MODERN COLLEGE OF PROFESSIONAL STUDIES

Programme Outcomes

BACHELOR OF EDUCATION (B.ED.)

Program Outcomes (POs)
PO1: To develop the understanding about student -centric teaching methods, paradigm shift in conceptualizing disciplinary knowledge in school curriculum, necessary competencies for organizing learning experiences, select and use of appropriate assessment strategies for facilitating learning.
PO2: To apply teaching skills and dealing with classroom problems.
PO3: To transform the educational landscape by providing open access to quality, value based and socially relevant education to all.
PO5: To analysis of Curriculum, construction of blue print, selecting appropriate teaching strategies according to needs of students and conducting action research to solve classroom problems.
PO6: To acquaint with communication skills through various linguistic activities and applying it for better classroom communication.
PO7: To identify the diversities and dealing it in inclusive classrooms environment, guidance and counselling programmes for disabled students.
P08: To develop understanding about yoga, self-defence, sports, scouting-guiding and social entities and enable to cope up with adverse conditions of life.
PO9: To Enable to work as a member or leader in diverse teams and in multi-disciplinary settings by following the principles of collaborative learning, cooperative learning and team teaching.
PO10: Demonstrate the ability to connect with the community and provide solutions at educational, environmental, and social issues.
PO 11: Inculcate core values, Commitment to profession; honour diversity and ensure inclusion; ethical integrity.
PO12: To Develop an attitude of reflection, social entrepreneurship, innovation and ability to conduct research in related thrust areas.

Program Specific Outcomes (PSOs)

PSO1: To empower the student-teachers with professional competencies required to cope with the changing global scenario.

PSO2: To develop understanding about teaching, pedagogy, school management and community involvement.

PSO3: To develop professional attitude, teaching, digital and problem-solving skills in the student teachers to enable them to apply in relevant situations.

PSO4: To develop sensitivity about emerging issues such as environment, population, inclusion, gender, equality, etc.

Course Code	Course Name	Course Outcomes
CC-1or E-101	**Contemporary India and Education**	CO1: Explain development of education is influenced by socio-political forces of the time. CO2. Acquire the knowledge of features of education in ancient, medieval, and pre-independent period in India with them strengths and weaknesses. CO3. Discuss the contribution of various Committees and Commissions on education set up from time to time in the economic development of India. CO4. Reflect on the nature and role of disciplinary knowledge in the school curriculum and the paradigm shifts in disciplines with some discussion on the history of teaching of subject areas in schools.
CC-2 or E-102	**Philosophical And Sociological Perspective of Education**	CO1: Computes three basic questions-what? why & how of the Education. CO2: Establish understanding of contribution of Indian & Western philosopher. CO3: Construct their own view about different Indian Religion and respect them. CO4: Understand the different aspects of social and political set up in context of teacher education CO5: Assist one-self and society to empower people to assure responsibilities for creating sustainable future
CC-3 or E-103	**Growing Up as a Learner**	CO1: Attain the basic principles of psychology of learners. CO2: Describe learner characteristics and implications for teaching-learning. CO3: Defines learner's mental health problems & choose appropriate strategies to cope with such problems. CO4: Choose various psychological principles and approaches to learning. CO5: Acquaint the role of psychology in the teaching-learning process.

CC-4 or E-104	Teacher, Teaching and Technology	CO1: Define the basis of educational technology and to develop awareness about recent developments in the areas of educational technology. CO2: Acquaint with the various technologies to apply for improving instructional practices CO3: Create awareness about teaching skill required for effective instructional and institutional management. CO4: Apply Advanced Pedagogical approaches to meet the needs of diverse learners. CO5: Differentiate between instructional strategies in different classroom situations.
E-201	Pedagogy of Hindi	CO1: Describe the nature and characteristics of a language and mother tongue and the use of language. CO2: Acquaint with the required skill and their interlinks for mastering a language. CO3: Analyse the various approaches for planning for successful language teaching. CO4. Explain the Approaches for teaching different aspects of language. CO5: Describe the Aids and other similar available material that could be used for teaching language. CO6: Select the technique of obtaining feedback for self evaluation and evaluation of student's success in learning and using the language.
E-202	Pedagogy of English	CO1: Acquire proficiencies in listening, speaking, reading, and writing and communication skills. CO2: Acquaint with essential aspects of English Grammar and composition. CO3: Understand the scope of syllabi in English. CO4: Develop interest and attitude towards English as foreign language.
E-203	Pedagogy of Sanskrit	CO1: Understand the nature, scope values and objectives of teaching Sanskrit at Secondary level. CO2: Develop competence in teaching different topics of Sanskrit effectively. CO3: Develop scientific temper & provide teaching in scientific method to their student. CO4: Use various methods with appropriateness of content, level and classroom situations to make pupil's learning meaningful.
E-204	Pedagogy of Social Science	CO1: Define concept, meaning and scope of social sciences. CO2: Acquaint with the appropriate methodology as applicable to social sciences. CO3: Select the skill in teaching social sciences. CO4: Apply knowledge of various evaluation procedures and effective evaluation tools. CO5: Acquire the ability to develop instructional support materials.

E-205	Pedagogy of Mathematics	CO1: Illustrate nature, scope & importance of Mathematics at secondary level. CO2: Analyse the textbook& content of Mathematics at secondary level. CO3: Explain basic concepts in Arithmetic, algebra, and Geometry. CO4: Illustrate facts, terms, concepts, laws & principles in Mathematics. CO5: Apply basic concepts of Mathematics in daily life.
E-206	Pedagogy of Physical Science	CO1: Understand the nature, scope values and objectives of teaching science at Secondary level. CO2: Develop competence in teaching different topics of Physical Science effectively CO3: Develop scientific temper & provide teaching in scientific method to their student CO4: Use various methods with appropriateness of content, level and classroom situations to make learning meaningful. CO5: Utilize the instructional materials effectively in the teaching of Physical Science. CO6: Organize Co-curricular activities & practical work in Physical Science.
E-207	Pedagogy of Biological Science	CO1: Explain the nature, place, values and objective of teaching Biology at Senior Secondary level. CO2: Evaluate critically the existing syllabus of Biology prescribed for Secondary/Senior Secondary level. CO3: Develop yearly plan, unit plan and lesson for Senior Secondary classes. CO4: Use various methods and approaches of teaching Biology. CO5: Acquire the ability to develop instructional support system. CO6: Plan and organize biological practical in the Laboratory.
E-208	Teaching of Computer Education	CO1: Describe the principles and procedures used in computer science education. CO2: Apply Advanced Pedagogical approaches to meet the needs of diverse learners. CO3: Select the methods of teaching computer science and use them accordingly. CO4: Develop educational material using advanced pedagogical strategies and ICT tools.
E-209	Teaching of Home Science	CO1: Describe the nature and importance of Home Science and its correlation with other subjects CO2: Realize the essential unity between laboratory work and theoretical background of the subject. CO4: Analyze school syllabus of the subject in relation to its applicability to practical situation and adaptability of the curriculum to local needs. CO5: Utilize effectively the instructional material in teaching Home Science.

		CO6: Construct test items to measure objectives belonging to various cognitive levels.
E-210	**Teaching of Commerce**	CO1: Develop an understanding and use concept mapping and curricular elements in Financial Accounting teaching. CO2: Develop the ability to plan Curriculum in Financial Accounting at senior secondary level. CO3: Undertake Critical appraisal of existing Financial Accounting curriculum at senior secondary level. CO4: Describe the qualities of text book of Financial Accountancy. CO5: Develop necessary skills to prepare and use various instructional/learning methods and Media Integration. CO6 Create awareness about the Professional ethics of a Financial Accounting teacher.

