



SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S

SHRI SHIVAJI ARTS, COMMERCE AND SCIENCE COLLEGE, MOTALA, DIST. BULDHANA

(NAAC Re-accredited with C Grade with CGPA 1.86)

ISO 9001: 2015 Certified College



3rd Cycle
Assessment & Accreditation by NAAC

CRITERION – II TEACHING, LEARNING AND EVALUATION

QIM – 2.6.1

*Programme Outcomes (POs) and
Course Outcomes (COs) for all
Programmes offered by the institution
are stated and displayed on website*



Shri Shivaji Education Society Amravati's
**SHRI SHIVAJI ARTS, COMMERCE & SCIENCE COLLEGE,
MOTALA, DIST. BULDHANA (M.S.)**

(NAAC Re-accredited with C Grade with CGPA 1.86)



○ College Code : 317 ○ E-mail : ssacscm317@gmail.com ○ Website : www.sscmotala.ac.in ○ Cell No. : 9422945519 ○

Shri. Harshvardhan P. Deshmukh

President
Shri. Shivaji Education Society, Amravati

Dr. Gajanan N. Jadhao

M.A., Ph.D., B.Ed.
Principal

Outward No. SSACSCM/.....

Date: 20/05/2023

Declaration

This is to certify that the information, reports, true copies of the supporting documents, numerical data, etc. furnished in this file have been verified by the IQAC and the Head of the Institution. The data is found correct.

Hence the certificate.


IQAC CO-ORDINATOR
Shri Shivaji Arts, Commerce
and Science College, Motala




Principal
Shri Shivaji Arts, Commerce
& Science College Motala,
Distt. Buldana

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Response to the QIM

2.6.1 - Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

The institution works to provide students with outcome-based education that fosters critical thinking and problem-solving skills, participatory learning, and experiential learning. As a result, the institution is aware of the significance of learning outcomes (POs and COs). Affiliated to Sant Gadge Baba Amravati University Amravati, the college follows university syllabi for its teaching, learning, and evaluation processes. In order to promote the overall development of the students, the institution developed learning outcomes for the programmes and courses it offers at the undergraduate and post-graduate levels in accordance with the syllabi established for those programmes and courses by Sant Gadge Baba Amravati University, Amravati. By taking into account the course syllabi, the teachers of every faculty and department frame and finalise the learning outcomes.

The Programme and Course Outcomes (POs and COs) are posted on the departmental notice boards and the college website, <https://www.sscmotala.ac.in>. During the induction programme for first-year students, the Principal, the IQAC coordinator along with faculty members share the Programme and Course Outcomes (POs and COs) with the students. These learning objectives are shared in the classrooms by the subject teacher. Recently, our affiliating university adopted the Choice Based Credit System (CBCS) pattern (Sem.1 & Sem.2) and implemented the same for first year of all faculties in the undergraduate and post-graduate programmes. Accordingly, they have also been displayed. All the departments of the college and library both have access to the Programme and Course Outcomes (POs and COs).

PROGRAM OUTCOMES (POs)



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

PROGRAM OUTCOMES (POs)

FACULTY OF ARTS/HUMANITIES/ SOCIAL SCIENCES

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

After completion of the graduation in the faculty of Arts/ Humanities/ Social sciences, the student would be able to...

PO-1 Acquire in depth knowledge with facts and figures related with subjects such as Languages, History, Economics, Political Science, Philosophy, Music, English Literature, Marathi, Literature etc.

PO-2 Understood the basic concepts, fundamental principles, and various theories in the above mentioned subjects

PO-3 Realized the importance of literature in creating aesthetic, mental, moral, intellectual development of an individual which they impart to create happy and healthy society.

PO-4 Understood how issues in social science influence literature and how literature can provide solutions to the social issues.

PO-5 Gain the analytical ability to analyze critically the literature and social issues, appreciate the strength and suggest the improvements for better results.

PO-6 Convince them that study of literature and social sciences not only help to enhance better individual and better society but also help to make the life of an individual more happy and meaningful.

PO-7 Participate in various social and cultural activities, voluntarily and may get engaged in Writing articles, novels, stories to spread the message of equality, nationality, social harmony, etc.

PO-8 Emerge as a multifaceted personality who is self defendant; earning his own bread and butter and also creating opportunities to do so.

PO-9 Realize that pursuit of knowledge is a lifelong process and in combination with untiring efforts and positive attitude are necessary qualities for leading a successful life.

PO-10 Develop various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively for his/ her own development and ultimately development of society.

