predict chemical properties and chemical reactivity.
<b>Botany</b>	<b>PSO-1</b>	Study of Plant Diversity, Utilization of plants, Plant Physiology, Plant biotechnology and Plant ecology
	<b>PSO-2</b>	Understand Ecology, ecosystems, plants interactions with the environment.
	<b>PSO-3</b>	Identify the Classification and plant diversity of Cryptogams and Phanerogams plants
	<b>PSO-4</b>	Understand the physiology of plants includes transpiration, osmosis, plasmolysis, structure of DNA, plants families, classification of plants importance.
<b>Zoology</b>	<b>PSO-1</b>	To provide thorough knowledge about various animal sciences from primitive to highly evolved animal groups
	<b>PSO-2</b>	To make the students aware of applications of Zoology subject in various industries
	<b>PSO-3</b>	To highlight the potential of various branches to become an entrepreneur
	<b>PSO-4</b>	To equipped the students with skills related to laboratory as well as field based studies
	<b>PSO-5</b>	To make the students aware about conservation and sustainable use of biodiversity
	<b>PSO-6</b>	To inculcates interest and foundation for further studies in Zoology
	<b>PSO-7</b>	To address the socio-economic challenges related to animal sciences
	<b>PSO-8</b>	To facilitate students for taking up and shaping a successful career in Zoology
	<b>PSO-9</b>	To bridge up the gap between knowledge based conventional education and market demands and to provide an alternative to those pursuing higher education.
	<b>PSO-10</b>	To enrich students' training and knowledge to practices of Applied zoology in Cottage industry
	<b>PSO-11</b>	To introduce the various techniques of rearing of useful animals.
	<b>PSO-12</b>	To inculcate sense of job responsibilities, while maintaining social and environment awareness



	<b>PSO-13</b>	To help students build-up a progressive and successful career in industries with a biochemical perspective
	<b>PSO-24</b>	To promote the possibility of self-employment after B.Sc.
<b>Physics</b>	<b>PSO-1</b>	The student develop good experimental technique, including proper setup and care of equipment, conducting experiments and analyzing results and make meaningful comparisons between experiment and theory
	<b>PSO-2</b>	Develop deep understanding of the basics, fundamental & laws of physics like mechanics, optics, properties of matter, e-m theory, and environmental issues related to physics so that they can pursue higher studies
	<b>PSO-3</b>	Students completing this course will have understanding of matter through courses like solid state physics, atomic and molecular physics, nuclear physics etc.
	<b>PSO-4</b>	Technical skills & Skills of computer software will be developed through practical course.
<b>Mathematics</b>	<b>PSO-1</b>	Give the students a sufficient knowledge of fundamental principles, methods and a clear perception of in numerous power of mathematical ideas and tools and know how to Use them by modelling, solving and interpreting.
	<b>PSO-2</b>	Reflecting the broad nature of the subject and developing mathematical tools for
	<b>PSO-3</b>	Continuing further study in various fields of science and technology.
	<b>PSO-4</b>	Enabling students to develop a positive attitude towards mathematics as an Interesting and valuable subject of study

**COURSE OUTCOME ACADEMIC YEAR 2022-23**

<b>DEPARTMENT OF BACHELOR OF BUSINESS ADMINISTRATION IN COMPUTER APPLICATION</b>		
<b>Course Title</b>	<b>CO No.</b>	<b>Course Outcomes</b>
<b>Business Communication (CA-101)</b>	<b>CO-1</b>	To understand what is the role of communication in personal and business worlds
	<b>CO-2</b>	To understand system and communication and their utility
	<b>CO-3</b>	To develop proficiency in how to write business letters and other communications
	<b>CO-4</b>	Apply the managerial functions in different business setup
	<b>CO-5</b>	Implement decisions to ensure organizational effectiveness
<b>Principles of Management (CA-102)</b>	<b>CO-1</b>	Interpret and design the different forms of organization
	<b>CO-2</b>	Demonstrate social responsibility and ethical issues involved in business situations and organizations
	<b>CO-3</b>	Integrate management principles in real time situations
	<b>CO-4</b>	Apply the managerial functions in different business setup
	<b>CO-5</b>	Implement decisions to ensure organizational effectiveness
<b>C Programming (CA-103)</b>	<b>CO-1</b>	To understand the concept of Procedural Programming
	<b>CO-2</b>	To acquire basic programming skills using C Programming Language
	<b>CO-3</b>	Students will Improve logical thinking through practical knowledge of C Programming
	<b>CO-4</b>	By learning the basic programming constructs they can easily Switch over to any other language in future.

<b>Database Management System</b> <b>(CA-104)</b>	<b>CO-1</b>	To understand role and importance File Structures and Organization
	<b>CO-2</b>	To develop skills related with Database basic Concepts.
	<b>CO-3</b>	To Develop right understanding of various Data models
	<b>CO-4</b>	To Understand the Programming in SQL and Implementation
	<b>CO-5</b>	To Learn about Relational Database Designing.
<b>Statistics</b> <b>(CA-105)</b>	<b>CO-1</b>	To understand role and importance of statistics in various business situations
	<b>CO-2</b>	To develop skills related with basic statistical technique
	<b>CO-3</b>	Develop right understanding regarding regression, correlation and data interpretation
<b>Computer Laboratory Based on 103 &amp;104</b> <b>(CA-106)</b>	<b>CO-1</b>	To assess the knowledge of student in C and DBMS
	<b>CO-2</b>	To acquire knowledge on writing computer programs using C Language
	<b>CO-3</b>	To create and manage Database using SQL
<b>Principles of programming and algorithm</b> <b>(CA-107)</b>	<b>CO-1</b>	To develop analytical /logical thinking and problem solving capabilities
	<b>CO-2</b>	To know the fundamentals of programming and designing.
	<b>CO-3</b>	To learn the algorithm analysis and notations
	<b>CO-4</b>	To understand the concept, problem and algorithm.
<b>Organization Behavior &amp; Human Resource Management</b> <b>(CA-201)</b>	<b>CO-1</b>	To understand basic concept of HRM & OB
	<b>CO-2</b>	To know the major trends in HRM & OB
	<b>CO-3</b>	To make aware students about on the job & Off the Job Training methods
	<b>CO-4</b>	To understand basic concept of HRM & OB

<b>Financial Accounting (CA-202)</b>	<b>CO-1</b>	To develop right understanding regarding role and importance of monetary and financial transactions in business
	<b>CO-2</b>	To cultivate right approach towards classifications of different transactions and their implications
	<b>CO-3</b>	To develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L
<b>Business Mathematics (CA-203)</b>	<b>CO-1</b>	To understand role and importance of Mathematics in various business situations and while developing softwares.
	<b>CO-2</b>	To develop skills related with basic mathematical technique
<b>Relational database management System. (CA-204)</b>	<b>CO-1</b>	Enables students to understand relational database concepts.
	<b>CO-2</b>	Enables students to understand transaction management concepts in database system.
	<b>CO-3</b>	Enables student to write PL/SQL programs that use: procedure, function, package, cursor and trigger.
	<b>CO-4</b>	To Understand SQL/PLSQL the programming language of oracle
	<b>CO-5</b>	Get Fundamental Knowledge of subject in Brief along with Software.
<b>Web Technology HTML-JS-CSS (CA-205)</b>	<b>CO-1</b>	To know & understand concepts of internet programming.
	<b>CO-2</b>	To understand how to develop web based applications using JavaScript
<b>Computer Laboratory Based on 204 &amp; 205 (CA-206)</b>	<b>CO-1</b>	To assess the knowledge of student in RDBMS and Web Technology
	<b>CO-2</b>	To acquire knowledge on writing computer programs using concept of Web Technology
	<b>CO-3</b>	To create and manage Database using concept of RDBMS
<b>Add On (Advance C) (CA-207)</b>	<b>CO-1</b>	To study advanced concepts of programming using the 'C' Language.
	<b>CO-2</b>	To understand code organization with complex data types and structures.
	<b>CO-3</b>	To work with files.

<b>Digital Marketing</b> <b>(CA-301)</b>	<b>CO-1</b>	The aim of this syllabus is to give knowledge about using digital marketing in and as business.
	<b>CO-2</b>	To make SWOT analysis, SEO optimization and use of various digital marketing tools.
	<b>CO-3</b>	To understand Case study and Exercise on various terms
	<b>CO-4</b>	To understand Digital marketing for business purpose
<b>Data Structure</b> <b>(CA-302)</b>	<b>CO-1</b>	To understand the concept of ADT's.
	<b>CO-2</b>	To learn linear data structures – lists, stacks, and queues.
	<b>CO-3</b>	To understand sorting, searching and hashing algorithms.
	<b>CO-4</b>	To apply Tree and Graph structures.
<b>Software Engineering</b> <b>(CA-303)</b>	<b>CO-1</b>	To understand system concepts.
	<b>CO-2</b>	To understand Software Engineering concepts.
<b>Angular – JS</b> <b>(CA-304)</b>	<b>CO-1</b>	By the end of this course, the students should be able to Understand Client Side MVC and SPA
	<b>CO-2</b>	Explore Angular JS Component
	<b>CO-3</b>	Develop an Angular JS Single Page Application
	<b>CO-4</b>	Apply filter in Angular JS application
	<b>CO-5</b>	By the end of this course, the students should be able to Understand Client Side MVC and SPA
<b>Big Data</b> <b>(CA-305)</b>	<b>CO-1</b>	To enable learners to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning
	<b>CO-2</b>	To enable the learner to identify, develop and apply detailed analytical, creative, problem solving skills.
	<b>CO-3</b>	Provide the learner with a comprehensive platform for career development, innovation and further study.

