



Smt. Shyampatidevi Mishra Educational Trust's

SHRI G.P.M. DEGREE COLLEGE

Affiliated to University of Mumbai www.shrigpmcollegeandheri.org shrigpm@gmail.com

MG Road, Vile Parle (E), Mumbai – 400057. ☎ : 8928387200

CRITERIA 2.6.1
PROGRAMME OUTCOMES (POs)
AND
COURSE OUTCOMES (COs)



Atul Yadav

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2.6.1 Programme Outcomes (POs) & Course Outcomes (COs)

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4.	Programme Outcomes & Course Outcomes of B.M.S.
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2.6.1 Shri G.P.M. Degree College is keen on teaching learning and evaluation process. The HEI follows the Curriculum of University of Mumbai being an affiliated college. HEI self-neither construct program and courses, University of Mumbai develop curriculum for BMS, BAMMC, BAF & B.Sc. CS with specific program outcome and course outcome HEI has to execute the quality education process with POs and Cos. **HEI uploaded the POs and Cos on the college website for reference to every stakeholder including students, parents, alumni and employers.**

1. Evaluation Process: The program outcomes and Program Specific outcomes are assessed with the help of course outcomes of the relevant program through direct evaluation process. It is provided through University Examinations, terminal exams. internal and home assignments, unit tests. Students under university examination are evaluated for 75% of total marks and institution for 25% marks as internal assessment. Evaluation outcome is about 60-80% of all courses.
2. Industrial Outcome: The Institution has carried Industrial Visit Program, B.M.S. and BMM (B.A.(MMC)) departments has organized Education Trip. Industrial outcome is to increase the industrial and practical knowledge of students.
3. Placements: One of the most important Program Outcomes of Undergraduate Degree is the employability of students upon successful completion of their degree program. The college has a vibrant Placement Cell, which caters to the demands of companies from different sectors.
4. Higher Studies: Another parameter to measure attainment of POs and COs is through progression of students towards higher studies in educational institutions in India and for post-graduation in Indian and Foreign Universities.

The HEI is very keen on Quality and Quantity education in programs and courses.

The POs and COs to treat as guidelines and pathways for teaching learning and evaluation process. The COs and POs are considered as directions to get better education.



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**PROGRAMME OUTCOMES (POs)
COURSE OUTCOMES (COs)
OF
BACHELOR OF BANKING AND
INSURANCE**



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B.Com. (Banking and Insurance)

Program Outcome

- **Good Communication Skills:** Good communication skills are essential for professionals in the field of banking and insurance, including those with a Bachelor's degree in Banking and Insurance. Effective communication is crucial in establishing and maintaining strong relationships with clients, colleagues, and stakeholders.
- **Ability to handle customers:** A Bachelor of Banking and Insurance program typically equips graduates with a strong foundation in financial and insurance principles, as well as practical skills related to customer service and relationship management
- **Basic knowledge about Banking and Insurance industries:** The banking industry plays a crucial role in the financial system by facilitating the flow of money, providing various financial services, and supporting economic activities. The insurance industry is designed to provide financial protection against various risks by offering insurance policies.
- **Specialization in certain areas like credit appraisal skills:** Specializing in credit appraisal skills can be a valuable focus for a Bachelor of Banking and Insurance. Credit appraisal is a critical function in the banking and financial industry, involving the evaluation of a borrower's creditworthiness and the risk associated with lending money.
- **Skills to manage huge loan files and foreign exchange:** Managing huge loan files and foreign exchange in the context of banking and insurance requires a combination of technical skills, financial acumen, attention to detail, and regulatory awareness.



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Course outcome B.Com. (Banking and Insurance)

FY B.Com. (B&I) - Semester I

1. Environment and Management of Financial Services

- To impart to students an understanding of how banks and insurance businesses operate.
- To learn about financial regulators, financial instruments, and Indian financial markets
- To assist students in understanding the vital role that banks and insurance play in today's environment.

2. Principles of Management

- To study leadership using real-world business leader examples. An overview of the notion of management and its roles.
- To know concept of planning, decision making, controlling, staffing, organizing etc. and to understand new approaches in management

3. Financial Accounting I

- To be familiar with fundamental accounting terms such as bank reconciliation statements, subsidiary books, journals, ledgers, and journal proper.
- to acquire an understanding of AS 10 (fixed assets) and AS -6 (depreciation).
- To comprehend the final account closure of the year for partnerships and individual proprietorships.

4. Business Communication – I

- knowledge and comprehension of the fundamentals of corporate and international communication.
- Students will gain business correspondence abilities in addition to developing their general personalities and communication skills.

5. Foundation Course – I

- To educate students about Indian culture.
- To comprehend Indian society's multi-cultural variety.



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- c. To comprehend the Indian constitution and political systems recognized main causes for disparities and issues affecting women.

6. Business Economics – I

- a. To increase understanding of economies of scale, production function, break even analysis, and demand-supply analysis.
- b. To comprehend market arrangements such as oligopoly, monopoly, monopolistic competition, and perfect competition.
- c. To acquaint the students with the economic principles as are applicable in business

7. Quantitative Methods – I

- a. To comprehend index numbers and how the banking and insurance industries use them.
- b. to impart a basic understanding of statistical methods that are relevant to business.
- c. To Develop graphical presentation

FY B.Com. (B&I) - Semester II

1. Principles and Practices of Banking & Insurance

- a. To Study banking sector in India and Insurance sector in India
- b. To awareness of the fundamentals of both banking and insurance

2. Business Law

- a. It provides Knowledge and understanding of Indian Contract Act 1872 and special contracts.
- b. It provides Knowledge of Consumer Protection Act, 1986
- c. Knowledge and understanding of the sale of Goods Act 1930 and Negotiable Instruments Act 1881.

3. Financial Accounting – II

- a. It helps student to understanding valuation of goodwill and Buyback of equity shares and redemption of Preference Shares Redemption of debentures

4. Business Communication – II

- a. To Understand of presentation skills and making of power point presentation.



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- b. Understanding of group communication – interviews, meetings, conference and public relation.
- c. Understanding business correspondence, language and writing skills

5. Foundation Course – II

- a. It focusses on understanding the concepts of liberalization, privatization and globalization and its requirement in the economy.
- b. It focuses on importance of Environment Studies in the current developmental context

6. Organizational Behavior

- a. To Study organizational behavior with respect to motivation in banking and insurance sector
- b. To Understand group dynamics.
- c. To Develop organizational culture and organizational development

7. Quantitative Methods – II

- a. It helps student to understand Testing of Hypothesis and Calculation of Ratio, Proportion and percentage Application of statistics in Investments.

SY B.Com. (B&I) - Semester III

1. Financial Management – I

- a. To understand Concept of finance and sources of finance Knowledge and understanding of financial management Financial planning and Capital budgeting Management Accounting (Tools & Techniques, Focus on Banking & Insurance)

2. Management Accounting (Tools & Techniques, Focus on Banking & Insurance)

- a. To impart basic management accounting knowledge as applicable to business
- b. To give business accounting knowledge with suitable illustrations

3. Risk Management

- a. To understand about risk management in Banking Sector
- b. To understand the different kinds of risk and how to deal with them.
- c. To give the knowledge about calculation of risk in banking sector.



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4. Information Technology in Banking & Insurance – I

- a. To help students to get familiar with the concept of Electronic Commerce its Architectural Framework, Media convergence, Applications, Market forces influencing the way with its Components and the Technology behind the web, Security and the Web.
- b. To give the knowledge about Office automation software which can use used in practical life for projects making, to solve problem using functions in excel sheets and also learn making presentation.
- c. Foundation Course - III (An Overview of Banking Sector)**
 - a. To understand the banking industry in India
 - b. Understand the concept of difference between retail banking and corporate banking.
- d. Financial Markets**
 - a. To give clear understanding of financial markets in India
 - b. To give the knowledge about trading and investment in stock market thus providing them with better skill and career options.
 - c. To understanding of Derivatives as a tool of risk management and efficient price discovery
- e. Direct Taxation**
 - a. To calculate the different residential status of individuals.
 - b. To understand the concept of different heads of income
 - c. To learn skills for computation of deductions from total income and calculate the total taxable income of individual

SY B.Com. (B&I) - Semester IV

1. Financial Management – II

- a. To get theoretical and practical knowledge of financial management in banking and insurance.
- b. To learn importance of risk in context of financial decision making.
- c. To gain knowledge of different types of budget.



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2. Cost Accounting

- To understand different types of cost.
- To understand the standard costing technique to calculate variances with respect to material, labor and overhead.
- To learn the marginal costing techniques

3. Wealth Management

- To provide the overview of various aspects of wealth management
- To study the importance of investment planning in wealth management
- To acquaint the learners with tax planning and estate planning

4. Information Technology in Banking & Insurance – II

- To get acquainted with different E-banking Business Models followed by Induction of Techno Management with its Development Life Cycle, Building Data Centers and also DBMS role in banking with the concept of (Data Warehousing and Data Mining).
- They also study Trends in Banking and Information Technology with Lead Role of Reserve Bank of India and New Horizons for Banking based IT.
- To give the knowledge about Credit Information Bureau (I) Ltd., Credit Information Company Regulation Bill- 2004, and Automation in Indian Banks with technologies like (MICR, Teleconferencing, Internet Banking, Digital Signature)

5. Foundation Course - IV (An Overview of Insurance Sector)

- To understand the concept of life insurance business and traditional and nontraditional life insurance products.
- To gain knowledge of health, home and motor insurance.
- To understand the role of insurance in logistics.

