



Shri Shivaji Education Society Amravati's

Shri Shivaji Arts, Commerce and Science College,

Motala, Dist. Buldhana



President

Hon'ble Harshwardhan P. Deshmukh

Principal

Dr. Gajanan N. Jadhao

COURSE OUTCOMES (COs)

FACULTY OF ARTS/HUMANITIES/ SOCIAL SCIENCES

COURSE OUTCOMES OF B. A. PROGRAMMES [UG Level]

Marathi Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BA-MAR-SEM-1 to 6	B. A. Sem. I,II,III,IV,V & VI Compulsory Marathi	CO-1: Understand the great human values in the society.
		CO-2: Inculcate global mindset through the study of Language.
		CO-3: Get the inspiration about entrepreneurship.
		CO-4: Make the Great Approach about social solidarity and cultural solidarity in the changeable social environment.
		CO-5: Understand Scientific Temper in the society.
		CO-6: Develop social awareness and Social responsibility.
		CO-7: Know professional interest and moral values through the study of Language.
		CO-8: Recognize about gender equality.
		CO-9: Know the literary journey of Marathi Language.
		CO-10: Know the concepts of Gandhism, Marksism, Ambedkarism.
		CO-11: Understand the importance of interrelationship between Society and Literature.
		CO-12: Develop ethical thinking.
		CO-13 : Develop knowledge based society of the students
UG-BA-MARL-SEM-1 to 6	B. A. Sem. I,II,III,IV,V & VI Marathi Literature	CO-1: Develop the knowledge about Literature among the students through establishment of MLT Association (Marathi Literary Association).

		CO-2: Develop 'Communal Harmony' among the students through the study of literature.
		CO-3: Develop Acting skill and language skill among the students
		CO-4: Develop personality of the students giving opportunities to them for presentation on the dais.
		CO-5: Develop interest in the study of Marathi Literature
		CO-6: Introduce the various trends in Poetry of Marathi Literature
		CO-7: Know the necessity and importance of Literature for healthy human life.
		CO-8: Introduce the various trends in Literature.
		CO-9: Integrates Vocabulary and knowledge of language among the students.
		CO-10: Introduce social and cultural study of poems in Modern Age
		CO-11: Inculcate social, National, Moral values among the students.
		CO-12: Realize the social bind among the students.
		CO-13: Introduce various types of poem and the Poets in that typical (Prescribed) period
		CO-14: Introduce the History of Drama.
		CO-15: Introduce the process of how to make the words.
		CO-16: Know the purpose of Literature.
UG-BCom-MAR-SEM-1 & 2	B. Com Sem. I to Sem. II Compulsory Marathi	CO-1: Understand the great human values in the society.
		CO-2: Inculcate global mindset through the study of Language.
		CO-3: Get the inspiration about entrepreneurship
		CO-4: Make the Great Approach about social solidarity and cultural solidarity in the changeable social environment.
		CO-5: Understand Scientific Temper in the society.
		CO-6: Understand official Letter writing and process of translation.
		CO-7: Understand the Great Personalities with the study of Language
		CO-8: Understand how to make Professional Advertisement through the study of Upyogit Marathi.
		CO-9: Develop the skill of applying concepts and techniques for job..
		CO-10: Introduce the Great Personalities.
		CO-11: Know how to live happy life with defeating the social problems
UG-BSc-MAR-SEM-1 & 2	B. Sc. Sem. I to Sem. II Compulsory Marathi	CO-1: Inculcate value of equality and tolerance among the students.
		CO-2: Learn Human Values in the life.
		CO-3: Introduce the social work done by the Great Personalities and Social Reformers.
		CO-4: Inculcate new thought and new concept about life and society.
		CO-5: Get information about Marathi Language in daily routine.
		CO-6: Make capable for Letter writing at professional level.
		CO-7: Make capable for How to write any information for social Media.
		CO-8: Develop scientific temper among the students.
		CO-9: Inculcate Liberal ideology
		CO-10: Know awareness about Rational thinking.
		CO-11: Develop Vocabulary and Language Skill
		CO-12: Develop aesthetic sense among the students.

		CO-13: Enrich human life through the study of Language.
		CO-14: Know various stages of development of language.

English Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BA/UG-B. Com/UG-B. Sc.1- ENG-SEM-1 to UG- BA/UG-B. Com/UG-B. Sc.1- ENG-SEM-6	Compulsory English	CO-1: learn analysis of the text from prose passages for understanding the contents
		CO-2: Prose passages will help improve reading and writing skills
		CO-3: They will develop imaginative thinking by reading and reciting poetry
		CO-4: Language activities will promote effective use of language in day to day life and enhance professional skills
		CO-5: The course content will enable rational thinking along with learning life skills.
		CO-6: learn professional ethics.
		CO-7: learn environmental consciousness. Developing sensitivity regarding gender equality.
UG-BA1-ENGL- SEM-1 to UG-BA1- ENGL-SEM-6	English Literature	CO-1: Analyze various forms of literature.
		CO-2: Acquaint them with the forms of structures and aesthetics of style and techniques of literary works
		CO-3: Analyze various elements of literature.
		CO-4: Communicate in English orally and in writing
		CO-5: Kindle critical thinking skills.

Economics Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BA1-ECO- SEM-1	B. A. Sem. I Micro Economics	CO-1: Understand fundamental concepts of economics i.e. Micro and Macro
		CO-2: Economics, definitions of Economics etc.
		CO-3: Understand economic demand and supply theories.
		CO-4: Understand Cost and Revenue Analysis
		CO-5: Know role of market in real life
		CO-6: Learn about various factors of Production.
UG-BA1-ECO- SEM-2		CO-1: Understand Geographical and Economical Features of Maharashtra
		CO-1: Understand Agriculture in Maharashtra state.

	B. A. Sem. II Economy of Maharashtra	CO-2: Understand Industry and Infrastructure in Maharashtra CO-3: Know role of Small scale and Agro-based industries in Maharashtra state CO-4: Understand Economy of Vidarbha region. CO-5: Learn about resources of Vidarbha region.
UG-BA2-ECO-SEM-3	B. A. Sem. III Macro Economics	CO-1: be able to understand macro economic analysis. CO-2: be able to understand of national income. CO-3: Able to understand classical & Keynesian theories of output and employment. CO-4: Able to understand consumption & Investment function. CO-5: be able to understand Quantity theory of money CO-6: be able to understand various macroeconomic policy & Problems.
UG-BA2-ECO-SEM-4	B. A. Sem. IV Banking	CO-1: be able to understand Meaning And Types Of Bank. CO-2: be able to understand money & banking. CO-3: be able to understand RBI Bank system in India. CO-4: be able to understand working & operation of RBI. CO-5: be able to understand nature, scope & importance of monetary policy. CO-6: be able to understand commercial banking system in India. CO-7: be able to understand cooperative and rural banking in India. CO-8: be able to understand None banking financial institutions & financial services in India. CO-9: be able to understand IBRD, IMF& WTO. CO-10: be able to Knowledge of ATM, Debit Card, E-Marketing, Cashless Transaction Mobile Banking, E-Wallets, and Core Banking RTGS &NEFT.
UG-BA3-ECO-SEM-5	B. A. Sem. V Indian Economy	CO-1: be able to understand Basic Feature of Indian Economy. CO-2: be able to understand Planning (Objective of 11th & 12th Five year Plan) .. CO-3: be able to understand Economics of Agricultural in India. CO-4: be able to understand Industrial in India. CO-5: be able to understand Environment and Pollution
UG-BA3-ECO-SEM-6	B. A. Sem. VI Economics	CO-1: be able to understand meaning and scope of Demography. CO-2: be able to understand Fertility and Mortality in India. CO-3: be able to understand Migration of Population. CO-4: be able to understand Effects of Migration on Population. CO-5: be able to understand Urbanization of Population. CO-6: be able to understand Population and Development.

Political Science Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BA1-POL-SEM-1	B. A. Sem. I Indian Constitutional	CO-1: Salient features of the Indian Constitution, Nature and importance of Preamble, Fundamental Rights of Citizens.