<table>
<tr><td colspan="3" align="center">B.Ed.-2nd Year</td></tr>
</table>

E-301	**Creating and Inclusive School**	CO1: Explain the concept, meaning and significance of inclusive education. CO2: Illustrate the difference between Main School, Special School, Integrated school, and Inclusive School. CO3: Explain the need for and importance of Inclusive Education. CO4: Illustrate the National policies, programmes and Acts with respect to Inclusive Education in India. CO 6: Identify different types of disabilities. CO 7. Compare the nature and needs of different categories of disabled children. CO 8. Recognize concept, need for and importance of social, economic, and cultural inclusion. CO 10. Apply inclusive instructional strategies at school level. CO 11. Identify the infrastructural facilities necessary for inclusive set up. CO 12. Identify various issues and concerns related with creation of an inclusive culture in school.
E-302	**Gender, School, and Society**	CO1: Understand the process of social change and obstacles in social change. CO2: Try to bring social change through the process of education. CO3: Identify the limitations of social change and apply the principles of education in social context. CO4: Recognize the gender sensibility, issues related to gender in school. CO7. Identify the challenging gender inequalities in school and make attempt to establish positive attitude towards gender equality.
E-303	**Knowledge and Curriculum**	CO1: Explain the Epistemological basic of education CO2: Define curriculum in the context of school experiences, evaluation, power, ideology, process and practise & its transactional modes.

		CO3: Formulate new curriculum.
		CO4: Acquaint with the ability to read & comprehend.
		CO5: Acquire writing skill
E-304	**Work Education, Gandhiji's Nai Talim and Community Engagement**	CO1: Enumerate the concept of work and dignity of labour.
		CO2: Modify the importance of Gandhiji's ideas on Nai Talim.
		CO4: Evaluate the school education programmes and policies, which incorporates local community engagement aspects.
		CO5: Speculate the various Nai Talim approaches in every walk of life.
		CO6: Engage the learners in the local community services.
		CO7: Explain the school education programme and policies, incorporates local community engagement aspects.
		CO8: Engage the various Nai Talim approaches in every walk of life.
E-401	**Assessment for Learning**	CO1: Explain the of key concepts such as measurement & evaluation, assessment, test examination, formative & summative evaluation etc.
		CO2: Recognize the different kinds of assessment that aid student learning.
		CO3: Apply new trends in evaluation, tools of evaluation and their uses.
		CO4: Define the different characteristics of standardize test Reliability, validity, Norms, etc.
		CO5: Select and apply statistics in educational setting.
E-501	**Educational Administration and Management**	CO1: Explain the student teaches with the concept and concerns of educational administration.
		CO2: Define an understanding of the role of the headmaster and the teacher in school management.
		CO3: Describe the concept at importance of communication and its possible barriers in educational administration.
		CO4: Analyse the administrative scenario in relation to the functioning of the other secondary schools of the area.
		CO5: Apply scientific practices of educational management and keep him to apply it in work situation.
E-502	**Guidance and Counselling**	CO1: Explain the need for and importance of career information.
		CO2: Recognize their role and function in locating, collecting, evaluating, and disseminating career information.
		CO3: Predict one's ability, interests and aptitudes are related to world of work.
		CO4: Describe the importance of developing the right attitude and values at every stage of education.
E-503	**Environment Education**	CO1: Explain the concept of environmental education.
		CO2: Describe awareness about the environmental pollution, and possible hazards and its causes and remedies.
		CO3: Define responsibility towards conservation of environment, bio-diversity and sustainable development.

		CO4: Build understanding about the role of school and education in fostering the idea and learning to live in harmony with nature. CO5: Apply various measures available to conserve the environment for sustaining the development.
E-504	**Computer Education**	CO1: Apply knowledge of computers, its accessories and software. CO2: Acquire the skills of operating a computer in multifarious activities pertaining to teaching. CO3: Explain features of MS Office and their operations. CO4: Acquire skill of using MS-Word, Power points and Spread sheets. CO5: Apply the knowledge gained in process various data of students as well as simple library financial transaction of the school. CO6: Appreciate the value of CAI/CML packages on optional subjects and use them in classroom instruction. CO7: Acquire skill in accessing World Wide Web and Internet and global accessing of information. CO8: Explain the principles and procedures used in computer education.

Master of Education (M.Ed.)

Program Outcomes (POs)

PO1: To apply knowledge of Philosophy, Sociology, Psychology, Management, and ICT to establish the context of the teaching profession and advance teaching, research, and extension work in the field of education in general and Teacher Education Institutes in particular.

PO2: To develop the understanding about the basis, principles and process of curriculum development at primary and secondary level.

PO3: To demonstrate academic integrity and professional ethics by adhering to rules, regulations, values, and high standards in teaching, research, and administration in a variety of educational settings and Teacher Education Institutes.

PO4: To demonstrate a work spirit in a variety of situations and apply knowledge and skills to deal with educational issues in complex situations with considering rules, norms, and the social, cultural, and environmental context

PO5: To apply the knowledge of educational administration & management and other allied subjects like Philosophy, Sociology, Psychology etc. in academic planning, organization, evaluation, decision making, resource management according to predetermined goals, norms and standards.

PO6: To identify the educational needs and requirements, keeping academic development and learning in an independent way in the context of change in different aspects of education and teacher education.

PO7: To recognize areas of commitment, accountability, constitutional values, and national goals and perform accordingly.

PO8: Apply the knowledge & skills to deal with issues related to population, environment, gender equality, different literacy, Yoga & Health Education etc. and respond to emerging issues by applying critical, constructive and creative thought process.

PO9: Involve in knowledge dissemination, knowledge creation, research and innovative educational practices related to different stakeholders of education.

PO10: Perform Function effectively either in the role of member or leader in diversified educational settings and Institutions of Teacher Education.

PO11: Use diversified tools & technologies of communications and communication Skills to serve the professional purpose and standards expected from classroom to broader zone of educational activities.

PO12: Comprehend the concept of entrepreneurship and skill sets of an entrepreneur and exploration of different challenges of real-life situation.

Program Specific **Outcomes** (PSOs)

PSO1: To equip the students with the fundamentals of education and instilling educational leadership in them.

PSO2: To inculcate the skills relating to teaching, research, leadership, management computer etc.

PSO3: To Develop a deep critical understanding of the curriculum planning and designing and pedagogy to transact the curriculum effectively and testing the students.

PSO4: To produce morally and upright students who are to contribute in environmental sustainability and social development.