<b>Computer Laboratory Based on 302, 304 and 305 (CA-306)</b>	<b>CO-1</b>	To assess the knowledge of student in Data Structure, AngularJS and R programming
	<b>CO-2</b>	To acquire knowledge on writing computer programs using concept of Data Structure , Angular JS and R programming
	<b>CO-3</b>	To create and manage Applications using Data Structure , Angular JS and R programming
<b>Basic Course in Environmental Awareness (CA-307)</b>	<b>CO-1</b>	Provide an opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment
	<b>CO-2</b>	To develop conscious towards a cleaner and better managed Environment
<b>Networking (CA-401)</b>	<b>CO-1</b>	To gain knowledge about Computer Networks concepts.
	<b>CO-2</b>	To know about working of networking models, addresses, transmission medias and connectivity devices.
<b>Object Oriented Concepts Through CPP (CA-402)</b>	<b>CO-1</b>	Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
	<b>CO-2</b>	Enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling.
<b>Operating System (CA-403)</b>	<b>CO-1</b>	To know the services provided by Operating System
	<b>CO-2</b>	To know the scheduling concept
	<b>CO-3</b>	To understand design issues related to memory management and various related algorithms.
	<b>CO-4</b>	To understand design issues related to File management and various related algorithms
<b>Computer Laboratory Based on 402 and 404 (406)</b>	<b>CO-1</b>	To assess the knowledge of student in CPP and Adv. PHP
	<b>CO-2</b>	To acquire knowledge on writing computer programs using concept of CPP and Adv. PHP

	<b>CO-3</b>	To create and manage Applications using CPP and Adv. PHP
<b>Cyber Security (CA-501)</b>	<b>CO-1</b>	To understand the fundamentals of cyber security.
	<b>CO-2</b>	To understand various categories of Cybercrime, Cyber-attacks on mobile, tools and techniques used in Cybercrime and case studies.
	<b>CO-3</b>	To have an overview of the Cyber laws and concepts of Cyber Forensics.
<b>Object Oriented Software Engineering (CA-502)</b>	<b>CO-1</b>	To understand the fundamentals of object modeling
	<b>CO-2</b>	To understand and differentiate Unified Process from other approaches.
	<b>CO-3</b>	To design with static UML diagrams.
	<b>CO-4</b>	To design with the UML dynamic and implementation diagrams.
	<b>CO-5</b>	To improve the software design with design patterns.
	<b>CO-6</b>	To test the software against its requirements specification.
<b>Core Java (CA-503)</b>	<b>CO-1</b>	To introduce the object oriented programming concepts.
	<b>CO-2</b>	To understand object oriented programming concepts, and apply them in solving problems.
	<b>CO-3</b>	To introduce the principles of inheritance and polymorphism; and demonstrate how they relate to the design of abstract classes
	<b>CO-4</b>	To introduce the implementation of packages and interfaces
	<b>CO-5</b>	To introduce the concepts of exception handling and multithreading.
	<b>CO-6</b>	To introduce the design of Graphical User Interface using applets and swing controls.
<b>Python (CA-504)</b>	<b>CO-1</b>	Define and demonstrate the use of built-in data structures “lists” and “dictionary”.
	<b>CO-2</b>	Design and implement a program to solve a real world problem.

	<b>CO-3</b>	Design and implement GUI application and how to handle exceptions and files.
<b>Project (CA-505)</b>	<b>CO-1</b>	Students can express their ideas clearly and effectively, both verbally and in written form.
	<b>CO-2</b>	Students can work as a team to achieve common goals.
	<b>CO-3</b>	Students are able to make links across different areas of knowledge and to generate, develop and evaluate ideas and Information related to the project.
	<b>CO-4</b>	Students are able to learn on their own, reflect on their learning and improve upon it.
<b>Computer Laboratory Based on 502 and 503 (CA-506)</b>	<b>CO-1</b>	To assess the knowledge of student in Java Programming, Python
	<b>CO-2</b>	To acquire knowledge on writing computer programs using concept of Java Programming, Python
	<b>CO-3</b>	To create and manage Applications using Java Programming, Python
<b>Ad-on Internet of Things (IoT) (CA-507)</b>	<b>CO-1</b>	To understand Technical aspects of Internet of things.
	<b>CO-2</b>	To describe smart objects and IoT Architecture.
	<b>CO-3</b>	To study and compare different Application protocols of IoT.
	<b>CO-4</b>	To understand IoT platform using Arduino Uno.
<b>Recent Trends in IT (CA-601)</b>	<b>CO-1</b>	To discuss the basic concepts AI.
	<b>CO-2</b>	To apply basic, intermediate and advanced techniques to mine the data.
	<b>CO-3</b>	To provide an overview of the concept of Spark programming.
<b>Software Testing (CA-602)</b>	<b>CO-1</b>	Students will be introduced to testing tools.
	<b>CO-2</b>	Students will acquire Knowledge of Basic SQA.



	<b>CO-3</b>	Students will be able to design basic Test Cases.
<b>Advanced Java (CA-603)</b>	<b>CO-1</b>	Students will know the concepts of JDBC Programming.
	<b>CO-2</b>	Students will know the concepts of Multithreading and Socket Programming.
	<b>CO-3</b>	Students will know the concepts of Spring and Hibernate.
	<b>CO-4</b>	Students will develop the project by using JSP and JDBC.
	<b>CO-5</b>	Students will develop applications in Spring and hibernate
<b>Dot Net Framework (CA-604)</b>	<b>CO-1</b>	Understand the features of Dot Net Framework, VB,C#, and ASP.
	<b>CO-2</b>	Design and develop window-based and web-based .NET Applications.
	<b>CO-3</b>	Design and Implement database connectivity using ADO.NET for VB, C#, and ASP.
	<b>CO-4</b>	Design and develop a Website.
<b>Project (ca-605)</b>	<b>CO-1</b>	Students can express their ideas clearly and effectively, both verbally and in written form.
	<b>CO-2</b>	Students can work as a team to achieve common goals.
	<b>CO-3</b>	Students are able to make links across different areas of Knowledge and to generate, develop and evaluate ideas and information related to the project.
	<b>CO-4</b>	Students are able to learn on their own, reflect on their learning and improve upon it.
<b>DEPARTMENT OF BACHELOR OF BUSINESS COMPUTER APPLICATION</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>Business Communication Skills (101)</b>	<b>CO-1</b>	It improves various skills of students such as linguistic, non-linguistic etc.
	<b>CO-2</b>	Students learn the basic concepts of business communications such as formal communication, informal communication etc.

	<b>CO-3</b>	It enhances the students' ability to read, write, listen and speak effectively.
	<b>CO-4</b>	Students observe and apply different Communication skills in day to day life.
<b>Principle of Management (102)</b>	<b>CO-1</b>	Students learn the conceptual knowledge about nature, complexity, functions of management etc.
	<b>CO-2</b>	Students understand the different aspects of principles of management given by different authors.
	<b>CO-3</b>	Students learn the importance of management of change, crisis, TQM, Stress Management etc.
	<b>CO-4</b>	It helps to apply Henry Fayol's principles in Day to day working life.
<b>C Language (103)</b>	<b>CO-1</b>	Ability to improve logical thinking through practical knowledge of C Programming.
	<b>CO-2</b>	Able to develop logic for writing programs using Control Structures, Arrays, and Functions.
	<b>CO-3</b>	Able to develop small real-life applications using C.
<b>Database Management System (104)</b>	<b>CO-1</b>	Ability to obtain the basic knowledge of Database Management Systems.
	<b>CO-2</b>	Able to gain knowledge of creation, manipulation and querying of data in databases.
	<b>CO-3</b>	Able to normalize the database design.
	<b>CO-4</b>	Able to develop an E-R model based on user requirements
<b>Statistics (105)</b>	<b>CO-1</b>	Students learn the basic concepts of statistics.
	<b>CO-2</b>	Students understand to calculate various types of averages and variation.
	<b>CO-3</b>	Students understand how the different statistical concepts can be applied in different industries differently.
	<b>CO-4</b>	It inculcates the research culture among
<b>Computer Laboratory</b>	<b>CO-1</b>	Ability to develop and implement computer programs using C Language.

<b>based on CA-103 and CA-104 (106)</b>	<b>CO-2</b>	Able to create and manipulate databases using SQL.
	<b>CO-3</b>	Understand how to write, debug and execute simple programs in C
<b>Organization Behavior and Human Resource Management (201)</b>	<b>CO-1</b>	Ability to develop strategies for organizational change and development.
	<b>CO-2</b>	Able to make aware students of traditional & modern methods of procurement & development in the organization.
	<b>CO-3</b>	Able to explore the major trends in HRM & OB.
<b>Financial Accounting (202)</b>	<b>CO-1</b>	Ability to develop skills for basic accounting.
	<b>CO-2</b>	The course will impart knowledge on transaction management and record-keeping.
	<b>CO-3</b>	Cultivate the right approach towards classifications of different transactions and their implications.
	<b>CO-4</b>	Develop proficiency in the preparation of basic financial and accounting statements
<b>Business Mathematics (203)</b>	<b>CO-1</b>	Ability to analyze and interpret mathematical results.
	<b>CO-2</b>	To understand the role and importance of Mathematics in various business situations and while developing software.
<b>Relational Database (204)</b>	<b>CO-1</b>	Able to acquire a good formal foundation on the relational model of data and usage of Relational Databases.
	<b>CO-2</b>	Enables the student to write PL/SQL programs that use procedure, function, package, cursor and trigger.
	<b>CO-3</b>	Able to use advanced database Programming concepts.
<b>Web Technology HTML- JavaScript- CSS (205)</b>	<b>CO-1</b>	Ability to design more attractive Web pages using CSS.
	<b>CO-2</b>	Ability to develop interactive websites using JavaScript.
	<b>CO-3</b>	Understand how to develop web-based applications using JavaScript.

<b>Computer Laboratory Based on 204 and 205 (206)</b>	<b>CO-1</b>	Able to manage relational databases using SQL.
	<b>CO-2</b>	Ability to write simple and nested queries using SQL.
	<b>CO-3</b>	Ability to write PL/SQL programs that uses procedure, function, package, cursor, and trigger.
	<b>CO-4</b>	Ability to design web pages using HTML, CSS and JavaScript
<b>Digital Marketing (301)</b>	<b>CO-1</b>	Familiarity with working of E-Commerce and understand B-B, C-B, C-Relationship.
	<b>CO-2</b>	Able to understand the basics of SEO (Search Engine Optimization) and better understanding between Digital and Real Marketing.
	<b>CO-3</b>	Understanding of Digital Marketing types and gaining practical knowledge of its usage through the Internet, Social Media and Mobile, Email. Designing effective content for digital marketing using various Digital Marketing tools.
	<b>CO-4</b>	Developing an effective marketing strategy using CRM.
<b>Data Structure (302)</b>	<b>CO-1</b>	Able to understand the concepts of ADTs.
	<b>CO-2</b>	Develop skills in the implementation and application of different types of data structures.
	<b>CO-3</b>	To understand basic algorithms related to sorting, searching and hashing.
	<b>CO-4</b>	To understand the concept of different memory allocation techniques.
	<b>CO-5</b>	Apply algorithm and data structure in various real-life software problems.
<b>Software Engineering (303)</b>	<b>CO-1</b>	Able to understand concepts of Systems and their types.
	<b>CO-2</b>	Able to understand software engineering concepts and their applications.
	<b>CO-3</b>	Develop the ability to gain knowledge of the SDLC process.
	<b>CO-4</b>	Ability to understand the concept of Re-Engineering and Reverse Engineering.

	<b>CO-5</b>	Knowledge of different types of software development models such as waterfall, spiral, and prototyping.
	<b>CO-6</b>	Understand the concept of testing and its types.
<b>PHP (304)</b>	<b>CO-1</b>	Ability to develop interactive data-driven dynamic websites.
	<b>CO-2</b>	Understand how server-side programming works on the web.
	<b>CO-3</b>	To understand Session and Cookie concept.
	<b>CO-4</b>	To implement database connectivity.
<b>Angular JS (305)</b>	<b>CO-1</b>	Empower students to create a web application that depends on Client-Side MVC & SPA.
	<b>CO-2</b>	To study the use of various AngularJS Components.
	<b>CO-3</b>	Ability to understand the concepts of JavaScript and its implementation.
	<b>CO-4</b>	Create and bind controllers with JavaScript and apply the filter in the Angular JS application.
<b>Big Data (306)</b>	<b>CO-1</b>	Able to understand the basic techniques such as R programming that form the foundations of Big Data.
	<b>CO-2</b>	Ability to acquire knowledge in specialized aspects of big data including big data applications and big data analytics.
	<b>CO-3</b>	To understand the building blocks of Big Data and specialized aspects of big data with the help of different big data applications.
	<b>CO-4</b>	Explore the area of specialization in Data Science and be able to represent the analytical aspects of Big Data.
	<b>CO-5</b>	Able to summarize data using exploratory data analysis and visualization using graphs.
<b>Blockchain (306)</b>	<b>CO-1</b>	Understand what and why of Blockchain.
	<b>CO-2</b>	Explore the major components of Blockchain.
	<b>CO-3</b>	Learn about Bitcoin, Cryptocurrency and Ethereum.

