

INTERNAL QUALITY ASSURANCE CELL

PROGRAM OUTCOME, PROGRAMME SPECIFIC OUTCOME AND COURSE OUTCOME (UNDER-GRADUATE COURSES)

DEPARTMENT OF B.COM

Programme Outcome:

To Provide well versed and trained human resource to meet the requirements of the industry in the field like MNC's, Accountancy, Taxation, Banking, Insurance, and stock marketing, international economics as well as research.

Programme Specific Outcome:

After successful completion of B.Com degree a student should be well acquainted with knowledge and set of skills to meet the challenges of industry with an ease. Understanding and applying mathematical tools and techniques for research in field of Commerce

SEMESTER I AND II

Course	Outcome
Commerce -I Introduction to Business	On successful completion of this subject the learners would acquire the knowledge about the various facets of business. The learners would gain in-depth insights of conduct of business.
Commerce -II Service Sector	On successful completion of this subject the learners would acquire the knowledge about the various dimensions of service sector. The learners would gain in-depth insights of service oriented industries.
Accountancy and Financial Management -I and II	The students will be able to understand profitability and net worth of sole trading concerns, and understanding and implementation of hire purchase transactions of business.
Business Economics I & II	On successful completion of this subject the students would learn to appreciate resource decisions at individual and business levels. Once students have a foundational knowledge of core concepts, they can apply their understanding to contemporary economics issues.
Mathematical and Statistical Techniques I and II	To have a knowledge of Elementary Statistics and Mathematics. Prepare students for their future careers in business and basic research methodology calculations.
Environmental Studies I & II	This subject would create an environmental perspective among the students. The students would be aware about various issues related to environment and learn to empathise with these problems. They would also be aware about various measures initiated in India and across globe to conserve environment.
Foundation Course I & II	On successful completion of this subject the students would have increased awareness and accountability as a citizen. It would also bring

	increased competitiveness, emotional intelligence and empathy among the students.
Business communication I	Students are introduced to communication skills, understand the methods of communication improve LSRW and practice those skills in their daily life.
Business communication II	Students will demonstrate written communication skills appropriate for business situations. Will demonstrate effective interpersonal skills and work effectively in teams.
SEMESTER III AND IV	
Accountancy and Financial Management -III and IV	The students will be capable of applying and handling the accounting treatment of partnership accounting in relation to amalgamation as well conversion of firm into a company.
Management Accounting III semester	Understanding application of practice tools and methods in management accounting. It will help to recognize commonly used financial statements, their components and how information from business transactions flows into these statements.
Commerce - III Management: Functions and Challenges	On successful completion of this subject the learners would be exposed to the knowledge of management. The learners would gain better idea about Management oriented concepts which can lead to better managerial skills.
Commerce - IV Management: Production and Finance	On successful completion of this subject the learners would be exposed to the knowledge of Production & finance. The learners would gain more insights about Production & finance oriented concepts which can lead to better management of an organization in terms of finance as well as production.
Business Economics III	On successful completion of this subject would give students an insight into the dynamics of macroeconomics. It would also lay a foundation of the macroeconomic understanding of Keynesian and Post- Keynesian economics among the students.
Business Economics IV	The subject would develop an understanding among the students about public finance. It would introduce the students to the public sector reforms with a focus on public finance issues.
Foundation Course III & IV	On successful completion of this subject the students would have increased social responsibility. It would bring increased life skills among the students to compete at administrative levels.
Advertising III	To understand the role of advertising for the success of brands and its importance within the marketing function of a company. Knowing issues in ethics in advertising field. Exploring more options on career options in advertising.
Advertising IV semester	Understanding actual execution of ad plan. Orient learners towards the practical aspects and techniques of advertising. Learning practical aspects and techniques of advertising.
Computer Programming-I	To equip the students with a general understanding of computer basics for everyday use and train them to use this understanding to supplement their presentation skills. To equip the students with basic knowledge of programming.
Computer Programming-	To equip the students with basic knowledge of use of technology in

II	Office tools. To equip the students about the network structure and Protocols.
Business Law III	The students shall become aware about legislative framework governing business world
Business Law IV	The students shall become aware about current laws relating to Company and Business world
Auditing-I - IV	On the successful completion of the course, students will be able to understand the fundamental nature of auditing and its implications on the society. Students will be able to understand the methods, tools procedures through which audit is carried out.
SEMESTER V and VI	
Commerce - V Marketing	On successful completion of this subject the learners would be exposed to the knowledge of marketing. The learners would gain better idea about marketing oriented concepts which can lead to better to employment opportunities in the field.
Commerce - VI Human Resource Management(HRM)	On successful completion of this subject the learners would be exposed to the knowledge of HRM. The learners would gain better idea about human resource oriented concepts which can lead to better to employment opportunities in the field.
Financial Accounting	The students will be capable of understanding and preparation of final accounts of companies and the relevant and the relevant accounting standards. The students will be able acquainted with underwriting of shares and debentures and liquidation of companies.
Business Economics (Sem V and VI)	On successful completion of this subject the students would be able to understand the major models of international trade, their assumptions and economic implications. It would also prepare students in achieving a deeper understanding of international trade which will be an important formative element for those who intend to develop careers in international business and management.
Computer Systems and Applications (Sem V)	Students will acquire Practical knowledge on various Functions and Formulas. Students will be trained to use and Store the data in Database.
Computer Systems and Applications (Sem VI)	Training in Computer Applications in the field of Commerce is an Extra Mileage in Placements. Students gain more knowledge in the field of Computer Applications used in Academic and Professional Environment
Taxation I and II	After successful completion of the course, students should be in a position to understand basic provisions of direct tax laws and its interpretations. Computation procedure of taxable income and filing of return.
Export Marketing - I	On successful completion of this subject the learners would be exposed to the knowledge of Export marketing. The learners would gain better idea about export marketing oriented concepts which can lead to better to employment opportunities in the field.
Export Marketing - II	On successful completion of this subject the learners would be exposed to the more core concepts of Export marketing. The learners would gain better idea about export marketing oriented concepts which can lead to in- depth understanding.

DEPARTMENT OF B.COM.ACCOUNTING AND FINANCE

Programme Outcome:

- 1) After completing three years for B.Com. Accounting and Finance program, students would gain a thorough grounding in the fundamentals of Accounts, Finance and Commerce.
- 2) The Commerce and Finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in business.
- 3) The all-inclusive outlook of the course offer a number of value based and job oriented courses ensures that students are trained into up-to-date.
- 4) The gap between the academia and industry is bridged through this programme.

Programme Specific Outcome:

- 1) Student will be able to prove proficiency with the ability to engage in professional programmes like CA, ICMA and CS.
- 2) It mould the students in such a way which will make them having over all knowledge about Commerce and in depth knowledge about core subjects of Accountancy and Finance.
- 3) Students acquire practical skills to work as Tax Consultant, Audit Assistant and other Financial Supporting Services.
- 4) Students will be able to do higher education and advance research in the field of Commerce and Finance.