Semester-I		
Course Code	**Course Name**	**Course Outcomes**
CC1	**Philosophy of Education**	CO1: Appreciate the interrelationship between Philosophy and Education CO2: Appreciate the basic tenets, principles and developments of the major Indian Schools of Philosophy CO3: Appreciate Educational thoughts of Indian Philosophers. CO4: Appreciate the basic tenets principles and development of the major Western Schools of Philosophy. CO5: Acquaint of human values and role of education.
CC2	**Psychology of Learning and Development**	CO1: Explain the psychological basis of Education. CO2: Appreciate the contribution of the theories of development and personality. CO3: Explain the changing concept of Intelligence and creativity and its application. CO4: Identify and explain the models of Teaching and their utility in the Teaching learning process. CO5: Analyze the Theories of learning and their utility in the Teaching learning process. CO6: Recognize the framework of the process of learning. CO7: Visualize multiple dimension and stage of learner's development.
CC3	**Sociological Foundations of Education**	CO1: Understand the interrelationship between Sociology and Education. CO2: Apply the principals of sociology of education in learning process. CO3: Understand the role of new technology in the changing social content. CO4: Understand and analyze the changing nature of society and education in 21st century. CO5: Acquire the knowledge about the role of education in sustainable development. CO6: Creating a culture of peace in society.
CC4	**History of Indian Education and Economic Issues**	CO1: Understand the history of Education. CO2: Classify & Compare the characteristics of education system in the various era of Indian education. CO3: Analyses & compare the different aspects of growth of the national system of education. CO4: Describe & analyses the role of politics in education. CO5: Analyses the role of education in economic development.
M.Ed. Semester-II		
CC5	**Educational Studies and System**	CO1: Distinguish the widening horizons of education in globalization. CO2: Appreciate theory and research in an era of rapidly increasing racial, ethnic, linguistic, secular and caste-based diversity. CO3: Recognize the importance of interdisciplinary in education. CO4: Comprehend the use and impact of technology in education. CO5: Make available social service and leadership in culturally diverse, economically challenged democratic society through education. CO6: Reflect critically and creatively the process of teaching and learning about the place of education in society.

CC6	**Fundamental of Research Methodology**	CO1: Understand the concept & types of research and educational research. CO 2: Understand the steps involved in educational research. CO3: Apply knowledge of research and make use of different tools and techniques in educational research. CO4: Effective use the library, Internet Services and other sources of knowledge for educational research purpose.
CC7	**Perspective, Research and Issues in Teacher Education**	CO1: Identify issues and problems of Teacher Education. CO2: Appreciate the contribution of innovation in Teacher Education. CO3: Describe and conduct research in Teacher Education. CO4: Predict new trends of research in teacher education. CO5: Identify the challenges in professional development of teachers. CO6: Analyze the factors infecting the quality of in and pre service teacher education program in India. CO7: Explain the perspectives and practices of teacher education. CO8: Recognize the issues related to enhancing teacher competencies, commitment & performance.
CC8	**Educational Technology and ICT**	CO1. Explain the nature and scope of educational technology. CO2. Use ICT supported advance teaching learning strategies and its application in education. CO3: Apply recent innovations and future perspectives of education technology. CO4: acquaint with the challenges and opportunities emerging in integrating new technology in educational processes. CO5: Select, apply and create instructional material and media effectively. CO6: Create the ability for critical appraisal of the audio-visual media.
M.Ed. Semester-III		
CC10	**Testing, Measurement and Evaluation in Education**	CO1: Explain the meaning of testing, measurement, and evaluation. CO2: Apply the general principles of test constructions. CO3: Interpretation of test scores. CO4: Formulate and execute the teacher made test. CO5: Apply the concept of Grading system.
CC-12A	**Issues and Concerns in Secondary and Higher Secondary Education**	CO1: Understand the concept and history of secondary and higher secondary education in India. CO2: Comprehend the Psychological Bases for Secondary and Higher Secondary Education. CO3: Identify and analyze the different Structures of Secondary and Higher Education. CO4: Understand Global Perspectives of Secondary and Higher Secondary Education.
OC12B	**System and Structure of Secondary and Higher Secondary Education**	CO1: Define the different perspectives and context of secondary and higher secondary education. CO2: Comprehend the different policies and programmes of secondary and higher secondary education. CO3: Discuss the curriculum across different types of school in India.
Semester-IV (Specialization Course)		
CC13	**Curriculum Development**	CO1: Define the theoretical perspectives of curriculum. CO2: Develop students' analytical ability to assess the relevance of curriculum practice in the context of learner's development in socio cultural context and advancement of knowledge system.

		CO3: Apply the skills to design curriculum outline for a school programme.
CC14	**Education Management, Administration and Leadership**	CO1: Understand the concept, principals, and process of management skills required in the education.
		CO2: Explain the techniques of management of education scientifically.
		CO3: Apply the concepts techniques and process of management to the situation in education.
		CO4: Select the procedures of supervision and inspection and bring about improvement in the field of education.
		CO5. Acquaint with the various leadership theories and leadership styles.
OC15A	**Pre-Service and In-Service Teacher Education**	CO1: Describe the Concept of Teacher Education - Pre service & In-Service.
		CO2: Explain the nature and Agencies of Teacher Education.
		CO3: Acquire knowledge of levels of Teacher Education.
		CO4: Analyze the modes of curriculum transaction & it's development.
		CO5: Recognize the development of Teacher Education in India & comparing of Teacher Education with other developed Countries.
		CO6: Differentiate the modes of pre service teacher education.
		CO7: Explain objectives, functions and role of various agenesis of teacher education program.
OC17	**Guidance and Counselling**	CO1: Understand meaning, need and types of guidance.
		CO2: Familiar with the tools and techniques of appraisal of an individual.
		CO3: Familiar with the need and various ways of collection and dissemination of occupational information.
		CO4: Comprehend meaning characteristics and types of counselling.
		CO5: Familiar with process and techniques of Counselling.
		CO6: Explain the importance of placement and follow up services.
		CO7: Explain meaning, purposes and out-line of job-study.
		CO8: Comprehend about Counselling- research, issues and trends.

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

PO1: To develop students professionally to handle business issues.
PO2: To demonstrate technical competence in domestic and globalbusiness.
PO3: To equip with the professional ethics and corporate social responsibility of thebusiness towards society.
PO4: To demonstrate the critical and analytical thinking skills through case studies, roleplays and simulation-based games and activities.
PO5: To apply technological knowhow for business advancements.
PO6: To develop Entrepreneurship Acumen.

PO7: To conceptualize a complex issue into a coherent written statement and oral presentation
PO8: To demonstrate knowledge and understanding of the management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO9: To comprehend the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO10: To encompass ethical principles and commit to professional ethics and responsibilities and norms of the Management practice.

PSO1: To determine the various PEST (Political, Economic, and Social Technological) factors influence on changes of business environment.
PSO2: To analyze the various aspect of business research in the area of marketing, human resource and finance.
PSO3: To determine conceptual and analytical abilities required for effective decision making.
PSO4: To analyze the theoretical knowledge with the practical aspects of Organizational setting and techniques or management.

Course Outcomes			
S. No.	Course Name	Course Code	Course Outcomes
1	**Fundamentals of Management**	BBA 101	CO1: To Understand the concept of Management, its levels and functions.
			CO2: To Determine the managerial roles and skills, with special attention to managerial responsibility for effective and efficient achievement of goals.
			CO3: To Understand the planning process, its types and various decision-making models.
			CO4: To Ascertain the nature of organization structure, and its different types explaining Span of Control.
			CO5: To Understand directing principles, its components and apply the control methods.
2.	**Organizational Behavior**	BBA 102	CO1: To Become effective leaders by addressing the human side of enterprise.
			CO2: To Understand individual behavior in organizations, including attitudes, job satisfaction, emotions, personality, values, perception, decision making, and motivational theories.
			CO3: To Comprehend group behavior in organizations, including communication, leadership, power and politics, conflict, and negotiations.
			CO4: To Understand the organizational system, including organizational structures, culture, human resources, and change.
3	**Managerial Economics**	BBA 103	CO1: Develop Understanding to take business decisions in different business situation using theory and concept.
			CO2: To analyse consumer behaviour and their utility for their consumption through utility, consumer equilibrium, indifference curve & demand concept.
			CO3: To apply the concept of demand and elasticity practically.
			CO4: To evaluate the relationship between price and output determination in different market structure.
			CO5: To demonstrate future demand of a product using qualitative and quantitative techniques.
4	**Accounting and Financial Analysis**	BBA 104	CO1: To demonstrate a good understanding the concept of double entry system and principles of accounting.

