

INTERNAL QUALITY ASSURANCE CELL

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

M.COM (Accountancy)

Programme Outcome:

- 1) This Programme will enable to provide a systematic and rigorous learning and exposure to Accountancy and Finance related disciplines.
- 2) This Programme will train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and Banking Transactions of a business.
- 3) Impart the students with higher level knowledge and understanding of contemporary trends in commerce and business finance
- 4) The all-inclusive outlook of the course offer a number of values based and job oriented courses ensures that students are trained into up-to-date.
- 5) 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.

M.COM. SEMESTER I

Subject	Outcome
Strategic Management	<ol style="list-style-type: none">1. On successful completion of this subject the learners would be able to understand new forms of Strategic Management concepts and their use in business.2. After gaining subject knowledge the learner would develop analytical skills which would help them to solve cases and to provide

	strategic solutions for the smooth functioning of business.
Cost and Management Accounting	<ol style="list-style-type: none"> 1) It enhances the abilities of students to develop the concept of Cost and Management Accounting and its significance in the business. 2) It enables the students to understand, develop and apply the techniques of costing in the decision making in the business corporate. 3) It enables the students to understand, develop, prepare and present the financial reports in the business corporate.
Business Ethics and Corporate Social Responsibility	<ol style="list-style-type: none"> 1. The students get awareness of Ethical way of doing business so that cordial relations can be maintained with employees, customers and community. 2. The students learn the importance of business ethics in this modern world. 3. The students understand the concept of CSR and its importance for the growth and success of business.
Economics for Business Decisions	<ol style="list-style-type: none"> 1. Once students have a foundational knowledge of core concepts, they can apply their understanding to contemporary economics issues. 2. It will help the students to appreciate resource decisions at individual and business levels.

M.COM. SEMESTER II

Subject	Outcome
E- Commerce	<ol style="list-style-type: none"> 1. On successful completion of this subject the learners would acquire the knowledge about the various dimensions of E commerce. 2. After gaining subject knowledge the learner would develop analytical skills which would help them to understand Web- based Commerce and equip the learners to assess e-commerce requirements of a business.
Research Methodology	<ol style="list-style-type: none"> 1. The students get an understanding of scope and importance of Research. 2. The students understand of use of appropriate methods in their research. 3. The students get knowledge of various statistical tools and techniques that can be used. 4. It develops data analytical skills of the students and enables them to solve research problems. 5. It gives an understanding of hypothesis, sampling, research report , research designing, etc.
Macro Economics concepts and	<ol style="list-style-type: none"> 1. This course is meant to give students insight into the dynamics of the national economy. The knowledge gained in the course will make

Applications	students better informed citizens and allow them to follow the debates over national economic policy reported in the news media. 2. This course is also a foundation course that will prepare students to be successful in upper division finance, marketing, business administration, economics, government, and social work courses.
Corporate Finance	1. Enhance the abilities of learners to develop the objectives of Financial Management 2. Enable the learners to understand, develop and apply the techniques of investment in the financial decision making in the business corporate 3. enhance the abilities of learners to analyze the financial statements

M.COM. SEMESTER III

Subject	Outcome
Direct Tax	To develop an understanding of computation of five heads of income, Income taxes laws and acquire the ability to analyze and interpret the provisions of such laws.
Advance Financial Accounting	On successful completion of this course the student are enabled with the Knowledge in the practical applications of accounting. Students get acquainted with topics like banking final accounts, accounting of foreign currency transaction and accounting and statutory requirement of insurance company.
Advance Cost Accountancy	1. Understanding the practical application of cost accounting in process industries, activity based costing. 2. The students will have an understanding about target costing, transfer pricing and inflation accounting.

M.COM. SEMESTER IV

Subject	Outcome
GST	1. To make students aware of GST and its advantages. 2. To make students understand constitutional provisions of tax laws. 3. To understand concept of time of supply and place. 4. To make students learn procedural aspects for Registration under GST. 5. To learn importance of Invoice under GST regime.
Corporate Accounting	1. The students will be aware of the accounting treatment in relation to amalgamation and the relevant accounting standards. 2 The students will gain knowledge about Holding and subsidiary company.
Advance Financial	1. The students will have understanding about the capital

Management	<p>budgeting decisions and various techniques used for capital investments decisions.</p> <p>2. The students will be able to understand the working capital management techniques like management of cash, management of receivables and management of inventory.</p>
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M.Sc. INFORMATION TECHNOLOGY

Programme Outcome:

- 1) To equip postgraduate students with an integrated set of skills that will allow them to develop their professional careers in Information Technology.
- 2) To equip students with the theoretical and practical knowledge that is necessary to enable them to understand the design of complex computer application/science.