F.Y B.Com Accounting and Finance SEMESTER I

Subject	Outcome
Foundation Course-1	<ol style="list-style-type: none">1) This Course aims at providing the fundamental knowledge about the republic of India2) This Course also aims at making students aware about the problems faced by woman and handicapped people and encourages them to solve their problems
Cost Accounting-I	<ol style="list-style-type: none">1) On successful completion of the course, students will be well versed in the fundamentals of cost accounting such as types of cost and material, labour and overheads2) Students will be able to understand the difference between the financial accounting records and cost accounting records and treatment for the accounting transactions.
Business Economics I	<ol style="list-style-type: none">1. This course would give students an insight into the dynamics of macroeconomics and international economics.2. This course would also lay a foundation to prepare students to be successful in upper division finance, marketing, business administration, economics, and government and social work courses.
Business Environment (Commerce I)	<ol style="list-style-type: none">1. Students will gain knowledge about business environment and their relevance.2.It inculcates knowledge about international Business environment
Financial management 1	<ol style="list-style-type: none">1.Students will understand application of financial analysis tools and techniques to decision making2.Students will develop problem solving skills within the finance setting.

	3.Students will understand financial management concepts and tools to the decisions faced by a manager in investment decisions
Financial Accounting	1.Students will get the knowledge about Accounting of Hire Purchase, Departments and Consignment Transactions 2.Students will understand the importance of Accounting Standards and its applicability
Business Communication I	1. Students will be acquainted with the concept of communication 2. Students will develop a good understand of English grammar and normal letter writing 3. Students will have a clear understanding of business ethics

F.Y B.Com Accounting and Finance SEMESTER II

Subject	Outcome
Business Law I	1) Students, after the completion of the course, will be well versed in the fundamental laws that govern commercial business. 2) Students will understand fundamental nature of the laws that try to bring equity and justice to the innocents.
Innovative Financial Services	1. To familiarize students with the fundamental aspects of various Financial services. 2. To introduce the basic concepts, functions process, technique and awareness of the role, functions and functioning of financial services.
Financial accounting II	1. On successful completion of this course the student are enabled with the Knowledge in the practical applications of accounting. 2. Students get thorough knowledge of Branch Accounting, Consignment Accounts, computation of Insurance claims and Accounting from Incomplete records.
Foundation Course II	1. The students would have increased awareness and accountability as a citizen. 2. It would bring increased competitiveness, emotional intelligence and empathy among the students.
Business Communication II	1. Students will have clear understanding of an effective presentation and group discussions like interview, meeting, PR and press release 2. Students will develop an understanding of writing Trade letters and different types of reports
Auditing I	1. On the successful completion of the course, students will be aware about the nature of Auditing and its implication to the society. 2. Students will be able to understand the various methods and documents prepared in the process of audit
Business Mathematics	1. To have a knowledge of Elementary Statistics. 2. To prepare students for their future careers in business

S.Y B.Com Accounting and Finance SEMESTER III

Subject	Outcome
Foundation Course in Management (FMO)	1) Students will be able to understand the fundamental structure of the Indian Financial System. 2) After successful completion of the course, students will be able to understand the services, instruments, markets and intermediaries

	through which the deficit units meet the surplus units
Business Economics II	<ol style="list-style-type: none"> 1. This course would give students an insight into the dynamics of macroeconomics and international economics. 2. This course would also lay a foundation to prepare students to be successful in upper division finance, marketing, business administration, economics, government and social work courses.
Business Law II	The students shall become aware about legal framework governing business world
Direct Tax	<ol style="list-style-type: none"> 1. Students will aware of different heads of income, calculation of total income and filing of return under section 139 2. Students will also understand clubbing of income, set off and carry forward losses
Financial Accounting III	<ol style="list-style-type: none"> 1. On successful completion of this course the student are enabled with the Knowledge in the practical applications of accounting 2. Students get acquainted with topics like partnership final accounts, conversion of partnership into a company, amalgamation and accounting of foreign currency transaction.
Cost Accounting II	<ol style="list-style-type: none"> 1. Students will understand cost classification of cost, cost centre, cost per unit and preparation of actual and estimated cost sheet 2. Students will learn preparation of Process Account, Contract Account and Reconciliation Statement of Financial Account and Cost Account
Information Technology in Accountancy I	<ol style="list-style-type: none"> 1. To equip the students with a general understanding of computer basics for everyday use and train them to use this understanding to supplement their presentation skills. 2. To equip the students with basic knowledge of programming. 3. To equip the students with basic knowledge of use of technology in Office tools. 4. To equip the students about the network structure and Protocols.

S.Y B.Com Accounting and Finance SEMESTER IV

Subject	Outcome
Management Accounting	<ol style="list-style-type: none"> 1. Understanding application of practice tools and methods in management accounting. 2. It will help to recognize commonly used financial statements, their components and how information from business transactions flows into these statements
Foundation Course in Management II (Introduction to Management)	<ol style="list-style-type: none"> 1. It helps in developing managerial skills among students in order to cater the needs of Industries. 2. Students will gain knowledge about management functions, principles and other concepts and their applicability in Business
Business Law III	The students shall become aware about Current Laws relating to Company in India
Information Technology in Accountancy II	<ol style="list-style-type: none"> 1. To give Introduction of business process for accounting, purchase, sales and finance. 2. To make students aware about computerized accounting & accounting Software. 3. To introduce concept of Management Information System, its needs, features,

	uses. 4. To create analytical view of students towards Auditing in Information Technology environment.
Financial Accounting IV	1. Students will get the knowledge of revised schedule VI applicable to Company Final Account and various provisions of sections applicable to redemption of Preference shares and Debentures 2. Students will understand accounting of transaction of Foreign Currency in relation to various transactions
Direct Tax	To develop an understanding of Income tax, laws and acquires the ability to analyze and interpret the provisions of such laws.
Research Methodology in Accounting and Finance	1. To understand some basic concepts of research and its methodologies. 2. To identify the overall process of designing a research study from its inception to its report. 3. To prepare a project proposal (to undertake a project)

T.Y B.Com Accounting and Finance SEMESTER V

Subject	Outcome
Financial Accounting V	1. The students will be aware of the accounting treatment in relation to amalgamation, absorption, internal reconstruction and external reconstruction and the relevant accounting standards. 2. The students will gain knowledge about underwriting of shares and debentures and liquidation of companies.
Management II (Management Applications)	1. Students will gain knowledge about basic concepts related to marketing, HRM, Production and Financial management. 2. Students gain varied knowledge, skills and attitude regarding business managerial skills.
Financial Accounting VI	1. This course aims to enlighten the students on the accounting procedures followed by Banks, Insurance companies, NBFCs, LLPs 2. Students will understand need and methodology used for calculation of goodwill & shares.
Economics III	1. The students would be able to appreciate and understand the various aspects of Indian economy. 2. The students would get an insight and understanding of the reforms and policy measures undertaken by government of India.
Financial Management - II	1. Students will understand scope of Financial Management, Role of Financial Manager, concept profit maximisation, wealth maximisation. 2. Students will also get the knowledge on Receivable Management for evaluation of credit, Capital Structure theories, Dividend Decision, Dividend Models. 3. Students will learn Mutual Fund, its various concepts, Net Annual Value, Bond valuation
Cost Accounting III	1. Students will aware of different methods of maintenance of accounts in cost accounting such as integrated and non-integrated system of