			CO2: To apply critical thinking and problem-solving skill for preparation of trading and profit and loss account and balance sheet of sole trader.
			CO3: To understand of various methods of maintaining accounts of Departments.
			CO4 To comprehend accounting for branches and departments
			CO5: To develop understanding about the accounting of single-entry system and its difference with double entry system.
5	**Business Law**	BBA 105	CO1: To analyse awareness of law related to sales of goods, the unpaid seller
			CO2: To understand about creation and termination of the contract of agency
			CO3: To understand the different provision related to negotiable instruments
			CO4: To understand consumer protection measures available in India
			CO5: To exercise the applicability of IPR, filing and infringement of IPR
6	**Business Organization and Ethics**	BBA 106	CO 1: To comprehend the concepts of Business.
			CO 2: To understand that how to established a new business.
			CO 3: To analyze the scale of business.
			CO 4: To Comprehend the use of ethics in business.
			CO 5: To validate, or correct, personal ideas about various ethical perspectives
7	**Environmental Studies**	BBA 008	CO1. To Memorise the concepts related to the ecological biodiversity of our planet.
			CO2. To Interpret important processes associated with the evolution of life on earth.
			CO3. To Apply the concepts related to ecology for sustainable life on earth.
			CO4. To Analyse the importance of wildlife protection and its role in preserving the food chain.
			CO5. To evaluate the methods of prevention and safety from pollutants.
8	**Quantitative Techniques for Business**	BBA-201	CO-1. To understand the key terminologies, concepts, tools and techniques of Quantitative techniques.

9			CO-2. To calculate and interpret the simple regression equation for a set of data.
			CO-3. To apply probability rules and theoretical distributions to solve problems.
			CO-4. To analyse time series data and its components by various methods.
			CO-5. To know about association of attributes and inferential aspects such as test of hypotheses and associated concepts.
9	**Business Communication**	BBA-202	CO 1: To analyze the elements of the business communication process.
			CO 2: To Prepare effective business documents, including memos, email, letters, and reports.
			CO 3: To Practice business English clearly, concisely, and correctly.
			CO 4: To understand reporting to management.
			CO 5: To Improve interpersonal communication.
10	**Human Resource Management**	BBA-203	CO1: develop an understanding of the concepts of HRM and its importance in the organization.
			CO2: To inculcate the essential skill sets required to function as an HR manager.
			CO3: To integrate the knowledge of HR concepts to take the best managerial decisions.
			CO4: To contribute to the implementation and evaluation of plans related to employee recruitment, selection, appraisal processes in
			CO5: To evaluate and implement employee training and development programs.
11	**Marketing Management**	BBA-204	CO1: To understand the basic concepts, importance of marketing and the marketing environment.
			CO2: To explain the concepts related to consumer behaviour and market segmentation.
			CO3: To analyse the concept of product, branding and product life cycle.
			CO4: To understand the concepts of pricing and distribution.
			CO5: To demonstrate the concepts of promotion and promotion mix.

12	**Business Environment**	BBA-205	CO 1: To discuss the supply and demand theory and its impact on insurance.
			CO 2**:** To explain the effects of government policy on the CO nomic environment and insurance industry.
			CO3**:** To **o**utline how an entity operates in a business environment.
			CO 4: To describe how financial information is utilized in business.
			CO 5: To explain the legal framework that regulates the insurance industry
13	**Fundamentals of Computer**	BBA-206	CO 1: To determine the list of technologies used in computer Applications.
			CO 2: To create sheets in MS-Excel.
			CO 3: To understand the input and output devices of computer.
			CO 4: To generate and maintain account books
			CO 5: To design presentation in PowerPoint.
14	**Assessments on Soft Skill Based on Presentations/ G.D/ Personality traits**	BBA-207	CO 1: To deliver business presentations.
			CO 2: To comprehend and apply effective employment interviewing strategies.
			CO3: To understand various channels of business communication.
			CO4: To inculcate business communication technologies.
			CO 5: To denvelop an understanding of and practice personal and professional responsibility.
15	**Advertising Management**	BBA 301	CO 1**:** To remember and comprehend basic advertising concept
			CO 2: To analyze advertising Insights on application of basic advertising concepts.
			CO 3: To apply and develop Advertising Strategies and Plans
			CO 4: To apply an IMC approach in the development of an overall advertising and promotional plan.
			CO 5: Enhance creativity, critical thinking and analytical ability through developing an integrated marketing communication campaign

16	**Indian Banking System**	BBA 302	CO 1: To analyze the concept of Financial System, Financial Markets, Stock exchanges and Financial Services
			CO 2: To acquire knowledge of stock market procedures
			CO 3: To develop strategies, financial plan of action
			CO 4: To evaluate option to take out investment profitability.
			CO5: To analyze the Emerging Trends in the Indian Banking Sector
17	**Human Resource Management**	BBA 303	CO 1: To identify the concept of human resource and define the different aspects of HR.
			CO 2: To understand the planning process of HR and to articulate its different elements accurately.
			CO 3: To determine the sources of recruitment and selection process.
			CO 4: To analyse the training related needs and to apply the methods accordingly.
			CO 5: To Iidentify and apply new ideas, methods and ways of thinking.
18	**Marketing Management**	BBA 304	CO 1: To acquire an understanding of fundamental concepts of Marketing.
			CO 2: To understand the role of research in making marketing decisions
			CO 3: To develop an understanding of the decision - making process of consumers.
			CO 4: To analyze Market Segmentation.
			CO 5: To demonstrate analytical skills in identification and resolution of problems pertaining to marketing management.
19	**Company Accounts**	BBA 305	CO 1: To understand accounting provision related to share capital, debentures, purchase of business
			CO 2: To analyze final accounts of companies including Banking companies and GIC and LIC.

			CO 3: To understand accounting provision related to internal and external reconstruction of companies, liquidation of companies, consolidation the accounts of holding companies, Double accounts system.
			CO 4: To acquire knowledge of rules regarding AS-14, AS-21, AS-17 and AS- 26.
			CO 5: To rreconstruct the capital structure in the financial statement of Joint stock company ltd.
20	**Company Law**	BBA 306	CO 1: To explains the basic concepts of company law.
			CO 2: To describes the concept of general partnerships and general partnership will be able to distinguish from other partnerships
			CO 3: To describe the concept of joint stock companies and joint stock companies will be able to distinguish them from other partnerships and companies
			CO 4**:** To describe the concept of joint limited company and limited companies
			CO 5: To learn about the liquidation of the general partnerships
21	**Consumer Behavior**	BBA 401	CO 1: To demonstrate how knowledge of consumer behavior can be applied to marketing.
			CO 2: To Identify and explain factors which influence consumer behavior.
			CO 3: To relate internal dynamics such as personality, perception, learning motivation and attitude to the choices consumers make.
			CO 4: To use appropriate research approaches including sampling, data collection and questionnaire design for specific marketing situations.
			CO 5: To prepare a research report on consumer behavior issues within a specific context.
22	**Financial Management**	BBA 402	CO 1: To explain the conceptual framework of financial Management.
			CO 2: To demonstrate financial information for decision making.
			CO 3: To apply theoretical information to determine financial plan and capital structure of the business.