	<b>CO-4</b>	Deploy and exercise example smart contracts.
	<b>CO-5</b>	Identify a use case for a Blockchain application.
	<b>CO-6</b>	Create your Blockchain network application.
<b>Networking (401)</b>	<b>CO-1</b>	Obtain knowledge about Computer Network concepts.
	<b>CO-2</b>	Gain Knowledge about working of networking models, addresses, transmission media and Connectivity devices.
	<b>CO-3</b>	To acquire information about network security and cryptography.
<b>Object-Oriented Concepts through CPP (402)</b>	<b>CO-1</b>	Acquire an understanding of basic object-
	<b>CO-2</b>	Oriented concepts and the issues involved in effective class design.
	<b>CO-3</b>	Develop programming skills using C++ features.
	<b>CO-4</b>	Able to use various object-oriented concepts used to solve real-life problems.
<b>Operating System (403)</b>	<b>CO-1</b>	Understand fundamental operating system
	<b>CO-2</b>	abstraction such as process, semaphore, thread etc.
	<b>CO-3</b>	To know the services provided by Operating System.
	<b>CO-4</b>	Analyze process scheduling, CPU Scheduling, and memory management algorithms.
<b>Node – JS (404)</b>	<b>CO-1</b>	Understand the JavaScript and technical concepts behind Node JS.
	<b>CO-2</b>	Structure a Node application in modules.
	<b>CO-3</b>	Understand and use the Event Emitter, Buffers, Streams and Pipes.
	<b>CO-4</b>	Build a Web Server in Node and understand how it works.

	<b>CO-5</b>	Ability to understand how to connect with SQL or Mongo database in Node.
<b>Advance PHP (405)</b>	<b>CO-1</b>	To know & understand concepts of internet programming.
	<b>CO-2</b>	Understand how server-side programming works on the web.
	<b>CO-3</b>	Able to understand how to use PHP Frameworks like (Joomla / Drupal)
<b>Cyber Security (501)</b>	<b>CO-1</b>	Have a good understanding of Cyber Security and the Tools.
	<b>CO-2</b>	To acquire basic information on Cyber Security and Cybercrime.
	<b>CO-3</b>	Have a good understanding of Cyber laws.
	<b>CO-4</b>	To develop Cyber forensics awareness.
	<b>CO-5</b>	Identify attacks, security policies and credit card frauds in the mobile and Wireless Computing Era.
<b>Object-Oriented Software Engineering (502)</b>	<b>CO-1</b>	Able to give Design Specifications for Project.
	<b>CO-2</b>	Acquire Knowledge in Basic Modeling.
	<b>CO-3</b>	Ability to acquire Project Management Skills.
	<b>CO-4</b>	Able to understand the fundamentals of object modeling
	<b>CO-5</b>	Design different UML diagrams.
	<b>CO-6</b>	Improve the software design with design patterns.
<b>Core Java (503)</b>	<b>CO-1</b>	Able to solve real-world problems using OOP techniques.
	<b>CO-2</b>	Able to solve problems using java collection framework and I/O classes
	<b>CO-3</b>	Develop applets for web applications.

	<b>CO-4</b>	Design GUI-based applications.
	<b>CO-5</b>	Ability to understand the use of file concepts.
<b>MongoDB (504)</b>	<b>CO-1</b>	Ability to work with Mongo DB shell andMongo DB tools.
	<b>CO-2</b>	Able to do Schema design, Data modeling,and all sorts of CRUD Operations.
	<b>CO-3</b>	Able to apply various techniques tooptimize query performance.
	<b>CO-4</b>	Analyse the data stored in Mongo DB.
<b>Python (504)</b>	<b>CO-1</b>	Understand the need and importance ofPython language.
	<b>CO-2</b>	Able to learn how to design andimplement Python applications.
	<b>CO-3</b>	Design and implement a program to solvea real-world problem
	<b>CO-4</b>	Design and implement GUI application
	<b>CO-5</b>	Gain knowledge of handling the conceptsof exceptions and files.
<b>(DSE) Project (505)</b>	<b>CO-1</b>	Undertake problem identification, formulation and solution.
	<b>CO-2</b>	Understand project characteristics and various stages of project development.
	<b>CO-3</b>	Design solutions to complex problems.
	<b>CO-4</b>	Gain a sound technical knowledge of selected project development platforms.
	<b>CO-5</b>	Developed enhance coding skills.
<b>Computer Laboratories Based on (503 and 504) (2</b>	<b>CO-1</b>	Define and demonstrate the use of GUI Programming concepts.
	<b>CO-2</b>	Design and implement a program to solve a real-world problem.



<b>credits each) (506)</b>	<b>CO-3</b>	Design and implement classes and methods.
	<b>CO-4</b>	Implementation of exception handling using packages.
<b>Recent Trends in IT (601)</b>	<b>CO-1</b>	Able to understand basic concepts of AI.
	<b>CO-2</b>	To apply basic, intermediate and advanced techniqueto mine the data.
	<b>CO-3</b>	To provide an overview of the concept of Sparkprogramming.
<b>Software Testing (602)</b>	<b>CO-1</b>	Acquire knowledge of testing tools.
	<b>CO-2</b>	Understand the basic concepts of SQA.
	<b>CO-3</b>	Able to design and implement the basic Test Cases.
<b>Advanced Java (603)</b>	<b>CO-1</b>	Able to understand the concepts of JDBC Programming, Multithreading and SocketProgramming.
	<b>CO-2</b>	Ability to understand the concepts of spring and Hibernate, JSP and JDBC.
	<b>CO-3</b>	Develop applications in spring and hibernate.
	<b>CO-4</b>	Design website by using JDBC and JSP.
	<b>CO-5</b>	Develop different types of Servlet applications
<b>Android Programming (604)</b>	<b>CO-1</b>	Able to write simple GUI applications, use built-in widgets and components, work with the database tostore data locally, and much more.
	<b>CO-2</b>	Demonstrate their understanding of the fundamentalsof Android operating systems.
	<b>CO-3</b>	Demonstrate their skills in using Android softwaredevelopment tools
<b>Dot Net Framework (604)</b>	<b>CO-1</b>	Understand the features of Dot Net Framework, VB,C#, and ASP.
	<b>CO-2</b>	Design and develop window-based and web-based .NET Applications.

	<b>CO-3</b>	Design and Implement database connectivity using ADO.NET for VB, C#, and ASP..
	<b>CO-4</b>	Design and develop a Website.
<b>(DSE) Project (605)</b>	<b>CO-1</b>	Acquire Project development and management skills.
	<b>CO-2</b>	Able to implement design and coding techniques.
	<b>CO-3</b>	Students will be able to apply test cases and testing techniques in the project.
<b>Computer Laboratory Based on 603 and 604 (2 credits each) (606)</b>	<b>CO-1</b>	Ability to develop different types of chatting applications by using Socket programming.
	<b>CO-2</b>	Able to develop and design different types of websites.
	<b>CO-3</b>	Able to develop the project by using spring and Hibernate.
	<b>CO-4</b>	To Understand Applications of widgets and components.

## DEPARTMENT OF GEOGRAPHY

<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b><u>Geography</u></b>	<b>CO-1</b>	Students of all undergraduate general degree programs should have acquired the following abilities/ values at the time of graduation:
	<b>CO-2</b>	Define and develop the interdisciplinary approach through the study of Geography
	<b>CO-3</b>	Enhance employability and entrepreneur skills among the students.
	<b>CO-4</b>	Demonstrate and appreciate the importance of diverse cultural, economic, regional, and resources perspective.
	<b>CO-5</b>	Realization the importance of relation between Geography and various branches of Humanities, mental moral sciences.
	<b>CO-6</b>	Demonstrate and understand the important concept and theories in the field of Geography. Subject specific

	<b>CO-7</b>	Demonstrate knowledge of physical and cultural features of the earth surface.
	<b>CO-8</b>	Define basic disciplines of Geography and its sub branches.
	<b>CO-9</b>	Discuss the basic concepts and terminologies used in Geography like interior of the earth, plate tectonic, sea floor spreading, population growth, disasters, composition and structure of atmosphere, hydrosphere, etc.
	<b>CO-10</b>	Distinguish between minerals and rocks, weather and climate, interior of the earth, basic industries, farming etc.
	<b>CO-11</b>	Describe the causes and effects of local, national and international problems like global warming, acid rain, ozone depletion, soil degradation, deforestation etc. Institutional
	<b>CO-12</b>	Encourage to develop overall personality with soft skills and vocational competence among the students
	<b>CO-13</b>	Enhance and rediscover knowledge skills and holistic approach towards life

### **DEPARTMENT OF ECONOMICS**

<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>ECONOMICS</b>	<b>CO-1</b>	To familiarize with fundamentals of modern financial system.
	<b>CO-2</b>	To help the students to prepare for varied competitive examinations.
	<b>CO-3</b>	To familiarize students with various concepts of national income.
	<b>CO-4</b>	To introduce students to the role of money in an economy.
	<b>CO-5</b>	To facilitate the development of research aptitude in students.

### **DEPARTMENT OF MARATHI**

<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>F.Y.B.A. SEM-I</b>	<b>CO-1</b>	Understanding the interrelation between literature and society.

<b>(Marathi)</b>	<b>CO-2</b>	Explaining the nature of Language and Literature.
	<b>CO-3</b>	Obtaining the skills of literary criticism.
	<b>CO-4</b>	Imbuing the essay writing skills.
	<b>CO-5</b>	Illustrating the nature of literary forms like one-act-play, travelogue and short-story.
<b>B.A. SEM-II (Marathi)</b>	<b>CO-1</b>	Introduction of medieval Marathi language and literature.
	<b>CO-2</b>	Introduction of the contemporary literary works.
	<b>CO-3</b>	Acquiring the skill of translation.
	<b>CO-4</b>	Explanation of the need and significance of editing
<b>B.A.III G3 (Marathi) Poetry</b>	<b>CO-1</b>	Acquaintance with oriental poetry.
	<b>CO-2</b>	Understanding the nature and features of poetry's.
	<b>CO-3</b>	Acquaintance with oriental poetry.
	<b>CO-4</b>	Developing the poetic devices and their uses.
	<b>CO-5</b>	Creating the skills of critical appreciation of poem
<b>B.A.III S4 Linguistics</b>	<b>CO-1</b>	Getting acquainted with modern linguistics.
	<b>CO-2</b>	Understanding origin, nature and function of language.
	<b>CO-3</b>	Getting information about phonetics.
	<b>CO-4</b>	Enhancing the interest in Marathi Language.
<b>B.A.III S3 Medieval</b>	<b>CO-1</b>	Introduction of the historical survey of medieval Marathi literature.