6. Corporate and Securities Law

- To understand community will have a simplified approach in understanding corporate laws and other related laws.
- To provide an insight of various beneficial social legislative measures for building the corporate industry.



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- c. To offer the students case study and legal interpretation of laws required in the field.

Case studies and group discussion can be held

7. Business Economics – II

- a. To understand the concept of national income and relationship with economic welfare.
- b. To understand the objectives and instruments of fiscal policy.
- c. To gain knowledge of basis and intricacies of international trade

TY B.Com. (B&I) - Semester V

1. International Banking and Finance

- a. To understand the basics of international finance and its allied concepts.
- b. To acquire the knowledge of different international capital markets to the students.
- c. To understand the reasons for growth and recent trends in international banking

2. Research Methodology

- a. To understand and learn the different modes of sample selection through probability and non-probability sampling. future.
- b. To helps students to learn and apply the different sources of primary data collection which is helpful for their research projects.
- c. To enabling them to take on responsibilities into research of market and finance in the Future.

3. Financial Reporting & Analysis (Corporate Banking & Insurance)

- a. To understand the student about not just the preparation of these accounts but also how to read them and understand them.
- b. To enlightens the students about the international accounting system through the IFRS.

4. Auditing – I

- a. To gain knowledge of difference between auditing, accounting and investigation.
- b. To understand various concepts like audit program, audit notebook and other allied concepts



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- c. To gain knowledge of different auditing techniques like verification and vouching

5. Strategic Management

- a. To study about innovative thinking, a strategic planning process and operational strategizing
- b. To learn the Strategic business management, more specifically, relies largely on research. It is imperative that for a business meeting, have trustees with valued and varied experience, and to carefully consider the impacts of decisions on each business function within the organization

6. Financial Service Management

- a. To understand the important segment of Financial System.
- b. To understand the subject, that will equip the students in the corporate world to manage Finance and Credit.
- c. To help the students to face the challenges in the corporate world through management of fee based and fund based services.

TY B.Com. (B&I) - Semester VI

1. Central Banking

- a. To understand the concept and growth of central banking in India
- b. To gain knowledge of the role played by RBI as central Bank in India Vis a Vis the role of other central banks across the world.
- c. To understand the need for central bank in the cyber world

2. Security Analysis and Portfolio Management

- a. To acquaint the learners with various concepts of finance
- b. To understand the terms which are often confronted while reading newspaper, magazines etc. for better correlation with the practical world.
- c. To understand various models and techniques of security and portfolio analysis.

3. Auditing – II

- a. To gain knowledge of auditing of banking, insurance and limited companies.
- b. To acquire the knowledge of new areas and trends in auditing.



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c. To understand the need for professional ethics in the auditing process

4. Human Resource Management

- a. To understand the need and objectives for human resource management with respect to the banking sector.
- b. To gain knowledge of various aspects of Human Resource management and make them acquainted with practical aspect of the subject.
- c. To understand concepts like recruitment, training, development and compensation with reference to the banking sector

5. Turnaround Management

- a. To gain knowledge of the different types of business organizations and approaches for their growth and survival
- b. To analyze the different internal external symptoms of industrial sickness.
- c. To visualize how turnaround management is a skill.

6. Project work in Banking and Insurance

- a. To understand the importance of research.
- b. To give the practical knowledge about sampling and data collecting, processing of data



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PROGRAMME OUTCOMES (POs)
COURSE OUTCOMES (COs)
OF
BACHELOR OF COMMERCE
(ACCOUNTS AND FINANCE)



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B.Com. (Accounts and Finance)

Program Outcome

- **Adequate knowledge and understanding about accounting and finance subjects:** A Bachelor of Accounting and Finance program provides a comprehensive understanding of key concepts in accounting and finance. Students cover areas such as financial accounting, managerial accounting, taxation, auditing, finance, economics, business law, financial management, risk management, and professional ethics.
- **Adequate exposure to the operational environment in the field of accounting and finance:** The statement emphasizes the importance of gaining sufficient experience and familiarity with the practical aspects of accounting and finance within a professional setting. It suggests that individuals in these fields should seek substantial exposure to real-world operational scenarios to enhance their skills and understanding. This hands-on experience is crucial for developing practical knowledge and proficiency in accounting and financial practices.
- **Preparation to exploit opportunities being newly created in the field of accounting and finance:** To exploit opportunities in accounting and finance, stay informed on industry trends, embrace technology, and continually enhance skills through education and certifications. Develop analytical and critical thinking skills, specialize in niche areas, and build a strong professional network. Adapt to regulatory changes, prioritize ethical practices, and focus on soft skills. Consider global opportunities and position yourself to capitalize on emerging developments in the dynamic financial landscape.
- **Knowledge of analytical skills in the areas of finance, marketing, human resource etc.:** Analytical skills are essential in various business domains, including finance, marketing, and human resources. In finance, professionals use analytical skills to assess financial data, make informed investment decisions, and manage risks. In marketing, analysis helps in understanding



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- consumer behavior, market trends, and the effectiveness of campaigns. Human resource professionals use analytical skills to evaluate workforce performance, optimize recruitment processes, and implement effective employee development strategies. Overall, analytical skills enable professionals to gather, interpret, and leverage data for strategic decision-making, problem-solving, and performance improvement across diverse business functions.
- **Holistic knowledge of data analytics, Robotic process, Automation and Block chain technology:** A holistic understanding of data analytics involves analyzing and interpreting data for informed decision-making. Robotic process automation automates repetitive tasks, while automation encompasses a broader use of technology for process optimization. Block chain technology provides a secure and transparent decentralized ledger for various applications. Together, these areas contribute to the evolution of efficient, data-driven, and secure business practices.



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Course outcome B.com (Accounts and Finance)

FY B.Com. (A&F) - Semester I

1. Financial Accounting – I

- To discuss concepts, benefits, procedures for the issue of Accounting Standards.
- To evaluate cost of inventory applying different valuation methods FIFO and Weighted Average method.
- To classify receipts and expenditure into capital, revenue and deferred revenue.
- To prepare final accounts of manufacturing concerns.
- To prepare departmental trading and profit and loss accounts and balance sheets

2. Cost Accounting – I

- Identify the differences between cost accounting and financial accounting.
- Point out to the advantages of adopting cost accounting as against financial accounting
- Identify and classify transactions on different bases and allocate them under the correct class.
- Handle documentation with regard to inventory in an organization.
- Classify the levels of stock lying in a company into different categories and examine them accordingly.

3. Financial Management – I

- To discuss meaning, scope, importance and objectives of financial management.
- To discuss various concepts of valuation viz. Present value, annuity, time value of money, discounting and compounding techniques.
- To interpret different types of leverages viz. operational, financial and combined.
- To illustrate the relationship between operational and financial leverage.
- To analyze the need and different sources of finances long term, medium term and short term.

4. Business Communication – I

- Distinguish between verbal and non- verbal communication.
- Identify various modes of communication.



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- c. Draft effective jo letters like cover letter, jo acceptance letter and resignation letter.
- d. Participate in debates and elocution thereby overcoming stage fear.
- e. Prepare curriculum vitae for self and others.

5. Foundation Course – I

- a. Discuss violence against women and portrayal of women in India.
- b. Identify inequalities faced by people with physical and mental disabilities.
- c. Examine inequalities due to Caste system and inter group conflicts.
- d. Narrate issues on Communalism and Regionalism.
- e. Discuss philosophy of constitution of India, its structure, Preamble and features

6. Business Environment

- a. Discuss Business Objectives, Dynamics of Business and its Environment, Types of Business Environment.
- b. Perform Environmental Analysis using PESTEL Analysis & SWOT Analysis.
- c. Discuss Ethical Dilemmas, Corporate Culture and Ethical Climate.
- d. Develop Entrepreneurship as a Career Option.
- e. Examine Consumerism in India & discuss Consumer Protection Act 1986.

7. Business Economics – I

- a. To learn the working of micro variables of the economy
- b. To analyze the working of demand and supply curves, while being able to see the impact of it on the economy



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FY B.Com. (A&F) - Semester II

1. Financial accounting – II

- a. To identify nature of single entry book system.
- b. To identify methods of branch accounting under dependent and independent methods.
- c. To calculate claims under fire insurance policy.
- d. To identify accounting rules of consignment accounting and valuation of stock.

2. Auditing – I

- a. Examine the basic concepts, principles and types of auditing.
- b. Appraise Internal Audit and compare with Internal Check and External Audit
- c. Understand the Audit Program and Audit Planning.
- d. Explain the Audit Sampling techniques and their types.

3. Business Laws – I

- a. Explain the concepts of offer, acceptance, agreement, contract and its various essentials.
- b. Compare offer and acceptance, agreement and contract.
- c. Describe essential of a valid contract in detail with illustrations.
- d. Analyze and infer modes in which a contract may be discharged.
- e. Examine special contracts such as bailment, pledge, agency, etc.
- f. Explain the rights and liabilities of parties entering into such special contracts.
- g. Distinguish between bailment, pledge, agency, etc., Consumer Protection Act.

4. Business Communication – II

- a. Prepare effective PowerPoint presentations on assigned topics
- b. Effectively speak in a group discussion by being part.
- c. Face personal interviews with confidence and grace.
- d. Write business letters like, inquiry, order, complaint/grievance and sales letters.



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5. Foundation Course – II

- Discuss LPG concept, growth of information technology and communication.
- Discuss concepts of Human Rights, its origin and adoption of the Universal Declaration of human rights.
- Discuss about environmental degradation, its causes and importance of sustainable development.
- Examine causes of stress and conflict in Indian society.