FACULTY OF COMMERCE AND MANAGEMENT

PROGRAM OUTCOMES OF B. COM. PROGRAMMES [UG Level]

After completion of Bachelor's Degree in Commerce and Management, the students would

PO-1 Enable learners to get theoretical and practical exposure in the commerce sector which includes Accounts, Commerce, Marketing, Management, Economics & Environment etc.

PO-2 Develop communication skills and build confidence to face the challenges of corporate world.

PO-3 Enhance the capability of decision making at personal and professional levels.

PO-4 Make students capable for industry, develop various managerial and accounting skills for better professional opportunities.

PO-5 Develop entrepreneurial skills amongst learners.

PO-6 Strengthen their capacities in various areas of commerce and industry aiming towards holistic Development of learners.

PO-7 Thus, after completing their graduation learners develop a thorough understanding of the Fundamentals in Commerce and Finance.

PROGRAM OUTCOMES OF M. COM. PROGRAMMES [PG Level]

After completion of Master's Degree in Commerce and Management, the students would

PO-1 Critical Thinking: Develop the ability to completely evaluate new ideas, research findings in evaluation to business and commerce related issues.

PO-2 Communication Skills: Ability to communicate ideas effectively in both written and oral formats develops communicate business analysis to the static holder and clean effective and appreciate manner

PO-3 Team Spirit: Work collaboratively and productively in group.

PO-4 Social Responsibility: Recognize and understand the ethical and moral responsibility of the individuals and organization in society.

PO-5 Global Citizen: Evolve into a global citizen who understands the duties for the welfare of our society and country.

PO-6 Managerial Skills: Ability to complete knowledge into performance makes business decision through capability to interact and motivate and understand concept, develop ideas and implement strategies.

PO-7 Employability: Prepare students for employment in various fields like chartered accountancy, company secretary, banking sector, business management etc.

FACULTY OF SCIENCE AND TECHNOLOGY

PROGRAM OUTCOMES OF B.Sc. PROGRAMMES [UG Level]

The under-graduate students, after completing their study of B.Sc. programme must acquire following characteristics attributes of science graduate:

PO-1 Scientific Knowledge and Experimental Skills: The graduates must be able to demonstrate fundamental concepts in science and apply it in relative specialized areas like research & development, teaching and government, social or public services.

PO-2 Communication skills: The graduates must be able to transmit complex scientific and technical information in clear and concise manner relating to all areas of science subjects he studied

PO-3 Critical Thinking & Problem Solving ability: The graduates must be able to employ critical thinking and problem solving skills find appropriate solutions for the scientific and technical problems in the field related science subjects.

PO-4 Team leading and working capability: The graduates must be capable to work independently as well as a team leader or a member.

PO-5 Project Management: The graduates must be able to identify and mobilize the appropriate resources to manage and complete the undertaken project by observing responsible & ethical conduct and also with laboratory safety and hygiene.

PO-6 Digital Proficiency to use Modern Digital Tools: The graduates must be capable to use modern digital tools like computer, software and ICT for teaching, simulating the ideas and statistical or analytical data analysis.

PO-7 Environmental and Societal Consciousness: The graduates must be aware about the environmental & the societal problems and must be capable to use and demonstrate the scientific knowledge to address these problems and to find appropriate solutions thereof

PO-8 Ethics and Human values: The graduates must be capable to think and behave rationally on the ethical issues they come across at their work place. Also, the graduates should adopt human values to keep harmony with individuals and with human beings.

PO-9 National perspective: The graduates must be able to develop national perspective for their career in the chosen field so that they could play a vital role in contributing in national development

PO-10 Lifelong Learning: The graduates should adopt lifelong learning to keep pace with emerging trends in academics, research and developing technology.

COURSE OUTCOMES (COs)



Shri Shivaji Education Society Amravati's

Shri Shivaji Arts, Commerce and Science College,

Motala, Dist. Buldhana



President

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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. |

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|-----------------------|---|---|
| | | 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- | 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 |

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| BA/UG-B. Com/UG-B. Sc.1-ENG-SEM-6 | | 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 | B. A. Sem. II Economy of Maharashtra | CO-1: Understand Geographical and Economical Features of Maharashtra |
| | | CO-1: Understand Agriculture in Maharashtra state. |
| | | 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. |

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| | | 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 Provisions and Local Self Government | CO-1: Salient features of the Indian Constitution, Nature and importance of Preamble, Fundamental Rights of Citizens. |
| | | 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 | B. A. Sem. V Modern Concepts and Policy in Politics | 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. |

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| | | 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. |
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| 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. |