	<p>accounting</p> <ol style="list-style-type: none"> Students will get knowledge of various concepts of Uniform Costing and ABC costing Students will also understand concept of Operating Costing and its application
--	--

T.Y B.Com Accounting and Finance SEMESTER VI

Subject	Outcome
Indirect Tax (GST)	<ol style="list-style-type: none"> To make students aware of difference between direct tax and indirect tax. To make students understand constitutional provisions of tax laws. To understand concept of supply. To make students learn procedural aspects for Registration under GST. To learn importance of Invoice under GST regime.
Financial Management III	<ol style="list-style-type: none"> This subject provides an understanding of various relevant topics like Business Valuation, Mergers and Acquisitions, Corporate Restructuring and Takeovers, Lease and Hire Purchase Financing & Working Capital financing. After the successful completion of the subject the student should have a thorough knowledge of the above mentioned topics.
Financial Accounting - VII	<ol style="list-style-type: none"> Students will get the knowledge on various legal provisions applicable to service industry like Electricity and their relevance. Students will get the knowledge on preparation of Final Account of Electricity and Co-operative Society and also preparation of Investment Account of fixed and variable income bearing securities. Students will understand International Financial Reporting Standards (IFRS) and its relevance
Economics III	<ol style="list-style-type: none"> The students would be able to appreciate and understand the various aspects of Indian economy. The students would get an insight and understanding of the reforms and policy measures undertaken by government of India.
Cost Accounting IV	<ol style="list-style-type: none"> Students gain knowledge about budgeting Students are made aware of various cost accounting concepts like marginal costing and standard costing.

DEPARTMENT OF B.Sc. BIOTECHNOLOGY

Programme Outcome:

Biotechnology teaches the methods to exploit all biological processes, organisms, cells or cellular components to develop new tools and products which are useful in research, agriculture, industry, and healthcare and environment control.

Programme Specific Outcome:

This course provides a firm foundation of the fundamentals and applications of current biotechnology theories. It will help in developing the practical skill in aseptic techniques, microbial

isolation, various biomolecule separation and purifications techniques, biochemical and immunology assays.

Course	Outcomes
Introduction and Application to Biotechnology	To acquaint students with various fields of Biotechnology. To impart knowledge about Biotechnology applications in agriculture and an overview to Intellectual Property Rights.
Cell biology	Understanding the structural and functional aspects of the cell provides the student with a strong foundation in the molecular mechanisms underlying cellular function. To impart knowledge about different organelles in the cell with the ultrastructure and functions. To familiarize with mechanisms of cell signaling and structure and function of cytoskeleton and cell membrane.
Microbiology	To develop skills and impart knowledge regarding basics of microbiology. Give an overview of stains, various forms of sterilization methods and methods of cultivation of micro-organisms.
Biodiversity	To understand the general aspects of origin of life on earth and acquaint students with basic concepts of plant, animal and microbial biodiversity.
Biochemistry	To acquaint the students with bioorganic molecules like carbohydrates, lipids, proteins, amino acids, and nucleic acids and understand their properties and role in life. To make the students understand the chemical reactions or metabolic functions in the living system and their regulations. To develop an understanding of the role of the endocrine system in maintaining homeostasis and health
Molecular Biology	To make the students understand the basic structure of nucleic acids, basic processes like replication, transcription, translation and DNA repair mechanisms.
Genetics	To understand the principles of Mendelian Genetics, microbial genetics and concepts of heredity. To provide an overview of gene mapping, population genetics and cytogenetics.
Plant Tissue Culture	To familiarize students to the basic principles of Plant tissue culture, and to expose them to its many applications. To develop the skills of maintaining plant cell and tissue cultures and micropropagation techniques.
Animal Biotechnology	The major objective is to provide an insight into an interdisciplinary research program on animal reproduction and biotechnology and also to offer wide ranging topics related to stem cells, regenerative biology and tissue engineering. The understanding of setting an animal tissue culture lab with basic technique involved in the animal tissue culturing.
Developmental Biology	To develop detailed understanding of essential events of developmental biology through proper explanation of gametogenesis, fertilization, blastula formation, gastrulation as well as embryological induction as part of early embryonic development.

Marine Biotechnology	The objective of this course is to give an overview of marine environment and its living and nonliving resources. To understand the potential applications of Marine Biotechnology.
Immunology	To acquaint the students with the human immune system, antigens and antibodies, their production and function in the body. To familiarize with the basic Immunotechniques and their applications.
Environmental Biotechnology	To make students aware about importance of natural resources, types of pollution and control. To create awareness about environmental monitoring, risk assessment & legislation. Impart knowledge about the application of Biotechnology processes in environment control. To inculcate the concept of sustainable development.
Recombinant DNA Technology	To help the student to get information on the latest advances in genetic engineering and recombinant DNA technology, which is a powerful tool needed for modern Biotechnology research. To expand their understanding towards latest technologies in DNA sequencing.
Pharmacology	To get an overview about pharmaceutical drugs, their absorption, and distribution in the body and drug's toxicity.
Bioethics & Biosafety	To make the students familiarize with ethical issues in biological research are focusing on consequences of biomedical research technologies such as cloning of whole organisms, genetic modifications, DNA testing. To gain knowledge about safety precautions necessary during biotechnological work and understand the ethical perspective of handling biomaterials. The course will also give the concepts of GLP and GMP.
Chemistry	To acquaint the students with the basic concept of chemical bonding and thermodynamics. Learn unique properties of water and preparation of solutions and buffers. To provide knowledge of basic analytical techniques and to create awareness about importance of green chemistry.
Biostatistics	To acquaint the students with the basic statistical concepts to learn the application of statistical methods to medical, biological and health related problems.
Bioprocess technology	The objective of this course is to make students understand the principles underlying design of Fermentor and Fermentation Process and to build a foundation for more advanced studies in Bioprocess Technology. The knowledge of different types of fermentors and their control mechanisms will be imparted to the students. To study the downstream processes for product recovery in fermentation.
Food Technology	To familiarize the students with the analysis of food and types of food components. To make them understand food spoilage, safety and preservation techniques.
Biophysical& Bioinstrumentation	The objective of this course is to have a firm foundation of the fundamentals and applications of current biophysical theories. Be able to relate principles of Physics to applications and techniques in the field of Biology such as microscopy, spectroscopy and chromatography, centrifugation, radioisotopes and electrophoresis.
Bioinformatics	The objective of this course is learning and understanding basic

	concepts of bioinformatics and sequence alignment techniques. The students will be acquainted with the applications of Bioinformatics to solve various biological problems.
Medical Biotechnology	Understanding and developing advanced technology to diagnose, treat or prevent human diseases by applying basic science, medical expertise and advanced methods to living cells. To enrich the student skills in handling the advanced instruments for the diagnosis of various clinical disorders.
Neurochemistry	To give an insight about the role of the brain and nervous system in behavior, psychological functioning, and neurophysiological processes that underlie human development.
Agri - biotechnology	To understand the basic concepts of agriculture and agriculture systems; Green House Technology and its construction. To understand the effect of stress condition in plants and methods to overcome it. The paper also will give insight on molecular markers in plant breeding as well as the production of biofertilizer and biopesticides.