	Provisions and Local Self Government	CO-2: Directive Principles of State Policy, Fundamental Duties of Indian Citizens and Laws about Citizenship. CO-3: Election Procedure of President of India and his Rights, Role and Rights of Vice-President, Rights and Role of Prime Minister of India. CO- 4: Parliament: Structure and Powers of Lok Sabha and Raj Sabha CO- 5: Indian Judiciary- Structure and jurisdiction of Supreme Court and High Court.
UG-BA1-POL-SEM-2	B. A. Sem. II	CO -1: Election Commission of India- Its structure, powers and function and importance. CO-2: Rights, Role and Position of Governor, Chief Minister and Council of Ministers CO-3: State Legislature- Structure and Powers of State Assembly and Council of States. CO-4: Local Self Government of Maharashtra-Municipal Corporation, Nagar Palika & Gram Panchayat. CO-5: Political Participation of women in Panchayat Raj, Nagpur Pact and Right to Information Act.
UG-BA2-POL-SEM-3	B. A. Sem. III Comparative Government and Politics.	CO-1: Salient features of Constitution of United Kingdom, Historical background of King and Crown, Rights of King, Role and Rights of British Prime Minister. CO-2: Parliamentary System of U.K., Structure & Powers of House of Lords and House of Commons, Role of Opposition Party. CO-3: Salient features of United States Constitution, President of U.S.A. - Election Process and his Rights, Council of Ministers, Vice-President – Election Process and his Rights. CO-4: Legislature of U.S.A. - Structure and Powers of Senate and House of Representative, Supreme Court- Structure and Jurisdiction. CO-5: South Asian Association for Regional Co-operation (SAARC)- Structure, Objectives and Functions.
UG-BA2-POL-SEM-4	B. A. Sem. IV	CO-1: Salient features of China's Constitution, Structure & Powers of National People's Congress, and Structure & Powers of Standing Committee. CO-2: President of China – Appointment, Role & Powers, Structure & Powers of State Council of China, Role of Communist Party of China. CO-3 : Historical Background of United Nations, Charter, Objectives of United Nations, Elements of United Nations & their functions. CO-4 : Security Council- Composition & Functions, Secretary General Appointments & Functions CO-5: India & China Relations- Tibet Dispute, China's Role about India in
UG-BA3-POL-SEM-5		CO-1: Aristotle's Concept of State, Mahatma Gandhi's Concept of Ramrajya

	B. A. Sem. V Modern Concepts and Policy in Politics	CO-2: Concept of Democracy of Walter Bagehot, Abraham Lincoln's Concept of Democracy, and Dr. B.R. Ambedkar's thought on Parliamentary Democracy.
		CO-3: Machiavelli's Concept of Nationalism, Swami Vivekanda's Concept of Nationalism.
		CO-4: Karl Marx's Concept of Socialism, Pandit Jawaharlal Nehru's Concept of Socialism, Concept of Socialism of Ram Manohar Lohiya.
		CO-5: Concept of Behaviouralism of David Eston, Concept of Post Behaviouralism of Gabriel Almond, John Austin's Concept of Sovereignty.
UG-BA3-POL-SEM-6	B. A. Sem. VI	CO-1: Aristotle's Concept of State, Mahatma Gandhi's Concept of Ramrajya.
		CO-2: Concept of Democracy of Walter Bagehot, Abraham Lincoln's Concept of Democracy, and Dr. B.R. Ambedkar's thought on Parliamentary Democracy.
		CO-3: Machiavelli's Concept of Nationalism, Swami Vivekanda's Concept of Nationalism.
		CO-4: Karl Marx's Concept of Socialism, Pandit Jawaharlal Nehru's Concept of Socialism, Concept of Socialism of Ram Manohar Lohiya.
		CO-5: Concept of Behaviouralism of David Eston, Concept of Post Behaviouralism of Gabriel Almond, John Austin's Concept of Sovereignty.

History Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BA1-HIS-SEM-1	B. A. Sem. I History of India (From B.C. to 1205A.D.)	CO-1: Understand the Political, Social, Economic, Religious status & changes in the Ancient Period. E.g. Harappa civilization, Vedic, Mouryan, Gupta, Vakataka, Vardhan dynasty.
		CO-2: Understand the origin and tents of Jainism & Buddhism.
		CO-3: Understand the administration, Literature, Art & architecture, Science & technology in Gupta, Mourya, Vakataka dynasty.
		CO-4: Understand the education, religious, economic system & status of women, culture in Ancient India.
UG-BA1-HIS-SEM-2	B. A. Sem. II History of India (From 1206 to 1525 A.D.)	CO-1: Understand the Delhi Sultanate.
		CO-2: Understand the administration system , reforms in agriculture, economy policy in Sultanate Period
		CO-3: Understand the education, religion, economic system & status of women, culture in Sultanate Period.

UG-BA2-HIS-SEM-3	B. A. Sem. III History of India (From 1526-1756 A.D.)	CO1: Understand Mughal rule Administration, art and architecture.
		CO-2: Understand the Causes of rise of Emergence Power of Maratha and The Maratha war of Independence.
		CO-3: Understand Political, Fiscal, Judicial Administration, Religious policy, Military System Under Chhatrapati Shivaji Maharaj & Chhatrapati Sambhaji Maharaj.
		CO-4: Understand the social, economic, religious bases of medieval India.
		CO-5: Understand the Political, Socio-Economic, Administrative and cultural history of medieval period.
UG-BA2-HIS-SEM-4	B. A. Sem. IV History of India (From 1757-1947A.D.)	CO-1: Evaluate consolidation of English Power in India.
		CO-2: Understand the process of rise of modern India.
		CO-3: Understand the history of Modern India from analytical perspective.
		CO-4: Understand the Nationalist & Revolutionary Movements: Pre-Gandhian and Post-Gandhian Era.
		CO-5: Understand the history of Modern India and Struggle for independent.
		CO-6: Understand and learn the contribution of political, Eco-social religious reformers And reform movements.
		CO-7: Understand the contribution of freedom fighters in Indian freedom Movements.
UG-BA3-HIS-SEM-5	B. A. Sem. V History of Modern Europe (From 1780-1920 A.D.)	CO-1: Understand Political, Eco-Social changes in European countries like France, Prussia(Germany) Italy, Russia, Austria, Eastern countries etc.
		CO-2: Understand the concept of Communism, Capitalism, and Socialism.
		CO-3: Understand an idea about the rise of nationalism in Europe, consequences and First World war.
		CO-4: Understand & Learn the peace conferences as well as foundation and role of League of Nations.
		CO-5: Understand the most significant events, revolutions and Leadership, personalities of the period
UG-BA3-HIS-SEM-6	B. A. Sem. VI History of Modern Europe (From 1921-1965 A.D.)	CO-1: Understand an idea about the rise of nationalism in Europe, consequences and IIInd World War.
		CO-2: Understand an idea about the Cold War Europe and its consequences, problems of Third World countries, foundation and role of UNO
		CO-3: Get knowledge of modern world and also acquainted the social-economic & political developments in the other countries.
		CO-4: Understand the economic transition in world during 20 th Century.
		CO-5: Understand the important development in the 20 th Century.