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| | | 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 IInd 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. |

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| 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 farm 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 prefect 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 polices. |
| | | 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. |

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| | | 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-filling 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 |
| UG-BCom2-CostAc-SEM-5 | B.Com. Sem. V Cost Accounting | CO-1: Difference between Cost Accounting and Financial 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 |

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| | | 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 |
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| 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 Fundamental and Operating System-I | CO-1: Application of CIBIL Score in qualifying the proposal of advances |
| | | CO-2: Impact of Monetary Policy on various industries |
| | | 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. |

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| | | <p>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.</p> <p>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.</p> |
| PG-MCOM-SM-SEM2 | M.Com. Sem. II Strategic Management | <p>CO-1: demonstrate decision making ability and dynamism.</p> <p>CO-2: understand major theories, background work, concept and research output in the field of strategies management.</p> <p>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.</p> <p>CO-4: demonstrate practical situation for diagnosing and solving organizational issues.</p> <p>CO-5: relate theories and device application of it.</p> |
| PG-MCOM-MC&OB-SEM2 | M.Com. Sem. II Management Concept & Organizational Behavior | <p>CO-1: decision making process both at individual level and in group.</p> <p>CO-2: understand Power, Politics, and Accomplishing organizational goals.</p> <p>CO-3: demonstrate ability to manage conflicts.</p> <p>CO-4: determine Leadership style according to the situation.</p> |
| PG-MCOM-CAB-SEM2 | M.Com. Sem. II Computer Applications in Business | <p>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.</p> <p>CO-2: demonstrate and understanding of accounting theory. Apply accounting procedure by using computer accounting software. Perform accounting reports and records.</p> <p>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.</p> <p>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.</p> <p>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.</p> |
| PG-MCOM-RM-SEM3 | M.Com. Sem. III Research Methodology. | <p>CO-1: Demonstrate the ability to choose methods appropriate to research aims and objectives</p> <p>CO-2: Understand the limitations of particular research methods.</p> <p>CO-3: Develop skills in qualitative and quantitative data analysis and presentation.</p> <p>CO-4: Develop advanced critical thinking skills.</p> <p>CO-5: Demonstrate enhanced writing skills.</p> |
| PG-MCOM-SA-SEM3 | M.Com. Sem. III Statistical Analysis. | <p>CO-1: become conversant with the corporate assessment.</p> <p>CO-2: become conversant with the concepts of corporate tax planning and Indian tax law</p> <p>CO-3: perform parametric and non-parametric test and association of attributes.</p> <p>CO-4: perform probability theory, probability distribution, statistical decision theory and parabolic curve method.</p> <p>CO-5: perform analysis of time series manually.</p> |
| PG-MCOM-CTPM-SEM3 | M.Com. Sem. III Corporate Tax Planning & Management. | <p>CO-1: conversant with the corporate assessment..</p> <p>CO-2: become conversant with the tax planning and financial management.</p> <p>CO-3: Students are able to become conversant with the tax planning and financial management.</p> <p>CO-4: become conversant with special tax provisions relating to free trade zones.</p> <p>CO-5: become conversant with tax planning with reference to amalgamation of companies</p> |

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| PG-MCOM-CLS-SEM ₃ | 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-SEM ₄ | 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-SEM ₄ | 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-SEM ₄ | M.Com. Sem. IV Sales and Distribution Management | CO-1: 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-SEM ₄ | 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 |
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| 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 principal 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.. |

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| | | 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. |

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| | | 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 |
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| 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. |
| | | CO-7: 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. |

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| | | 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 biomolecules 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 |
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| 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. |
| | | CO-3: 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. |

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| | | 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 |
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| 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. |

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| | | 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: Perform 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 |

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| | | 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 | B. Sc. Sem. VI Chemistry | CO-1: Knowledge of different reaction SN ₁ and SN ₂ substitution reaction |
| | | CO-2: Understand various concept of Beer's 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 |

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| | | 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 | |
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| 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 | | CO-1: Students learn about sequence and their convergence using different test. |