6. Business Mathematics

- Apply proportions to rate, base, and percentage problems.
- Apply proportions to rate, base, and percentage problems.
- Calculate trade discounts, single and series, cash discounts.
- Apply simple interest and compound interest formula.
- Identify investment prospects **in shares and mutual funds.**

7. Innovative Financial Services

- The learners would understand to apply necessary skills in managing a financial service company.
- They will be able to apply financial concepts, theories and tools and would be in the position to evaluate the legal, ethical and economic environment related to financial services.

SY B.Com. (A&F) - Semester III

1. Financial Accounting (Special Accounting Areas) – III

- Gain Ability to finalize accounts of partnership firm and determine the treatment in case of Admission /Retirement of Partner.
- Gain ability to distribute funds during liquidation of partnership firm.
- Gain ability to pass entries on amalgamation.
- Gain ability to calculate the impact of Foreign Exchange Transmission and translation.



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2. Business Economics II

- a. Understand the concept of Macroeconomics and various circular flows of income
- b. Understand various concepts in money, prices and inflation. Aware of public finance in depth
- c. Understand various sources of public revenue and expenditure.
- d. An appreciation of the ethical issues in economics competition

3. Cost Accounting II

- a. Solve cost sheet problems and acquired skill of application of cost sheet. One of the important techniques to determine prices.
- b. Find reasons of distinction between financial accounting and cost accounting and to solve practical problems
- c. Apply calculation of pricing of large size contract by contract costing and to solve practical problems.
- d. Apply technique of determination of price at the time of running manufacturing process by process costing in practical manner

4. Direct Taxation

- a. Develop knowledge of various sections under Direct taxes.
- b. Learn about capital gains, tax rates under partnership firm & Individual.
- c. The various methods & procedures of tax planning & ethics in taxation will also be learnt.

5. Business Laws

- a. Understand an insight of various beneficial social legislative measures
- b. Understand rights and liabilities of partners, Outsiders. Incorporation and dissolution of partnership firm.
- c. Understand nature of LLP, merits of LLP and process of winding up of LLP
- d. Understand provisions of Health safety and welfare measures for workers and its inspection.



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- e. Apply basic legal knowledge to business transactions. Communicate effectively using standard business and legal terminology.

6. Information Technology I

- a. Learn different parts of hardware and different types of software
- b. Learn and execute different commands of Ms word, Ms Excel and Ms PowerPoint
- c. Learn Downloading information, creating e-mail ID and sending, receiving emails.
- d. Learn legal issues of internet, importance of electronic data interchange and e-commerce.

SY B.Com. (A&F) - Semester IV

1. Financial accounting – IV

- a. To identify nature of single entry book system.
- b. To identify methods of branch accounting under dependent and independent methods.
- c. To calculate claims under fire insurance policy.
- d. To identify accounting rules of consignment accounting and valuation of stock.

2. Management

- a. Discuss and communicate the management evolution and how it will affect future managers.
- b. Observe and evaluate the influence of historical forces on the current practice of management.
- c. Evaluate leadership styles to anticipate the consequences of each leadership style

3. Research Methodology

- a. Learn about sources, types of data, recognition of sources of Data collection
- b. Learn about how to design the research and types of hypothesis.
- c. Getting knowledge about the types of data classification of data collection, how to process the data, and learnt about the how to calculate the mean, median, mode
- d. Learn about the how to write report, interpretation and submission of data/ project

4. Management Accounting

- a. Understand the concept of management accounting.
- b. Analyses and interpret financial statements.



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- c. Calculate various ratios from the financial statements.
- d. Do cash flow analysis. Manage working capital requirement estimations of the firm.

5. Business Law – III

- a. Students have understood various definitions that are required to learn provision of company Act 2013.
- b. Students have understood the ways to raise capital in primary market by public companies and private company.
- c. Students have understood types of prospectus and it's need to issue in different situation.

6. Information Technology – II

- a. Learn need and importance of business process, business process management in IT, BPM life cycle
- b. Learn practical knowledge of Tally software
- c. Learn importance and applications of information system in management, role of computer in MIS
- d. Learn different IT auditing techniques

TY B.Com. (A&F) - Semester V

1. Management Application

- a. Learn administer and contribute to the design and evaluation of the performance management program.
- b. Acquired skill to develop, implement, and evaluate employee orientation, training, and development programs.
- c. Perform analytical reviews of financial results, proposals, and plans.



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- d. Acquired analytical skills in solving marketing related problems and challenges and be familiar with the strategic marketing management process.

2. Financial Management

- a. Understand the concept of capital budgeting, receivable management, mutual fund and bond valuation and their practical implication in the real life.
- b. Understand the concept of net present value and how to calculate payback period of a projects.

3. Cost Accounting

- a. Study practical activities in production with two systems
- b. Understand of concepts of costing and accounting procedures.
- c. Get Knowledge about comparison of cost integrated and non-integrated costing system

4. Indirect Taxation

- a. The practical aspect of GST, how it is calculated and rate of GST in detail
- b. Students able to calculate GST on their transactions.
- c. They able to understand various concept of GST.

5. Financial Accounting – V

- a. Calculate purchase consideration by various method of calculation and solving practical problem after considering procedure of amalgamation
- b. Solve practical problems after considering adverse situation of the company and provisions regarding internal reconstruction. Prepare statement of underwriter's liability.
- c. Liquidate joint to stock company as per procedure.

6. Financial Accounting – VI

- a. Apply format of final accounts as per Banking Companies Act, 1949 in practical manner.
- b. Apply format of final accounts as per Insurance Companies Act, and verify actual calculation premium in practical manner



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- c. Apply format of final accounts as per LLP Act, 2008 in practical manner.

TY B.Com. (A&F) - Semester VI

1. Indian Economics

- Understand the various aspects of Indian economy.
- Develop a perspective on the different problems and approaches to economic planning and development in India.
- Understand the role of the Indian Economy in the global context, and how different factors have affected this process

2. Financial Management

- Understand the dimensions of performance and risk relevant to financial firms. understand the concept of business valuation, mergers and acquisition etc.
- Understand the contemporary managerial risk. Evaluate the economic environment and the impact of governmental economic policies on consumers and financial institutions.
- Understand the impact that financial innovation, advances in technology, and changes in regulations has had on the structure of the financial firms/industry.

3. Cost Accounting

- Understand the concepts of absorption costing, marginal costing, and cost volume and profit analysis
- Take decision like make or buy, appropriate sales mix on the basis of analytical costing methods.
- Prepare various types of budgets depending upon the types of activities.

8. Taxation – III

- They able to understand various concept of GST. They will know the Import & export procedures through the custom Act
- The Students would learn the foreign trade policies and the various schemes & exemption under the same.



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- c. The practical aspect of GST, how it is calculated and rate of GST in detail. Students able to calculate GST on their transactions.

9. Financial Accounting – VII

- a. Get the knowledge of IFRS its Purpose & Objective of financial statement, its Framework, its assumption, characteristics, element, recognition & measurement.
- b. Understand the mutual fund and AS-13
- c. Students should be able to: Prepare Final Account for Electricity Company as per Double Account System



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**PROGRAMME OUTCOMES (POs)
COURSE OUTCOMES (Cos)
OF
BACHELOR OF MANAGEMENT
STUDIES**



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Bachelor of Management Studies(B.M.S.)

Program Outcome

- **Identify the applicability of management principles in real time business situations in order to contribute to the economy and society:** The applicability of management principles in real-time business situations is crucial for contributing to the economy and society. Management principles provide a framework for effective organization, planning, and decision-making within a business. By applying management principles, businesses can navigate challenges, adapt to changing market conditions, and foster innovation. Ultimately, the successful implementation of these principles contributes to economic growth, job creation, and the overall well-being of society.
- **Acquire abilities to offer sustainable solutions to social and economic problems in an ethical manner so as to develop the nation:** This statement emphasizes the importance of acquiring skills and capabilities to address social and economic challenges in a sustainable and ethical way. The goal is to contribute to the nation's development by providing thoughtful and responsible solutions to issues that affect both society and the economy. The focus is on fostering abilities that lead to positive and lasting impacts while upholding ethical principles.
- **Acquire soft skills that develop a morally upright personality:** Acquiring soft skills is crucial for developing a morally upright personality from a management studies perspective. These skills include effective communication, empathy, teamwork, and leadership. A morally upright individual, as seen through the lens of management studies, demonstrates ethical decision-making, integrity, and a commitment to social responsibility. These qualities contribute to creating a positive work environment, fostering strong relationships, and ultimately enhancing overall organizational success. The integration of soft skills in management studies not only improves individual character but also



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promotes a culture of integrity and ethical conduct within the business world.

- **Communicate effectively with the ability in team building qualities:** Effective communication and strong team-building skills are essential aspects of successful management. In the realm of management studies, individuals with these qualities are highly valued. Effective communication involves clear articulation of ideas, active listening, and the ability to convey information in a manner that is easily understood by team members. This skill facilitates seamless information flow within the team and fosters a positive work environment.
- **Acquire competence to harness entrepreneurial aspirations by developing and applying business ideas through the use of various management tools and techniques:** This statement suggests the goal of gaining skills and knowledge to effectively pursue entrepreneurial ambitions. The focus is on cultivating competence in generating and implementing business ideas, utilizing a variety of management tools and techniques.



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Course outcome B.M.S

FY B.M.S - Semester I

1. Business Communication – I

- Distinguish between verbal and non-verbal communication
- Identify various modes of Communication.
- Draft effective job letters like cover letter, job acceptance letter and resignation letter.
- Participate in debates and elocution thereby overcoming stage fear.
- Prepare curriculum vitae for self and others.