			CO 4: To evaluate financial performance of the business organization by using different evaluation techniques.
			CO 5: To integrate the concept and apply the financial concepts to calculate ratios and do the capital budgeting
23	**Production Management**	BBA 403	CO1: To analyse the Network Design and Logistics Management of a firm
			CO2: To apply the concepts of Vendor Management. C
			O3: To understand the Inventory Management concepts.
			CO4: To analyse the Network Design and Logistics Management of a firm
			CO5: To apply the concepts of operation Management.
24	**Sales Management**	BBA 404	CO 1: To demonstrate understanding of all business functions.
			CO 2: To practice and related theories and be able to integrate this functional knowledge in order to address business problems.
			CO 3: To prepare for a wide range of business opportunities in marketing's fast paced and highly competitive world.
			CO 4: To comprehend the stages of sales process in retail,
			CO 5: To analyze information about sales forecast and sales forecast methods
25	**Research Methodology**	BBA 405	CO 1: To Identify and formulate research problem.
			CO2: To design and measure research problem using different types of data.
			CO 3: To design census, sample survey probability and non-probability sampling.
			CO 4: To understand concept of hypothesis and apply z-test, t-test, f-test.
			CO 5: To prepare for present the research report using new mechanism of report writing.
26	**Operation Research**	BBA 406	CO 1: To formulate and Solve Linear Programming Problems
			CO 2: To solve transportation and Assignment Problems
			CO 3: To understand the usage of Decision-making theory for Solving Business Problems
			CO 4: To comprehend concept of project management
			CO 5: To analyses to use CPM and PERT techniques.

			CO1: To define the concepts related to entrepreneurship: entrepreneur, functions, development programs, motivation; rural and small-scale enterprise.
27	**Entrepreneurship and Small Business Management**	BBA 501	CO2: To explain the concepts related to entrepreneurship: entrepreneur, functions, development programs, motivation; rural and small-scale enterprise.
			CO3: To Illustrate the concepts related to entrepreneurship: entrepreneur, functions, development programs, motivation; rural and small-scale enterprise.
			CO4: To examine the concepts related to entrepreneurship: entrepreneur, functions, development programs, motivation; rural and small-scale enterprise.
			CO5: To evaluate the concepts related to entrepreneurship: entrepreneur, functions, development programs, motivation; rural and small-scale enterprise.
			CO6: To Synthesize the concepts related to entrepreneurship: entrepreneur, functions, development programs, motivation; rural and small-scale enterprise.
28	**Managerial Economics**	BBA 502	CO1: To determine identification of economic environment.
			CO 2: To interpret concept and relationship of law and variable proportion and return scale.
			CO 3: To analyze market situation to diagnose problem through the analysis of the business environments
			CO 4: To apply suitable technique of achieving business target.
			CO 5: To evaluate different alternative solutions and can choose appropriate solution to overcome the problem.
			CO 6: To develop report which shows phases of business cycle and create new concepts as business ethics to improve goodwill of business enterprise.
29	**Cost and Management Accounting**	BBA 503	CO1: To acquaint with the fundamental's principles of management accounting.
			CO2: To analyse and interpret financial statements.
			CO3: To analyse typical business transactions to determine their effects on the principal elements of financial statements
			CO4: To take decisions using management accounting tools.
			CO5: To understand the role of management accounts in planning, control and decision making in an organization
30	**Income Tax**	BBA 504	CO1: To acquaint with the fundamental's principles of management accounting.
			CO2: To analyse and interpret financial statements.

			CO3: To analyse typical business transactions to determine their effects on the principal elements of financial statements
			CO4: Take decisions using management accounting tools.
			CO5: To understand the role of management accounts in planning, control and decision making in an organization
31	**Industrial Law**	BBA 505	CO1: To analyse the dynamic legal context in which employment relationships are enacted.
			CO2: To understand the provisions of the Industrial Disputes Act, 1947 which provides for settlement of industrial disputes through conciliation, voluntary arbitration and compulsory adjudication.
			CO3: To understand the process of trade union formation, working, role of trade union and concept & process of bonus.
			CO4: To determine the process and rules of wages, minimum wages payment to the workers.
			CO5: To gained insights in workers contract, apprentices training and equal remuneration to the workers.
32	**Fundamentals of Computer**	BBA 506	CO 1: To learn basic principles of using Windows operation system.
			CO 2: To practice basic keyboarding and mouse use. learn and practice basic keyboarding and mouse use.
			CO 3: To evaluate information on the Web
			CO 4: To understand basic word processing skills with Microsoft Word,
			CO 5: To comprehend basics of e-mail, such as sending, forwarding and receiving mail, attaching documents, creating mailboxes, filters, and address books.
33	**Management Information System**	BBA 601	CO 1: To demonstrate and comprehend basic MIS concept
			CO 2: To acquire in depth knowledge of working of an IT enabled organization
			CO 3: To learn to use various decision tools for solving Business Problems
			CO 4: To develop and implement Information Systems for Business Applications.
			CO 5: To analyze to increase efficiency of various management processes by using IT enabled technology.
34	**Strategic Management & Business Policy**	BBA 602	CO 1: To understand the strategic decisions that organizations make and have an ability to engage in strategic planning.

			CO 2: To explain the basic concepts, principles and practices associated with strategy formulation and implementation.
			CO 3: To integrate and apply knowledge gained in basic courses to the formulation and implementation of strategy from holistic and multi-functional perspectives.
			CO 4: To analyze and evaluate critically real-life company situations and develop creative solutions, using a strategic management perspective.
			CO 5: To conduct and present a credible business analysis in a team setting
35	**GST**	BBA 603	CO 1: To understand various terms related to Goods and Service tax (GST)
			CO 2: To determine the time, place and value of supply
			CO 3: To describe the contents and format for various documents like tax invoice, bill of supply, debit note, credit note etc.
			CO 4: To compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit.
			CO 5: To pperform as a tax consultant in preparing the tax planning, tax management. Payment of tax and filing of tax returns.
36	**International Trade**	BBA 604	CO1: To Identify and define the Meaning, Nature, importance and types of International Business.
			CO2**:** To understand the international business Environment and the theories related to it.
			CO 3: To analyze the Modes of Entry in international market, Marketing Mix, Factors Affecting Decision for International Business.
			CO 4: To evaluate the trends in International Trade and Documentation.
			CO5: To understand the principle of comparative advantage and its formal expression and interpretation within different theoretical model.
37	**Auditing**	BBA 605	CO 1: To demonstrate an understanding of the nature and scope of auditing and related services.
			CO 2: To describe and discuss the regulatory framework of auditing and related services.

			CO 3: To explain the ethical standards of an auditor.
			CO 4: To explain the stages of an audit and methods of gathering audit evidence.
			CO 5: To develop understanding and be able to interpret different types of audit reports.
38	**Fundamental of E-Commerce**	BBA 606	CO 1: To develop understanding the scope of Ecommerce.
			CO2: To implement new techniques of data interchange.
			CO 3: To explain about connectivity and providers of internet.
			CO 4: To apply application of Ecommerce
			CO 5: To identify the key security threats in the E-commerce environment
39	**Project Work**		CO 1: To demonstrate project report on the problem undertaken for study

BACHELOR OF COMMERCE (B.COM.)

PO-1	Understand the role of business and its implications on society
PO-2	Understand the conceptual knowledge of accounting and acquire skills of maintaining accounts
PO-3	Acquire entrepreneurial, legal and managerial skills
PO-4	Identify the avenues of marketing and banking both traditional and modern
PO-5	Develop the skills and techniques of communication to be successful in business and personal life
PO-6	Improve competency to make eligible and employable in the job market
PO-7	Recognize different value systems and ethics, understand the moral dimensions and accept responsibility
PO-8	develop necessary professional knowledge and skills in finance and taxation

PSO-1	Apply different concepts in starting and managing business and realize the social responsibilities, social realities and inculcate an essential value system

PSO-1	solve problems related to employer, employee, investors and consumers with legal protection.
PSO-2	prepare financial statements of business using accounting principles, concepts, conventions and provisions.
PSO-3	implement traditional and modern strategies and practices of costing, banking, economics, marketing, management, auditing and taxation.
PSO-4	Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books.