DEPARTMENT OF B.M.S.

Programme Outcome:

The Program will acquaint the students to obtain the knowledge and skills required for management positions in different organizations and helps students practically understand how organizations work and managed. The degree would develop undergraduate students to be leaders and managers capable of taking on the challenges and rigors of the global marketplace.

Programme Specific Outcome:

Bachelor in Management Studies (Finance)

Financial Management Program enables' to prepare professionals who will not only be efficient & effective managers but also inspirational & innovative leader's. The program prepares students for a career in accounting, banking, and financial management. The aspiring candidates with the necessary skill sets to adopt a creative and refreshing approach to business problems resolution and identifying, tapping new opportunities in the market place, are expected to excel in the fast growing Financial Services industry.

Bachelor in Management Studies (Human Resource Management)

HR Management Program enables' to prepare professionals who will not only be efficient & effective managers but also inspirational & innovative leader's. The program prepares students for a career in HR policy formulation and practice in the areas of employment law, job analysis, employee relations and international HRM. The aspiring candidates with the necessary skill sets to adopt a creative and refreshing approach to business problems resolution and identifying, tapping new opportunities in the market place, are expected to excel in the fast growing HR Services industry.

Bachelor in Management Studies (Marketing)

Marketing Management Program enables' to prepare professionals who will not only be efficient & effective managers but also inspirational & innovative leader's. The program prepares students for a career in Advertising, technical *Marketing* Assistant; Media Planner & Buyer; Supply Chain Management: E-commerce Analysis banking, and sales executives. The aspiring candidates with the

necessary skill sets to adopt a creative and refreshing approach to business problems resolution and identifying, tapping new opportunities in the market place, are expected to excel in the fast growing Marketing Services industry.

FY BMS SEM I

Sr.No	SUBJECT	COURSE OUTCOME
01	Introduction to Financial Accounts	Students would acquaint Basic Account knowledge, Journal, Ledger, Trial balance, BRS and preparing final account.
02	Business Law	Business law shall provide students knowledge about current legal framework governing the business world.
03	Business Statistics	Basic knowledge in elementary statistics. Prepare students for their future careers in business end research.
04	Business Communication - I	Students are introduced to communicate skills, understand the methods of communication. Improve LSRW and practice these skills in their daily life.
05	Foundation Course - I	This subject is to enable the students socially aware of the societal problems and their personality.
06	Foundation of Human Skills	It acquaints students about the importance of individual and group dynamics and the skills required for working in organization. They also get a better understanding regarding organization culture and its impact.
07	Business Economics-I	The students acquire the knowledge of demand and forecasting in sales management, price fixing, market competitors and management business economically.

FY BMS SEM II

Sr.No	SUBJECT	COURSE OUTCOME
01	Principles of Marketing	It helps in developing marketing skills among students in order to cater the needs of marketing industries.
02	Industrial Law	Industrial law shall provide a roundup of various legislation concerning industries.
03	Business Mathematics	Students acquire knowledge in elementary business mathematics. Develop skills in analysis mathematical models in business management.
04	Business Communication - I	Students will demonstrate written communication skills appropriate for business situations. Will demonstrate effective interpersonal skills and work effectively in terms of diverse work culture.
05	Foundation Course - Value Education and Soft Skill - II	It acquaints students on issues relating to human rights and environmental concerns and be socially aware of the societal problems.
06	Business Environment	This subject inculcates awareness about business environment at national and international level. Understanding the impact of international organization on business environment.
07	Principles of Management	The students will gain knowledge , and skills regarding business principles, management skills required for running a business.

SY BMS SEM III

Sr.No	SUBJECT	COURSE OUTCOME
01	Foundation Course- Contemporary Issues-III	This course acquaints students on issues relating to human rights and environmental concerns. Students will understand technological development and relevance of technology in their day to day life.
02	Information Technology in Business Management - I	On completion of this course the students will gain practical knowledge of application software. They will improve their professional computer skills.
03	Business Planning & Entrepreneurial Management	On completion of the course the students will help them to take the responsibility of line of management function of a company with reference to Small and Medium Enterprises sector.
04	Accounting for Managerial Decisions	This course develops the understanding of accounting tools and information and their uses in decision making.
05	Strategic Management	On completion of the course , the students will gain awareness about the importance of Strategic Management. They get a brief understanding of complex strategic decisions in formulation and have gained knowledge and implementation of strategy.
06	Cost Accounting	Students get enhanced with basic concepts and tools used in cost accounting, principle and procedure of cost accounting.
07	Corporate Finance	Students get enhanced with concept of corporate finance and its importance in managing a business. Understand nature, importance and structure of corporate finance.
08	Motivation and leadership	Acquaint students about practical approaches to Motivation and leadership and its applications in Indian context. Enables the students to implement online leadership skills.
09	Organizational Behavior and Human Resource Management	The students will be able to understand scope of Human Resource Management and hence will enable them to have career options. Organizational Behavior and will help them to work with efficiency in organization.
10	Consumer Behavior	Understanding of various marketing tools in contemporary time. It brings out various ideas for effective marketing of products.
11	Advertising	On successful completion of syllabus , students will understand growing importance of advertising , career growth and scope in advertising.

SY BMS SEM IV

Sr.No	SUBJECT	COURSE OUTCOME
01	Business Economics-II	A sound knowledge of economic concepts and principles help business firms in rational decision making. The students will learn managerial skills in the present business environment.
02	Business Research Methods	The subject will inculcate analytical abilities of research skills among students. They will get clear concepts as to how research is done.
03	Production & Total Quality Management	This course develops analytical skills regarding productivity, Economic Order Quantity and various methods of cost effectiveness in production.