2. Foundation Course – I

- Discuss violence against women and portrayal of women in the media.
- Identify inequalities faced by people with physical and mental disabilities.
- Examine inequalities due to Caste System and inter group conflicts.
- Narrate issues on Communalism and Regionalism.
- Discuss philosophy of Constitution of India, its Structure, Preamble and Features.

3. Foundation of Human Skills

- Understand the Human nature and their behaviour in organization
- Focus on team building and group behaviour in the organization and in society.
- Analyze the basic behaviour pattern of human, which are important for business.
- Discuss the different kinds of human nature with greater awareness of the human behaviour.
- Apply “Johari Window” model on self and others.

4. Business Economics – I

- Demonstrate knowledge and proficiency in the overall foundations of an economy as it relates to supply and demand and its impact on the domestic and world economy
- Exhibit competency in demonstrating both reasoning and analytical skills in determining optimal outcomes in contemporary economic situations.
- Evaluate the effects of government interventions in individual markets and in the macro economy.



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- d. Demonstrate knowledge and proficiency in the overall foundations of an economy.
- e. To learn the working of Micro variables of the economy.

5. Business Law

- a. Appreciate the relevance of business law and the role of law in an economic, political and social framework.
- b. Identify the fundamental legal principles behind contractual agreements.
- c. Examine how businesses can be held liable for the actions of their employees.
- d. Companies Act, 2013, Consumer Protection Act.
- e. Analyze and infer modes in which a Contract may be discharged

FY B.M.S - Semester II

1. Business Communication – II

- a. Have clear understanding of effective principles of effective presentation tools
- b. Get a better understanding of various aspects of business letter writing.
- c. Get exposure to Group discussions and various types of mock interviews
- d. Be able to analyze and understand summarization of content.
- e. Understand group communication - prepare for interview, meetings, conference and Public Relations.

2. Foundation Course – II

- a. Aware about the Indian society, human rights & the environment
- b. Understand the meaning of stress & conflict, its effects on humans & how can we manage & overcome them
- c. Discuss environmental concerns, causes of degradation, promoting sustainable development,
- d. Identify causes of stress and conflicts in the society and manage stress and promote socialization.

3. Business Environment

- a. Analyze the environment of a business from the legal & regulatory, macroeconomic, cultural, political, technological and natural perspectives.



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- b. Critically assess the business environment of an organization using selected strategic tools.
- c. Conduct an in-depth analysis of a specific component of the business environment and relate it to your own organization.
- d. Construct and present scenarios that synthesize business environment information.
- e. Provide information about Foreign Trade, International Organizations, Global Strategies – MNCs & TNCs.

4. Principles of Management

- a. Study of the basic managerial functions of planning, organizing, staffing, directing and controlling resources to accomplish organizational goals.
- b. Distinguish the characteristics and skills of proper management by identifying what successful managers do and how they do it.
- c. Analyze the business decisions made by organizations using various tools and techniques to remain competitive.
- d. Offer diverse learning opportunities to develop analytical and soft skills
- e. Understanding the characteristics and skills of proper management by identifying what successful managers do and how they do it.

5. Industrial Law

- a. Know the development and the judicial setup of Labor Laws.
- b. Learn the salient features of welfare and wage Legislations.
- c. Learn the laws relating to Industrial Relations, Social Security and Working conditions.
- d. Understand the laws related to working conditions in different settings
- e. Focus on the laws relating to Industrial Relations, Social Security and Working conditions.

SY B.M.S - Semester III

1. Accounting for Managerial Decision

- a. Equip management learners with basic Accounting Fundamentals for making Business decisions.
- b. Develop financial analysis skills among learners.



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- c. Focus should be placed on explaining the core concepts of business Finance and its importance in managing a business.
- d. Analyze various techniques to various domains concerned with Accounting based applications and solutions.
- e. Apply Appropriate legal and Ethical Standards.

2. Information Technology in Business Management

- a. Understand basic concept of Email, Internet and Website Domains and Security
- b. Basic concept of Information Technology its support and role in Management for Managers.
- c. Enhance working knowledge of concepts and terminology related to information technology in open source.
- d. Describe the functions used in Microsoft Applications Such as MS-Word, MS- excel, MS- PowerPoint.
- e. Explain the Concept of digital Economy and digital Organization.

3. Foundation Course (Environment Management) – III

- a. Identify and value the effect of the pollutants on the environment: atmosphere, air, water and soil.
- b. Illustrate skills and an improved understanding of how firms and organizations work with sustainability issues such as Environmental and Natural Resource Management.
- c. Develop an activity using various strategies to control, reduce and monitor all environmental problems that might arise as a result.
- d. Demonstrate professional Business Communication skills through writing, presentations and group discussions.
- e. Develop disaster management cycles.

4. Business Planning & Entrepreneurial Management

- a. Understand the basic concepts of Entrepreneurship to budding managers
- b. Describe the qualities of successful entrepreneurs.
- c. Develop responsibility of full line of management function of a company with special reference to SME sector.
- d. Identify areas of Discipline of Management & Entrepreneurship



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- e. Demonstrate the systematic process and to select and screen a business idea.

5. Strategic Management

- a. Define vision, mission, goals and objectives for an organization.
- b. Write down SWOT analysis by scanning internal and external environments.
- c. Effectively apply various strategies at corporate level, business level and functional level by analyzing the environmental factors.
- d. Critically examine the management of the entire enterprise from the top management viewpoint.
- e. Effectively apply the BCG (Boston Consulting Group) Matrix to different products/services of an organization, Control technique for effective management.

6. Consumer Behavior (Marketing)

- a. Develop an understanding about the consumer decision making process and its application in marketing functions of firms.
- b. Discuss individual determinants of consumer behavior with the reference to consumer needs and motivation, personality, self concept, consumer perception learning and attitude.
- c. Identify different consumer decision making models.
- d. Discuss diffusion of innovation process.

7. Advertising (Marketing)

- a. To understand and examine the growing importance of advertising in communication mix.
- b. To understand to construction of an effective advertisement in various media.
- c. To explore the future if and careers in advertising.
- d. To understand 7P's marketing mix.

8. Equity and Debt Market (Finance)

- a. The learners will be able to recognize the different types of Equity Issues made in the Financial Market.
- b. The learners will be able to explain the operations of the Secondary Market.
- c. The learners will be able to illustrate the various players in the Debt Market.



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- d. The learners will be able to measure the value of Equity shares and Bonds with the help of various methods taught in the syllabus.
- e. Learners will be able to create an IPO Advertisement.

9. Corporate Finance (Finance)

- a. Understand the Sources of Finance in Corporates.
- b. Focus on different tools and techniques of Sources of Funds and its Applications for better decision making.
- c. Analyze data and take a part in financial decision making.
- d. Examine corporate markets with relevance to Corporate Finance.

SY B.M.S - Semester IV

1. Information Technology in Business Management – II

- a. The learners will be able to describe the major functional systems in MIS.
- b. The learners will be able to compare the different Business Models of BPO and KPO.
- c. The learners will be able to relate to the case on Data Mining.
- d. The course will help the learners to summarize the concepts of Data Warehousing and Data Mining.
- e. The students will be able to design innovative ways of providing CRM, while taking care of Privacy concerns of the customers.

2. Foundation Course (Ethics & Governance) – IV

- a. To create ethical code of conduct.
- b. Familiarize the importance and application of Ethics in modern business practices.
- c. Understand emerging trends and growing importance of good Governance and CSR by organizations
- d. Focus on teams, execute task assigned and perform on timelines set.
- e. discriminate business decisions based on principles of business ethics.

3. Business Research Methods

- a. Apply a range of Quantitative and Qualitative Research Techniques to Business and Management Problems and issues.



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- b. Understand and apply research approaches, techniques and strategies in the appropriate manner for managerial decision making.
- c. Examine diverse learning opportunities to develop analytical and soft skills through Research.
- d. The learner will be able to explain different methodologies and techniques used in research work.
- e. The learner will be able to summarize concept of sampling, data collection, analysis and reporting.

4. Business Economics – II

- a. Demonstrate through application of Micro-economics, the interaction of individuals and organizations in markets.
- b. Analyze the role of public policy in shaping those application in Organization markets.
- c. Understand application of macroeconomics the functioning of market economies at regional, national, and global levels.
- d. Examine the role of public policy in shaping those global level.

5. Production & Total Quality Management

- a. Discuss basic knowledge in Total Quality Management relevant to both Manufacturing and Service Industry including IT sector.
- b. Implement the basic principles of TQM in manufacturing and service-based organization.
- c. Apply the basic knowledge of quality in production.
- d. Demonstrate the tools and techniques of quality management to manufacturing and services processes.
- e. The learners will formulate the steps of setting up a plant.

6. Integrated Market Communication (Marketing)

- a. Equip the students with knowledge of planning and execution of an effective integrated Marketing Communication Programme.
- b. Discuss features and evolution of Integrated Marketing Communication.
- c. Discuss promotional tools of Integrated Marketing Communication.
- d. Discuss problems in setting objectives of
- e. Integrated Marketing Communication.



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- f. Discuss role of Advertising, Personal selling, Direct Marketing, Public relations and publicity and sales promotion in Integrated Marketing Communication

7. Event Marketing (Marketing)

- To understand driving new customer acquisition, customer engagement and drive brand awareness.
- To understand event marketing goals is essential for creating a high – performing calendar of events.
- To explore the future of careers in advertising.
- The 5 area you need to make decisions about are: PRODUCT, PRICE, PROMOTION, PLACE AND PEOPLE. Increase awareness of your brand/business.