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| | B. Sc. Sem. III Mathematics (Advance Calculus) | 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. |
| | | CO-5: To solve the double and triple integrations. |
| | B. Sc. Sem. III Mathematics (Elementary Number Theory) | 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. |
| | | CO-5: Students are able to effectively communicate mathematics. |
| | UG-BSc-MATHS-7&8-SEM-4 | B. Sc. Sem. IV Mathematics (Advance Calculus) |
| 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. | | |
| CO-5: Extend group structure to finite permutation group. | | |
| B. Sc. Sem. IV Mathematics (Classical Mechanics) | | 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. |
| | | CO-5: Different principles to study motion of particles and study the motion of a rigid body. |
| UG-BSc-MATHS-9&10-SEM-5 | B. Sc. Sem. V Mathematics (Mathematical Analysis) | 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. |
| | | CO-5: Understand purpose and functions of the gamma and beta functions. |
| | B. Sc. Sem. V Mathematics (Mathematical Methods) | 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. |
| | | CO-5: To understand Fourier transforms. |
| UG-BSc-MATHS-11&12-SEM-6 | B. Sc. Sem. VI Mathematics (Linear Algebra) | 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. |

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| | | 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 |
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| 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 aml C-4- I | CO-1: I understand the concept or 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 lbr 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 | | CO-1: Design and develop professional console and window based .NET application. |

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| | B. Sc. Sem. V Net Technology and Java Programming | 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 |
| | | 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. |

COURSE OUTCOMES (COs)
(CBCS PATTERN)



Shri Shivaji Education Society Amravati's

Shri Shivaji Arts, Commerce and Science College,

Motala, Dist. Buldhana



President

Principal

Hon'ble Harshwardhan P. Deshmukh

Dr. Gajanan N. Jadhao

COURSE OUTCOMES (COs) (CBCS PATTERN)

FACULTY OF ARTS/HUMANITIES/ SOCIAL SCIENCES

COs of B. A. Programmes (CBCS Pattern)

[UG Level]

Marathi Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
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| UG-CB-BA-MAR-SEM-1 | बी .ए .B. Com/B. Sc. भाग १, सत्र-१, मराठी)आवश्यक(| <p>CO-1: From the assigned literature, Jeevandarshan will get information about contemporary practical knowledge.</p> <p>CO-2: There will be knowledge of different types of conceptual fine poetry. They will know the uniqueness of this literary genre and understand the similarities and differences between them. Students will understand the creative form of language through conceptual prose. Also, students will get inspiration from the life work of a great person with character and success in life by overcoming adversity</p> <p>CO-3: The thought that it is happening will take root in their money.</p> <p>CO-4: Through the application of fine art, the students' knowledge of life will be enriched by attaining happiness, understanding, etc.</p> <p>CO-5: The perspective of the students will be enriched by conceptualism, philosophy, poetics, sentimentality, vision of abnormality in ordinary things.</p> <p>CO-6: Ability to understand, describe, appreciate, analyze and evaluate a variety of materials. The taste of students will grow and develop. Students will get the education of different types of ethics and life values from this literature. It will be used to live a better life. Through the applied</p> |

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| | | <p>component, various skills will be developed in them and they are employable will happen.</p> <p>CO-7: This study will be motivating to become a thinker, writer, poet. Will be helpful. Through this, students will understand how to use language creatively and produce different types of materials. Also they will be employable by practical application.</p> |
| UG-CB-BA-MAR-SEM-2 | <p>बी .ए .B. Com/B. Sc. भाग १, सत्र-2, मराठी)आवश्यक(</p> | <p>1. From the assigned literature, the life philosophy, contemporary practical awareness will be known.</p> <p>2. Vacharik, Lalit, Kavita will be known about various literary forms, they will know the uniqueness of this type of poetry and will understand the difference between them.</p> <p>3. Students will understand the creative form of language through conceptual prose.</p> <p>4. Also, students will get inspiration from the life work of a noble person with character and the idea that success in life can be overcome by overcoming adversity will be instilled in them.</p> <p>5. By reading fine art works, happiness, understanding and knowledge etc. are obtained and related to the student's life Senses will be enriched.</p> <p>6. Conceptualism, philosophy, poetics, sentimentality through the vision of abnormality in ordinary things..</p> <p>7. The perspective of the students will be clear. By increasing the ability to understand, describe, appreciate, analyze and evaluate a variety of materials. 8. Students will develop their taste.</p> |
| | | <p>9. The students will get the education of different types of ethical values and life values from this form of magic. 10. It will be used for better living</p> |
| UG-CB-BCom-MAR-SEM-2 | <p>Programme: Bachelor of Commerce Part-1, Session -II</p> | <p>1. From the assigned literature, life philosophy, contemporary practice awareness will be known. There will be knowledge of various types of literature such as conceptual, fine, poetry. Knowing the uniqueness of this Vad.maya type. It will be taken and the difference between these will be understood.</p> <p>2. Students will understand the creative form of language through conceptual prose. Also, students will get inspiration from the life work of great people with character and overcome the crisis and become successful in life. This thought will take root in their money.</p> <p>3. Life related to the students by getting pleasure, understanding knowledge etc. from reading fine art works ideological. Senses will be enriched.</p> <p>4. The perspective of the students will be enriched by philosophy, poetics, sentimentality, vision of abnormality in ordinary things.</p> <p>5. Students will develop their taste by increasing their ability to understand, describe, appreciate, analyze and evaluate different types of literature.</p> <p>6. Students will learn different types of ethics and life values from this form of drama, which will be used to lead a good life.</p> <p>7. Through the 'applied' component they will develop various skills and become employable.</p> <p>8. This study will be motivating and helpful to become a thinker, writer, poet.</p> <p>9. Through this, students will understand how to use language creatively and produce different types of materials. Also they will be employable by practical application.</p> |

English Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
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| UG-CB-ENG-SEM-1 | | CO-1: Understand the basic knowledge of English language and literature |

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| | B. A./B. Com/B. Sc. Sem. I Compulsory English | CO-2: Understand the relation between literature and real life |
| | | CO-3: Understand and interpret the prose, poem, short stories |
| | | CO-4: Write the News Report, Letter, Essay, Paragraph etc. |
| | | CO-5: Avail the pleasure of literary forms such as Novel, Poem, Play etc. |
| | | CO-6: Develop interview technique, Reading Skills, Writing Skills and Speaking Skills. |
| | | CO-7: Enhance the interest in English Language. |
| | | UG-CB-ENG-SEM-2 |
| CO-2: Understand the relation between literature and real life. | | |
| CO-3: Understand and interpret the prose, poem, short stories. | | |
| CO-4: Write the News Report, Letter, Essay, Paragraph etc. | | |
| CO-5: Avail the pleasure of literary forms such as Novel, Poem, Play etc. | | |
| CO-6: Develop interview technique, Reading Skills, Writing Skills and Speaking Skills. | | |
| CO-7: Enhance the interest in English Language | | |
| UG-CB-BA-ENGL-SEM-1 | B. A. Sem. I 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 their critical thinking skills |
| UG-CB-BA-ENGL-SEM-2 | B. A. Sem. II 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 their critical thinking skills |

Economics Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
|---|---|---|
| UG-CB-BA-ECO-SEM-1 (1022) | B. A. Sem. I Micro Economics | CO-1: Apply knowledge and skill in the field of Economics and will be able to have the employability in these areas. |
| | | CO-2: Describe and apply the methods for analyzing consumer behavior through demand and supply, elasticity.. |
| | | CO-3: Perform analysis to analyze the impact of economic events on Markets, |
| | | CO-4: To create a new approach towards the study of Economics. |
| | | CO-5: The course will illustrate how microeconomic concepts can be applied to analyze real-life situations |
| | | CO-6: Analyze the performance of firms under different market structures, |
| | | CO-7: Evaluate the factors affecting firm behavior, such as production and costs |
| | | CO-8: To have better awareness regarding different Factors Pricing Rent, Wages, Interest, and Profit |
| UG-CB-BA-ECO-SEM-2 (1022) | B. A. Sem. II Economy of Maharashtra | CO-1: Develop ideas of the basic characteristics of Maharashtra's economy and its potential for natural resources. |
| | | CO-1: Understand agriculture as the foundation of economic growth and development, analyze the progress and changing nature of the agricultural sector and its contribution to the economy as a whole |
| | | CO-2: Understand Industry and Infrastructure in Maharashtra |
| | | CO-3: Understand the role of Agriculture in Economy of Maharashtra. |
| | | CO-4: Study the issue of farmer's suicide in Maharashtra. |
| CO-5: Study the concept of FDI and its trends in Maharashtra. | | |

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| | | CO-6: Consider the role of Industry and Service sector in Economy of Maharashtra |
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Political Science Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
|--------------------|---------------------------------------|---|
| UG-CB-BA-POL-SEM-1 | B. A. Sem. I Indian Political System | CO-1: Understand and explain the significance of Indian constitution as the fundamental law of the land. |
| | | CO-2: To know the making process of the constitution and salient features of Indian constitution. |
| | | CO-3: Exercise the fundamental rights in proper sense at the same time identifies his responsibilities in national building. |
| | | CO-4: Analyze the Indian Political System, the powers and functions of the Union, State Government in detail. |
| | | CO-5: Critically analyzing the important institutions of Indian Union: The Executive: President, Vice-President, Prime Minister, Council of Ministers, State Executive: Governor, Chief Minister, Council of Ministers, The Legislature: RajyaSabha, LokSabha, State Legislature, The Judiciary: Supreme Court and High Court: Composition and jurisdictions. |
| | | CO-6: To make conscious of the social, cultural, economic and political environment that affects politics in India, at the national as well as regional levels. |
| UG-CB-BA-POL-SEM-2 | B. A. Sem. II Indian Political System | CO-1: Understand and explain the significance of Election Commission of India |
| | | CO-2: know the powers and role of Governor, Chief Minister & Council of Minister |
| | | CO-3: Understand structure & powers of Legislative Assembly and Legislative Council |
| | | CO-4: Explain the structure and jurisdiction of High Court and District Court |
| | | CO-5: Know the Composition Function and Powers of Gram panchayat & Gram Sabha |

History Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
|--------------------|--|---|
| UG-CB-BA-HIS-SEM-1 | B. A. Sem. I History of India from Early to 700 A.D | CO-1: Survey the sources of History of Ancient India. |
| | | CO-2: Describe the social, economic, religious and institutional bases of Ancient India. |
| | | CO-3: Analyze development of the concept of Nation- State background of political history. |
| | | CO-4: Study ancient Indian Art & Architecture |
| UG-CB-BA-HIS-SEM-2 | B. A. Sem. I History of India from Early to 701 A.D to 1525 A.D. | CO-1: Survey the sources of History in Sultanate period of India. |
| | | CO-2: Analyze the social, economic, religious and institutional bases of Sultanate period of India. |
| | | CO-3: Known development of the concept of Nation- State background of political history. |
| | | CO-4: Study Sultanate period of India Art & Architecture |

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 Should be able to.. |
|-----------------------|--|---|
| UG-CB-BCom-PA-SEM-1 | B.Com. Sem. I Principle of Accountancy | CO-1: Understand important basics 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-CB-BCom-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-CB-BCom-PBM-SEM-1 | B.Com. Sem. I Principle of Business Management | CO-1: clear understanding of managerial functions |
| | | CO-2: Students will have the knowledge of planning process in the organization. |
| | | CO-3: demonstrate the ability to directing, leadership and communicate effectively. |
| | | CO-4: analyze isolate issues and formulate best control tools and techniques |
| UG-CB-BCom-CFO1-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-CB-BCom-CFOP-SEM-1 | B.Com. Sem. I Computer Fundamental And Operating System-I (Practical) | CO-1: Prepare new document using Templates |
| | | CO-2: Change font size & font color |
| | | CO-3: Change line spacing of Paragraph |
| | | CO-4: Change case of Paragraph |
| | | CO-5: Create Bullets, Numbering list |
| | | CO-6: Create Subscript & Superscript |
| | | CO-7: Decrease and Increase of Paragraph indent |
| | | CO-8: Insert Header & Footer in document |
| | | CO-9: Page Setup of Document |
| | | CO-10: Insert Page break, Section break, Columns |
| | | CO-11: learn to final Proofing and printing documents |
| | | CO-1: Rectification of Journal entry |

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| UG-CB-BCom-FA-SEM-2 | B.Com. Sem. II Financial Accounting | CO-2: acquire the knowledge of nonprofit organization day |
| | | CO-3: Prepare the all types of cooperative society account |
| | | CO-4: acquired partnership farm accountancy |
| | | CO-5: The bill of exchange contest and unconditional order to pay a create amount on as agree |
| UG-CB-BCom-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-CB-BCom-PBO-SEM-2 | B.Com. Sem. II Principle of Business Organization | CO-1: To 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 and develop optimal managerial decisions. |
| UG-CB-BCom-CFO2-SEM-1 | B.Com. Sem. II Computer Fundamental & Operating System II | CO-1: Get basic introduction of Computer and mobile operating systems |
| | | CO-2: Know concept of windows versions. |
| | | CO-3: Create and delete file in File Explorer |
| | | CO-4: Know concept of modern communication and network topologies |
| | | CO-5: Create e-mail account and compose e-mail massage. |
| | | 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 complete 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-CB-BCom-CFO2P-SEM-1 | B.Com. Sem. II Computer Fundamental And Operating System-II (Practical) | CO-1: Know how to organize files/folder in File Explorer |
| | | CO-2: Understand different customization setting in windows 10. |
| | | CO-3: Create windows login Account which is necessary for Windows10 |
| | | CO-4: Create table, utilizing existing Template provided by Microsoft and add customization Template according to user needs |
| | | CO-5: Add header and footer to long list of pages which is crucial |
| | | CO-6: Complete Mail Merge process |
| | | CO-7: Change layout of pages |
| | | CO-8: Create Presentation, designing slides and add different Transition and Animation effect to objects and Slide |