FACULTY OF COMMERCE AND MANAGEMENT
COURSE OUTCOMES OF B. COM. PROGRAMMES

[UG Level]

B. COM.

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BCom1-PA-SEM-1	B.Com. Sem. I Principle of Accountancy	CO-1: Student important basic accounting knowledge at applicable to business i.e. meaning of accountancy.
		CO-2: Able to handling account transaction.
		CO-3: Maintaining sub subsidiary books and all types of cash books.
		CO-4: Calculation of depreciation method of assets.
		CO-5: Preparation of all types of final account.
UG-BCom1-PBE-SEM-1	B.Com. Sem. I Principle of Business Economics	CO-1: Application of Micro & Macroeconomic Concepts
		CO-2: Application of Utility & Indifference Curve Analysis
		CO-3: Application of Demand Pattern
		CO-4: Application of Supply and Production Pattern
		CO-5: Application of Cost & Revenue Pattern
UG-BCom1-PBM-SEM-1	B.Com. Sem. I Principle of Business Management	CO-1: With this course, be able to have clear understanding of managerial functions.
		CO-2: have the knowledge of planning process in the organization.
		CO-3: be able to demonstrate the ability to directing, leadership and communicate effectively.
		CO-4: Students able to analyze isolate issues and formulate best control tools and techniques.
		CO-5: Prepare write up for controlling measures adopted by your principles for administrative examination and student affair.
UG-BCom1-CFO-SEM-1	B.Com. Sem. I Computer Fundamental and Operating System-I	CO-1: Get information about evolution and application of computer & its development.
		CO-2: Know about different elements of computer system.
		CO-3: Aware about different types of memory.
		CO-4: Get to know about different input devices and output devices.
		CO-5: Learn to prepare a text document with complete formatting and page setting.
UG-BCom1-FA-SEM-2	B.Com. Sem. II Financial Accounting	CO-1: Rectification of Journal entry.
		CO-2: Student Acquire the Knowledge of nonprofit organization.
		CO-3: Prepare the all types of cooperative society account
		CO-4: Students should be acquired partnership firm accountancy
		CO-5: The bill of exchange contest and unconditional order to pay a create amount on as agree day.
UG-BCom1-BE-SEM-2	B.Com. Sem. II Business Economics	CO-1: Examine the difference between business and managerial economics.
		CO-2: Application of Discriminative nature of monopolist.

		CO-3: Application of monopolistic competition oligopoly, and perfect competition.
		CO-4: Application of demand and supply pattern of rent and wage.
		CO-5: Application of the theories of interest and profit.
UG-BCom1-PBO-SEM-2	B.Com. Sem. II Principle of Business Organization	CO-1: Familiar with business organization.
		CO-2: Understand the concepts related to Business policies.
		CO-3: Demonstrate the roles, skills and functions of management.
		CO-4: To diagnose and solve organizational problems
		CO-5: Develop optimal managerial decisions.
UG-BCom1-CFO-SEM-2	B.Com. Sem. II Computer Fundamental and Operating System-II	CO-1: system- Get basic introduction of Computer and mobile operating MS
		CO-2: Know concept of windows
		CO-3: Create and delete file in File Explorer.
		CO-4: Know concept of modern communication and network topologies
		CO-5: e-mail Create e- mail account and compose message.
		CO-6: Create table, utilizing existing Template provided by Microsoft and add customization on Template according to user needs.
		CO-7: Identify steps in the process and completes an activity to create a mail merge.
		CO-8: Develop the skill of power point programs.
		CO-9: Insert various graphical objects on slide.
		CO-10: Add different Transition, Animation, Sound and Timing effect to Slide.
		CO-11: Run a presentation on computer screen
UG-BCom2-CA-SEM-3	B.Com. Sem. III Company Accounts	CO-1: Able to handling Issue, forfeiture and re issue of shares.
		CO-2: Able to handling Final Accounts of the company.
		CO-3: Learned Profit prior to incorporations of company.
		CO-4: Learned Amalgamation and absorption of company.
		CO-5: Learned Absorption of Company.
UG-BCom2-BM-SEM-3	B.Com. Sem. III Business Mathematics	CO-1: Integers H.C.F. & L.C.M.
		CO-2: Linear Equation with application.
		CO-3: Able to calculate percentage, discount, commission & brokerage.
		CO-4: Able to calculate average, simple & compound interest.
		CO-5: To find out ratio & proportion.
UG-BCom2-Aud-SEM-3	B.Com. Sem. III Auditing	CO-1: Auditing, Objectives & Advantages, Types of Audit, commencement of business audit.
		CO-2: Internal Check system, Audit programme, Routine checking and Vouching, Verification and Valuation of Assets and liabilities.
		CO-3: Company Auditor, Appointment, Power, duties, Liabilities.
		CO-4: Audit of Divisible Profit, Dividend, Audit Report, Types of Report.
		CO-5: Audit of Banking, Insurance & Educational Institutions.
UG-BCom2-SEM-3	B.Com. Sem. III	CO-1: Functions and Importance of Money
		CO-2: Internal Check system, Audit programme, Routine checking and Vouching, Verification and Valuation of Assets and liabilities.
		CO-3: Company Auditor, Appointment, Power, duties, Liabilities.
		CO-4: Audit of Divisible Profit, Dividend, Audit Report, Types of Report.

		CO-5: Audit of Banking, Insurance & Educational Institutions.
UG-BCom2-IT&BDP1-SEM-3	B.Com. Sem. III Information Technology & Business Data Processing-I	CO-1: Learned the concept of Data and Data Processing and Applications in Business
		CO-2: Learned the concept and Objective of Database, Data warehousing and Data Mining and its Applications.
		CO-3: Learned about Database Management System (DBMS)
		CO-4: have a working knowledge of Spreadsheet Package.
		CO-5: have a working knowledge of basic functions and formulas in MS - Excel.
UG-BCom2-CoAc-SEM-4	B.Com. Sem. IV Corporate Accounting	CO-1: Learned Final Accounts of Banking Company
		CO-2: Learned Final Accounts of fire and accident Insurance Company
		CO-3: Learned Liquidation of Company
		CO-4: Learned Valuation of Goodwill
		CO-5: Learned Valuation of Shares
UG-BCom2-BS-SEM-4	B.Com. Sem. IV Business Statistics	CO1: Types of data, Collection, Tabulation and presentation of statistical data
		CO-2: Index Numbers and construction of Index Number
		CO-3: Construction of a frequency of distribution, concept of central tendency & their measures, Mean, Median, Mod
		CO-4: Concept of Dispersion and Absolute & Relative measures of dispersion skewness.
		CO-5: Co-efficient of correlation, Pearson's formula, Calculation of Coefficient of correlation, Probable error
UG-BCom2-IcTx-SEM-4	B.Com. Sem. IV Income Tax	CO-1: Income from Salary & Income from House property.
		CO-2: Income from other sources, Deductions to be made from Gross Total Income, reading to resident Individual.
		CO-3: Income tax Authorities, Power of Income tax Officer & Commissioner and Assessment procedure.
		CO-4: Return of Income, e-filing procedure.
		CO-5: Filling of From No .16 Form No. 10 E, Tax Planning, Advance tax , PAN, TAN and TDS
UG-BCom2-IFS-SEM-4	B.Com. Sem. IV Indian Financial System	CO-1: Financial System in Indian Economy.
		CO-2: Banking Services in India Concept Importance & of Core Banking.
		CO-3: Role & Importance of Commercial Bank in India
		CO-4: Role of RBI in Indian Economy
		CO-5: Concept of SENSEX & NIFTY
UG-BCom2-IT&BDP2-SEM-4	B.Com. Sem. IV Information Technology & Business Data Processing-II	CO-1: Understands the Concepts and uses of Information and Information Technology
		CO-2: Understands the Concepts of Manual V/s Computerized Accounting.
		CO-3: Learned about the Company Information menu and Gateway of Tally menu.
		CO-4: Student will have a working knowledge of Company Creation, Groups Creation, Ledger and Voucher Creations in Tally.
		CO-5: Learned about the Various Accounting Reports Displaying and Various Report Printing in Tally
		CO-1: Difference between Cost Accounting and Financial Accounting.