8. Auditing (Finance)

- Explain the learner to get acquainted with the various concepts of Auditing.
- Examine the system of internal check.
- Discuss arithmetical accuracy of books of accounts, verifying posting, casting, balancing.
- Focus on the existence of assets & liability through Vouching and verification.
- To confirm the existence of Assets & Liability.

9. Corporate Restructuring (Finance)

- Design and evaluate alternative corporate restructuring strategies.
- Apply valuation models, including DCF and Comparable company analysis, to value, structure and negotiate a deal.
- Evaluate the takeover process, including takeover tactics and defenses and when they should be employed.
- Learners will identify the changes in internal and external aspects of reorganization
- Learners will solve various methods of Standard Costing and Responsibility Accounting and learners will also learn about the designing aspect of production systems



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TY B.M.S - Semester V

1. Logistic and Supply Chain Management

- a. Focus on the concepts of applied in Logistics and Supply Chain Management.
- b. Illustrate concepts like inbound and outbound Logistics, offshore and inshore logistics.
- c. Develop skills for planning, designing the operational facilities of supply chain with the analytical and critical point of view.
- d. Understand how logistics play an important role in redefining value chain globally

2. Customer Relationship Management (Marketing)

- a. Understand Learners will perceive the concept of Customer Relationship Management (CRM) and implementation of Customer Relationship Management
- b. Learners will have a perception on CRM marketing initiatives, customer service and designing CRM strategy
- c. Learners will recognize about the new trends in CRM, challenges and opportunities for organizations
- d. Learners will comprehend the strategic process of CRM.

3. E-commerce and Digital Marketing (Marketing)

- a. Learners will comprehend the increasing significance of E- Commerce and its applications in Business and Various Sectors
- b. Learners will competent with Digital Marketing activities on various Social Media platforms and its emerging significance in Business
- c. Learners will recognize the Latest Trends and Practices in E-Commerce and Digital Marketing, along with its Challenges and Opportunities for an Organization
- d. Learners will identify the current Payment, Security, Privacy and Legal Issues in E Commerce.

4. Sales and Distribution Management (Marketing)

- a. Learners will comprehend the information related to understanding of the sales & distribution processes in organizations.



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- b. Learners will comprehend concepts, approaches and the practical aspects of the key decision-making variables in sales management and distribution channel management.
- c. Learners will analyze various market analysis methods and selling concepts.
- d. Learners will explore evaluation techniques in sales performance and trends in sales and distribution management.

5. **Services Marketing(Marketing)**

- a. Understand the Concept of Services and intangible products
- b. Discuss the relevance of the services Industry to Industry
- c. Examine the characteristics of the services industry and the modus operandi.
- d. Analyze the role and relevance of Quality in Services
- e. Visualize future changes in the Services Industry.

6. **Corporate Communication & Public Relations**

- a. Understand the concepts of Corporate Communication and Public Relations
- b. Familiarize various aspects of corporate communication and its correspondence.
- c. Explain various aspects and theories of Public Relations.
- d. Demonstrate various Mass Media laws and use of technology and correspondence in day-today activities of an organization.

7. **Investment Analysis Portfolio Management**

- a. Equip the term such as Beta & capital Assets Pricing Model for better correlation in practical world.
- b. Analyze concept of risk & return associated with various investments avenues.
- c. Understand various model & techniques of security portfolio analysis.
- d. Familiarize short term & long-term investments avenues and will be able to develop Portfolio Management.

8. **Wealth Management(Finance)**

- a. Understand the performance of alternative investment portfolios in Wealth Management.
- b. Focus on effective implementation of portfolio management strategies within the context of alternative investment requirements and risk criteria.
- c. Identify effectiveness of performance evaluation techniques of Wealth Management.



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- d. Develop the various approaches of managing Personal Finance by planning their finance such as retirement planning

9. Financial Accounting(Finance)

- a. Understand the final accounts of companies.
- b. Familiarize provisions relating to underwriting of shares and debentures.
- c. Demonstrate accounting of foreign currency and investments
- d. Identify the need of ethical behavior in accountancy and its practical applicability.

10. Direct Taxes(Finance)

- a. Understand the basic concepts of Direct Taxes on Individual, Firm, NRI, Residential Status etc.
- b. Explain the importance and the basic knowledge of tax structure in the country.
- c. Focus on the practical applicability of taxes in the Corporates to pay on time.
- d. Evaluate and understand the calculations of various taxes along with deductions and exemptions given by the Government time to time.

TY B.M.S - Semester VI

1. Operation Research

- a. Understand operations research methodologies used in an organization.
- b. Illustrate the concepts to solve various problems practically.
- c. Enhance the proficient in case analysis and interpretation of Operations carried in Business.
- d. Identify how to Interpret and apply the results of an operations research model to an organization.

2. Brand Management (Marketing)

- a. Enhance students' ability to apply creative and critical strategies and tactics involved in developing, positioning, leveraging, managing a brand, and measuring its value.
- b. Apply branding principles and marketing communication concepts and frameworks to achieve brand management goals and improve marketing performance



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- c. After the completion of the course the students will be able to understand and analyzes the Brand Portfolio of the companies. They will be able to map out areas where the firm need brand extension and cannibalization.
- d. Develop a consumer-centric approach to building, measuring and evaluating strategies that build brand equity for new and existing brands.

3. Retail Management (Marketing)

- a. Understand the Organized retail sector and its operations.
- b. Understand the various strategies involved with the retail sector.
- c. Learn how to deal with customers and understand their needs to sustain in the market.
- d. Understanding how to manage retail during crisis.

4. International Marketing (Marketing)

- a. Assess various foreign markets.
- b. Analyze the impact of cultural, social, political and economic factors on marketing strategies.
- c. Determine when to use different market entry and penetration strategies.
- d. Examine the different skills and systems required to implement marketing strategies across country borders.

5. Media Planning and Management (Marketing)

- a. To explain the concept of Media Planning, Strategy and Management with reference to current business scenario.
- b. To identify the basic characteristics of all media to ensure most effective use of advertising budget.
- c. Learners will absorb the information related to the basic characteristics of all media to ensure most effective use of advertising budget.
- d. Learners will be able to analyze international and domestic marketing and media metrics.

6. International Finance (Finance)

- a. Understand the fundamental aspects of various issues associated with International Finance.
- b. Demonstrate basic knowledge of how international finance is calculated.



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- c. Equip students with the ability to analyses and make decisions relating to foreign currency.
- d. Explain the different currencies with Indian rupee calculations of various countries of the world.

7. Strategic Financial Management (Finance)

- a. To acquaint the students with knowledge of disaster management to handle critical situations through practical application of strategies of control and prevention.
- b. To develop learning and analytical skill of the students to solve business cases and provide Strategic Solutions.
- c. Analyze the degree of risk for its effective management
- d. To provide information pertaining to business, corporate and global reforms taking place globally and familiarizing the students to new formats of the market.

8. Financing Rural Development (Finance)

- a. Understand the Concept, Nature, Characteristic about the Rural Society
- b. Understand the students about the nature and changing pattern of rural economy, type of agriculture labors and their problems.
- c. Students can aware about the Rural Infrastructure like Transport, Water, Electricity, Market and Finance etc.
- d. Understand the students about the Poverty Factors, Education, Health and Infrastructure, Indebtedness, Agrarian crisis and farmers suicide.

9. Indirect Taxes (Finance)

- a. Familiarize himself with terms related to Goods and Service tax (GST)
- b. Understand the difference between forward charge and reverse charge mechanism
- c. Identify the contents and format for various documents like tax invoice, bill of supply, debit note, credit note, etc.
- d. Analyze and compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit.



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10. Project Work

- a. Understand the topic selected fully and to use it for practical purpose.
- b. Identify the fundamental aspects associated with the project.
- c. Familiarize the relation with various variables involved in the research.
- d. Analyze fully the data received and collected through primary and secondary methods of data collection.



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**PROGRAMME OUTCOMES (POs)
COURSE OUTCOMES (COs)
OF
BACHELOR OF COMPUTER
SCIENCE**



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Bachelor of Science (B.Sc. CS)

Program Outcomes

Towards the end of the program, the students will be able to:

- **Algorithmic Problem Solving:** Demonstrate the ability to formulate, analyze, and solve computational problems using algorithmic approaches.
- **Programming Proficiency:** Possess proficiency in programming languages and the ability to design, implement, and test computer programs.
- **Data Structures and Algorithms:** Understand and apply fundamental data structures and algorithms in software development.
- **Software Development Practices:** Apply software engineering principles and practices in the development of software systems.
- **Computer Architecture and Systems:** Understand the architecture and organization of computer systems, including hardware and software components.
- **Database Management:** Design, implement, and manage databases for efficient data storage and retrieval.
- **Networking and Security:** Understand principles of computer networks and security, including protocols, encryption, and network architecture.
- **Web Development:** Develop and maintain web-based applications, including proficiency in web technologies and frameworks.
- **Operating Systems:** Understand the principles and functioning of operating systems and their role in computing.
- **Artificial Intelligence and Machine Learning:** Familiarity with concepts and techniques in artificial intelligence and machine learning.
- **Human-Computer Interaction:** Understand principles of user interface design and usability in the development of software applications.
- **Software Testing and Quality Assurance:** Apply testing techniques and quality assurance methods to ensure the reliability of software systems.



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- **Project Management:** Demonstrate project management skills, including planning, scheduling, and teamwork in software development projects.
- **Professional and Ethical Responsibility:** Understand and adhere to ethical and professional standards in the field of computer science.
- **Communication Skills:** Communicate effectively, both orally and in writing, with technical and non-technical audiences.
- **Continuous Learning:** Engage in continuous learning to keep up with evolving technologies and industry trends.
- **Critical Thinking and Problem Solving:** Apply critical thinking skills to analyze and solve complex problems in the field of computer science.