Programme Specific Outcome:

- 1) The program helps students to acquire the latest skills and build their future capabilities using world-class technology.
- 2) Skills to work with higher end applications in internet technologies; also managerial ability to analyze, design, develop and to maintain software development.

Semester	Course	Course Outcome
M.Sc. I. T. Part I SEM I	Data Mining	<ol style="list-style-type: none"> 1. Understand the functionality of the various data mining and data warehousing component. 2. Appreciate the strengths and limitations of various data mining and data warehousing models.
	Distributed System	<ol style="list-style-type: none"> 1. Identify the advantages and challenges in designing distributed algorithms for different primitives like mutual exclusion, deadlock detection, agreement, etc. 2. Design and develop distributed programs using sockets and RPC/RMI
	Data Analysis Tools	<ol style="list-style-type: none"> 1. Understanding Tools and Techniques used for Scientific Computing 2. Understanding how to use hypothesis testing
	Software Testing	<ol style="list-style-type: none"> 1. Learn different techniques used to do testing in the software industry 2. understand How to use them
M.Sc. I. T. Part I SEM II	Mobile Computing	<ol style="list-style-type: none"> 1. The purpose of this course is to build interest in understanding the mobility of systems, users, data, and computing 2. Data management issues in mobile environments. Integration of wired and mobile, wireless systems
	Advanced Computer Networks	<ol style="list-style-type: none"> 1. The course is aimed at providing basic understanding of Computer networks starting with OSI Reference Model, Protocols at different layers with special emphasis on IP, TCP & UDP and Routing algorithms.

		2. Some of the major topics which are included in this course are TCP/IP implementation, LANs/WANs, internetworking technologies, Routing and Addressing.
	Cloud Computing and Ubiquitous System	1. Learn what is distributed System Models and Enabling Technologies 2. Understand Public Cloud Platforms like GAE, AWS, and Azure:
	Advanced Database Systems	1. Understand the role of a database management system in an organization. 2. Understand the role of the database administrator.
M.Sc. I. T. Part II SEM III	Embedded Systems	1. To provide in-depth knowledge about embedded processor, its hardware and software 2. To explain programming concepts and embedded programming in C and assembly language
	Information Security Management	1. Understand how to ensure the confidentiality, integrity and availability of an organization's information, data and IT services. 2. To Understand ITIL Security Management usually forms part of an organizational approach to security management
	Virtualization	1. To understand how System, Process and other Virtualization Technologies are likely to develop. 2. To distinguish System and Process Virtualization.
	Artificial Neural Networks	1. Concepts and understanding of artificial neural networks. 2. Fuzzy logic basic theory and algorithm formulation
	Digital Image Processing	1. To cover the fundamentals and mathematical models in digital image and video processing. 2. To develop time and frequency domain techniques for image enhancement.
	Ethical Hacking	1. Finding the importance of ethical hacking tools 2. Understanding the ethical hacking process
	M.Sc. I. T. Part II SEM IV	Artificial Intelligence
IT Infrastructure Management		1. Identify the critical infrastructure choices necessary for sustainable community development; 2. Develop an understanding of how current municipal decision-making may lead away from the achievement of sustainability objectives;
Intelligent System		1. Learner will understand the principal achievements and shortcomings of AI 2. The difficulty of distinguishing AI from advanced computer science in general
Real Time Embedded System		1. To learn fundamentals of operating system. 2. To study implementation aspects of real time concepts. 3. To study example RTOSs and applications
Computer		1. Understanding computer forensics

	Forensics	2. Understanding partitioning
	Design of Embedded Control Systems	1. The ability to analyze, design, test and maintain complex embedded systems. 2. The ability to describe, validate and optimize embedded electronic systems in different areas of industrial application.
	Advanced Image Processing	1. To enable learner to implement solutions for complex image processing problems. 2. To enable learner understand advanced methodology that is discussed in the image processing and image analysis
	Cloud Computing	1. Understand the underlying principle of cloud virtualization, cloud storage, data management and data visualization. 2. Understand different cloud programming platforms and tools.
	Project	1. Learn to work on a real-life project 2. The student can formulate a project problem with the help of her/his Guide and submit the project proposal of the same

M.Sc BIOTECHNOLOGY

PROGRAMME OUTCOMES:

Programme outcome of M.Sc Biotechnology is to produce competent biotechnologist's who can employ and implement their knowledge base in premium processes and applications which will profoundly influence or utilized for existing paradigm of agriculture, industry, healthcare and restoration of degraded environment to provide sustainable competitive edge to present society. Students will exhibit contemporary knowledge in Biotechnology and students will be eligible for doing jobs in various sectors of pharmaceutical and biotechnological industry.