UG-BCom2-CostAc-SEM-5	B.Com. Sem. V Cost Accounting	CO-2: Material Purchase Procedure; Store Keeping; Stores Record.
		CO-3: Attendance Register (Muster Roll); Token or Disc Method; Time Recording Clocks; Biometric Time Recording Clocks.
		CO-4: Learned Reconciliation of Cost and Financial Accounts.
		CO-5: Problems on Process Costing (Excluding Problems on Abnormal Gain/Loss and Internal Process Profit).
UG-BCom2-BE-SEM-5	B.Com. Sem. V Business Environment	CO-1: Indian Business Environment
		CO-2: Indian Agricultural Environment
		CO-3: Indian Industrial Environment
		CO-4: Indian Service Environment
		CO-5: India and Foreign Trade Environment
UG-BCom2-BRF-SEM-5	B.Com. Sem. V Business Regulatory Frame work	CO-1: Indian Contract Act and Agreement
		CO-2: Special Contacts, Indemnity & Guarantee, Bailment and Pledge , Agency , Appointment of Agent and Termination of Agency
		CO-3: Sales of Goods Act, 1930 and Consumer Protection Act, 1986
		CO-4: Negotiable Instrument Act, 1981
		CO-5: Goods and Services Tax Act, 2017
UG-BCom2-NET1-SEM-5	B.Com. Sem. V Internet & WWW	CO-1: Understand the concept of Network and Types of Network.
		CO-2: Understand the evolution of internet, its applications and its basic services.
		CO-3: have a working knowledge of Electronic Mail and Gmail.
		CO-4: Learned about the concept of WWW and Importance of Website in current era.
		CO-5: designing website and webpage.
UG-BCom2-ECom1-SEM-5	B.Com. Sem. V E-Commerce-I	CO-1: learn and evaluated about the various components of E-Commerce.
		CO-2: learn about the current scenario and Government FDI policy about ecommerce in India
		CO-3: learn about the B2C, C2B, C2C Retail e-commerce & Procedure and benefits of E-auction.
		CO-4: learn about the Meaning, Characteristics and e-Marketplace models of B2B E-Commerce.
		CO-5: learn about concept and importance of e-payment and e-banking in current era.
UG-BCom3-MaAc-SEM-6	B.Com. Sem. VI Management Accounting	CO-1: Comparison: Between Management Accounting and Financial Accounting, Between Management Accounting and Cost Accounting.
		CO-2: Decision making, Cost-Profit-Volume Relationship, Fixed Cost Variation.
		CO-3: Learned Ratio Analysis
		CO-4: Learned budget
		CO-5: Budgetary Control, Objectives of Budgetary Control; Limitations of Budgetary Control.
UG-BCom3-ED-SEM-6	B.Com. Sem. VI Economics of Development	CO-1: Economic Development V/s Economic Growth
		CO-2: Economic Growth Models
		CO-3: SEZ: A Solution over Unbalanced Growth in India
		CO-4:Development of Capital: Human & Financial

UG-BCom3-CL-SEM-6	B.Com. Sem. VI COMPANY LAW	CO-1: Types of company and Promoters, Functions of promoter, Duties and liabilities of promoter
		CO-2: Incorporation of company.
		CO-3: Share capital of company.
		CO-4: Securities market.
		CO-5: Company secretary responsibility and company meetings.
UG-BCom2-NET2-SEM-6	B.Com. Sem. VI Internet & WWW-II	CO-1: Understand the Concept and importance of web browser for browsing.
		CO-2: Learned about the meaning, Features and Types of web directory and search engine.
		CO-3: Student will able to understand the meaning and features of Facebook, Instagram, Twitter, and website.
		CO-4: Get working knowledge of Google Drive, Google Forms & Google Classroom.
		CO-5: Learned about the various tools of FrontPage application for designing website in easy way.
UG-BCom2-ECom2-SEM-6	B.Com. Sem. VI E-Commerce-II	CO-1: learn about the Internet based E-Commerce Business models.
		CO-2: learn about the Internet Marketing and online marketing strategies.
		CO-3: learn the concept of EDI and JIT.
		CO-4: understood the meaning & objectives of E-governance in G2B, B2G and C2G.
		CO-5: conceptually learned the various e-governance models.

FACULTY OF COMMERCE AND MANAGEMENT
COURSE OUTCOMES OF M. COM. PROGRAMMES

[PG Level]

M. COM.

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
PG-MCOM-ME-SEM1	M.Com. Sem. I Managerial Economics	CO-1: Application of concepts of Managerial Economics in the process of business decision making
		CO-2: Application of demand supply concepts towards consumer choices
		CO-3: Compare economies and dis-economies scale of production in real life situation
		CO-4: Assessment of Production process determination in various industries.
		CO-5: Impact of business cycles in Agriculture, Industry, Services and Share Market CO-6: Application of pricing practices in various markets and bargaining tendencies thereof
		CO-6: Application of pricing practices in various markets and bargaining tendencies thereof
PG-MCOM-SM&CRM-SEM1	M.Com. Sem. I Service Marketing & Customer Relationship Management	CO-1: understand seven phases of marketing of service in depth.
		CO-2: Student will understand strategic issues peculiar of service marketing
		CO-3: understand an importance of new and innovative concepts of CRM, especially E-CRM.
		CO-4: demonstrate idea creation and implementation of CRM for different service sector.
PG-MCOM-AF&CoAc-SEM1	M.Com. Sem. I Advanced Financial & Cost Accounting	CO-1: Investments are assets held by an enterprise for earning income.
		CO-2: Final Accounts gives an idea about the profitability and financial posting of business to its management, owners and other interested parties.
		CO-3: The cost sheet is prepared to ascertain cost of product/job / operation or to give autotimer or to determine tender price for supply of goods or providing service.
		CO-4: Operating result the operating result is the surplus or deficit for the year under the Accounting Standard framework and getting result recognizes all revenues and operating expenditure.
		CO-5: Accounting for construction contracts is the allocator of contract revenue and contract.
PG-MCOM-CF&OS-SEM1	M.Com. Sem. I Computer	CO-1: Application of CIBIL Score in qualifying the proposal of advances
		CO-2: Impact of Monetary Policy on various industries

	Fundamental and Operating System-I	CO-3: Impact of PMJJBY & PMSBY CO-4: Assessment of Claim Settlement Procedure of Life Insurance. CO-5: Assessment of Claim Settlement Procedure of General Insurance
PG-MCOM-AMD-SEM2	M.Com. Sem. II Accounting for Managerial Decision	CO-1: Ratio analysis compares line item data from a company's financial statements to reveal regarding profitability individually operated ... and solvency. CO-2: A cash flow analysis determines a company's working capital the amount of money available to run business operation and complete transaction. That is Calculate as current assets and current liabilities. CO-3: The outcome of Anoint in the statistics this ratio shows the difference between the within group variance and which ultimately produces a figure which allows a conclusion that the hypothesis is supported or rejected. CO-4: BEP tells you how many units of a product must be sold to cover the fixed and variable cost of production The BEP is considered to measure of the margin of profit. CO-5: Budgetary control is the process of preparation of budgets for various activities and company the budget figures for arriving at deviation of any which to be elemental in future. Thus budget is a means and budgetary control is the end result.
PG-MCOM-SM-SEM2	M.Com. Sem. II Strategic Management	CO-1: demonstrate decision making ability and dynamism. CO-2: understand major theories, background work, concept and research output in the field of strategies management. CO-3: demonstrate a proper meaning of the tools and technique used by executives in executing strategies and will appreciate its integrative and interdisciplinary nature. CO-4: demonstrate practical situation for diagnosing and solving organizational issues. CO-5: relate theories and device application of it.
PG-MCOM-MC&OB-SEM2	M.Com. Sem. II Management Concept & Organizational Behavior	CO-1: decision making process both at individual level and in group. CO-2: understand Power, Politics, and Accomplishing organizational goals. CO-3: demonstrate ability to manage conflicts. CO-4: determine Leadership style according to the situation.
PG-MCOM-CAB-SEM2	M.Com. Sem. II Computer Applications in Business	CO-1: Word processing allows students to interpret and process to understand higher standard of word processing. Students can perform the practical parts and remove mistakes on word documents. CO-2: demonstrate and understanding of accounting theory. Apply accounting procedure by using computer accounting software. Perform accounting reports and records. CO-3: Enable to gain expert knowledge, principles and procedure of computerize accounting and taxation and Critical thinking and problem solving skills in analyzing financial information and taxation.