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Course Outcome Bachelor of Science (B.Sc. CS)

F.Y. BSc. CS – Semester – I

1. Digital Systems & Architecture

- To learn about how computer systems, work and underlying principles
- To understand 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
- To understand how data is transferred between the processor and I/O devices

2. Introduction to Programming with Python

- Ability to store, manipulate and access data in Python
- Ability to implement basic Input / Output operations in Python
- Ability to define the structure and components of a Python program.
- Ability to learn how to write loops and decision statements in Python.
- Ability to learn how to write functions and pass arguments in Python.
- Ability to create and use Compound data types in Python

3. LINUX Operating System

- Work with Linux file system structure, Linux Environment.
- Handle shell commands for scripting, with features of regular expressions, redirections.
- Implement file security permissions.
- Work with vi, sed and awk editors for shell scripting using various control structures.
- Install software like compilers and develop programs in C and Python programming languages on Linux Platform.

4. Open Source Technologies

- Differentiate between Open Source and Proprietary software and Licensing.
- Recognize the applications, benefits of Open-Source Technologies.



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- c. Recognize the applications, features of Open-Source Technologies.
- d. Gain knowledge to start, manage open-source projects.
- e. To understand the basics of processor structure and operation.

5. Discrete Mathematics

- a. Define mathematical structures (relations, functions, graphs) and use them to model real life situations.
- b. Understand, construct and solve simple mathematical problems.
- c. Solve puzzles based on counting principles.
- d. Provide basic knowledge about models of automata theory and the corresponding formal languages.
- e. Develop an attitude to solve problems based on graphs and trees, which are widely used in software.

6. Descriptive Statistics

- a. Organize, manage and present data.
- b. Analyze Statistical data using measures of central tendency and dispersion.
- c. Analyze Statistical data using basics techniques of R.
- d. Study the relationship between variables using techniques of correlation and regression.

7. Soft Skills

- a. Learners will be able to understand the importance and types soft skills
- b. Learners will develop skills for Academic and Professional Presentations.
- c. Learners will able to understand Leadership Qualities and Ethics.
- d. Ability to understand the importance of stress management in their academic & professional life.



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F.Y. BSc. CS – Semester – II

1. Design & Analysis of Algorithms

- a. Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used.
- b. Gives idea to students about the theoretical background of the basic data structures.
- c. Students should be able to appreciate the use of various data structures as per need.
- d. To select, decide and apply appropriate design principle by understanding the requirements of any real life problems.

2. Advanced Python Programming

- a. Ability to implement OOP concepts in Python including Inheritance and Polymorphism.
- b. Ability to work with files and perform operations on it using Python.
- c. Ability to implement regular expression and concept of threads for developing efficient program.
- d. Ability to implement exception handling in Python applications for error handling.
- e. Knowledge of working with databases, designing GUI in Python and implement networking in Python.

3. Introduction to OOPs using C++

- a. Work with numeric, character and textual data and arrays.
- b. Understand the importance of OOP approach over procedural language.
- c. Understand how to model classes and relationships using UML.
- d. Apply the concepts of OOPS like encapsulation, inheritance and polymorphism.
- e. Handle basic file operations.

4. Database Systems

- a. To appreciate the importance of database design.
- b. Analyze database requirements and determine the entities involved in the system and their relationship to one another.



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- c. Write simple queries to MySQL related to String, Maths and Date Functions.
- d. Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.
- e. Understand the normalization and its role in the database design process.
- f. Handle data permissions.

5. Calculus

- a. Develop mathematical skills and enhance thinking power of learners.
- b. Understand mathematical concepts like limit, continuity, derivative, integration of functions, partial derivatives.
- c. Appreciate real world applications which use the learned concepts.
- d. Skill to formulate a problem through Mathematical modelling and simulation.

6. Statistical Methods

- a. Calculate probability, conditional probability and independence.
- b. Apply the given discrete and continuous distributions whenever necessary.
- c. Define null hypothesis, alternative hypothesis, level of significance, test statistic and p value.
- d. Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases.
- e. Apply non-parametric test whenever necessary.
- f. Conduct and interpret one-way and two-way ANOVA.

7. E-Commerce & Digital Marketing

- a. Understand the core concepts of E-Commerce.
- b. Understand the various online payment techniques
- c. Understand the core concepts of digital marketing and the role of digital marketing in business.
- d. Apply digital marketing strategies to increase sales and growth of business
- e. Apply digital marketing through different channels and platforms
- f. Understand the significance of Web Analytics and Google Analytics and apply the same.



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S.Y. BSc. CS – Semester – III

1. Principles of Operating Systems

- a. Work with any type of operating system
- b. Handle threads, processes, process synchronization
- c. Implement CPU scheduling algorithms
- d. Understand the background role of memory management
- e. Design file system.

2. Linear Algebra

- a. Appreciate the relevance and applications of Linear Algebra in the field of Computer Science.
- b. Understand the concepts through program implementation.
- c. Instill a computational thinking while learning linear algebra
- d. Express clear understanding of the concept of a solution to a system of equations.
- e. Find eigenvalues and corresponding eigenvectors for a square matrix.

3. Data Structures

- a. Create different types of data structures.
- b. Understand which data structure to be used based on the type of the problem.
- c. Understand data abstraction and data representation in memory
- d. Apply combined knowledge of algorithms and data structures to write highly effective programs in various domains.

4. Advanced Database Concepts

- a. Master concepts of stored procedure, functions, cursors and triggers and its use.
- b. Learn about using PL/SQL for data management.
- c. Use efficiently Collections and records.
- d. Understand concepts and implementations of transaction management and crash recovery.

5. Java based Application Development

- a. Design basic application in java using Graphical User Interface.
- b. The learner will be able to develop applications using swings
- c. The learner will be able to develop web based applications using servlet and jsp



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- d. The learner will be able to connect databases with java through
- e. The learner will be able to perform programs using JSON objects

6. Web Technologies

- a. Design valid, well-formed, scalable, and meaningful pages using emerging technologies.
- b. Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites
- c. Develop and implement client-side and server-side scripting language programs.
- d. Develop and implement Database Driven Websites.
- e. Design and apply XML to create a markup language for data and document centric applications.

7. Green Technologies

- a. Explain drivers and dimensions of change for Green Technology
- b. Appreciate Virtualization; smart meters and optimization in achieving green IT
- c. Gain knowledge about green assets, green processes, and green enterprise architecture
- d. ISO 14001 and related standards for Audit for Green Compliance.

S.Y. BSc. CS – Semester – IV

1. Theory of Computation

- a. Understand Grammar and Languages
- b. Learn about Automata theory and its application in Language Design
- c. Learn about Turing Machines and Pushdown Automata
- d. Understand Linear Bound Automata and its applications

2. Computer Networks

- a. Learn basic networking concepts and layered architecture.
- b. Implementation of Basic Routing Algorithms.
- c. Understand Networking Protocols.
- d. Understand the concepts of networking, which are important for them to be known as a networking professionals.

3. Software Engineering



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- a. Plan a software engineering process life cycle, including the specification, design, implementation, and testing of software systems that meet specification, performance, maintenance and quality requirements
- b. Analyze and translate a specification into a design, and then realize that design practically, using an appropriate software engineering methodology.
- c. Know how to develop the code from the design and effectively apply relevant standards and perform testing, and quality management and practice
- d. Able to use modern engineering tools necessary for software project management, time management and software reuse

4. IoT Technologies

- a. understand SoC and IoT
- b. use different types of IoT Platforms and interfaces
- c. Interfacing various types of devices using different protocols with IoT
- d. understand and implement an idea of various types of applications built using IoT

5. Android Application Development

- a. Build useful mobile applications using Kotlin language on Android
- b. Install and configure Android Studio for application development
- c. Master basic to intermediate concepts of Kotlin required for mobile application development
- d. Use built-in widgets and components, work with the database to store data
- e. Master key Android programming concepts and deploy the application on Google Play

6. Advanced Application Development

- a. Store the data in NoSQL, document-oriented MongoDB database that brings performance and scalability.
- b. Use Node.js and Express Framework for building fast, scalable network applications
- c. Use AngularJS framework that offers declarative, two-way data binding for web applications.
- d. Integrate the front-end and back-end components of the MEAN stack.
- e. Develop robust mobile applications using Flutter.



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7. Research Methodology

- Define research, formulate problem and describe the research process and research methods.
- Understand and apply basic research methods including research design, data analysis and interpretation.
- It continues with finding out the literature using technology, basic statistics required for research and finally report writing.
- Understand ethical issues in research, write research report, research paper and publish the paper.

T.Y. BSc. CS – Semester – V

1. Artificial Intelligence

- Demonstrate knowledge of the foundations and key concepts in the field of AI.
- Analyze and design intelligent agents for specific environments.
- Apply problem-solving techniques and algorithms to find solutions to different types of problems.
- Construct knowledge representation models and use reasoning techniques to derive new knowledge.
- Implement machine-learning algorithms and evaluate their performance for classification and regression tasks.

2. Information & Network Security

- Analyze and evaluate security trends, attacks, and mechanisms, and propose effective security solutions based on the OSI security architecture.
- Apply classical encryption techniques, such as substitution and transposition ciphers, to encrypt and decrypt messages and analyze their security implications
- Implement public-key cryptography algorithms, including RSA, and demonstrate the ability to securely exchange keys and establish secure communication channels.
- Design and implement secure authentication mechanisms, including message authentication codes and digital signatures, to ensure data integrity and non-repudiation.