<b>Marathi Literature</b>	<b>CO-2</b>	Introduction of the literary forms in medieval literature.
	<b>CO-3</b>	Explanation of the trends and structure of medieval Marathi Literature.
<b>Marathi III Utility and Creativity of Marathi Language</b>	<b>CO-1</b>	Understanding the formal and informal language.
	<b>CO-2</b>	Developing various language skills.
	<b>CO-3</b>	Getting motivation for creative writing.
	<b>CO-4</b>	Understanding the technique of mass communication.
<b>B.A.III Literary Criticism:</b>	<b>CO-1</b>	Introduction to various trends in literary criticism.
	<b>CO-2</b>	Understanding various trends in Dalit literature.
<b>T.Y.B.A. MARATHI Sem V G3 -- BHASHI K KAUSH ALYVIK AS AANI ADHUNI K MARATHI SAHITYA PRAKAR: PRVASVARNAN</b>	<b>CO-1</b>	Acquiring writing skills for print media.
	<b>CO-2</b>	To understanding the nature, motivation, purpose, features and movement of the literary genre.
	<b>CO-3</b>	To understand taste and analyse the assigned travelogue.

<b>Sem VI G3— BHASHIK KAUSHALYVIK AS AANI MARATHI SAHITYA PRAKAR: KAVITA</b>	<b>CO-1</b>	To learn about Marathi literature, language skills development and governance.
	<b>CO-2</b>	To understanding the nature, movement, motivation, tendency and features of this genre of poetry.
	<b>CO-3</b>	Assessing, testing and analyzing selected poems from the designated textbook
	<b>CO-4</b>	To get acquainted with the various inventions in the genre of poetry and the form of language on the basis of the poems of the textbook
<b>S3— MADHYUGIN MARATHI VANGMAUACH A STHUL ITIHAS PRARAMBH TE 1600</b>	<b>CO-1</b>	To understand concept form, motivation, tendency of the growing history.
	<b>CO-2</b>	Understanding the social and cultural background of the medieval period.
	<b>CO-3</b>	To understand the chronological history of Marathi language and literature.
<b>S4— VARNNATMAK BHAHAVIDNYA N  Sem-V</b>	<b>CO-1</b>	Explain the nature, features and function of language.
	<b>CO-2</b>	Explain the need for language study.
	<b>CO-3</b>	Brief introduction to the branches and various methods of language study.
	<b>CO-4</b>	Understanding the structure of the senses and the process of self-creation.
	<b>CO-5</b>	To understand the science of self, self-thought and self-system of Marathi.
<b>Sem VI</b>	<b>CO-1</b>	To understand morphology and morphology of Marathi.
	<b>CO-2</b>	By introducing syntax and syntax in the context of Marathi language introducing the concept of semantics through linguistic organs.

<b>DEPARTMENT OF HINDI</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>F.Y.B.A. SEM-I (Hindi)</b>	<b>CO-1</b>	Understanding the interrelation between literature and society.
	<b>CO-2</b>	Explaining the nature of Language and Literature.
	<b>CO-3</b>	Obtaining the skills of literary criticism.
	<b>CO-4</b>	Imbuing the essay writing skills
	<b>CO-5</b>	Illustrating the nature of literary forms like one-act-play, travelogue and short-story.
<b>B.A. SEM-II (Hindi)</b>	<b>CO-1</b>	Introduction of medieval Hindi language and literature.
	<b>CO-2</b>	Introduction of the contemporary literary works
	<b>CO-3</b>	Acquiring the skill of translation.
	<b>CO-4</b>	Explanation of the need and significance of editing
<b>S.Y.B.A.(G2) SEM-III (Hindi) Poetry</b>	<b>CO-1</b>	Acquaintance with oriental poetry.
	<b>CO-2</b>	Understanding the nature and features of poetry.
	<b>CO-3</b>	Creating the skills of critical appreciation of poems.
	<b>CO-4</b>	Developing the poetic devices and their uses
<b>SEM-III (S1) Linguistics:</b>	<b>CO-1</b>	Getting acquainted with modern linguistics
	<b>CO-2</b>	Understanding origin, nature and function of language.
	<b>CO-3</b>	Enhancing the interest in Hindi Language

<b>SEM-III (S2) Medieval Hindi Literature:</b>	<b>CO-1</b>	Introduction of the historical survey of medieval Hindi literature
	<b>CO-2</b>	Introduction of the literary forms in medieval literature
	<b>CO-3</b>	Explanation of the trends and structure of medieval Hindi Literature.
<b>III Utility and Creativity of Hindi Language</b>	<b>CO-1</b>	Understanding the formal and informal language
	<b>CO-2</b>	Developing various language skills.
	<b>CO-3</b>	Getting motivation for creative writing.
	<b>CO-4</b>	Understanding the technique of mass communication
<b>TYBA HINDI (G3) Kathher Gadya Sahitya Sem-V</b>	<b>CO-1</b>	To make students aware of memoir literature.
	<b>CO-2</b>	To make students aware of Resvachitra literature
	<b>CO-3</b>	To develop students from the point of view of evaluation.
	<b>CO-4</b>	To develop the development of meeting chronicle writing skills.
	<b>CO-5</b>	Build dialogue-writing skills
<b>Sem-VI Ghazal literature</b>	<b>CO-1</b>	To make students aware of Ghazal literature.
	<b>CO-2</b>	To make the students aware of the personality of the Ghazalkar.
	<b>CO-3</b>	To develop the attitude of assessment to the students.
	<b>CO-4</b>	To make students aware of government letter writing.
<b>S4 Sem-V</b>	<b>CO-1</b>	Introducing the nature of linguistics.



<b>Bhasha Vigyan</b>	<b>CO-2</b>	To explain the scope of Linguistics to the students.
	<b>CO-3</b>	Introducing the directions of linguistics
	<b>CO-4</b>	To explain the application aspect of linguistics.
	<b>CO-5</b>	To explain the utility of linguistics in the study of literature
<b>Sem-VI Hindi Bhasha our Vikas</b>	<b>CO-1</b>	Introducing the nature of linguistics.
	<b>CO-2</b>	To explain the scope of Linguistics to the students.
	<b>CO-3</b>	Introducing the directions of study of linguistics.
	<b>CO-4</b>	Explaining the Application aspect of Linguistics.
	<b>CO-5</b>	To explain the utility of linguistics in the study of literature
<b>S3 Sem-V History of Hindi Literature</b>	<b>CO-1</b>	To acquaint the students with the background of modern times
	<b>CO-2</b>	To make students aware of the poetry of Bharattendu era
	<b>CO-3</b>	To get acquainted with the creators of the modern period.
	<b>CO-4</b>	To sensitize the students about the origin and development of Hindi poetry.
<b>Sem-VI History of Hindi Literature</b>	<b>CO-1</b>	Introduction to Hindi Literature Writing
	<b>CO-2</b>	To introduce the period division and nomenclature of Hindi literature.
	<b>CO-3</b>	To get acquainted with the compositions of the ancient, devotional, ritual, creators
<b>Chemistry</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>

<b>FY BSc</b>	<b>CO-1</b>	Students will be able to apply thermodynamic principles to physical and chemical process
	<b>CO-2</b>	Calculations of enthalpy , Bond energy, Bond dissociation energy , resonance energy
	<b>CO-3</b>	Variation of enthalpy with temperature –Kirchoff's equation
	<b>CO-4</b>	Third law of thermodynamic and its application
	<b>CO-5</b>	Relation between Free energy and equilibrium and factors affecting on equilibrium constant.
	<b>CO-1</b>	Exergonic and endergonic reaction
	<b>CO-2</b>	Gas equilibrium, equilibrium constant and molecular interpretation of equilibrium constant
	<b>CO-3</b>	Van't Haff equation and its application
	<b>CO-4</b>	Concept to ionization process occurred in acids, bases and pH scale
	<b>CO-5</b>	Related concepts such as Common ion effect hydrolysis constant, ionic product, solubility product
	<b>CO-1</b>	Degree of hydrolysis and pH for different salts , buffer solutions
	<b>CO-2</b>	After completing the course work learner will be acquired with knowledge of chemical energetics,
	<b>CO-3</b>	Chemical equilibrium and ionic equilibria.
<b>CH-102 Organic Chemistry</b>	<b>CO-1</b>	The students are expected to understand the fundamentals, principles, and recent developments in the subject area.
	<b>CO-2</b>	It is expected to inspire and boost interest of the students towards chemistry as the main subject.
	<b>CO-3</b>	To familiarize with current and recent developments in Chemistry.
	<b>CO-4</b>	To create foundation for research and development in Chemistry

	<b>CO-5</b>	Students will learn Fundamentals of organic chemistry, stereochemistry (Conformations, and nomenclatures) and functional group approach for aliphatic hydrocarbons
<b>CH-103 Chemistry Practicals Course –I</b>	<b>CO-1</b>	Importance of chemical safety and Lab safety while performing experiments in laboratory
	<b>CO-2</b>	Determination of thermochemical parameters and related concepts
	<b>CO-3</b>	Techniques of pH measurements
	<b>CO-4</b>	Preparation of buffer solutions
	<b>CO-5</b>	Elemental analysis of organic compounds (non instrumental)
	<b>CO-6</b>	Chromatographic Techniques for separation of constituents of mixtures
	<b>CO-7</b>	Students will learn quantum mechanical approach to atomic structure, Periodicity of elements, various theories for chemical bonding.
	<b>CO-8</b>	The practical course is in relevance to the theory courses to improve the Understanding of the concepts
	<b>CO-9</b>	It would help in development of practical skills of the students.
<b>CH-201 Inorganic Chemistry</b>	<b>CO-1</b>	Various theories and principles applied to reveal atomic structure
	<b>CO-2</b>	Origin of quantum mechanics and its need to understand structure of hydrogen atom
	<b>CO-3</b>	Schrodinger equation for hydrogen atom
	<b>CO-4</b>	Radial and angular part of hydrogenic wave functions
	<b>CO-5</b>	Significance of quantum numbers
	<b>CO-6</b>	Shapes of orbitals
	<b>CO-7</b>	Explain rules for filling electrons in various orbitals- Aufbau's principle, Pauli exclusion principle, Hund's rule of maximum multiplicity