04	Foundation Course- Contemporary Issues-IV	This subject makes students socially conscious about societal problems and they learn to improve their overall personality.
05	Information Technology in Business Management-II	On completion of this course, students learn the techniques to handle managerial skills in digital environment.
06	Strategic Cost Management	Students learn the skill of analysis, evaluation and synthesis in cost and management accounting. Taking decision in controlling cost.
07	Corporate Restructuring	Course enables to acquire knowledge relating to legal accounting and practical implementation of corporate restructuring. Concept of internal reconstruction and amalgamation
08	Human Resource Planning & Information System	Students will understand ways of matching job requirements and Human Resource availability and explore the concept of strategic Human Resource Information Planning and to understand application of Human Resource Information System.
09	Training & Development in HRM	The students gain awareness about the function of Training & Development department in the organization. Also, they would be aware about the procedure to develop training module.
10	Integrated Marketing Communication	Course equips students with knowledge, skills and attitude in marketing communication, planning and execution.
11	Rural Marketing	The students gain awareness of rural marketing and its importance in today's environment. The students understood the strategies to be adopted to enter rural marketing.

TY BMS SEM V

Sr.No	SUBJECT	COURSE OUTCOME
01	Logistics and Supply chain management	Upon successful completion, students will be able to understand various logistics and operational aspects which will help them in reducing overall cost and providing better customer service.
02	Corporate Communication & Public Relations	Students would understand the history, theory and models of corporate public relations. They will also understand the role of PR Professional in the corporate environment.
03	Investment Analysis & Portfolio Management	Acquaint students about various concepts of finance and understand various models of techniques of security analysis and portfolio management.
04	Wealth Management	Provide an overview of various aspects to wealth management. Students will be aware of important aspects of insurance, taxation and retirement planning.
05	Risk Management	Course enables student to identify and categorize types of risk faced by organization and helps to design a risk management plan for the company to face risk.
06	Direct Taxes	Students would understand the provisions of determining residential status of individuals and they will understand the various heads of income.
07	Finance for HR	This course enables human resource management students to

	Professionals & Compensation Management	understand compensation management. Students will manage to pay structure as well as they will be able to analyze various components of pay.
08	Strategic Human Resource Management & HR Policies	Course makes them understand Human Resource Management from strategic perspectives. To understand the relationship between strategic Human Resource Management and organizational performance.
09	Performance Management & Career Planning	The students will learn the importance of performance management for their growth in future. It will enable them to implement in their work.
10	Industrial Relations	Students will gain knowledge about Industrial Relation and related concepts of Industrial Relations and their significance and applicability in industries.
11	E-Commerce & Digital Marketing	Students will get insight of E-commerce concepts. They gain the knowledge about digital marketing techniques.
12	Services Marketing	The students will understand the elements of service marketing. They will get clear concepts and enable them to quality skills.
13	Sales & Distribution Management	The students will be able to know the scope in sales and distributions. It will help them to adapt qualities that are read to be a good manager.
14	Customer Relationship Management	Students will get an insight in to Customer Relationship Management Marketing initiatives, customer service and designing Customer Relationship Management strategy and to make them understand new trends in Customer Relationship Management.

TY BMS SEM VI

Sr.No	SUBJECT	COURSE OUTCOME
01	Operational Research	Upon successful completion, students will have the knowledge to identify best techniques to solve specific problems of operational research and will develop operational research approach to decision making.
02	International Finance	Students would be familiar with fundamentals aspects of various issues associated with international finance. The course creates an awareness of the role functions of international finance in globalized market.
03	Project Management	Course creates fundamental aspects of various issues associated with performance management. Basic concepts, functions, process, techniques of performance management.
04	Strategic Financial Management	Acquaints students with contemporary issues relating to financial management. Changing scenario in banking sector. Making career in banking sector.
05	Indirect Taxes	Course provides the students an overview of Goods and Service Tax structure and working of indirect taxes.
06	HRM in Global Perspective	Students will be acquainted with knowledge of managing International Human Resource Management with skills to face

		various challenges of expatriation and repatriation. Students would face Human Resource Management competition with preparedness.
07	Organizational Development	Students gain the knowledge about the concepts of Organizational Development and its relevance in organization as well as understanding the techniques used in organization development.
08	HRM in Service Sector Management	Students will understand the significance of human element in service sector. It also helps students to know the issues and challenges of HR in various services.
09	Indian Ethos in Management	The students will learn importance of management through Indian ethics. They will learn stress management techniques and karma implementation.
10	Brand Management	The students will understand various aspects of branding marketing programs and measures of brand performance.
11	Retail Management	On completion students will learn about retail management concepts and operations and to develop an understanding of retail management terminology (merchandise management, store management, retail strategy)
12	International Marketing	The subject provides an insight on the dynamics of international marketing. This will equip students to have better understanding of international market.
13	Media Planning & Management	Students would be aware about the media Industry and its functioning and also would develop an integrated marketing plan using variety of media.
14	Project Work	Students will get practical exposure towards his/her work and job specialization, Internship enables to get specialized in their field of work. A research project undertaken by the student enable them to acquaint research and analytical skills on their area of specialization.

DEPARTMENT OF B.COM.FINANCIAL MARKETS

Programme Outcome:

This program aims to provide well trained professionals for the Financial Markets, Stock Markets, Banking Sectors, Insurance Companies, Financing companies, Mutual Funds Sectors, Alternative investment management sectors etc. to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Stock Markets agents, Investment Bankers, Merchant banking, Portfolio Managers, Marketing of Financial Services, Stock Brokers ,Research analyst etc.

Programme Specific Outcome:

The students should be able to understand, analyse and possess the knowledge, skills and attitudes required for being a Financial Markets professional during the end of the B.Com (FM) degree course. By virtue of the training and curriculum, they can become an Portfolio Managers, Investment Bankers , Merchant Bankers , Research Analyst , Financial Analyst , Stock brokers, Mutual Fund Agents, Accountants, Bank Managers, Company Secretaries, Teachers, Professors, Stock Agents, Government jobs etc.,

F.Y.B.Com. (Financial Markets) Semester I		
Sr. No	Course	Course Outcome
1	Financial Accounting I	The course focuses on detailed understanding of accounting information system, accounting concepts, accounting principles, accounting cycle, recording of transactions, and financial statement concepts
2	Introduction of Financial System	The students will be able to identify different types of financial markets and instruments. They will get knowledge of Financial markets regulators and systems in India
3	Business Mathematics	Students will be introduced to Ratio- Definition, Continued ratio, Inverse Ratio, Terms and formulae, Trade discount, Cash discount, problems involving cost price .This will enhance their analytical skills in business
4	Business Communication I	Students are introduced to communication skills, understand the methods of communication improve LSRW and practice those skills in their daily life.
5	Foundation Course I	The course will have an increased understanding and sense of pride about the country in the minds of the students. They will have increased emotional intelligence and empathy.
6	Business Environment	The Students will acquire knowledge of the environment in which businesses operate, the economic operational and financial framework with particular application to the transaction of insurance business
7	Business Economics	The students acquire the knowledge of Demand forecasting in sales management, Price fixing, market competitors, and management business economically.
F.Y.B.Com. (Financial Markets) Semester II		
Sr. No	Course	Course Outcome
1	Financial Accounting II	Students will be able identify the main financial statements and their purposes. Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to solve a variety of business problems.
2	Principles Of Management	Demonstrate critical thinking when presented with managerial problems and express their views and opinions on managerial issues in an articulate way. Identify and explain the importance of the management process and identify some of the key skills required for the contemporary management practice
3	Business Statistics	The students will acquire a knowledge of Elementary Statistics which will prepare students for their future careers in business
4	Business Communication II	Students will demonstrate written communication skills appropriate for business situations. Will demonstrate effective interpersonal skills and work effectively in teams.
5	Foundation Course II	Students will understand the importance of Environment Studies in the current developmental context; Concept of Human Rights; Significance of values, ethics and prejudices in developing the individual personality