		CO-4: know basic data types in spreadsheets. Is able to determine database and convert them. Know basic functions to calculate mathematical, statistical and logical operations. Have skills of data visualizing depending on data and task types.
		CO-5: understand how to start MS –Excel and SPSS. Enter basic data into SPSS and carry out statistical analysis that can test hypothesis. Develop various required graphs.
PG-MCOM-RM-SEM3	M.Com. Sem. III Research Methodology.	CO-1: Demonstrate the ability to choose methods appropriate to research aims and objectives
		CO-2: Understand the limitations of particular research methods.
		CO-3: Develop skills in qualitative and quantitative data analysis and presentation.
		CO-4: Develop advanced critical thinking skills.
		CO-5: Demonstrate enhanced writing skills.
PG-MCOM-SA-SEM3	M.Com. Sem. III Statistical Analysis.	CO-1: become conversant with the corporate assessment.
		CO-2: become conversant with the concepts of corporate tax planning and Indian tax law
		CO-3: perform parametric and non-parametric test and association of attributes.
		CO-4: perform probability theory, probability distribution, statistical decision theory and parabolic curve method.
		CO-5: perform analysis of time series manually.
PG-MCOM-CTPM-SEM3	M.Com. Sem. III Corporate Tax Planning & Management.	CO-1: conversant with the corporate assessment..
		CO-2: become conversant with the tax planning and financial management.
		CO-3: Students are able to become conversant with the tax planning and financial management.
		CO-4: become conversant with special tax provisions relating to free trade zones.
		CO-5: become conversant with tax planning with reference to amalgamation of companies
PG-MCOM-CLS-SEM3	M.Com. Sem. III E-Commerce & Legal Security	CO-1: gain knowledge about e-commerce and its various components with legal security.
		CO-2: explain internet, applications of e-commerce e-mechanism with provisions and penalties of information technology act.
		CO-3: gain knowledge about electronic payments system.
		CO-4: gain knowledge about website designing through HTML and Front page express.
		CO-5: gain knowledge about cyber stacking and security issues in ecommerce.
PG-MCOM-ESD-SEM4	M.Com. Sem. IV Entrepreneurship and skill development	CO-1: Understand the concepts related to Entrepreneurial Characteristics and skill and demonstrate the Factors affecting Entrepreneurial growth.
		CO-2: Identify Role of NGOs in rural entrepreneurship and problems of women entrepreneurs.
		CO-3: Understand the concepts related to Industrial Development Bank of India(IDBI), Industrial Finance Corporation (IFCI), Industrial

		Credit and Investment corporation of India (ICICI), Industrial Reconstruction Bank of India (IRBI)
		CO-4: create Inter personal communication and relationship, Leadership Skill, Team Building and Public Speaking.
		CO-5: Understand the concepts related to Skill development of rural industrial sector and small scale industries.
PG-MCOM-CoAc-SEM4	M.Com. Sem. IV Corporate Accounting	CO-1: Demonstrate basic understanding of International Finance v/s Domestic Finance.
		CO-2: Demonstrate basic understanding of Structure of Balance of Payment and Capital Account Convertibility
		CO-3: Demonstrate basic understanding of Gold Standard & Its Suspension Global Finance.
		CO-4: Demonstrate critical and analytical skills wherein they should be able to make sense out of a mass of information to address relevant issues in global money markets.
		CO-5: Understand the concepts related to Structure & Functions of Asian Development Banks.
PG-MCOM-SDM-SEM4	M.Com. Sem. IV Sales and Distribution Management	CO1- The student will be able to execute Market Analysis, Marketing strategy and sales planning.
		CO-2: The student will understand the essentials of good salesmanship
		CO-3: The student will be able to create Sales Audit and cost analysis
		CO-4: The student will evaluate and design sustainable sales & distribution strategies
		CO-5: The student will evaluate Marketing strategy of wholesaler.
PG-MCOM-CoM-SEM4	M.Com. Sem. IV Co-operative Management	CO-1: Students are able to understand the Traditional Management in Co-operation and Need of professional Management.
		CO-2: Students are able to understand the Role of Members, Board of Directors, Executives and Employees in Human Resources Management.
		CO-3: Students are able to understand the three tire credit system in Co-operation funding agencies like NABARD, RBI, SBI, NCDC and GOVT.
		CO-4: Students are able to understand the RBI Regulations on Co-operative Credit and Co-operative Banks.
		CO-5: The student will be able to execute Audit memo and its rectification

FACULTY OF SCIENCE AND TECHNOLOGY
COURSE OUTCOMES OF B. SC. PROGRAMMES

[UG LEVEL]

Physics Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BSc-PHY-SEM-1	B. Sc. Sem. I Physics	CO-1: Explain the basics of Kepler's laws, Newton's law, Gauss theorem and its application.
		CO-2: Explain linear momentum, angular momentum and moment of inertia (MI) of the bodies and determination of MI with the help of principal of perpendicular and parallel axis.
		CO-3: Explain fundamentals of harmonic oscillator model, including damped and forced oscillators and grasp the significance of terms like quality factor and damping coefficient.
		CO-4: Understand the principle of superposition of SHM, determination of velocity of wave using Kund's tube.
		CO-5: Understand elastic properties of materials, concept of bending behavior of beam and determination of elastic modulus of given structure.
		CO-6: Understand viscous properties of fluids and applications of the Bernoulli's theorem
		CO-7: Understand the concept of surface tension and to determine of surface tension by experimental methods
UG-BSc-PHY-SEM-2	B. Sc. Sem. II Physics	CO-1: Explain kinetic theory of gases and its implications familiarized with the thermodynamic parameters.
		CO-2: Understand the various thermodynamic process and work done in each of these processes.
		CO-3: Understanding about reversible and irreversible processes and also working of a Carnot's engine, and knowledge of calculating change in entropy for various processes.
		CO-4: Understand the importance of Thermo dynamical functions and applications of Maxwell's relations.
		CO-5: Understand the basic concept of motion of charge particle under electric and magnetic fields.
		CO-6: Apply the knowledge of basic circuit law and simplify the network using reduction techniques.
		CO-7: Analyze the circuit using Kirchhoff's law and Network simplification theorems like Thevenin's theorem, Norton's theorem, Superposition theorem, Milliman's theorem, etc.
		CO-8: Obtain the maximum power transfer to the load.
UG-BSc-PHY-SEM-3	B. Sc. Sem. III Physics	CO-1: Familiarized with gradient, divergence and curl of scalar and vector fields and their physical significances, evaluate the electrostatic fields and potential in free space.

		CO-2: Understand the production of magnetic field due to steady current and calculate magnetic fields using Boit-Savart and Ampere's law.
		CO-3: Understand the Maxwell's equation of electrodynamics, its applications to propagation of electromagnetic waves and significance of Poynting theorem (vector).
		CO-4: Formulate and solve the basic science problems on electromagnetism.
		CO-5: Explain the physical principles and applications of Electronics..
		CO-6: Understand the nature of semiconducting materials and the physics that influences the presence of charge carriers in a semiconductor.
		CO-7: Describe the factors that influence the flow of charge in semiconductors and the operation of semiconductor devices.
		CO-8: Familiarized with the operation of circuits based on diodes, bipolar transistors, and field effect transistors.
		CO-9: Using the test equipment's such as a Function Generator, an Oscilloscope, a digital multimeter, and variable Power Supplies.
		CO-10: Understand the thermodynamic principles of atmospheric processes, physical processes and physical properties of the Earth and its surrounding space environment.
UG-BSc-PHY-SEM-4	B. Sc. Sem. IV Physics	CO-1: Generate the ability to predict behavior of optical instruments using geometric and wave approaches.
		CO-2: Formulate their understanding of fundamental optics to articulate the concepts and operating principles of super-resolution optical microscopes.
		CO-3: Understand the phenomenon of Interference, diffraction and polarization and to analyze the intensity variation of light due to this effect.
		CO-4: Understanding of optics and quantum mechanics to articulate the operational principles of lasers and the unique properties of laser light.
		CO-5: Explain working principle of lasers and its applications.
		CO-6: Explain working principles of optical fiber and its use in Communication.
		CO-7: Explain solar energy radiation, solar collectors, energy conversion systems and also power generation using geothermal and wind energy
UG-BSc-PHY-SEM-5	B. Sc. Sem. V Physics	CO-1: Familiar with the main aspects of the historical development of quantum mechanics and be able to discuss and interpret experiments that reveal the wave properties of matter, as well as how this motivates replacing classical mechanics with a wave equation.
		CO-2: Understand the central concepts and principles in quantum mechanics, such as the Schrödinger equation, the wave function