	<b>CO-8</b>	Discuss electronic configuration of an atom and anomalous electronic configurations
	<b>CO-9</b>	Describe stability of half-filled and completely filled orbitals.
	<b>CO-10</b>	Discuss concept of exchange energy and relative energies of atomic orbitals
	<b>CO-11</b>	Design Skeleton of long form of periodic table.
	<b>CO-12</b>	Describe Block, group, modern periodic law and periodicity.
	<b>CO-13</b>	Classification of elements as main group, transition and inner transition elements
	<b>CO-14</b>	Write name, symbol, electronic configuration, trends and properties.
	<b>CO-15</b>	Explain periodicity in the following properties in details: a. Effective nuclear charge, shielding or screening effect; some numerical problems. b. Atomic and ionic size. c. Crystal and covalent radii d. Ionization energies e. Electronegativity- definition, trend, Pauling electronegativity scale. f. Oxidation state of elements
	<b>CO-16</b>	Attainment of stable electronic configurations.
	<b>CO-17</b>	Define various types of chemical bonds- Ionic, covalent, coordinate and metallic bond
	<b>CO-18</b>	Explain characteristics of ionic bond, types of ions, energy consideration in ionic bonding, lattice and solvation energy and their importance in the context of stability and solubility of ionic compounds
	<b>CO-19</b>	Summarize Born-Lande equation and Born-Haber cycle,

	<b>CO-20</b>	Define Fajan's rule, bond moment, dipole moment and percent ionic character.
	<b>CO-21</b>	Describe VB approach, Hybridization with example of linear, trigonal, square planer, tetrahedral, TBP, and octahedral.
	<b>CO-22</b>	Discuss assumption and need of VSEPR theory.
	<b>CO-23</b>	Interpret concept of different types of valence shell electron pairs and their contribution in bonding.
	<b>CO-24</b>	Application of non-bonded lone pairs in shape of molecule
	<b>CO-25</b>	Basic understanding of geometry and effect of lone pairs with examples such as ClF <sub>3</sub> , Cl <sub>2</sub> O, BrF <sub>5</sub> , XeO <sub>3</sub> and XeOF <sub>4</sub> .
	<b>CO-26</b>	Students will know about basics of analytical chemistry, some techniques of analysis and able to do calculations essential for analysis.
<b>CH-202 Analytical Chemistry</b>	<b>CO-1</b>	Analytical Chemistry –branch of chemistry
	<b>CO-2</b>	Perspectives of analytical Chemistry
	<b>CO-3</b>	analytical problems
	<b>CO-4</b>	Calculations of mole, molar concentrations and various units of concentrations which will be helpful for preparation of solution
	<b>CO-5</b>	Relation between molecular formula and empirical formula
	<b>CO-6</b>	Stoichiometric calculation
	<b>CO-7</b>	Define term mole, millimole, molar concentration, molar equilibrium concentration and Percen Concentration.
	<b>CO-8</b>	SI units, distinction between mass and weight

	<b>CO-8</b>	Units such as parts per million, parts per billion, parts per thousand, solution-dilutant volume ratio, function density and specific gravity of solutions Basics of type determination, characteristic tests and classifications, reactions of different functional groups.
	<b>CO-9</b>	Separation of binary mixtures and analysis
	<b>CO-10</b>	Elemental analysis -Detection of nitrogen, sulfur, halogen and phosphorous by Lassaigne's test
	<b>CO-11</b>	Purification techniques for organic compounds.
	<b>CO-12</b>	Basics of chromatography and types of chromatography
	<b>CO-13</b>	Theoretical background for Paper and Thin Layer Chromatography
	<b>CO-14</b>	pH meter and electrodes for pH measurement
	<b>CO-15</b>	Measurement of pH
	<b>CO-16</b>	Working of pH meter
	<b>CO-17</b>	Applications of pH meter
<b>CH- 203: Chemistry Practical –II</b>	<b>CO-1</b>	Inorganic Estimations using volumetric analysis
	<b>CO-2</b>	Synthesis of Inorganic compounds
	<b>CO-3</b>	Analysis of commercial products
	<b>CO-4</b>	Purification of organic compounds
	<b>CO-5</b>	Preparations and mechanism of reactions involved
	<b>CO-6</b>	The practical course is in relevance to the theory courses to improve the Understanding of the concepts.
	<b>CO-7</b>	It would help in development of practical skills of the students

	<b>CO-8</b>	Use of micro scale techniques wherever required
<b>SYBSc CH-301 Physical and Analytical Chemistry</b>	<b>CO-1</b>	Define / Explain concept of kinetics, terms used, rate laws, molecularity, order.
	<b>CO-2</b>	Explain factors affecting rate of reaction
	<b>CO-3</b>	Explain / discuss / derive integrated rate laws, characteristics, expression for half-life and examples of zero order, first order, and second order reactions.
	<b>CO-4</b>	Determination of order of reaction by integrated rate equation method, graphical method, half-life method and differential method
	<b>CO-5</b>	Explain / discuss the term energy of activation with the help of energy diagram.
	<b>CO-6</b>	Explanation for temperature coefficient and effect of temperature on rate constant k.
	<b>CO-7</b>	Derivation of Arrhenius equation and evaluation of energy of activation graphically
	<b>CO-8</b>	Derivations of collision theory and transition state theory of bimolecular reaction and comparison
	<b>CO-9</b>	Solve / discuss the problem based applying theory and equations.
	<b>CO-10</b>	Define / explain adsorption, classification of given processes into physical and chemical adsorption.
	<b>CO-11</b>	Discuss factors influencing adsorption, its characteristics, differentiates types as physisorption and Chemisorption
	<b>CO-12</b>	Classification of Adsorption Isotherms, to derive isotherms.
	<b>CO-13</b>	Explanation of adsorption results in the light of Langmuir adsorption isotherm, Freundlich's adsorption Isotherm and BET theory
	<b>CO-14</b>	Apply adsorption process to real life problem.
	<b>CO-15</b>	Solve / discuss problems using theory.
	<b>CO-16</b>	Define, explain and compare meaning of accuracy and precision

	<b>CO-17</b>	Apply the methods of expressing the errors in analysis from results
	<b>CO-18</b>	.Explain / discuss different terms related to errors in quantitative analysis.
	<b>CO-19</b>	Apply statistical methods to express his / her analytical results in laboratory
	<b>CO-20</b>	Solve problems applying equations
	<b>CO-21</b>	Explain / define different terms in volumetric analysis such as units of concentration, indicator, equivalence point, end point, standard solutions, primary and secondary standards, complexing agent, precipitating agent, oxidizing agent, reducing agent, redox indicators, acid base indicators, metallochrome indicators, etc.
	<b>CO-22</b>	Perform calculations involved in volumetric analysis
	<b>CO-23</b>	Explain why indicator show colour change and pH range of colour change.
	<b>CO-24</b>	To prepare standard solution and <b>b.</b> perform standardization of solutions.
	<b>CO-25</b>	To construct acid – base titration curves and performs choice of indicator for particular titration
	<b>CO-26</b>	. Explain / discuss acid-base titrations, complexometric titration / precipitation titration / redox titration.
	<b>CO-27</b>	Apply volumetric methods of analysis to real problem in analytical chemistry / industry
<b>CH-302 Inorganic and Organic Chemistry</b>	<b>CO-1</b>	Define terms related to molecular orbital theory (AO, MO, sigma bond, pi bond, bond order, magnetic property of molecules, etc).
	<b>CO-2</b>	. Explain and apply LCAO principle for the formation of MO's from AO's.
	<b>CO-3</b>	Explain formation of different types of MO's from AO's
	<b>CO-4</b>	Distinguish between atomic and molecular orbitals, bonding, anti-bonding and non-bonding molecular orbitals.
	<b>CO-5</b>	Draw and explain MO energy level diagrams for homo and hetero diatomic molecules. Explain bond order and magnetic property of molecule.



	<b>CO-6</b>	Apply MOT to explain bonding in diatomic molecules other than explained in syllabus
	<b>CO-7</b>	Define different terms related to the coordination chemistry (double salt, coordination compounds, coordinate bond, ligand, central metal ion, complex ion, coordination number, magnetic moment, crystal field stabilization energy, types of ligand, chelate effect, etc.)  To correlate reagent and reactions
	<b>CO-8</b>	Explain Werner's theory of coordination compounds. Differentiate between primary and secondary valency. Correlate coordination number and structure of complex ion.
	<b>CO-9</b>	Apply IUPAC nomenclature to coordination compound
	<b>CO-10</b>	.Identify and draw the structures aromatic hydrocarbons from their names or from structure name can be assigned.
	<b>CO-11</b>	. Explain / discuss synthesis of aromatic hydrocarbons.
	<b>CO-12</b>	Give the mechanism of reactions involved.
	<b>CO-13</b>	Explain /Discuss important reactions of aromatic hydrocarbon
	<b>CO-14</b>	Identify and draw the structures alkyl / aryl halides from their names or from structure name can be assigned.
	<b>CO-15</b>	Explain / discuss synthesis of alkyl / aryl halides
	<b>CO-16</b>	Write / discuss the mechanism of Nucleophilic Substitution (SN1, SN2 and SNi) reactions
	<b>CO-17</b>	Explain /Discuss important reactions of alkyl / aryl halides
	<b>CO-18</b>	To correlate reagent and reactions.
	<b>CO-19</b>	Give synthesis of expected alkyl / aryl halides.
	<b>CO-20</b>	Identify and draw the structures alcohols / phenols from their names or from structure name can be assigned.
	<b>CO-21</b>	Able to differentiate between alcohols and phenols

	<b>CO-22</b>	Explain / discuss synthesis of alcohols / phenols
	<b>CO-23</b>	Write / discuss the mechanism of various reactions involved
	<b>CO-24</b>	Explain /Discuss important reactions of alcohols / phenols
	<b>CO-25</b>	To correlate reagent and reactions of alcohols / phenols
	<b>CO-26</b>	Give synthesis of expected alcohols / phenols.
<b>CH-303 Practical Chemistry</b>	<b>CO-1</b>	.Verify theoretical principles experimentally.
	<b>CO-2</b>	Interpret the experimental data on the basis of theoretical principles
	<b>CO-3</b>	Correlate theory to experiments. Understand/verify theoretical principles by experiment observations; explain practical output / data with the help of theory.
	<b>CO-4</b>	Understand systematic methods of identification of substance by chemical methods.
	<b>CO-5</b>	Write balanced equation for the chemical reactions performed in the laboratory
	<b>CO-6</b>	Perform organic and inorganic synthesis and is able to follow the progress of the chemical reaction by suitable method (colour change, ppt. formation, TLC).
	<b>CO-7</b>	Set up the apparatus / prepare the solutions - properly for the designed experiments
	<b>CO-8</b>	Perform the quantitative chemical analysis of substances explain principles behind it
<b>CH-401 Physical and Analytical Chemistry</b>	<b>CO-4</b>	Systematic working skill in laboratory will be imparted in student.
	<b>CO-1</b>	Define the terms in phase equilibria such as- system, phase in system, components in system, degree of freedom, one / two component system, phase rule, etc.
	<b>CO-2</b>	Explain meaning and Types of equilibrium such as true or static, metastable and unstable equilibrium.