PROGRAMME SPECIFIC OUTCOMES:

Students will be able to design, conduct experiments, analyze and interpret data for investigating problems in Biotechnology and allied fields.

To equip the students to apply knowledge of molecular mechanisms of cellular processes in living systems including microbes, plants, and higher order organisms to applied aspects.

Understand the potentials, and impact of biotechnological innovations on environment and their implementation for finding sustainable solution to issues pertaining to environment, health sector, agriculture, etc.

Address the increasing need for skilled scientific manpower with an understanding of research ethics involving animals and humans to contribute to application, advancement, and impartment of knowledge in the field of biotechnology globally.

COURSE OUTCOMES:

Course		Course Outcome
Part I Sem I	Biochemistry	Recognize the structures and functions of biomolecules as well as understand inborn errors of metabolism. Use an understanding of neurophysiology principles to associate the effects of psychopharmacology on human development and pathological behavior.
	Immunology	Conceptualize how the adaptive immune responses coordinate to fight invading pathogens and the organs and tissue involved. Understand the various antigen -antibody reactions.
	Molecular Biology	Discuss the mechanisms associated with Gene Expression and its regulation at the level of Transcription and Translation in prokaryotes and eukaryotes. To give insight about processes and applications in genomics and proteomics in the growing field of biotechnology.
	Biochemical and Biophysical techniques	Develop an understanding of the different aspects of classical Physics. Be able to relate principles of Physics to applications and techniques in the field of Biology such as Microscopy, Spectroscopy, chromatography and Immunotechniques.
Part I Sem II	Metabolism	Be able to discuss the Metabolic Pathways of Carbohydrates and Lipids and understand the processes of photosynthesis, nitrogen fixation and their significance. Discuss the concepts of stress tolerance in plants.
	Immunology	Understand the concept of autoimmune disorders, cancer and their immunotherapy. Learn about techniques to study CMI and various cell imaging techniques. Be able to correlate CNS to immune system and <i>vice versa</i> .
	Bioprocess Technology	Describe the applications of microbes and its strain improvement in Industrial Microbiology. Apply kinetic formula to determine growth and productivity parameters of batch continuous, fed batch and solid substrate fermentations. Describe the design of bioreactors for different applications and its process parameters. Design media, growth conditions and techniques for producing and recovering different types of products of commercial value.
	IPR and Biosafety	Why India has adopted an IPR Policy and be familiar with broad outline of patent regulations; Understand different types of intellectual property rights in general and protection of products derived from biotechnology research and issues related to application and obtaining patents. Gain knowledge of biosafety and risk assessment of products derived from recombinant DNA research and environmental release of genetically modified organisms, national and international regulations.

Part II Sem III	PTC and ATC	Understand the role of secondary metabolites and its biosynthesis. Discuss the principles underlying various cell preservation methods. Comment on the use of various animal tissue culture techniques.
	Medical Biotechnology	Discuss the chromosomal defects leading to genetic disorders & its diagnosis. Understanding the mode of transmission, prophylaxis and lab diagnosis of microbial diseases. Elaborate the significance of biofilms in medicine.
	Clinical studies	Elaborate on the scientific methods of drug discovery process, testing of new drugs and toxicity analysis. Explain the steps involved in documentation and management of clinical data
	Developmental Biology	Understand the developmental events. Explain the molecular mechanisms underlying developmental processes. Comment on recent advances & ethical issues in embryo research
Part II Sem IV	Nanotechnology	Discuss the characteristics and methods of synthesizing nanomaterials and CNTs. Describe examples of nanorobotics found in nature. Understand different applications of nanomaterial in Biology
	GMO and Environment	Discuss the applications & ethical issues of GMO. Develop an understanding about various GMO safety evaluation studies. Understand environmental crisis and describe various biological treatment strategies.
	Bioinformatics	Develop an understanding of the basic theory of computational tools. Gain working knowledge of these computational tools and methods. Appreciate their relevance for investigating specific contemporary biological questions and critically analyse and interpret the results of their study.
	Biostatistics	Understand fundamental ideas on the usefulness of data analysis, interpretation and inference based on experimental data collected from the conduct of biological experiments. Apply the statistical approaches in the biological research.