Course Outcomes

Paper code	Title of paper	Course outcomes
C-101	Business communication	Co1. To makes the students aware about the business communication. Co2. To understand the process and importance of communication. Co3. To develops awareness regarding new trends in business communication, various media of communication and communication devices. Co4. To extend business communication skills through the application and exercises
C-102	Business statistics	Co1. Explain the primary concepts of statistics, data collection, sampling and tabulation CO2. understand the concepts of measures of central tendency and solve problems CO3. understand the various measures of dispersion and solve related problems CO4. Develop the ability to solve problems in correlation and regression analysis CO5. Calculate the index numbers and understand the concept of time series and their application
C-103	Financial accounting	CO1. To enable the students to learn principles and concepts of accountancy. CO2. Students are enabled with the knowledge in the practical applications of accounting. CO3. To develop the understanding on the accounting practice prevailing in partnership firms and other allied aspects. CO4. To finds out the technical expertise in maintaining the books of accounts. CO5. To encourage the students about maintaining the books of accounts for further reference.
C-104	Business regulatory framework	CO1. To explain the basic provisions regarding legal frame work governing the business world. CO2. To knows the students with the basic concepts, terms & provisions of mercantile and business laws.

		CO3. To develops the awareness among the students regarding these laws affecting trade business, and commerce.
C-105	**Business economics**	CO1. To provides knowledge of micro economic concepts and inculcates an analytical approach to the subject matter. CO2. To arouse the interest by showing the relevance and use of various economic theories. CO3. To apply economic reasoning to solve business problems.
C-106	**Business environment**	Co 1. To furnishes awareness about environmental problems among people. Co 2. Impart basic knowledge about the environment and its allied problems. Co 3. Developing an attitude of concern for the environment. Co 4. Acquiring skills to help the concerned individuals in identifying and solving environmental problems.
B.com. 2nd year		
C-201	**Company law**	Co 1. To imparts students with the knowledge of fundamentals of company law and provisions of the companies act of 2013. Co 2. To apprise the students of new concepts involving in company law regime. Co 3. To acquaints the students with the duties and responsibilities of key managerial personnel.
C-202	**Cost accounting**	Co 1. To understand basic cost concepts, elements of cost and cost sheet. Co 2. To providing knowledge about difference between financial accounting and cost accounting. CO3. To ascertainment of material and labor cost. CO4. To apply theoretical knowledge in practical situation will be increased.
C-203	**Principles of Business Management**	CO1. To develop knowledge about management CO2. To develop understanding of planning and decision making

		CO3. To give an idea about organization, departmentation and delegation
		CO4. To familiarize with directing, motivation theories, communication process and leadership
		CO5. To provide idea about requirements of coordination, control process and mis in business.
C-204	Income tax	CO1. To describe the fundamental concepts and aspects of tax.
		CO2. To understand income tax system properly, and can get the knowledge of different tax provisions.
		CO3. To understand Tax return, advance tax, and tax deducted at source, tax collection authorities under the income tax act, 1961.
C-205	Fundamentals of entrepreneurship	CO1. To explain the functions of entrepreneur and its qualities
		CO2. To develop understanding various dimensions of entrepreneurship
		CO3. To develop understanding the entrepreneurial behaviour
		CO4 to appreciate relevance, and achievements of entrepreneurial development programmes (edp)
C-206	Public finance	CO1. To have conceptual clarity of public expenditure and revenue theories;
		CO2. To apply the principle of optimal taxation in analysing various governments tax policies;
		CO3. To know the application of public economics in analysing various energy policies;
		CO4. To comprehend various types of public goods and its real-world applications
B.com. Iii year		
C-301	Corporate accounting	CO1. To understand the procedures for the issue of shares.
		CO2. To prepare financial statements of companies

		Co 3. To calculate purchase consideration in case of amalgamation, absorption and reconstruction.
		CO4. To ascertain profit or loss prior to incorporation by applying various methods
		CO5. To identify the methods of valuation of goodwill and shares.
		CO6. To prepare consolidated balance sheet
		CO7. To prepare liquidators' final statement of account.
C-302	Auditing	CO1. To gain knowledge about auditing, audit programmes, working papers and preliminaries before audit.
		CO2. To analyze about implementing internal check and internal control in concerns.
		CO3. To understand the various aspects of vouching.
		CO4. To verify and value various assets and liabilities
		CO5. To evaluate the traits of company auditor and how to draft auditors report.
C-303	Principles of marketing	CO1. To understand the modern marketing concepts
		CO2. To Provide knowledge about marketing mix, Segmentation, targeting and positioning
		CO3.To develop understanding about product planning, diversification, elimination and pricing strategies.
		CO4. To Summarize marketing of consumer goods, channels of distribution.
		CO5. To Practice and act of international marketing
C-304	Economic laws	CO 1. To knows the students with the basic concepts, terms & provisions of
C-305	E-commerce	CO1. To analyze the impact of e-commerce on business models and strategy.
		CO2. To describe the major types of e-commerce.
		CO3.explain the process that should be followed in building an e-commerce presence.

		CO4.technology for online-business:
		CO5. Security and legal aspects of e-commerce
C-306	**Management Accounting**	CO1.understand the objectives and functions of management accounting
		CO2.evaluate the financial position by using ratios CO3.gain knowledge about the preparation of fund flow statement
		CO4.evaluate the financial position of a concern through cash flow statement identify the capital budgeting decisions

BACHELOR OF COMPUTER APPLICATION (BCA)

PO1: To appreciate and apply mathematical organization, computing and domain information for the conceptualization of computing models from clear harms.

PO2: To classify and evaluate complex computing problems using fundamentals of computer knowledge and request domains.

PO3: To transform composite production scenarios and present-day issues into problems, explore, recognize and propose included solutions using rising technologies.

PO4: To invent and ways experiments interpret data and present well up to date conclusions

PO4: To invent and ways experiments interpret data and present well up to date conclusion

PO5: To select recent computing tools, skills and techniques compulsory for original software solution.

PO6: To apply and give expert principles and cyber systems in a universal monetary situation

PO7: To Identify the need for and enlarge the ability to appoint in permanent education as a computing Qualified.

PO8: To recognize administration and computing philosophy with computing acquaintance to supervise projects in multidisciplinary environment.

PSO1: To enhance programming skills of the young IT professionals, the concept of project development in using the technologies learnt during the semester has been introduced.

PSO3: To prepare students in various disciplines of technologies such as computer applications, computer networking, software engineering, JAVA, database concepts and programming.

PSO4: To enhance programming skills of the young IT professionals, the concept of project development in using the technologies learnt during the semester has been introduced.

PSO5: To enhance knowledge in robotics, provide experimental hardware equipment for teaching the basics of robotics, robot dynamics and control, and robot system design and application.		
PSO7: To Prepare for future aspects by building and improving their creativity, social awareness, and Knowledge.		
PSO8. To develop ability to understand the changes or future trends in the field of computer application.		
PSO9. To encourage to convert their start-up idea to reality by implementing.		