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- e. Evaluate and implement various security measures, such as IP security, web security protocols (e.g., SSL/TLS), intrusion detection systems, and firewall configurations, to protect networks and systems from unauthorized access and attacks.

3. Linux Server Administration

- a. Demonstrate proficiency in managing software packages and repositories in Linux.
- b. Configure and administer user accounts, groups, and permissions in a Linux system.
- c. Implement network services such as DNS, FTP, and web servers, ensuring proper security measures.
- d. Design and manage advanced network services including NFS, Samba, and LDAP for efficient file sharing and user authentication.
- e. Apply troubleshooting techniques to identify and resolve common issues in Linux server administration

4. Software Testing & Quality Assurance

- a. Explain the importance of software testing and its impact on software quality.
- b. Apply appropriate software testing techniques to identify and mitigate software defects
- c. Design and execute test cases to verify the functionality and performance of software systems.
- d. Understand the principles of verification and validation and their application in software testing.
- e. Utilize software testing tools and frameworks to automate testing processes and improve efficiency.

5. Cyber Forensics

- a. Demonstrate a solid understanding of the principles and techniques used in computer forensics investigations.
- b. Apply systematic approaches to acquire, preserve, and analyze digital evidence from various sources.
- c. Utilize specialized tools and software for conducting effective computer forensics analysis.
- d. Develop strong skills in investigating network-related incidents, including live acquisitions and network forensics.



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- e. Generate comprehensive and well-written reports that accurately document the findings of computer forensic investigations.

6. Game Programming

- a. Apply vector manipulation techniques and transformations to create and manipulate objects in 3D space.
- b. Utilize industry-standard tools and technologies such as Unity and DirectX for 3D game development.
- c. Implement advanced graphics techniques, including lighting, shading, and texturing, to create visually stunning game environments
- d. Design and develop games that incorporate principles of game design to create engaging and immersive experiences.
- e. Deploy and showcase 3D games on various platforms, demonstrating proficiency in game development.

7. Project Management

- a. Apply project management principles, processes, and best practices to plan, execute, and control projects effectively.
- b. Develop project charters, define project scopes, and create work breakdown structures (WBS) to establish project objectives and deliverables.
- c. Create project schedules, estimate resource requirements, and monitor project progress using appropriate project management techniques.
- d. Employ quality assurance and control measures to ensure project deliverables meet stakeholder expectations and industry standards.
- e. Demonstrate effective leadership and teamwork skills, as well as the ability to manage stakeholders, resolve conflicts, and make ethical decisions in project management settings.



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T.Y. BSc. CS – Semester – VI

1. Data Science

- a. Apply data preprocessing techniques to clean and transform raw data, handle missing values and outliers, and merge datasets.
- b. Implement machine-learning algorithms to perform tasks such as regression, classification, clustering, and ensemble learning.
- c. Evaluate and compare different machine learning models using appropriate evaluation metrics and cross-validation techniques
- d. Create informative and visually appealing data visualizations to communicate insights and patterns in data
- e. Understand the principles and practices of data management, including data governance, data quality assurance, and data privacy considerations.

2. Cloud Computing and Web Services

- a. Demonstrate a comprehensive understanding of cloud computing concepts, including different types of clouds and their characteristics.
- b. Implement and utilize web service technologies, such as SOAP and REST, to develop distributed and parallel computing applications.
- c. Design, deploy, and manage cloud-based applications and services using popular cloud computing platforms such as OpenStack and AWS.
- d. Apply secure development practices and implement cloud security policies to ensure the confidentiality, integrity, and availability of cloud software solutions.
- e. Utilize virtualization technologies to create and manage virtualized environments, considering the benefits and drawbacks of virtualization.

3. Wireless Sensor Networks

- a. Understand the fundamental concepts, architectural elements, and optimization goals of Wireless Sensor Networks (WSNs) and apply this knowledge to analyze and design WSN solutions



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- b. Evaluate and compare different medium access control protocols and routing strategies in WSNs, and make informed decisions to ensure efficient and reliable communication.
- c. Demonstrate knowledge of wireless transmission technologies, such as frequency, signals, antennas, and propagation, and analyze their impact on WSN performance.
- d. Assess the role of telecommunication systems, satellite, broadcast systems in WSNs, and understand their applications and implications for WSN deployments.

4. Information Retrieval

- a. Explain the key components and principles of information retrieval systems.
- b. Apply indexing, storage, and retrieval techniques to efficiently retrieve relevant documents.
- c. Compare and contrast different retrieval models and select appropriate models for specific search scenarios.
- d. Develop practical skills in implementing and evaluating information retrieval systems.
- e. Demonstrate an understanding of advanced topics in information retrieval, including web search and machine learning techniques.

5. Data Mining & Warehousing

- a. Explain the purpose and components of a data warehouse and differentiate it from transactional databases
- b. Perform OLAP operations on a multidimensional data model to analyze and query data
- c. Implement data preprocessing techniques to address missing data and prepare the data for mining
- d. Apply association rules mining algorithms to discover patterns and relationships in large datasets.

6. Ethical Hacking

- a. Apply ethical hacking methodologies to conduct comprehensive security assessments and penetration tests



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- b. Perform effective foot printing and reconnaissance techniques to gather critical information about target systems
- c. Identify and exploit vulnerabilities in various network and system components using appropriate tools and techniques
- d. Evaluate the security posture of web servers, web applications, and wireless networks, and recommend appropriate countermeasures.
- e. Demonstrate an understanding of ethical and legal considerations in conducting ethical hacking activities and adhere to professional codes of conduct.

7. Customer Relationship Management

- a. Students will be able to define and explain the various forms of CRM and their relevance to business contexts
- b. Students will acquire the skills to manage the customer journey effectively, including implementing customer acquisition and retention programs.
- c. Students will understand the importance of customer-perceived value and its impact on customer satisfaction, loyalty, and business performance.
- d. Students will be able to apply strategic and operational CRM approaches, such as customer portfolio management and marketing automation, to enhance organizational effectiveness.
- e. Students will develop proficiency in analytical CRM techniques, including data management, analytics for strategy and tactics, and the successful implementation of CRM systems. They will also be able to analyze and draw insights from real-life case studies and success stories related to CRM.

8. Cyber Laws and IPR

- a. Demonstrate a comprehensive understanding of cyber laws and their application in the digital age.
- b. Evaluate legal frameworks and regulations governing cyber laws.
- c. Identify and assess key issues in cyber laws, such as e-commerce, e-governance, and electronic records and contracts.
- d. Understand cyber-crimes, enforcement mechanisms, and the role of the Cyber Appellate Tribunal.



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- e. Analyze emerging issues in cyber laws, including liability of ISPs, privacy concerns, and jurisdictional complexities.
- f. Recognize intellectual property rights and online regulations, including copyrights, patents, and domain name disputes.

9. Project Work – II

- a. Apply interdisciplinary knowledge to effectively solve real-life problems using acquired skills and concepts.
- b. Gain hands-on experience in the software development life cycle, encompassing requirements analysis, design, implementation, testing, and deployment.
- c. Familiarize with global IT industry standards, ethics, and professional practices to thrive in a professional environment.
- d. Develop teamwork and project management skills through structured collaboration, effective communication, and task delegation
- e. Produce professional technical documentation aligning with industry practices, ensuring clarity, accuracy, and usability
- f. Acquire time management, resource allocation, and personnel coordination skills for efficient project execution.



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**PROGRAMME OUTCOMES
(POs)
COURSE OUTCOMES (COs)
OF
BACHELOR OF
INFORMATION
TECHNOLOGY**



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B.Sc. IT (Information Technology)

Program Outcome

Towards the end of the program, the students will be able to:

- **Programming Fundamentals:** Apply programming principles using the C, C++, Java & Python language to solve computational problems.
- **Designing Embedded systems:** Understand the architecture and functioning of microprocessors and microcontrollers, and apply them in designing embedded systems.
- **Computer Networking Skills:** Demonstrate knowledge of computer networks, protocols, and communication techniques, and design basic network configurations.
- **Software Engineering Practices:** Apply software engineering principles, methodologies, and practices to develop reliable and efficient software systems.
- **IoT Development:** Design and develop applications for the Internet of Things (IoT) using appropriate technologies and protocols.
- **Business Intelligence Skills:** Apply business intelligence concepts and techniques to analyze and interpret data for making informed business decisions.
- **Computer Graphics and Animation:** Design and implement computer graphics and animation applications using relevant tools and techniques.
- **Statistical Techniques:** Apply statistical techniques to analyze and interpret data, making informed decisions in the context of computer-oriented applications.
- **Web Applications Development:** Design and develop dynamic and interactive web applications using relevant technologies, demonstrating a strong understanding of web development principles.
- **Database Management Systems:** Design, implement, and manage relational database systems, demonstrating proficiency in database modeling and normalization.



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Course Outcome - B.Sc. IT (Information Technology)

F.Y. BSc. IT – Semester – I

1. Programming Principles with C.

- To develop the logical ability of the student.
- Basic concepts to be cleared using suitable examples.
- Different approach towards the problem.
- To handle the errors and find suitable solution
- To understand how Debugging the code.

2. LINUX Operating System

- To introduce the basics of logic in digital electronics as an entry level course
- To interpret and assess number systems and the conversions of number systems
- To analyze the Boolean expressions and reduce the expression to the minimum.
- To design simple logic circuits using tools such as Boolean Algebra and Karnaugh Mapping.
- To understand the state of a memory cell and its types using flip-flops.
- To create simple digital systems using counters, registers etc.