	<b>CO-3</b>	Discuss meaning of phase, component and degree of freedom.
	<b>CO-4</b>	Derive of phase rule
	<b>CO-5</b>	Explain of one component system with respect to: Description of the curve, Phase rule relationship and typical features for i) Water system ii) Carbon dioxide system iii) Sulphur system
	<b>CO-6</b>	Define various terms, laws, differentiate ideal and no-ideal solutions
	<b>CO-7</b>	Discuss / explain thermodynamic aspects of Ideal solutions-Gibbs free energy change, Volume change, Enthalpy change and entropy change of mixing of Ideal solution.
	<b>CO-8</b>	Differentiate between ideal and non-ideal solutions and can apply Raoult's law
	<b>CO-9</b>	Interpretation of i) vapour pressure–composition diagram ii) temperature-composition diagram.
	<b>CO-10</b>	Explain distillation of liquid solutions from temperature – composition diagram
<b>CH-402 Inorganic and Organic Chemistry</b>	<b>CO-1</b>	Isomerism in coordination complexes
	<b>CO-2</b>	Explain different types of isomerism in coordination complexes
	<b>CO-3</b>	Apply principles of VBT to explain bonding in coordination compound of different geometries.
	<b>CO-4</b>	Correlate no of unpaired electrons and orbitals used for bonding
	<b>CO-5</b>	Identify / explain / discuss inner and outer orbital complexes
	<b>CO-6</b>	Explain / discuss limitation of VBT.
	<b>CO-7</b>	Explain principle of CFT.
	<b>CO-8</b>	Apply crystal field theory to different type of complexes (Td, Oh, Sq. Pl complexes)
	<b>CO-9</b>	Calculate field stabilization energy and magnetic moment for various complexes.

	<b>CO-10</b>	To identify Td and Sq. PI complexes on the basis of magnetic properties / unpaired electrons
<b>CH-403 Practical Chemistry</b>	<b>CO-1</b>	Verify theoretical principles experimentally
	<b>CO-2</b>	Interpret the experimental data on the basis of theoretical principles
	<b>CO-3</b>	Correlate the theory to the experiments. Understand / verify theoretical principles by experiment or explain practical output with the help of theory.
	<b>CO-4</b>	Understand systematic methods of identification of substance by chemical methods
	<b>CO-5</b>	Write balanced equation for all the chemical reactions performed in the laboratory.
	<b>CO-1</b>	Perform organic and inorganic synthesis and able to follow the progress of the chemical reaction.
	<b>CO-2</b>	Set up the apparatus properly for the designed experiments.
	<b>CO-3</b>	Perform the quantitative chemical analysis of substances and able to explain principles behind it.
<b>TY BSc Physical Chemistry</b>	<b>CO-1</b>	Understand the role of computers in simulating chemical processes analyzing data.
	<b>CO-2</b>	Quantify the ideas (not overshadowed by mathematics) about the behavior of molecules and systems in order to be able to cope with experimental testing.
	<b>CO-3</b>	Distinguish the usefulness of mathematics in Physical Chemistry and to be inspired by the charm of their application.
	<b>CO-4</b>	Thinks and reflects in the language of science avoiding the simple memorization of knowledge.
<b>Inorganic Chemistry</b>	<b>CO-1</b>	Student can draw molecular orbital diagram,
	<b>CO-2</b>	Learn about basic concept of coordination chemistry, BMO, ABMO orbitals splitting of d orbitals ,

	<b>CO-3</b>	Know about crystalline structure,
	<b>CO-4</b>	Know about homogeneous and heterogeneous catalysis
<b>Organic Chemistry</b>	<b>CO-1</b>	Describe the synthesis of chemical reactions of polynuclear and hetroonuclear aromatic Hydrocarbons.
	<b>CO-2</b>	Meaning of active methylene group
	<b>CO-3</b>	Reactivity of methylene group,
	<b>CO-4</b>	Synthetic applications ethyl acetoacetate and malonic ester
	<b>CO-5</b>	To predict product with panning or supply the reagent/s for these reactions
	<b>CO-1</b>	From the IR spectrum, they will be able to find out IR frequencies of different functional groups. And thus, they will be able to find functional groups present in the compound.
	<b>CO-2</b>	Students will understand the principle of NMR spectroscopy and will understand various terms used in NMR spectroscopy. They will learn measurement of chemical shift and coupling constants.
<b>Analytical Chemistry</b>	<b>CO-1</b>	Upon completion of a degree
	<b>CO-2</b>	Acquire the Principles of Qualitative and Quantitative analysis w.r.t. Gravimetric , Thermal and Electrogravimetric analysis in detail
	<b>CO-3</b>	Principles of Quantitative Analysis ( Spectrophotometry - Colorimeter, spectrophotometer, AAS, FES and Polarography ) with instrumentation, role of each part, types of instruments and its applications
	<b>CO-4</b>	Principles of separation Techniques like solvent extraction
<b>Industrial Chemistry</b>	<b>CO-1</b>	Understanding of industrial processes and various chemical manufacturing processes of food , cement ,starch
	<b>CO-2</b>	,glass , polymer, sugar and fermentation, soap, detergents and cosmetics, dyes and paints, pharmaceutical industries.
	<b>CO-3</b>	Composition of petroleum, resources, processing of petroleum Fuels and eco-friendly fuels

	<b>CO-4</b>	Importance of chemical industry, Various insecticides, Various insecticides,
<b>Environmental Chemistry</b>	<b>CO-1</b>	Principles of green chemistry, Advantages of green chemistry, Methods of water purification, Waste water treatment process, Techniques used to monitor hazardous materials present in environment
<b>MSc I – CCTP-1: CHP-110 Physical Chemistry</b>	<b>CO-1</b>	Understand the role of computers in simulating chemical processes and analyzing data.
	<b>CO-2</b>	Quantify the ideas (not overshadowed by mathematics) about the behavior of molecules and systems in order to be able to cope with experimental testing
	<b>CO-3</b>	Distinguish the usefulness of mathematics in Physical Chemistry and to be inspired by the charm of their application.
	<b>CO-4</b>	Thinks and reflects in the language of science avoiding the simple memorization of knowledge
<b>CCTP-1: CHP-210 Physical Chemistry</b>	<b>CO-1</b>	To determine types of molecule on the basis of moment of inertia and rotational spectra.
	<b>CO-2</b>	To determine the vibrations of polyatomic molecule.
	<b>CO-3</b>	To determine quantum and classical theory of Raman effect, pure rotational Raman spectra
	<b>CO-4</b>	To determine electronic spectra of diatomic molecules
	<b>CO-5</b>	To determine Principle, Instrumentation and Applications of Mossbauer Spectroscopy
<b>CCTP-2: CHI-130, Inorganic Chemistry-I</b>	<b>CO-1</b>	Student should visualize/ imagine molecules in 3 dimensions.
	<b>CO-2</b>	To understand the concept of symmetry and able to pass various symmetry elements through the molecule.
	<b>CO-3</b>	Understand the concept and point group and apply it to molecules
	<b>CO-4</b>	To understand product of symmetry operations.
	<b>CO-5</b>	To apply the concept of point group for determining optical activity and dipole moment

	<b>CO-6</b>	.Student should understand the importance of Orthogonally Theorem.
	<b>CO-7</b>	They should able to learn the rules for constructing character table.
	<b>CO-8</b>	Using reduction formulae should be able to find out the possible type of hybridization
<b>CCTP-5: CHI-230, Inorganic Chemistry, Semester – II</b>	<b>CO-1</b>	Student should able to find out the no of microstates and meaningful term symbols, construction of microstate table for various configuration
	<b>CO-2</b>	Hund's rules for arranging the terms according to energy.
	<b>CO-3</b>	Student should understand interelectronic repulsion.
	<b>CO-4</b>	Student should know the concept of weak and strong ligand field.
	<b>CO-5</b>	Student able to find out splitting of the free ion terms in weak ligand field and strong ligand field.
	<b>CO-7</b>	To draw correlations diagram for various configurations in Td and Oh ligand field
	<b>CO-8</b>	Student should know basic instrumentation and selection rules and relaxation in rules
	<b>CO-9</b>	Student should know basic d-d transition, d-p mixing, charge transfer spectra.
<b>CCTP-3: CHO-150, Organic Chemistry-I, Semester – I</b>	<b>CO-1</b>	They will understand the criteria for aromaticity in nonbenzenoid molecules and other advanced polycyclic aromatics
	<b>CO-2</b>	Understand the chemistry of monocyclic heterocycles, nomenclature and reactions
	<b>CO-3</b>	Learn the concept stereochemistry and its importance; their rules and the concept of chirality
	<b>CO-4</b>	Understand the role of various reaction intermediates like carbocation, carbanion, carbenes, radicals, and nitrenes in organic reactions; concept of NGP
	<b>CO-5</b>	Able to describe mechanism of different rearrangement reactions. Appreciates the various steps involved in the molecular rearrangements.
	<b>CO-6</b>	Understand the chemistry of Ylides

	<b>CO-7</b>	Use synthetic reagent of oxidation and reduction for solving the problems
<b>CCTP-6:CHO – 250, Organic Chemistry-II, Semester–II</b>	<b>CO-1</b>	MOT and will be able to extend this in predicting reaction mechanism and stereochemistry of electrocyclic reactions.
	<b>CO-2</b>	The concepts in free radical reactions, mechanism and the stereo chemical outcomes.
	<b>CO-3</b>	The basic principle of spectroscopic methods and their applications in structure elucidation of organic compounds using given spectroscopic data or spectra.
<b>CBOP-1: CHG – 190, General Chemistry-I</b> <b>SECTION-I: Theory Course</b> <b>Elective Option-C: Introduction to Chemical Biology-I</b>	<b>CO-1</b>	1) Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.
	<b>CO-2</b>	Students will be able to function as a member of an interdisciplinary problem solving team
	<b>CO-3</b>	To impart the students thorough idea in the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc.
	<b>CO-4</b>	Be able to describe the chemical basis for replication, transcription, translation and how each of these central processes can be expanded to include new chemical matter
	<b>CO-5</b>	Develop skills to critically read the literature and effectively
<b>SECTION-II: Practical Course</b> <b>Elective Option-A: Inorganic Material Analysis, Synthesis and Applications</b>	<b>CO-1</b>	Determination of Silica and Manganese from pyrolusite ore
	<b>CO-2</b>	Determination of copper and iron from Chalcopyrite ore.
	<b>CO-3</b>	Synthesis of solid state materials / nano-materials.
	<b>CO-4</b>	Determination of tin and lead from solder alloy
	<b>CO-5</b>	Determination of iron and chromium from stainless steel alloy.