		and its statistical interpretation, the uncertainty principle, stationary and non-stationary states.
		CO-3: Solve the Schrödinger equation on their own for simple systems in one to three dimensions.
		CO-4: Understand the vector atom model and apply its principles to the study of atoms and its behavior, origin of X- ray spectra and its characteristics.
		CO-5: Explain Raman effect and its importance as spectroscopic technique.
		CO-6: Understand the structure of atomic nuclei basic properties of a nucleus such as binding energy and nuclear forces.
		CO-7: Understand the basic properties of a nucleus such as binding energy and nuclear forces.
		CO-8: Understand mechanism of decay process of alpha beta and gamma particles.
		CO-9: Familiar the process of nuclear fission and fusion and concept of particle detector and accelerators.
		CO-10: Explain the concept of feedback in amplifiers. Design and analysis of amplifier and oscillator using BJT.
UG-BSc-PHY-SEM-6	B. Sc. Sem. VI Physics	CO-1: Understand the concept of microscopic and macroscopic states and relationship between thermodynamics and statistics.
		CO-2: Familiar with classical (Maxwell-Boltzmann) statistics and quantum statistics (Bose and Fermi Dirac) statistics and able to apply for different systems of particles.
		CO-3: Distinguish amorphous and crystalline solids.
		CO-4: Knowledge of crystal systems and spatial symmetries and how crystalline materials are studied using diffraction. Calculate thermal and electrical properties in the free-electron model.
		CO-5: Explain the concept of energy bands and effect of the same on electrical properties, various types of magnetic phenomenon, physics behind them and their properties.
		CO-6: Superconductivity, its properties, important parameters related to possible applications.
		CO-7: Understand the concept of nano-materials and the effect of increase in S/V ratio on the properties of materials.
		CO-8: Understand the concept of quantum confinement and its consequences.

Botany Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BSc-BOT-SEM-1	B. Sc. Sem. I Botany	CO-1: Know Introduction of Cryptogams and general account of viruses.
		CO-2: To know Classification and general characters of algae.
		CO-3: Explain the Classification and general characters of Fungi.
		CO-4: Classify and know general characters of Bryophytes.
		CO-5: Classify and know general characters of Pteridophytes.
		CO-6: Understand economic importance of microbes and cryptogams.
		CO-7: Know the systematic, morphology and structure of algae, fungi, bryophytes, and Pteridophytes.
		CO-8: Know life cycle pattern of cryptogams.
UG-BSc-BOT-SEM-2	B. Sc. Sem. II Botany	CO-1: Explain Geological time scale and fossil gymnosperms.
		CO-2: Understand Brief Classification and general accounts of Gymnosperms.
		CO-3: Understand Morphology of food, oil, fiber crop plants. Uses of plants Parts.
		CO-4: Focus on deep study of Pharmacognosy and photo chemistry of medicinal plants.
		CO-5: Know, scope and application of Palaeobotany.
		CO-6: To understand role of living and fossil plants in our life.
		CO7 Systematic study of gymnosperms
UG-BSc-BOT-SEM-3	B. Sc. Sem. III Botany	CO-1: Explain Origin and evolution of angiosperms.
		CO-2: Know deep study on Systematic of Classification of Angiosperms.
		CO-3: An account on Systematic study of Dicotyledons and monocotyledons (Families).
		CO-4: Brief about general characteristics and anatomy of root and stem.
		CO-5: Know about Embryology
		CO-6: Make herbarium and identify the plants.
		CO-7: Section cutting, make Permanent slides and differentiate tissues.
UG-BSc-BOT-SEM-4	B. Sc. Sem. IV Botany	CO-1: Understand the basic concepts of Cell biology, Genetics and biochemistry.
		CO-2: Explain Structure and function of cell organelles.
		CO-3: Understand Mendel's Law and solve Problem of genetics.
		CO-4: Explain Enzymes their activities and Understand Carbohydrates
		CO-5: Analyze various biochemical tests like protein, lipid, oil, starch and cellulose.
		CO-6: Understand the Significance of mitosis and meiosis

UG-BSc-BOT-SEM-5	B. Sc. Sem. V Botany	CO-1: Brief about the Mechanism of Water translocation in plants.
		CO-2: Have ideas of Metabolic activities - photosynthesis and respiration.
		CO-3: Have deep knowledge of Nitrogen metabolism and growth hormones.
		CO-4: Explain Concept of Photoperiodic and plant movements.
		CO-5: Structure and function of ecosystem.
		CO-6: Know scope, importance of plant physiology and Understand plant & water relation.
		CO-7: Observe amazing things regarding photosynthesis and respiration.
		CO-8: Study of morphology and anatomy in hydrophytes and xerophytes plants.
UG-BSc-BOT-SEM-6	B. Sc. Sem. VI Botany	CO-1: Explain Structure and function of DNA.
		CO-2: Understand Transcription and Translation in Eukaryotes.
		CO-3: Gene regulation in Prokaryotes.
		CO-4: Do Techniques of gene transfer.
		CO-5: Clear ideas of Plant tissue culture and understand Role of Biotechnology in Agriculture, Industry and Health care
		CO-6: Have experiential learning in advanced subjects of Molecular Biology and Plant Biotechnology
		CO-7: Joyful experience of observing most precious biomolecular like DNA, RNA and proteins and their Qualitative and Quantitative estimations
		CO-8: Demonstrate of advanced tools like electrophoresis

Zoology Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BSc-ZOO-SEM-1	B. Sc. Sem. I Zoology	CO-1: Develop a deeper sense with respect to phylum Protozoa to Echinodermata in relation to taxonomy, classification, body organization and general the strengthens students' capability in basic zoology.
		CO-2: Grasp various the systematic positions from Protozoa to Echinodermata their pathogen city and its epidemiology.
		CO-3: Describe unique characters and recognize life functions of Protozoa, Porifera, Coelenterate, Helminthes, Arthropoda, Annelid, Mollusca and Echinodermata.
		CO-4: Improve ability and apply knowledge of Non-chordates for its execution in Agriculture especially with the phylum Arthropod.
		CO-5: Implement an extensive idea about economic and ecological significance of various non-chordates phylum's in human life.
UG-BSc-ZOO-SEM-2	B. Sc. Sem. II Zoology	CO-1: Know what the chordates are.
		CO-2: Learn about the different phylum of chordates.