Course Code	Course Name	Course Outcomes
BCA-101	**Mathematics- I**	CO1: To demonstrate competency in the areas that comprise the core of the mathematics major. CO2: To solve applied problems with the application of differentiation and integration. CO3: To use appropriate technologies to solve mathematical problems. CO4: To apply matrices in different industry problems.
BCA-102	**Programming, Principle& Algorithm**	CO1: To understand basic terms used in programming. CO2: To design an algorithmic solution for a given problem. CO3: To write a C programme for a given algorithm. CO4: To use different data structures and update basic data files. CO5: To trace out the error and resolve it using debugging and develop logical and analytical thinking
BCA-103	**Computer Fundamental and office automation**	CO1: To classify the computers in different categories based on their capabilities. CO2: To discuss an understanding of the importance of algorithms in the development of computer applications. CO3: To identify computer hardware and peripheral devices. CO4: To discuss the evolution of computers in different generations.
BCA-104	**Principle of Management**	CO1: To identify various approaches in management in order to solve a problem. CO2: To understand the roles and responsibilities associated with managerial functions. CO3: To learn the strategies that can motivate our employee to give his best. CO4: To identify the key contributors and their contributions in the development of management decisions.

		CO5: To know what a manager does and how they are integral to planning, organizing, leading, and controlling a modern organization
BCA-105	**Computer Fundamentals and Office Automation Lab**	CO1: To aware about the four basic functions of the computer. CO2: To familiar with the need of computers in our daily lives. CO3: To familiar with application software's.
BCA-106	**Business Communication**	CO1: To identify key principles in business communication. CO2: To discuss different processes and considerations involved in writing in business. CO3: To create various types of business reports. CO4: To create a presentation using slides. CO5: To select and recruit new employees.
BCA-107	**Programming Principles and Algorithms Lab**	CO1: To know that to code is like learning how to read and write in a different medium, thus, enabling us with creative and expressive power. CO2: To familiar with logic building and systematic programming. CO3: To aware of and apply appropriate coding skills for different requirements or scenarios. CO4: To practice and learn planning by thinking through the steps necessary to achieve our end goal. CO5: To gain an ability to move past debugging, frustrations and continue to find solutions to help complete their project.
BCA-008	**Environmental Studies**	CO1: To understand the importance of these resources and how to preserve these resources. CO2: To develop the knowledge and skills required to address challenging environmental issues. CO3: To understand how their decisions and actions affect the environment. CO4: To aware about the various types of pollution, and how to minimize them. CO5: To motivate to keep our environment healthy and safe so that everyone can live a healthy life.

BCA-201	Pedagogy of Mathematics	CO1: To demonstrate competency in the areas that comprise the core of the mathematics major. CO2: To solve applied problems with the application of differentiation and integration. CO3: To use appropriate technologies to solve mathematical problems. CO4: To apply matrices in different industry problems. CO5: To generate mathematical models to solve different types of practical problems.
BCA-202	C Programming (C Prog.)	CO1: To understand basic terms used in programming. CO2: To design an algorithmic solution for a given problem. CO3: To write a C programme for a given algorithm. CO4: To use different data structures and update basic data files. CO5: To trace out the error and resolve it using debugging and develop logical and analytical thinking.
BCA-203	Organizational Behaviour (OB)	CO1: To analyse and compare different models used to explain individual behaviour related to motivation and rewards. CO2: To identify the processes used in developing communication and resolving conflicts. CO3: To explain group dynamics and demonstrate skills required for working in groups (team building).
BCA-204	Digital Electronics & Computer Organization (DECO)	CO1: To explain the fundamental concepts. CO2: To apply the techniques of digital electronics. CO3: To understand and examine the structure of various number systems and its application in digital design.
BCA-205	Financial Accounting & Management (FAM)	CO1: To apply oral and written communication skills.32 CO2: To describe and explain the ethical and social responsibilities of accountants in ensuring the integrity of financial information. CO3: To develop an understanding of internal control issues and the effects of the regulatory environment on financial reporting CO4: To develop the understanding about meaningful, observable and measurable knowledge, skills and dispositions.
BCA- 206	Computer Laboratory and	CO1: To impart adequate knowledge on the need of programming languages and problem-solving techniques.

	Practical Work of C Programming (P)	CO2: To develop an in-depth understanding of functional and logical concepts of C Programming. CO3: To acquire logical thinking, Implement the algorithms and analyse their complexity, Identify the correct and efficient ways of solving problems CO4: To Implement real time applications using the power of C language features.
BCA-301	**Object oriented programming with C++**	CO1: To understand the difference between the top-down and bottom-up approach. CO2: To describe the object-oriented programming approach in connection with C++. CO3: To apply the concepts of object-oriented programming. CO4: To Illustrate the process of data file manipulations using C++. CO5: Apply virtual and pure virtual function & complex programming situations.
BCA-302	**Data Structure Using C & C++**	CO1: To develop the Understanding the linear and non-linear data structures, sorting and searching operations, File structures. CO2: To analyse the performance of - Stack, Queue, and Lists. CO3: To analyse the performance of Trees, Graphs, Searching and Sorting techniques. CO4: To Implement all the applications of Data structures in a high-level language. CO5: To design and apply appropriate data structures for solving computing problems.
BCA-303	**Computer Architecture & Assembly Language**	CO1: To understand the theory and architecture of central processing unit. CO2: To analyse some of the design issues in terms of speed, technology, cost, performance. CO3: To design a simple CPU with applying the theory concepts. CO4: To use appropriate tools to design verify and test the CPU architecture. CO5: To learn the concepts of parallel processing, pipelining and inter processor communication.
BCA-304	**Business Economics**	CO1:To develop an understanding of the applications of managerial economics.

		CO2: To Interpret regression analysis and discuss why it's employed in decision-making. CO3: To discuss optimization and utility including consumer behaviour. CO4: To assess the relationships between short-run and long-run costs. CO5: To analyse perfectly competitive markets including substitution. CO6: To explain uniform pricing and how it relates to price
BCA-305	**Element of Statics**	CO1: To describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis. CO2: To critically evaluate the underlying assumptions of analysis tools. CO3: To understand and critically discuss the issues surrounding sampling and significance. CO4: To discuss critically the uses and limitations of statistical analysis. CO5: To Solve a range of problems using the techniques covered.
BCA-306	**Computer Laboratory and Practical Work of OOPS**	CO1: To describe the procedural and object-oriented paradigm with concepts of streams, classes, functions, data and objects. CO2: To Understand dynamic memory management techniques using pointers, constructors, destructors, etc CO3: To describe the concept of function overloading, operator overloading, virtual functions and polymorphism. CO4: To classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming. CO5: To demonstrate the use of various OOPs concepts with the help of programs
BCA-307	**Computer Laboratory and Practical Work of DS**	CO1: To understand the concept of Dynamic memory management, data types, algorithms, Big O notation. CO2: To understand basic data structures such as arrays, linked lists, stacks and queues. CO3: To describe the hash function and concepts of collision and its resolution methods.