	<b>CO-6</b>	Removal and kinetics of photocatalytic dyes, degradation
<b>CBOP-2: CHG – 290, General Chemistry -II, SECTION-I: Theory Course</b>  <b>Elective Option– C: Introduction to Chemical Biology-II</b>	<b>CO-1</b>	Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.
	<b>CO-2</b>	Students will be able to function as a member of an interdisciplinary problem solving team.
	<b>CO-3</b>	To impart the students thorough idea in the chemistry of carbohydrates, amino acids, proteins and nucleic acids etc.
	<b>CO-4</b>	Be able to describe the chemical basis for replication, transcription, translation and how each of these central processes can be expanded to include new chemical matter.
	<b>CO-5</b>	Develop skills to critically read the literature and effectively communicate research in a peer setting.
	<b>CO-6</b>	Describe the importance of chemical biology research and interdisciplinary work
<b>SECTION-II: Practical Course</b>  <b>Elective Option-A: Electrochemical Methods of Analysis:</b>	<b>CO-1</b>	Hydrolysis of $\text{NH}_4\text{Cl}$ or $\text{CH}_3\text{COONa}$ or aniline hydrochloride
	<b>CO-2</b>	Hydrolysis of ethyl acetate by $\text{NaOH}$
	<b>CO-3</b>	Stability Constant of a complex ion
	<b>CO-4</b>	Estimation of halide in mixture
	<b>CO-5</b>	Determination of the acid and base dissociation constant of an amino acid and hence the isoelectric point of the acid.
	<b>CO-6</b>	Determination of dissociation constants of tribasic acid
<b>CCPP-1: CHP-107: Practical Course – I: Semester –I</b>	<b>CO-1</b>	Statistical treatment of experimental data.
	<b>CO-2</b>	Determination of an order of a reaction.
	<b>CO-3</b>	Kinetics of oxidation of ethanol.

	<b>CO-4</b>	Determination of molecular weight by steam distillation
	<b>CO-5</b>	Determination of the densities of a series of solutions and to calculate the molar volumes of the components.
<b>CCPP-2: CHP-227: Practical Course-II: Semester -II</b>	<b>CO-1</b>	This course is designed to make students aware of how to perform organic compounds in laboratory.
	<b>CO-2</b>	The course includes synthesis of some derivatives and organic compounds, which will help them while working in research laboratory in future.
	<b>CO-3</b>	Making derivatives of organic compounds will help them in industry or while doing research in medicinal chemistry for Drug development
	<b>CO-4</b>	This practical course is also designed to make student aware of green chemistry and role of green chemistry in pollution reduction.
	<b>CO-5</b>	The students learn how to avoid solvents and do solvent free reaction.
	<b>CO-1</b>	Also the work-up procedure in many experiments is made more eco-friendly to environment.
<b>MSc II Organic Reaction Mechanism and Biogenesis(CHO -350)</b>	<b>CO-1</b>	Understand the Mechanism of the reaction and application of the reaction.
	<b>CO-2</b>	To determine Kinetic and Non- Kinetic methods
	<b>CO-3</b>	To determine Free Radicals in Organic Synthesis.
	<b>CO-4</b>	To determine Synthesis of Biogenesis of Terpenoids.
	<b>CO-5</b>	To determine Hammett Equation, Substituent constants, Use of Hammett plots
<b>Structure Determination</b>	<b>CO-1</b>	To determine first and second order splitting.

<b>of Organic Compounds by Spectroscopic Compounds. (CHO-351)</b>	<b>CO-2</b>	To determine chiral NMR solvents in structure determination.
	<b>CO-3</b>	To determine fundamentals and applications in structure elucidation
	<b>CO-4</b>	2D NMR spectroscopy in structure elucidation
	<b>CO-5</b>	. To determine complex multiplicity patterns and coupling constants in asymmetric compounds
<b>Organic stereo Chemistry (CHO-352)</b>	<b>CO-1</b>	Logical reasoning as well as thinking should be enhanced in students
	<b>CO-2</b>	Students should be able to find out reaction products of organic reactions with proper stereo chemistry.
	<b>CO-3</b>	Students should be able to understand the proper stereochemistry of cyclic compounds.
<b>CBOP-3, Designing Organic Synthesis and Heterocyclic chemistry reaction(CHO-353(B))</b>	<b>CO-1</b>	To determine retrosynthetic analysis.
	<b>CO-2</b>	To determine interconversion of two groups
	<b>CO-3</b>	To determine C-C disconnection in heteroatom and heterocyclic compounds
<b>CCTP-10, Chemistry of Natural Products reaction(CH O-450)</b>	<b>CO-1</b>	Understanding and planning of total synthesis while maintaining the stereochemistry.
<b>CBOP-4 , Concepts and Applications of Medicinal Chemistry(CH O-452 -A)</b>	<b>CO-1</b>	To determine proteins as biological catalysts.
	<b>CO-2</b>	To determine chemistry of diseases and drug development.
	<b>CO-3</b>	To determine Pharmacokinetics and Pharmacodynamics of drug.

	<b>CO-4</b>	Ternary Mixture Separation.
	<b>CO-5</b>	Carbohydrates synthesis and isolation of Natural Products.
<b>CBOP-5 , Practical –III Chemistry(CH O-453 )</b>	<b>CO-1</b>	Convergent Synthesis
	<b>CO-2</b>	Divergent Synthesis
<b>Zoology</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Title</b>
<b>F.Y.B.Sc. and S.Y.B.Sc. Paper I</b>	<b>CO-1</b>	This course will provide students with an opportunity to gain information regarding animal classification and systematic, animal structure and function relationships, evolution between and within major animal groups, animal reproduction and development, animal diversity and animal ecology.
	<b>CO-2</b>	The General Zoology course is designed to introduce students to the study of zoology at the organismal and organ function levels
	<b>CO-3</b>	The general zoology course provides the student with an introduction to the recent advances in zoology in the areas of systematic, evolution, reproduction, development
	<b>CO-4</b>	At the end of the semester, the students are expected to have
	<b>CO-5</b>	Understand the interrelationship of all life forms through the knowledge of common life processes
<b>F.Y.B.Sc. and S.Y.B.Sc. Paper II</b>	<b>CO-1</b>	Applied zoology, cell biology and Genetics courses provide offer a broad, relevant and contemporary curriculum.
	<b>CO-2</b>	The lecture section of the course will review the general principles of modern and applied zoological theory
	<b>CO-3</b>	The courses encourage in students an enthusiasm for biological sciences in general for whole animal science and conservation of the natural environment in particular.
	<b>CO-4</b>	It develops an understanding of the ethical, economic, legal and political context of keeping captive animals, animal behavior, ecology and conservation.
	<b>CO-5</b>	It produces graduates with the ability to apply concepts from Zoology and communicate ideas effectively in a range of contexts and communication modes.

<b>F.Y.B.Sc. and S.Y.B.Sc. Paper III</b>	<b>CO-1</b>	The practical courses provide opportunities for practical work practical skills in laboratory-based and field zoology and experiential learning in aspects of Applied Zoology.
	<b>CO-2</b>	The specific learning goals for General Zoology are to provide students with a working knowledge of fundamental principles in zoology that will provide a foundation for their later advanced course work in more specific biological subjects.
	<b>CO-3</b>	As General Zoology is a basic course, students will become familiar with animal classification schemes and associated taxonomic group diagnostic characteristics as well as developing an understanding of and ability to apply basic zoological principles.
	<b>CO-4</b>	The laboratory and lecture sections of the course are highly integrated and directed toward teaching students the principles of animal evolution, classification, form and function.
	<b>CO-5</b>	It promotes students' ability to critically think about, assess and evaluate data gathered both in the field and through scientific literature.
<b><u>BOTANY</u></b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>FIRST YEAR Plant life and utilization I (BO111)</b>	<b>CO-1</b>	Students understand the diversity of lower plant and their distinct features.
	<b>CO-2</b>	Understand the algal diversity and its industrial application
	<b>CO-3</b>	knows about distinct classes of Lichen and their utilization
	<b>CO-4</b>	Understand the Fungal diversity and their application in various industries. Also know how to
	<b>CO-5</b>	Cultivate the mushroom and their values.
<b>Plant morphology and Anatomy (BO112)</b>	<b>CO-1</b>	Understand the importance of plant morphology in allied branches of botany
	<b>CO-2</b>	Students get an idea about various floral whorl and its importance in plant reproduction
	<b>CO-3</b>	Students study the role of anatomy in other allied branches of botany
	<b>CO-4</b>	Student know about the different tissues present in plant their structure and role.

	<b>CO-5</b>	understand the differences in internal organization of two distinct plant group and plant parts
<b>Plant life and utilization II (BO121)</b>	<b>CO-1</b>	Students understand the differences in higher plant structure
	<b>CO-2</b>	Knows the different characters in Pteridophytes and their uses
	<b>CO-3</b>	Know the distinct features of gymnosperm, structure of Cycas and their economic potential
	<b>CO-4</b>	Understand the morphological differences in dicot and monocot and their classification
	<b>CO-5</b>	Knows the value of angiosperm in various industries such as food, fodder and fibre
<b>Principles of Plant Science (BO122)</b>	<b>CO-1</b>	Understanding the scope and importance of plant physiology.
	<b>CO-2</b>	Demonstrate processes imbibition, Osmosis, Diffusion and Plasmolysis
	<b>CO-3</b>	Describe Plant growth regulators and their types.
	<b>CO-4</b>	Discuss the structure of plant cell and Plasma membrane and cell cycle in plants
	<b>CO-5</b>	Explain the scope and importance of molecular biology.
	<b>CO-6</b>	Describe the structure of DNA, Packing of DNA and types of DNA, RNA.
	<b>CO-6</b>	Explain the DNA replication process, enzymes involved in that process.
<b>SEM I Course Paper I: Taxonomy of Angiosperm and Plant Community (BO – 211)</b>	<b>CO-1</b>	Students will learn the application of morphology in plant identification, classification and nomenclature
	<b>CO-2</b>	Students learn Plant collection, preservation techniques and can identify plant in field.
	<b>CO-3</b>	Students get aware about various recent computerized tools used in plant research
	<b>CO-4</b>	Students will know how the vegetation pattern change in different ecosystem
	<b>CO-5</b>	Students will learn the techniques of vegetation studies and its application

<b>Course Paper II Plant Physiology</b>	<b>CO-1</b>	Define the terminologies: Plant water relations, Growth, Transpiration, Ascent of Sap, Plant
	<b>CO-2</b>	Growth regulators and Nitrogen metabolism.
	<b>CO-3</b>	Explain processes of mineral nutrition, absorption of water, ascent of sap, mechanisms of water
	<b>CO-4</b>	Describe Plant growth regulators and their types and Discuss nitrogen metabolism in plants
	<b>CO-5</b>	Demonstrate processes imbibition, Osmosis, Diffusion and Plasmolysis, measure growth by arc
<b>SEM II Course Paper I: Plant Anatomy, Embryology and Palynology (BO 213)</b>	<b>CO-1</b>	Define terms related to plant Anatomy, Embryology.
	<b>CO-2</b>	Describe various tissue systems in plants like epidermal, mechanical and vascular.
	<b>CO-3</b>	Interpret the Principles involved in distribution of mechanical tissues.
	<b>CO-4</b>	Explain the process of normal and abnormal secondary growth in plants.
	<b>CO-5</b>	Differentiate between normal and abnormal secondary growth
<b>Course Paper II: Plant Biotechnology (BO 213)</b>	<b>CO-1</b>	Define the terminologies related to plant biotechnology.
	<b>CO-2</b>	Describe the fermentation process.
	<b>CO-3</b>	Explain enzyme technology and their industrial scale production.
	<b>CO-4</b>	Interpret the production of Single cell proteins.
	<b>CO-5</b>	Illustrate the concept of phytoremediation.
<b>PHYSICS</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcome</b>
<b>FIRSTYEAR TERM I-</b>	<b>CO-1</b>	Demonstrate an understanding of Newton's laws and applying them in calculations of the motion of simple systems.