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 Should be able to.. |
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| PG-CB-MCom-ME-SEM-1 | | CO-1: Application of concepts of Managerial Economics in the process of business decision making |

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| | M.Com. Sem. I Managerial Economics | 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. |
| PG-CB-MCom-SMC-SEM-1 | M.Com. Sem. I Service Marketing & Customer Relationship Management | CO-1: Students will understand seven phases of marketing of service in depth. CO-2: Student will understand strategic issues peculiar of service marketing. CO-3: Students will 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-CB-MCom-Af&Ca-SEM-1 | 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 an getting result recognizes all revenues and operating expenditure. CO-5: Accounting for construction contracts is the allocator of contract revenue and contract. |
| PG-CB-MCom-BIS-SEM-1 | M.Com. Sem. I Banking & Insurance Services | CO-1: Application of CIBIL Score in qualifying the proposal of advances CO-2: Impact of Monetary Policy on various industries 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-CB-MCom-AMD-SEM-1 | 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: BEO tells you how many units of a product must be sold to cover the fix3d and variable cost of production The BEP is considered to measure of the margin of CO-5: Budgetary control is the process of preparation of budgets for various activities and company the budget figures for arriving at decision of any which to be elemental in future. Thus budget is a means and budgetary control is the end result .revenue and contract. |
| PG-CB-MCom-SM-SEM-1 | M.Com. Sem. II Strategic Management | CO-1: Demonstrate decision making ability and dynamism CO-2: Will 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. |

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| | | CO-5: Relate theories and device application of it. |
| PG-CB-MCom-MCOB-SEM-1 | M.Com. Sem. II Management Concept & Organizational Behavior | CO-1: Understand 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-CB-MCom-CABP-SEM-1 | M.Com. Sem. II Computer Application in Business (Practical) Skill Enhancement Course | CO-1: Describe what micro soft word 2013 and how it is useful in both personal and professional life. |
| | | CO-2: Create a new document, work with a document, format text insert and work with clip arts and pictures, use the mail merge, print documents and create high quality document designs and layouts. |
| | | CO-3: Enter the accounting transactions in computerized format and gate the financial results. |
| | | CO-4: Acquire the skill of financial decision making and interpret the financial statements as well as evaluation of stock of the end. |
| | | CO-5: Apply the micro soft office Excel program and modify a worksheet. Work with cell references |
| | | CO-6: Learn to use functions and formulas. Create and edit tables, charts and graphs. Import and export data. |

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 Should be able to.. |
|---------------------|---|---|
| UG-CB-BSc-PHY-SEM-1 | B. Sc. Sem. I Mechanics, Properties of matters, Oscillations & Relativity | CO-1 Discuss the basic concepts of rotational dynamics. |
| | | CO-2: Examine the phenomenon of simple harmonic motion, distinction between undamped, damped and forced oscillations along with the concept of resonance. |
| | | CO-3: Explain the superposition of simple harmonic motion and acquire the knowledge of ultrasonic waves, their production, detection and applications in different field. |
| | | CO-4: Determine the constants of elasticity and relate it with appropriate things. |
| | | CO-5: Interpret the postulates of special theory of relativity. |
| UG-CB-BSc-PHY-SEM-2 | B. Sc. Sem. II Electrostatics, Magnetostatics, | CO-1 Discuss the concept of scalars & vectors and their properties. |
| | | CO-2: Develop an understanding of Gauss law and its applications to obtain electric field in different cases. |

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| | Ultrasonic Waves and Acoustics, Network Theorems | CO-3: Formulate the relationship between electric displacement vector, electric polarization and dielectric constant. |
| | | CO-4: Distinguish between the magnetic effect of electric current, electromagnetic induction and the related laws in appropriate circumstances. |
| | | CO-5: Simplify electrical circuits by applying various network theorems. |