6	Environment Science	The course aims to enlighten students regarding the aspects relating to environment, and ecology. On successful completion of the course, the students will develop sensitivity towards the environment and will gain knowledge for assessment and management of the Environment.
7	Computer Skills I	Students will be equipped to set up logical storage locations on your hard drive so that you can easily store and retrieve information. Create a word document and navigate your way around the basic applications Create an excel workbook and navigate you way around the basic applications

S.Y.B.Com. (Financial Markets) Semester III

Sr. No	Course	Course Outcome
1	Debt Markets I	Understand the basic features of a debt security in primary and secondary markets and risks in holding and trading bonds
2	Equity Markets I	This subject will help the students to acquaint with the terms and techniques of equity markets.
3	Portfolio Management	The Course will provide an insight and understand of different financial assets and the benefit of diversification of holding a portfolio of assets using derivative securities to manage their investment risks.
4	Business Law-I	Students shall be acquainted with the laws relating to manage business
5	Foundation Course In Financial Markets III(Money Markets)	Students will gain in depth knowledge of money markets, its relevance in Indian Financial System.
6	Management Accounting	It will help students to recognize commonly used financial statements, their components and how information from business transactions flows into these statements. This will enhance business decision making skills
7	Computer Skills - II	Students will gain good insight, Skills and practical knowledge of computers.

S.Y.B.Com. (Financial Markets) Semester IV

Sr. no	Course	Course Outcome
1	Debt Markets II	The students will have an in depth understanding of the bond market, the pricing rates and interest structure of various bonds along with their varying risk factors.
2	Equity Markets II	The students will have more understanding of Equity Culture and trading system prevailing in India .
3	Commodities Derivatives	Students shall acquire the knowledge of different types of Commodities exchanges and trade in Financial Markets and how to invest in Commodity derivatives
4	Business Law II	The students will have understanding of Company law, laws relating to Security Market and its implication in modern world
5	Foundation Course In Financial Markets	This subject will enable the students to acquire knowledge about the working & operations system of foreign exchange markets in India.

	IV (Foreign Exchange Markets)	
6	Corporate Finance	The subject will help the students to prepare a company's optimal mix of debt and equity financial plan and how to compensate shareholders in the most convenient way.
7	Business Economics II	This course would give students an insight into the dynamics of macroeconomics and international economics. This course would also lay a foundation to prepare students to be successful in upper division finance, marketing, business administration, economics, government and social work courses.

T.Y.B.Com. (Financial Markets) Semester V

Sr. no	Course	Course Outcome
1	Financial Derivatives	The students will get acquaintance with nature of derivatives, trading mechanisms and the key variables that determine their market values. The students will also learn to identify and critically evaluate types of risk and various hedging strategies to the identified risk.
2	Direct Tax - Income Tax	The students will learn basic provisions of direct tax laws and its interpretations along with the chargeability of incomes under different heads.
3	Technical Analysis	The students will learn to identify Risk Management issues related to market positions & become familiar with practical trading techniques
4	Marketing in Financial Services	After Completion of this course the Students will learn the importance of marketing of financial services and understand the various means of marketing the financial services.
5	Equity Research	The students will learn the basics of research and the methods of Equity research and its importance in Financial Markets.
6	Business Ethics and Corporate Governance	The students will learn the importance of ethics in business and acquire knowledge of Corporate Governance in Business.

T.Y.B.Com. (Financial Markets) Semester VI

Sr. no	Course	Course Outcome
1	Risk Management	The subject will help the students to identify and categorize the various risks face by an organization and design a risk management program for a business organization
2	Organizational Behavior	Students should understand the ways of human behaviour at organisation. To aid them in the area of study of understanding, prediction and control of human behaviour at work.
3	Indirect Tax- GST	After successful completion of the course, students should be in a position to understand basic provisions of goods and service tax laws and its interpretations and Practical implementation of provisions relating to registration liability, input tax credit and output tax liability.
4	Mutual Fund Management	The subject will enhance the ability of students to identify potential of mutual fund as an Investment Avenue and how to invest in mutual

		fund
5	Strategic Corporate Finance	The subject will help to understand the role of the organization's financial managers in realizing the strategic objectives and evaluating the different sources of corporate finance and policy in respect of risk management (via insurance, derivatives, and other instruments)
6	University Project	The University project will enhance the students' practical knowledge of financial Markets through research.

DEPARTMENT OF B.Sc. II INFORMATION TECHNOLOGY

PROGRAMME OUTCOME

- Apply the knowledge of Technology, Mathematics, Networks and computing in the core information technologies.
- Identify, design, and analyze complex computer systems and implement and interpret the results from those systems.
- Analyze the local and global impact of computing on individuals, organizations, and society

PROGRAMME SPECIFIC OUTCOME

- Understand, analyze and develop computer programs in the areas related to web design, desktop applications, mobile applications and networking for efficient design of computer-based systems of varying complexity.
- Apply standard Software Engineering and Software Project Management practices and strategies in software project development using open-source programming environment to deliver a quality product for business success.
- Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.

COURSE OUTCOMES

- Computing Fundamentals and C Programming On successful completion of this subject the students have the programming ability in C Language

F.Y.B.Sc.IT. Semester I		
Sr.No	Course	Course Outcome
1.	Communication Skills	<ul style="list-style-type: none"> • This course is designed to give students a comprehensive view of communication, its scope and importance in business. • The role of communication in establishing a favourable relationship outside the firm environment, as well as an effective internal communications program.
2.	Digital Electronics	<ul style="list-style-type: none"> • To understand number representation and conversion between different representation in digital electronic circuits. • To analyze logic processes and implement logical operations using combinational logic circuits.
3.	Operating Systems	<ul style="list-style-type: none"> • To understand the concept's of Operating Systems • For getting more information about how system works with OS
4.	Discrete Mathematics	<ul style="list-style-type: none"> • Students are acquiring knowledge about discrete form of mathematics with practicals.