<b>Mechanics</b>	<b>CO-2</b>	Use the free body diagrams to analyze the forces on the object.
	<b>CO-3</b>	Understand the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them.
	<b>CO-4</b>	Understand the concepts of elasticity and be able to perform calculations using them.
	<b>CO-5</b>	Understand the concepts of surface tension and viscosity and be able to perform calculations using them.
<b>Physics Principles and applications</b>	<b>CO-1</b>	To demonstrate an understanding of electromagnetic waves and its spectrum.
	<b>CO-2</b>	
	<b>CO-3</b>	To understand the general structure of atom, spectrum of hydrogen atom.
	<b>CO-4</b>	To understand the atomic excitation and LASER principles.
<b>Heat and Thermodynamics</b>	<b>CO-1</b>	Describe the properties of and relationships between the thermodynamic properties of a pure substance.
	<b>CO-2</b>	Describe the ideal gas equation and its limitations.
	<b>CO-3</b>	Describe the real gas equation.
	<b>CO-4</b>	Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process.
	<b>CO-5</b>	Analyze the heat engines and calculate thermal efficiency.
<b>Electromagnetism</b>	<b>CO-1</b>	Demonstrate an understanding of the electric force, field and potential, and related concepts, for stationary charges.
	<b>CO-2</b>	Calculate electrostatic field and potential of simple charge distributions using Coulomb's law and Gauss's law.
	<b>CO-3</b>	Demonstrate an understanding of the dielectric and effect on dielectric due to electric field.
	<b>CO-4</b>	Demonstrate an understanding of the magnetic field for steady currents using Biot-Savart and Ampere's laws.
	<b>CO-5</b>	Demonstrate an understanding of magnetization of materials.



<b>F Y BSc Physics Practical</b>	<b>CO-1</b>	Acquire technical and manipulative skills in using laboratory equipment, tools, and materials.
	<b>CO-2</b>	Demonstrate an ability to collect data through observation and/or experimentation and interpreting data.
	<b>CO-3</b>	Demonstrate an understanding of laboratory procedures including safety, and scientific methods.
	<b>CO-4</b>	Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena.
<b>SECOND YEAR Mathematical Methods in Physics</b>	<b>CO-1</b>	Understand the complex algebra useful in physics courses
	<b>CO-2</b>	Understand the concept of partial differentiation.
	<b>CO-3</b>	Understand the role of partial differential equations in physics
	<b>CO-4</b>	Understand vector algebra useful in mathematics and physics
	<b>CO-5</b>	Understand the singular points of differential equation.
<b>Electronics</b>	<b>CO-1</b>	Understand the relations in electricity
	<b>CO-2</b>	Understand the properties and working of transistors.
	<b>CO-3</b>	Understand the functions of operational amplifiers.
	<b>CO-4</b>	Design circuits using transistors and operational amplifiers.
	<b>CO-5</b>	Understand the relations in electricity
<b>Oscillation, waves and sound</b>	<b>CO-1</b>	Understand the physics and mathematics of oscillations.
	<b>CO-2</b>	Solve the equations of motion for simple harmonic, damped, and forced oscillators.
	<b>CO-3</b>	Formulate these equations and understand their physical content in a variety of applications,

	<b>CO-4</b>	Describe oscillatory motion with graphs and equations, and use these descriptions to solve problems of oscillatory motion.
	<b>CO-5</b>	Explain oscillation in terms of energy exchange, giving various examples.
	<b>CO-6</b>	Solve problems relating to Undamped, damped and force oscillators and superposition of oscillations
<b>Optics</b>	<b>CO-1</b>	Acquire the basic concepts of wave optics
	<b>CO-2</b>	describe how light can constructively and destructively interfere
	<b>CO-3</b>	explain why a light beam spreads out after passing through an aperture
	<b>CO-4</b>	Summarize the polarization characteristics of electromagnetic waves
	<b>CO-5</b>	appreciate the operation of many modern optical devices that utilize wave optics
<b>S Y B Sc. Physics Practical</b>	<b>CO-1</b>	After completing this practical course students will be able to
	<b>CO-2</b>	Use various instruments and equipment.
	<b>CO-3</b>	Design experiments to test a hypothesis and/or determine the value of an unknown quantity.
	<b>CO-4</b>	Investigate the theoretical background to an experiment.
	<b>CO-5</b>	Set up experimental equipment to implement an experimental approach.
<b>Department of Mathematics</b>		
<b>Department of Mathematics</b>	<b>CO-1</b>	The mathematical maturity of students in their current and future courses shall develop.
	<b>CO-2</b>	The student develops theoretical, applied and computational skills.
	<b>CO-3</b>	The student gains confidence in proving theorems and solving problems.
		To study Plant Meristem, characters and types based on origin, position and plane of division, functions.

		To understand structure and function of of epidermal, vascular tissue system
		To understand structure and function of simple and compound plant tissue
<b>Department of Political Science</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>FYBA Introduction to Indian Constitution</b>	<b>CO-1</b>	Students realized the significance of constitution of India from all walks of life and helped them to understand the basic concepts of Indian constitution.
	<b>CO-2</b>	Students identified the importance of fundamental rights, Directive Principles of State Policy as well as fundamental duties.
	<b>CO-3</b>	Students understood the functioning of Union and State Governments in Indian federal system.
	<b>CO-4s</b>	Students learned procedure and effects of constitutional amendments, composition and activities of election commission.
<b>SYBA Introduction to Political Science</b>	<b>CO-1</b>	Students enabled to understand the nature and scope of political science.
	<b>CO-2</b>	Students enabled to understand the significance of approaches to the study of political science.
	<b>CO-3</b>	Students enabled to acquaint with the theories, approaches, concepts and values of political science.
<b>TYBA Local Self Government in Maharashtra</b>	<b>CO-1</b>	Students understood the evolution of Local Self Government in Maharashtra.
	<b>CO-2</b>	Students understood the significance of 73 <sup>rd</sup> and 74 <sup>th</sup> Constitutional Amendments.
	<b>CO-3</b>	Students understood the functioning of Local Self Government.
	<b>CO-4</b>	Students learned composition, power and functions of local bodies.
<b>Department of History</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>History of the</b>	<b>CO-1</b>	Student will develop the ability to analyse sources for Maratha History.

<b>Marathas: (1630-1707)</b>	<b>CO-2</b>	Student will learn significance of regional history and political foundation of the region.
	<b>CO-3</b>	It will enhance their perception of 17th century Maharashtra and India in context of Maratha history.
<b>Medieval India - Sultanate Period</b>	<b>CO-1</b>	Provides examples of sources used to study various periods in history.
	<b>CO-2</b>	Relates key historical developments during medieval period occurring in one place with another.
	<b>CO-3</b>	Analyses socio - political and economic changes during medieval period 4. Estimate the foreign invasion and the achievement of rulers.
<b>Glimpses of the Modern World - Part I</b>	<b>CO-1</b>	It will enable students to develop the overall understanding of the Modern World.
	<b>CO-2</b>	The students will get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World.
	<b>CO-3</b>	It will enhance their perception of the history of the Modern World.
	<b>CO-4</b>	It will enable students to understand the significance of the intellectual, economic, political developments in the Modern World.
<b>Skill Enhancement Courses (SEC) Art and Architecture in Early India.</b>	<b>CO-1</b>	Students will get an overall understanding of the emergence and development of the art and architecture in Early India.
	<b>CO-2</b>	They will understand the emergence of the Pottery, Terracotta figures, Ornaments, Town Planning, preparation of seals and coins.
	<b>CO-3</b>	They will have an understanding of the art and architecture in early India.
<b>TYBA Indian National Movement (1885-1947)</b>	<b>CO-1</b>	It will enable students to develop an overall understanding of Modern India.
	<b>CO-2</b>	It will increase the spirit of healthy Nationalism, Democratic Values and Secularism among the Students.
	<b>CO-3</b>	Students will understand various aspects of the Indian
	<b>CO-4</b>	Independence Movement and the creation of Modern India.
<b>Introduction to</b>	<b>CO-1</b>	Students will be introduced to the information and importance of Historiography.

<b>Historiography</b>	<b>CO-2</b>	Students will be introduced to the different Methods and Tools of data collection.
	<b>CO-3</b>	3. Students can study the interdisciplinary approach of History
<b>Maharashtra in the 19th Century</b>	<b>CO-1</b>	Student will develop the ability to analyse sources for 19th century Maharashtra History.
	<b>CO-2</b>	Student will learn significance of Regional History and Socio- religious reformism foundation of the region.
	<b>CO-3</b>	It will enhance their perception of 19th Century Maharashtra.
	<b>CO-4S</b>	Appreciate the skills of leadership and the Socio-religious System of the Maharashtra.
<b>Department of English</b>		
<b>Course Title</b>	<b>Code</b>	<b>Course Outcomes</b>
<b>11001, 12001 Compulsory English FYBA</b>	<b>CO-1</b>	Recall parts of speech.
	<b>CO-2</b>	Identify various types of vocabulary. CO3: Recognize the themes of each lesson. CO4: Recite lines from poems.
	<b>CO-3</b>	Summarize and analyze a poem.
	<b>CO-4</b>	Describe various characters of a short story.
	<b>CO-5</b>	Apply the knowledge of language in day-to-day conversation
	<b>CO-6</b>	Describe various characters of a short story.
	<b>CO-7</b>	Apply the knowledge of language in day-to-day conversation
<b>23001, 24001 Compulsory English SYBA</b>	<b>CO-1</b>	Define various types of sentences and write different types of paragraphs
	<b>CO-2</b>	Describe and give examples of different types of characters, situations, and values of life.
	<b>CO-3</b>	Summarize prose and poetic pieces for better comprehension.

	<b>CO-4</b>	Demonstrate competence in usage of language in day to day life.
	<b>CO-5</b>	Classify and transform different types of sentences and apply vocabulary in communication
	<b>CO-6</b>	Relate to real life situations.
<b>35001, 36001 Compulsory English TYBA</b>	<b>CO-1</b>	Define communicative use of language in Indian Context.
	<b>CO-2</b>	Use different types of sentences, and change one type into the other.CO3: Think about the cross cutting issues around us.
	<b>CO-3</b>	Define verbal and non-verbal communication.
	<b>CO-4</b>	Understand the importance of life-skills and soft skills.
	<b>CO-5</b>	Give examples of selected diction of specific writer or poet.CO7: Use literary language with reference to Indian English
	<b>CO-6</b>	Compose and draft letters and essays and reports.
	<b>CO-7</b>	Define communicative use of language in Indian Context.
	<b>CO-8</b>	Use different types of sentences, and change one type into the other.CO3: Think about the cross cutting issues around us.