		CO3: Confidently explain the general characters and classification of Protochordates up to class Mammalia.
		CO-4: Understand the level of organization in chordate.
		CO-5: Explain the origin and evolutionary relationship in different subphylum of chordates.
		CO-6: Describe specific features of Protochordates up to class Mammalia.
		CO-7: Recognize and differentiate life functions of Protochordates up to class Mammalia.
		CO-8: Understand Migration in fishes and birds, parental care in Amphibians and Poisonous and non-poisonous snakes.
		CO-9: Explain the adaptations in Birds and Mammals.
UG-BSc-ZOO-SEM-3	B. Sc. Sem. III Zoology	CO-1: Knowledge regarding the basic anatomical concepts of Primary Structure of body of higher animals.
		CO-2: Knowledge regarding evolutionary evidences –direct and indirect.
		CO-3: Animal adaptation-terrestrial, aquatic and desert.
UG-BSc-ZOO-SEM-4	B. Sc. Sem. IV Zoology	CO-1: Knowledge of various factors of environment and their impact on growth and development of animals.
		CO-2: Understanding the structure and function of ecosystem..
		CO-3: Understanding the structure, types and aberration of chromosome.
		CO-4: Understanding gene interaction and develop skill to solve genetically problem
		CO-5: Knowledge about gene mutation, linkage and crossing over etc.
		CO-6: Understand the Significance of mitosis and meiosis
UG-BSc-ZOO-SEM-5	B. Sc. Sem. V Zoology	CO-1: Advance knowledge about animal physiology, metabolism and ecology.
		CO-2: Understanding animal's growth mechanism, role of growth hormones in animal's development.
		CO-3: Knowledge of various factors of environment and their impact on animal's growth and development.
		CO-4: Understanding the structure and function of ecosystem.
UG-BSc-ZOO-SEM-6	B. Sc. Sem. VI Zoology	CO-1: Knowledge about genetic material i.e. DNA, RNA etc.
		CO-2: understanding about the recombinant DNA technology, protein synthesis, protein sorting, cloning techniques to construct genomic libraries and abroad view about cloning vector types and strategies.
		CO-3: have knowledge about parameters involved in gene transfer techniques.
		CO-4: understand the different techniques used in Animal Tissue Culture and their Applications.
		CO-5: understand the functioning of various equipment's used in Tissue Culture Work.

		CO-6: understanding gene interaction and develop skill to solve genetically problem
		CO-7: Acquire knowledge about gene mutation, linkage and crossing over etc.

Chemistry Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BSc-CHEM-SEM-1	B. Sc. Sem. I Chemistry	CO-1: Solve the conceptual questions using the knowledge gained by studying periodicity in atomic radii, ionic radii, ionization energy and electron affinity of elements.
		CO-2: Apply concepts of acids and bases as well as non-aqueous solvents and their industrial usage.
		CO-3: Compare different reaction intermediates, functional group chemistry through the study of methods of preparation, properties and chemical reactions with underlying mechanism.
		CO-4: Choose correct synthetic approach to prepare derivatives of industrially important molecules
		CO-5: Solve different numerical problem of varying difficulty associated with gaseous and liquid state.
		CO-6: Apply the concepts from advanced mathematics to solve the derivation of different chemical formulae.
UG-BSc-CHEM-SEM-2	B. Sc. Sem. II Chemistry	CO-1: apply the knowledge gained by studying types of bonding, solvation, hybridization and molecular geometries.
		CO-2: Draw the correct molecular structures, bond order and bond length.
		CO-3: synthesize commercially important compounds of varying carbon backbone.
		CO-4: Choose correct synthetic approach to prepare derivatives of industrially important molecules.
		CO-5: Solve numerical problems related to crystalline state.
		CO-6: Acquire skills to use chemical kinetics to develop mechanism of chemical reactions.
UG-BSc-CHEM-SEM-3	B. Sc. Sem. III Chemistry	CO-1: Understand the concept of covalent bonding, metallic bonding

		CO-2: Know free electron theory, Valence bond theory and molecular orbital theory
		CO-3: Understand concept of volumetric analysis
		CO-4: Have an information regarding gravimetric analysis
		CO-5: Get the information of difference of aldehyde and carboxylic acid
		CO-6: Understand the terms Optical isomerism and conformational isomerism
		CO-7: Know meaning of resolution, enantiomers Diastereomers, R and S Configuration
		CO-8: Understand the concept of liquid state surface tension, Viscosity
		CO-9: Understand measurement application of surface tension and viscosity
		CO-10: Understand principle of redox titration during practicals
		CO-11: Know importance of water, measurement of different parameters
		CO-12: Develop skill based aptitude among the students
		CO-13: Performs redox titration, iodometry and iodometric titration
		CO-14: Develop skill for construction of phase diagram.
		CO-15: Develop laboratory skill for study order of reaction
UG-BSc-CHEM-SEM-4	B. Sc. Sem. IV Chemistry	CO-1: Knowledge about 3d transition series elements Get the knowledge of metallurgy
		CO-2: Understand inner transition elements
		CO-3: Understand the chemistry of reactive methylene group
		CO-4: Inculcate importance of carbohydrate
		CO-5: Acquire importance of amino acids, diazonium salt and proteins

		CO-6: Know the importance of colligative properties
		CO-7: Understand crystalline state by using different models
		CO-8: Know various parameters of water like hardness of water and its estimation
		CO-9: Estimation of KMnO ₄ colorometrically and also copper
		CO-10: Determination of equivalent weight of organic acid
UG-BSc-CHEM-SEM-5	B. Sc. Sem. V Chemistry	CO-1: Understand Werner's formulation of complexes and identify the type of valencies
		CO-2: Get importance of electronic spectra of transition series elements
		CO-3: Solve numerical on crystal field theory
		CO-4: Have the knowledge of various drugs their synthesis and application
		CO-5: Knowledge about various pesticides and herbicides
		CO-6: Acquaint about mode of action of drugs on various diseases
		CO-7: Understand different terms Lambert's law, Beer's law, Quantum yield, Fluorescence, phosphorescence
		CO-8: Derive expression for rotational spectra, vibrational spectra, band spectra
		CO-9: Solve numerical on rotational and vibrational spectroscopy
		CO-10: Know idea for preparation of complexes like tetrammine Cu(II) sulphate, hexamine Ni(II) chloride, Prussian blue, Sodium thiosulphate
		CO-11: Perform titration and estimation by conductometry, potentiometric, polarimetrically
UG-BSc-CHEM-SEM-6		CO-1: Knowledge of different reaction SN ₁ and SN ₂ substitution reaction

	B. Sc. Sem. VI Chemistry	CO-2: Understand various concept of beers law verification, expressions
		CO-3: Understand chromatography types
		CO-4: Know the role Na ,K, Ca, Mg haemoglobin myoglobin in biological system
		CO-5: Understand different spectroscopic terms In electronic spectroscopy chromophore, auxochrome bathochromic shift, hypsochromic shift
		CO-6: Know application of electronic spectra for dienes unsaturated aldehydes and ketones, aromatic compound
		CO-7: Understand concept of NMR, Mass spectroscopy and their application in structure determination
		CO-8: Determination pH of solution by using hydrogen ,glass, quinhydrone electrode
		CO-9: Understand different terms of nuclear chemistry Shell model,liquid drop model, meson theory
		CO-10: Knowledge about nuclear fusion and fission, Q value
		CO-11: Know the application of radioisotope in industries agriculture and medicine
		CO-12: Know the idea to perform various titration formaldehyde, ascorbic acid, phenol, aniline, urea
		CO-13: Develop skill based practicals like separation of mixtures of dyes
		CO-14: To develop titration skill for conductometry, potentiometry, pH metry.
		CO-15: Verify lamberts beers law by using colorimeter

Mathematics Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BSc-MATHS-1&2-SEM-1	B. Sc. Sem. I Mathematics (Algebra and Trigonometry)	CO-1: Apply De Moivre's theorem to solve problems on roots.
		CO-2: Have full knowledge of Trigonometric series, Gregory series, Euler's series, Machin's series, and Rutherford series.
		CO-3: Find the characteristic equation, Eigen values and corresponding Eigen vectors of a given matrix.
		CO-4: Find the coefficients of quadratic equations by using relation between roots and coefficients of equations.
		CO-5: Find the inverse of square matrix.
	B. Sc. Sem. I Mathematics (Differential and integral Calculus)	CO-1: Have full knowledge of limit and continuity for study the functions.
		CO-2: Study differentiability to apply it for day to day problems.
		CO-3: Know the geometrical applications of mean value theorems.
		CO-4: study the difference between ordinary and partial differentiation.
		CO-5: Find nth derivative of product of two functions using Leibnitz's theorem and study integration for finding values of product of functions.
UG-BSc-MATHS-3&4-SEM-2	B. Sc. Sem. II Mathematics (Differential equation Ordinary and Partial)	CO-1: Solve first order differential equation using different techniques
		CO-2: How to find the solution of linear and differential equations of second order with constant coefficients.
		CO-3: be introduced to the complete solution of non-linear differential equations by using different method.
		CO-4: Students will know the methods of solving partial differential equations for more than one variable.
		CO-5: study applications of differential equations.
	B. Sc. Sem. II Mathematics (Vector Analysis and Solid analytic Geometry)	CO-1: Students have knowledge about the vectors, their products, Differentiation and integration.
		CO-2: They study divergence, curls directional derivative which are useful in physics.
		CO-3: Students have knowledge about integration which will be used to calculate the area under the curve.
		CO-4: Students studied the concepts of Geometry.
		CO-5: They study sphere, cone and Cylinder.
UG-BSc-MATHS-5&6-SEM-3	B. Sc. Sem. III Mathematics (Advance Calculus)	CO-1: Students learn about sequence and their convergence using different test.
		CO-2: They have the knowledge of calculating the sum of infinite number of terms.
		CO-3: Students know that how to work on functions of two or more variables.
		CO-4: Students aware about the application of extremum value problem to solve industrial, society problems.