		<ul style="list-style-type: none"> • Getting the knowledge of counting principles which are in dat to day life applications.
5.	Imperative Programming	<ul style="list-style-type: none"> • To get acquainted with the concept of programming languages. • Understand how to write programs using concepts of C
F.Y.B.Sc.IT. Semester II		
Sr.No	Course	Course Outcome
1.	Green Computing	<ul style="list-style-type: none"> • To familiarize with the concept of Green Computing and Green IT infrastructure for making computing and information system environment sustainable. • Encouraging optimized software and hardware designs for development of Green IT Storage, Communication and Services and highlight useful approaches to embrace green IT initiatives
2.	Microprocessor Architecture	<ul style="list-style-type: none"> • To understand the structure and operation of modern processors and their instruction sets. • To study the basic organization and architecture of digital computers (CPU, memory, I/O)
3.	Numerical and Statistical Methods	<ul style="list-style-type: none"> • Students are able to solve the simultaneous equations. • Getting the knowledge to integrate the functions by iterative methods.
4.	Object oriented Programming	<ul style="list-style-type: none"> • Understanding difference between Procedural and Object Oriented Programming • Be able to create applications and write programs implementing object oriented concepts.
5.	Web Programming	<ul style="list-style-type: none"> • To be able to implement HTML5 to design dynamic websites. • To be able develop dynamic websites using PHP.

S.Y.B.Sc.IT. Semester III		
Sr.No	Course	Course Outcome
1.	Applied Mathematics	<ul style="list-style-type: none"> • Apply mathematical concepts and principles to perform computations. • Apply Mathematics to solve problems.
2.	Computer Networks	<ul style="list-style-type: none"> • To understand the concepts of networking. • To get an idea about how to connect different elements of networking
3.	Python Programming	<ul style="list-style-type: none"> • Student will be able to explain basic principles of Python programming language and implement object oriented concepts • Implement database and GUI applications
4.	DBMS	<ul style="list-style-type: none"> • Master concepts of stored procedure and triggers and its use and to Learn about using PL/SQL for data management • Understand concepts and implementations of transaction management and crash recovery & importance of dbms in today's world
5.	Data Structures	<ul style="list-style-type: none"> • To impart the basic concepts of data structures and algorithms • To implement different operations on the data structures for data management

S.Y.B.Sc.IT. Semester IV		
6.	Computer Graphics And Animation	<ul style="list-style-type: none"> • Student understood the basic principles of 2D, 3D computer graphics. • The elementary mathematics techniques that helps them to position objects in three dimensional space & effect of light on the object surface for rendering
7.	Computer Oriented Statistical Technique	<ul style="list-style-type: none"> • Calculate and apply measures of location and dispersion –grouped and ungrouped data cases. • Perform Test of Hypothesis in Research areas.
8.	Core Java	<ul style="list-style-type: none"> • Student should be Able to understand basic concepts of Java such as operators, classes, objects, inheritance, packages,Enumeration and various keywords. • Student should be able to apply and do proper implementation of the concept of Event Handling and Abstract Window Toolkit.
9.	Introduction to Embedded Systems	<ul style="list-style-type: none"> • Develop background knowledge of embeded system and understand various communication techniques. • Write program for various application of Embeded system and understand basics of real time operating system.
10.	Software Engineering	<ul style="list-style-type: none"> • To learn and understand different software development life cycle and software development models • To understand risk management and different software testing strategies

T.Y.B.Sc.IT. Semester V		
Sr.No	Course	Course Outcome
1.	Next Generation Technique	<ul style="list-style-type: none"> • Student should have knowledge about database which is used to understand NGT. • Student should be able to apply & do proper implementation of the concept of replica, java with mongodb, php with mogodb and python with mongodb
2.	Software Project Managemnet	<ul style="list-style-type: none"> • Student will have good knowledge of the issues and challenges faced while doing the Software project Management • Will also be able to understand why majority of the are projects fails and how that failure probability can be reduced effectively.
3.	Internet of things	<ul style="list-style-type: none"> • To understand the application areas of IOT · • To realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks ·
4.	Advance Web programming	<ul style="list-style-type: none"> • To gain Knowledge of .NET technologies framework • To understand and implement various controls for creating a web Application
5.	Linux Administration	<ul style="list-style-type: none"> • Appreciate the role of operating system as System software. • Effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks.

T.Y.B.Sc.IT. Semester VI		
Sr.No	Course	Course Outcome

1.	Software Quality Assurance	<ul style="list-style-type: none"> • Have an ability to apply software testing methods. • Have basic understanding and knowledge of contemporary issues in software testing, such as component-based software testing problems.
2.	Business Intelligence	<ul style="list-style-type: none"> • Students will be able to Explain the foundations, definitions, and capabilities of DSS, data mining, BI, decision making and knowledge management. • Students will be able to create business reporting and information visualization using different classification and clustering techniques; and apply these techniques in BI Applications
3.	GIS	<ul style="list-style-type: none"> • Improved decision making for students – decisions are made easier because specific and detailed information is presented about one or more locations. • Easy recordkeeping – geographical changes are easily recorded by GIS
4.	IT Service Management	<ul style="list-style-type: none"> • To Understand the need of IT service management in organisations • To understand the entire service life cycle in Service Management
5.	Security in computing	<ul style="list-style-type: none"> • To acquire knowledge on standard algorithms used to provide confidentiality, integrity and authenticity. • To design security applications in the field of Information technology

DEPARTMENT OF B.Sc. COMPUTER SCIENCE

PROGRAMME OUTCOME

- An ability to apply knowledge of computing and mathematics appropriate to the program's student outcomes and to the discipline.
- An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
- An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
- An understanding of professional, ethical, legal, security and social issues and responsibilities.
- An ability to communicate effectively with a wide range of audiences.
- An ability to analyze the local and global impact of computing on individuals, organizations, and society.
- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- An ability to apply design and development principles in the construction of software systems of varying complexity.

PROGRAMME SPECIFIC OUTCOME

- Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular
- To identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

- Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.
- Ability to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.
- Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

F.Y.B.Sc.IT. Semester I		
Sr.No	Course	Course Outcome
1.	Computer Organization and Design	<ul style="list-style-type: none"> • To learn about how computer systems work and underlying principles, the basics of digital electronics needed for computers • To understand the basics of instruction set architecture for reduced and complex instruction sets • To understand the basics of processor structure and operation and how data is transferred between the processor and I/O devices
2.	Database Systems	<ul style="list-style-type: none"> • Students should be able to design the database schema with the use of appropriate data types for storage of data in database. • Students should be able to create, manipulate, query and back up the databases.
3.	Descriptive Statistics and Introduction to Probability	<ul style="list-style-type: none"> • Enable learners to know descriptive statistical concepts • Enable study of probability concept required for Computer learners
4.	Discrete Mathematics	<ul style="list-style-type: none"> • To provide overview of theory of discrete objects, starting with relations and partially ordered sets, graphs and trees • Study about recurrence relations, generating function and operations on them and to Provide basic knowledge about models of automata theory and the corresponding formal languages.
5.	Free and Open Source Software	<ul style="list-style-type: none"> • students should have a good working knowledge of Open Source ecosystem, its use, impact and importance. • to learn Open Source methodologies, case studies with real life examples.
6.	Programming with Python- I	<ul style="list-style-type: none"> • Understand the concepts of programming to the students using python. • Students should be able to develop logic for problem solving.
7.	Soft Skills Development	<ul style="list-style-type: none"> • To know soft skills and learn ways to develop personality • To provide insight into much needed technical and non-technical qualities in career planning and to Learn about Leadership, team building, decision making and stress management

F.Y.B.Sc.IT. Semester II

Sr.No	Course	Course Outcome
1.	Calculus	<ul style="list-style-type: none"> • Calculate the limit of a function at a point numerically and algebraically using appropriate techniques • Interpret the derivative of a function at a point as the slope of the tangent line and estimate its value from the graph of a function.