Botany Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
|---------------------|---|--|
| UG-CB-BSc-BOT-SEM-1 | B. Sc. Sem. I diversity of microbes , phycology, mycology and phytopathology | CO-1: understand microbial diversity, reproduction and economic importance |
| | | CO-2: differentiate the microbes, algae and fungi on the basis of morphology, cellular organization, nutrition and metabolic activities. |
| | | CO-3: classify and identify the various algal genera |
| | | CO-4: classify and identify the various fungal genera. |
| | | CO-5: Apply understanding of microbial diversity, phycology and mycology for teaching primary to high school students |
| UG-CB-BSc-BOT-SEM-2 | B. Sc. Sem. II Bryophytes, Pteridophytes, Gymnosperms and Morphology of Angiosperms | CO-1: demonstrate on understanding of Archegoniate, Bryophytes, Pteridophytes and Gymnosperms. |
| | | CO-2: identify and classify plants from Bryophytes, Pteridophytes and Gymnosperms. |
| | | CO-3: develop critical thinking on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms. |
| | | CO-4: acquire skill of collection and preservation of Bryophytes, Pteridophytes and Gymnosperms. |

Zoology Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
|---------------------|---|---|
| UG-CB-BSc-ZOO-SEM-1 | B. Sc. Sem. I Life and diversity of Animals (Non-chordata) | CO-1: Develop a deeper sense with respect to phylum Protozoa to Echinodermata relation to taxonomy, classification, body organization and general characteristics this strengthens students' capability in basic zoology. |
| | | CO-2: grasp various the Systematic positions from Protozoa to Echinodermata their pathogenicity and its epidemiology. |
| | | CO-3: describe unique characters and recognize life functions of Protozoa, Porifera, Coelenterate, Helminthes, Arthropoda, Annelida, Mollusca and Echinodermata. |
| | | CO-4: Improve ability and apply Knowledge of Non-chordates for its execution in Agriculture especially with the phylum Arthropoda.. |
| | | CO-5: Implement an extensive idea about economic and ecological significance of various non-chordates phylum's in human life. |
| UG-CB-BSc-ZOO-SEM-2 | B. Sc. Sem. II Life and diversity of Animals (Chordate) and concept of Evolution | 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 |

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| | | CO-5: explain the origin and evolutionary relationship in different subphylum's 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. |

Chemistry Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
|----------------------|--------------------------|--|
| UG-CB-BSc-CHEM-SEM-1 | B. Sc. Sem. II Chemistry | CO-1: Solve the conceptual questions using the knowledge gained by studying periodicity in atomic radii, ionic radii, and 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-CB-BSc-CHEM-SEM-2 | B. Sc. Sem. II Chemistry | CO-1: Analyze the given organic compound qualitatively by different tests. |
| | | CO-2: Prepare the derivative of the provided substance. |
| | | CO-3: Illustrate the practical skills in volumetric analysis. |
| | | CO-4: Differentiate types of titrations e.g. acid-base, redox, etc. |
| | | CO-5: Comprehend the kinetics of reactions and interpret the experimental data. |
| | | CO-6: Calculate, communicate and analyze the result. |

Mathematics Department

| Course Code | Name of the Course | Course Outcomes- After completing this course students Should be able to.. |
|-----------------------|---|---|
| UG-CB-BSc-MATHS-SEM-1 | B. Sc. Sem. I Algebra and Trigonometry | CO-1: find inverse and normal form of matrices. |
| | | CO-2: evaluate the characteristic equation, eigen value and corresponding eigen vector of a given matrix. |
| | | CO-3: evaluate relation between the roots and coefficients of equations. |
| | | CO-4: to study application of De Moivre's theorem. |
| | | CO-5: compute summation of trigonometric series. |
| UG-CB-BSc-MATHS-SEM-2 | B. Sc. Sem. II Vector Analysis and Geometry | CO-1: interpret the vectors, their products, differentiation and integration. |
| | | CO-2: determine curvature and torsion. |
| | | CO-3: apply the concepts of divergence, curls which are useful in physics. |
| | | CO-4: describe the different forms of sphere and properties. |
| | | CO-5: discuss the equations of cone and cylinder. |

Computer Science Department

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|---------------------|---------------|---|
| UG-CB-BSc-CPS-SEM-1 | B.Sc. Sem I | CO-1: Understand the computer, I/O and peripheral devices. |
| | | CO-2: Understand concept of Operating systems. |
| | | CO-3: Apply the Programming concepts. |
| | | CO-4: Learn C language. |
| | | CO-5: Write Simple C Programs. |
| UG-CB-BSc-CPS-SEM-2 | B.Sc. Sem. II | CO-1: Implement basic data structures such as arrays, stacks. |
| | | CO-2: Use linked list, trees and queues. |
| | | CO-3: Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data. |
| | | CO-4: Describe the procedural and object-oriented paradigm with concepts of streams, classes, functions, data and objects. |
| | | CO-5: Perform programming on functions, inline functions, constructor and destructor. |
| | | CO-6: Perform programming on the concept of function overloading, operator overloading, virtual functions and polymorphism. |