	B. Sc. Sem. III Mathematics (Elementary Number Theory)	CO-5: To solve the double and triple integrations.
		CO-1: Students learn about divisibility, prime numbers, congruence, quadratic reciprocity, Diophantine.
		CO-2: Learn methods and techniques used in number theory.
		CO-3: Write programs/functions to compute number theoretic functions.
		CO-4: Use mathematical induction and other types of proof writing techniques.
UG-BSc-MATHS-7&8- SEM-4	B. Sc. Sem. IV Mathematics (Advance Calculus)	CO-5: Students are able to effectively communicate mathematics.
		CO-1: Have knowledge of algebraic structures groups, rings.
		CO-2: Know definition of homomorphism, isomorphism, and natural homomorphism.
		CO-3: Algebra of ideals, prime ideal, principal ideal, and quotient rings.
		CO-4: Knowledge of ring, integral domain, field.
	B. Sc. Sem. IV Mathematics (Classical Mechanics)	CO-5: Extend group structure to finite permutation group.
		CO-1: Knowledge of degree of freedom generalized coordinates and constraints.
		CO-2: Knowledge of solving the problems of motion of a system of particles.
		CO-3: Kepler's problem to know the universe.
		CO-4: Variation techniques for extremum.
UG-BSc-MATHS- 9&10-SEM-5	B. Sc. Sem. V Mathematics (Mathematical Analysis)	CO-5: Different principles to study motion of particles and study the motion of a rigid body.
		CO-1: To solve examples of improper integral.
		CO-2: be introduced to the concept of continuity of complex functions.
		CO-3: have a working knowledge of differentiability for complex functions and be familiar with the Cauchy - Riemann equations.
		CO-4: be introduced to metric spaces, Cauchy sequences.
	B. Sc. Sem. V Mathematics (Mathematical Methods)	CO-5: Understand purpose and functions of the gamma and beta functions.
		CO-1: have full knowledge of Legendre's equation.
		CO-2: The students are expected to learn Bessel's equation, generating function for $J_n(x)$, Sturm Lowville boundary value problem.
		CO-3: Understand Fourier series.
		CO-4: Apply Laplace transform to solve ordinary and partial differential equation.
UG-BSc-MATHS- 11&12-SEM-6	B. Sc. Sem. VI Mathematics (Linear Algebra)	CO-5: To understand Fourier transforms.
		CO-1: Analyze finite and infinite dimensional vector spaces and subspaces over a field and their properties, including the basis structure of vector spaces.
		CO-2: be introduced to Recognize the concepts of the terms span, L.I, basis, and dimension, and apply these concepts to various vector spaces and subspaces.

		CO-3: Use the definition and properties of linear transformations and matrices of linear transformations and change of basis, including kernel, range and isomorphism.
		CO-4: Compute inner products and determine orthogonality on vector spaces, including Gram Schmidt orthogonalization process.
		CO-5: Understand Modules and Sub Modules
	B. Sc. Sem. VI Mathematics (Special Theory of Relativity)	CO-1: Use tensor notation in relativity theory.
		CO-2: Apply the concept of length contraction and time dilation as well as use Lorentz transformation.
		CO-3: Solve simple kinematical problems.
		CO-4: Analyze Maxwell's equations and use their relativistic invariance.
		CO-5: Compute basic quantities in differential geometry.
		CO6 Analyze Einstein's Field equations.

Computer Science Department

Course Code	Name of the Course	Course Outcomes- After completing this course students will be able to
UG-BSc-CPS-SEM-1	B. Sc. Sem. I Fundamentals of Information Technology and 'C' Programming	CO-1: Understand the basic concept of Computer Architecture, Memory, Input Output Devices, and Peripheral devices.
		CO-2: Understanding the concept of Operating System, Need and Types of Operating system and File Handling
		CO-3: Understanding Networking concepts and Introduction to Internet
		CO-4: Understand the concept of Constants and Variables and Data types.
		CO-5: Learn the concept of Control statements in C Language. CO-
		6: Able to define data types and use them in simple data processing applications.
UG-BSc-CPS-SEM-2	B. Sc. Sem. II Web Technology and Advanced programming in C	CO-1: Understanding the concept of Markup Languages including HTML, XML and Style Sheet.
		CO-2: Understand best technologies for solving web client/server problems
		CO3: Choose, understand, and analyze any suitable real time web application.
		CO-4: Integrate java side scripting languages to develop web applications.

		CO-5: Recognize the basic terminology in Advance C programming through Array, Pointer, String, Function, Structure Union and File handling concept.
		CO-6: Extend this knowledge to .Net platforms.
		CO-7: Extend the knowledge of problem solving in advance programming.
UG-BSc-CPS-SEM-3	B. Sc. Sem. III Data Structure and C-4- I	CO-1: I understand the concept of Dynamic memory management, data types, and algorithms.
		CO-2: Understand basic data structures such as arrays, linked lists, stacks and queues.
		CO-3: Describe common applications for arrays, records, linked structures, stacks, queues, trees, and graphs.
		CO-4: Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data.
		CO-5: Implement data structure algorithms using C-H - .
		CO-6: Describe the procedural and object oriented concepts with streams, classes, functions, data and objects.
		CO-7: Built ability to implement stack, queue and linked list operation through Programming
UG-BSc-CPS-SEM-4	B. Sc. Sem. IV RDBMS and PL/SQL	CO-1: Explain the basic concepts of Databases Management System and Data Models.
		CO-2: Explain Relational Model, Relational Algebra and Relational Calculus.
		CO-3: Understand the E R model and relational model
		CO-4: Understand Functional Dependency and apply various normalization techniques.
		CO-5: Understanding the concept of DDL and DML and Clauses.
		CO-6: Design a relational database system (Oracle, My SQL) by writing SQL using the system.
UG-BSc-CPS-SEM-5	B. Sc. Sem. V Net Technology and Java Programming	CO-1: Design and develop professional console and window based .NET application.
		CO-2: Construct classes, methods, and assessors, and instantiate objects.
		CO-3: Design and Implement Windows Applications using Windows Forms.
		CO-4: Create a program to connect with database and manipulate the records in the database using ADO .NET
		CO-5: Apply object oriented programming features and concepts for solving given problem.
		CO-6: Use java standard API library to write complex programs
		CO-7: Implement object oriented programming concepts using java
UG-BSc-CPS-SEM-6	B. Sc. Sem. VI Advanced Java and VB.Net	CO-1: Understand the basic structure of VB.Net and features of IDE
		CO-2: Develop programs using primitives and constructs in VB .NET
		CO-3: Handle controls in Forms (message Box, Input Box), Windows MDI forms and Controls (Textbox, Creating Multiline, Word Wrap textboxes)

		CO-4: Understand various controls in VB.NET and able to develop programs using controls
		CO-5: Connect database by using ADO.NET and manipulate the database
		CO-6: Identify Java code utilities in applets, Java packages, and classes.
		CO-7: Write Java code using advanced Java features.