2.	Data Structures	<ul style="list-style-type: none"> • Select appropriate data structures as applied to specified problem definition. • Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures. • Students will be able to implement Linear and Non-Linear data structures. • Implement appropriate sorting/searching technique for given problem. Design advance data structure using NonLinear data structure. 6 Determine and analyze the complexity of given Algorithms.
3.	Green Technologies	<ul style="list-style-type: none"> • Understand and realize the importance of renewable sources of energy and their applications in green technology. • Gain sufficient knowledge about the various energy sources such as wind, solar, bioenergy etc. • Design reactors and systems for energy based applications. • Provide solutions to the environmental challenges associated with energy employing renewable sources in different scenarios. • Identify, design and develop systems and processes for multi-field applications to develop solutions in an economic and energy efficient manner
4.	Linux	<ul style="list-style-type: none"> • Appreciate the role of operating system as System software. • Effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks.
5.	Programming with C	<ul style="list-style-type: none"> • Students should be able to write, compile and debug programs in C language. • To learn program involving decision structures, loops and functions , the dynamics of memory by the use of pointers and to use to use different data structures and create/update basic data files
6.	Programming with Python- II	<ul style="list-style-type: none"> • Student will be able to explain basic principles of Python programming language and implement object oriented concepts • Implement database and GUI applications
7.	Statistical Methods and Testing of Hypothesis	<ul style="list-style-type: none"> • To provide an understanding for the graduate business student on statistical concepts to include measurements of location and dispersion, probability, probability distributions, sampling, estimation, hypothesis testing, regression, and correlation analysis, multiple regression and business/economic forecasting.

SY.B.Sc.IT. Semester III

Sr.No	Course	Course Outcome
1.	Java	<ul style="list-style-type: none"> • Knowledge of the structure and model of the Java programming language, (knowledge) • use the Java programming language for various programming technologies (understanding) • develop software in the Java programming language, (application) evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements (analysis)

2.	Operating Systems	<ul style="list-style-type: none"> To provide a understanding of operating system, its structures and functioning Develop and master understanding of algorithms used by operating systems for various purposes
3.	Theory of Computations	<ul style="list-style-type: none"> Students will learn several formal mathematical models of computation along with their relationships with formal languages. In particular, they will learn regular languages and context free languages which are crucial to understand how compilers and programming languages are built.
4.	Web Programming	<ul style="list-style-type: none"> Understand the principles of creating an effective web page, including an in-depth consideration of information architecture. Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice. Develop skills in analyzing the usability of a web site.
5.	database management system	<ul style="list-style-type: none"> Master concepts of stored procedure and triggers and its use and to Learn about using PL/SQL for data management Understand concepts and implementations of transaction management and crash recovery
6.	Combinatory and Graph Theory	<ul style="list-style-type: none"> Understand the combinatorial features in real world situation. Apply combinatorial and graph theoretical concepts to solve the problems.
7.	Physical Computing and IoT Programming	<ul style="list-style-type: none"> how to design and prototype user interfaces to address the users and tasks identified in user research. learn and apply principles from graphic design, including design patterns; write a design rationale; and how to design for specific populations and situations, including principles and practices of accessible design.
8.	Skill Enhancement: Web Programming	<ul style="list-style-type: none"> Understand the principles of creating an effective web page, including an in-depth consideration of information architecture. Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice. Develop skills in analyzing the usability of a web site.

SY.B.Sc.IT. Semester IV

Sr.No	Course	Course Outcome
1.	.Net Technologies	<ul style="list-style-type: none"> To gain Knowledge of coosole application and .NET technologies framework To understand and implement various controls for creating a web Application and ajax based application
2.	Advanced Java	<ul style="list-style-type: none"> Understand the concepts related to Java Technology Explore and understand use of Java Server Programming
3.	Computer Networks	<ul style="list-style-type: none"> Learner will be able to understand the concepts of networking, which are important for them to be known as a 'networking professionals'. Useful to proceed with industrial requirements and International vendor certifications

4.	Fundamentals of Algorithms	<ul style="list-style-type: none"> Understand the concepts of algorithms for designing good program Implement algorithms using Python
5.	Linear Algebra using Python	<ul style="list-style-type: none"> Appreciate the relevance of linear algebra in the field of computer science. Understand the concepts through program implementation and Instill a computational thinking while learning linear algebra.
6.	Software Engineering	<ul style="list-style-type: none"> To learn and understand different sdlc models and working of it. To learn and understand agile methodology, risk management and project management

TY.B.Sc.IT. Semester V

Sr.No	Course	Course Outcome
1.	Game Programming	<ul style="list-style-type: none"> Learner should study Graphics and gaming concepts with present working style of developers
2.	Information and Network Security	<ul style="list-style-type: none"> Understand the principles and practices of cryptographic techniques. Understand a variety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a given application Understand various protocols for network security to protect against the threats in a network
3.	Software Testing and Quality Assurance	<ul style="list-style-type: none"> To Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance. To Understand various software testing methods and strategies, a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software.
4.	Linux Server Administration	<ul style="list-style-type: none"> students will be able carry the duties of a Unix system administer. Students will learn to do file processing, process management, IO management, queues management, networking, storage backup, account management, proper system start-up and shutting down, as well as other tasks.

TY.B.Sc.IT. Semester VI

Sr.No	Course	Course Outcome
1.	Information Retrieval	<ul style="list-style-type: none"> learner should get an understanding of the field of information retrieval and its relationship to search engines. It will give the learner an understanding to apply information retrieval models.
2.	Wireless networks	<ul style="list-style-type: none"> learner should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. implement and evaluate new ideas for solving wireless sensor network design issues
3.	Cloud Computing	<ul style="list-style-type: none"> To learn how to use Cloud Services. To implement Virtualization To implement Task Scheduling algorithms. Apply Map-Reduce concept to applications. To build Private Cloud.

4.	Ethical Hacking	<ul style="list-style-type: none">• Learner will know to identify security vulnerabilities and weaknesses in the target applications• Learner will know to test and exploit systems using various tools and understand the impact of hacking in real time machines
----	-----------------	---