		CO4: To solve problem involving graphs, trees and heaps.
		CO5: To apply Algorithm for solving problems like sorting, searching, insertion and deletion of data.
BCA-401	**Computer graphics and Multimedia Applications (CGMA)**	CO1: To identify computer Graphics and Tools.
		CO2: To familiar with Multimedia applications.
		CO3: To understand Graphical formula in3-D to 2-Dimensional objects.
		CO4: To follow a series of stages collectively known as Graphics Pipeline.
		CO5: To concentrate the digital content in a human comprehensible form on a computer screen.
BCA-402	**Operating System (OS)**	CO1: To understand the basic components of a computer operating system, and the interactions among the various components.
		CO2: To describe the policies for scheduling, deadlocks, memory management, synchronization, system calls, and file systems.
		CO3: To allocate the resources to users and processes
		CO4: To understand the operating systems implement significant OS functionality in user-mode, e.g. User-mode such as Linux.
		CO5: To access to I/O devices – Display, disk, network, printer, keyboard, camera, etc. Controlled access to files – Access protection, System access – User authentication.
BCA 403	**Software Engineering (SE)**	CO1: To embrace problem solving and learning as a natural aspect of their work.
		CO2: To enhance value and is valued by their professional teammates.
		CO3: To Gain to have broad and deep knowledge of the technical issues that they face.
		CO4: To develop the Basic knowledge and understanding of the analysis and design of complex systems.
		CO5: To differentiate between the methods and procedures for software development that can scale up for large systems and that can be used consistently to produce high-quality software at low cost and with a small cycle of time.
BCA- 404	**Optimization Techniques (OT)**	CO1: To develop the ability to apply the theory of optimization methods and algorithms to develop and for solving various types of optimization problems.

		CO2: To develop the Ability to go in research by applying optimization techniques in problems of Engineering and Technology. CO3: To achieve the "best" design relative to a set of prioritized criteria or constraints (In equations). CO4: Enrich about maximizing factors such as productivity, strength, reliability, longevity, efficiency, and utilization. CO5: To Explain the decision-making process about Information System, Industry-Engineering and Manufacturing Systems, Multi criteria Decision Making and Operations and Supply Chain Management
BCA -405	**Mathematics III**	CO1: To apply basic definitions and concepts in set and function theory. CO2: To understand the definitions of limits and convergence in the context of sequences and series of real numbers. CO3: To compute limits of sequences involving elementary functions. CO4: To Classify partial differential equations and transform into canonical form. CO5: To solve linear partial differential equations of both first and second order and apply partial derivative equation techniques to predict the behaviour of certain phenomena.
BCA -406	**CGMA Lab**	CO1: To know the use of OpenGL for Graphics. CO2: To explain the Programming User-interface issues CO3: To describe the Concepts of 2D & 3D object representation. CO4: To familiar about the Implementation of various scan & clipping algorithms.
BCA -501	**Introduction to DBMS**	CO1: To identify the basic concepts and various data model used in database design ER modelling concepts and architecture use and design queries using SQL. CO2: To apply relational database theory and be able to describe relational algebra expression, tuple and domain relation expression for queries.

		CO3: To recognize and identify the use of normalization and functional dependency, indexing and hashing technique used in database design.
		CO4: To identify the purpose of query processing and optimization and also demonstrate the basic of query evaluation.
		CO5: To apply and relate the concept of transaction, concurrency control and recovery in database
BCA -502	**Java Programming and Dynamic Webpage Design**	CO1: To explain the basic concepts Java Programming Language. CO2: To acquire knowledge of control structures. CO3: To familiar about Java Programming. CO4: To create wide range of Applications and Applets using Java. CO5: To develop the ability to work with I/O Streams.
BCA -503	**Computer Network**	CO1: To understand the overview of networks OSI model and Physical Layer. CO2: To obtain the knowledge about error deduction and correction in Data Link Layer. CO3: To acquire the knowledge about packet switching network and addressing in Network Layer. CO4: To develop the understanding about TCP in Transport Layer. CO5: To develop the ability to understand client/Server programming, WWW and Email using Application Layer.
BCA -504	**-504: Numerical Methods**	CO1: To analyse the broad range of numerical methods for solving mathematical problems that arise in Science and Engineering. CO2: To provide a basic understanding of the derivation, analysis, and use of these numerical methods, along with a rudimentary understanding of finite precision arithmetic and the conditioning and stability of the various problems and methods. CO3: To apply the appropriate numerical techniques for your problem, interpret the results, and assess accuracy. CO4: To differentiate between systems of linear equations, linear least squares problems, and eigenvalue calculation; (ii) interpolation, approximation, and integration of functions; (iii) initial values problems governed by ordinary differential equations; (iv) nonlinear scalar equations.

BCA- 505	**Minor Project**	CO1: To understand of how practices impact on different selected groups of students (potential withdrawers; actual withdrawers; disabled students; low participation and ethnic minority groups).
		CO2: To explain the model of practice for institution and sector.
		CO3: To develop the ability of identification, articulation and measurement of activities that contribute to Belonging and Intimacy.
		CO4: To Integrated data set related to retention and methodology for continued analysis
BCA- 506	**Viva-Voice on Summer Training**	CO1: To offer the opportunity for the young students to acquire on job the skills, knowledge, attitudes, and perceptions along with the experience needed to constitute a professional identity.
		CO2: To provide means to immerse students in actual supervised professional experiences.
		CO3: To give an insight into the working of the real organizations.
		CO4: To appreciate the linkages among different functions and departments.
		CO5: To develop perspective about business organizations in their totality
BCA -507	**Computer Laboratory and Practical Work of DBMS**	CO1: To Design and implement a database schema for given problem. CO2: Capable to design and build a GUI application.
		CO3: To Apply the normalization techniques for development of application software to realistic problems.
		CO4: To Formulate queries using SQL DML/DDL/DCL commands.
		CO5: To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modelling, designing, and implementing a DBMS.
BCA- 508	**Computer Laboratory and Practical Work of Java Programming &**	CO1: To Identify classes, objects, members of a class and relationships among them needed for a specific problem.
		CO2: To Write Java application programs using OOP principles and proper program structuring.
		CO3: To demonstrate the concepts of polymorphism and inheritance.

	Dynamic Webpage Design	CO4: To write Java programs to implement error handling techniques using exception handling. CO5: To gain knowledge about basic Java language syntax and semantics to write Java programs and use concepts such as variables, conditional and iterative execution methods etc.
BCA-601	**Computer Network Security**	CO1: To identify some of the factors driving the need for network security. CO2: To identify and classify particular examples of attacks. CO3: To define the terms vulnerability, threat and attack. CO4: To identify physical points of vulnerability in simple networks. CO5: To compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack, and explain the characteristics of hybrid systems.
BCA-602	**ISAD**	CO1: To understand basic terms used in information system. CO2: To write a C Programme for a given algorithm. CO3: To use different data structures and update basic data files. CO4: To trace out the error and resolve it using debugging and develop logical and analytical thinking.
BCA-603	**E- Commerce**	CO1: To understand the Concept of E-commerce and Business Strategy in Electronic Age and different models of E-Commerce. CO2: To administer and Maintain B2B E-Business sites. CO3: To understand the Internet Architecture and Electronic Payment System. CO4: To demonstrate the knowledge of Legal and Regulatory policy issues in E-commerce. CO5: To determine the protection methods from public policy issues. CO6: To evaluate E-commerce models and identify the requirements for starting up and operating E-business sites.
BCA-604	**Knowledge Management**	CO1: To Remember different knowledge management concepts. CO2: To Create an understanding of data mining and knowledge discovery.

		CO3: To understand the use of one of the approaches of MIS i.e. Executive information system for developing the strategic information in an organization. CO4: To evaluate different approaches of MIS and take business decisions for different organizations. CO5: To analyse the relationship between information, tacit knowledge, explicit knowledge and organizational knowledge.
BCA-605	**Major Project**	CO1: To aware about designing an Online Project with advanced technologies of their choice. CO2: To train to meet the requirements of the industry. CO3: students will able to develop a project professionally. CO4: To develop the ability to prepare an SRS report. CO5: To develop good presentation skills.