3. Fundamentals of Database Management Systems

- Define and describe the fundamental elements of relational database management system
- To relate the basic concepts of relational data model, entity-relationship model, relational database design.
- Design ER-models to represent simple database application scenarios.
- Transform the ER-model to relational tables, populate relational database.
- Improve the database design by normalization
- Understand basic database storage structures and access techniques: file and page organizations, indexing methods and hashing.

4. Computational Logic and Discrete Structures

- Able to Use logical notation.
- Perform logical proofs
- Apply recursive functions and solve recurrence relations



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- d. Use graphs and trees
- e. Apply basic and advanced principles of counting
- f. Define sets and Relations

5. Technical Communication Skills

- a. Analyze, synthesize and utilize the process and strategies from delivery to solving communication problem.
- b. Learn the communication methodologies at workplace and learning about importance of team collaboration
- c. Learn about different technical communication such as presentations and interviews.
- d. Understand and apply the art of written communication in writing reports, proposals.
- e. Ground rules of ethical communication and MIS.
- f. Understand the functions of graphs, maps, charts

F.Y. BSc. IT – Semester – II

1. Object Oriented Programming with C++

- a. Understand the concept of OOPs, feature of C++ language.
- b. Analyze and explore various Stream classes, I/O operations and exception handling.
- c. Understand and apply various types of Datatypes, Operators, Conversions while designing the program
- d. Understand and apply the concepts of Classes & Objects, friend function, constructors & destructors in program design.
- e. Design & implement various forms of inheritance, String class, calling base class constructors.
- f. Apply & Analyze operator overloading, runtime polymorphism, Generic Programming

2. Fundamentals of Micro Processor and Microcontrollers

- a. Understand the basic concepts of Micro Computer Systems
- b. Understand the architecture and hardware aspects of 8085
- c. Write assembly language programs in 8085
- d. Design elementary aspects of Micro Controller based systems
- e. Interfacing peripherals using Micro Controller.



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- f. Interfacing to 8051 Micro Controller and design aspects of Micro Controller.

3. Web Applications Development

- a. Analyze working of Internet.
- b. Gain an insight into designing web pages
- c. Use different ways of styling web pages using CSS.
- d. Implement basic and complex functionalities of JavaScript in a web page.
- e. Employ PHP Scripts to execute dynamic tasks in a web page.
- f. Perform various database tasks using PHP.

4. Numerical Methods

- a. Understand numerical techniques to find the roots of non-linear equations and solution of system of linear equations.
- b. Understand the difference operators and the use of interpolation.
- c. Understand numerical differentiation and integration and numerical solutions of ordinary and partial differential equations.
- d. Find fast and accurate solution to simple and complex numerical problems using these programs.

5. Green IT

- a. Understand the concept of Green IT and problems related to it.
- b. problems related to it. • Know different standards for Green IT.
- c. Understand the how power usage can be minimized in Technology.
- d. Learn about how the way of work is changing
- e. Understand the concept of recycling.
- f. Know how information system can stay Green Information system.

6. Practical's in PL/SQL

- a. Understand the basics of PL/SQL.
- b. Use of the control and conditional statement in PL/SQL.
- c. Apply sequences and cursor in PL/SQL.
- d. Know the concept of stored procedure and functions.
- e. Create the triggers and packages in PL/SQL.
- f. Implement the concept of Exception handling.



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S.Y. BSc. IT – Semester – III

1. Python Programming

- a. Aware of the variables, expressions, looping and conditions used in Python programming.
- b. Implement functions, strings, lists, tuples and directories
- c. Create GUI forms and add widgets.
- d. Use MySQL to store data.
- e. Apply the programming skillset learnt here into various domains by having advance programming skillset of Python and usage of libraries.

2. Data Structures

- a. Identify and distinguish data structure classification, data types, their complexities
- b. Implement array, linked list, stack and queue.
- c. Implement trees, various hashing techniques and graph for various applications
- d. Compare various sorting and searching techniques.

3. Computer Networks

- a. Identify various data communication standards, topologies and terminologies.
- b. Describe how signals are used to transfer data and communication aspects between nodes.
- c. Configure IP addresses using TCP/IP protocol suite.
- d. Use different application layer protocols.

4. Operating Systems

- a. Role of Operating System Computer System.
- b. Use the different types of Operating System and their services.
- c. Configure process scheduling algorithms and synchronization techniques to achieve better performance of a computer system.
- d. Apply virtual memory concepts.
- e. Effectively use and manage secondary memory.

5. Applied Mathematics

- a. Familiar with the various forms and operations of a complex number



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- b. Solve the matrix operations, identify the linear dependence and independence of a vectors
- c. Find the Laplace transform of a function and Inverse Laplace transform of a function using definition.
- d. Evaluate the multiple integrals in Cartesian, Polar coordinates, change the order of the integral.
- e. Apply integration methods to calculate the areas and volumes of solids.
- f. Evaluate the Beta, Gamma, Differentiation Under integral sign and error functions

6. Mobile Programming Practical

- a. Proficiency in Mobile Development Platforms.
- b. App Design and User Interface (UI) Development.
- c. Testing and Debugging.
- d. Project Development Experience
- e. Networking and Connectivity.

S.Y. BSc. IT – Semester – IV

1. Java Programming

- a. Learn the architecture of Java
- b. Identify data types, control flow, classes, inheritance, exceptions and event handling.
- c. Use object-oriented concepts for problem solving real-life applications.
- d. Understand and apply the concepts of Classes & Objects, friend function, constructors & destructors in program design.
- e. Build GUI programs.
- f. Create event driven programs using java.

2. Introduction to Embedded Systems

- a. Differentiate between general purpose and embedded systems.
- b. Discuss the characteristics and quality attributes of embedded systems.
- c. Use different types of sensors for appropriately.
- d. Design and develop embedded systems.

3. Computer Oriented Statistical Techniques



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- a. To calculate and apply measures of central tendencies and measures of dispersion -- grouped and ungrouped data cases.
- b. To calculate the moments, skewness and kurtosis by various methods
- c. How to apply discrete and continuous probability distributions to various business problems.
- d. Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases. Understand the concept of p-values.
- e. Apply simple linear regression and correlation model to real life examples.

4. Software Engineering

- a. Understand software engineering
- b. Apply software engineering principles.
- c. Discuss various approaches to verification and validation of software including testing, measurements and estimation of software products.
- d. Create software using different software development models.

5. Computer Graphics and Animation

- a. Understand the basics of computer graphics, different graphics systems and applications of computer graphics.
- b. Compare various algorithms for scan conversion and filling of basic objects
- c. Use of geometric transformations on graphics objects and their application in composite form.
- d. Extract scene with different clipping methods and its transformation to graphics display device.
- e. Explore projections and visible surface detection techniques for display of 3D scene on 2D screen.
- f. Render projected objects to naturalize the scene in 2D view and use of illumination models.

T.Y. BSc. IT – Semester – V

1. Software Project Management



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- a. Understand and apply project management methodologies to develop detailed project plans.
- b. Demonstrate effective communication skills to interact with project stakeholders, team members, and clients.
- c. Identify potential risks in software projects and develop strategies for risk mitigation and contingency planning.
- d. Implement quality assurance processes and techniques to ensure the delivery of high-quality software products.
- e. Implement project monitoring and control mechanisms to track progress, identify deviations from the plan, and take corrective actions as necessary.

2. Internet of Things

- a. Understand and explain the fundamental architecture of IoT systems, including device connectivity, communication protocols, and data processing layers.
- b. Demonstrate the ability to integrate various sensors and actuators within IoT devices to collect and transmit data.
- c. Identify and address security challenges specific to IoT, including device authentication, data encryption, and secure communication protocols.
- d. Gain knowledge of commonly used IoT communication protocols and standards, such as MQTT, CoAP, and HTTP/HTTPS.
- e. Develop end-to-end IoT solutions, from conceptualization to implementation, considering hardware selection, software development, and connectivity requirements.

3. Advanced Web Programming

- a. Demonstrate advanced proficiency in using modern web technologies and frameworks, including but not limited to, React, Angular, or Vue.js.
- b. Develop robust server-side applications using frameworks like Node.js, Django, or Flask.
- c. Implement asynchronous programming techniques to enhance the responsiveness and efficiency of web applications.
- d. Integrate databases into web applications using appropriate technologies (e.g., MongoDB, MySQL, PostgreSQL).



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- e. Implement security best practices to protect web applications against common vulnerabilities, such as Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF).

4. Enterprise Java

- a. Demonstrate a deep understanding of Java EE architecture, components, and APIs for building scalable and robust enterprise applications.
- b. Understand and implement enterprise integration patterns using technologies such as JMS (Java Message Service) and messaging systems.
- c. Develop and consume web services using Java technologies, including JAX-RS (for RESTful services) and JAX-WS (for SOAP services).
- d. Utilize Java Persistence API (JPA) to interact with databases and implement object-relational mapping (ORM) for efficient data storage and retrieval.
- e. Implement robust security mechanisms within enterprise Java applications, including authentication, authorization, and secure communication.

5. Project Dissertation

- a. Demonstrate advanced research skills by conducting a comprehensive literature review on the chosen topic.
- b. Design and implement a robust methodology to address the research question or test the hypothesis.
- c. Collect relevant data using appropriate methods, whether qualitative or quantitative.
- d. Communicate research findings effectively through well-structured and articulate written reports.
- e. Reflect on the implications of the research findings, discuss potential areas for future research, and acknowledge any ethical considerations.

6. Artificial Intelligence

- a. Develop a solid understanding of foundational concepts in artificial intelligence, including machine learning, natural language processing, computer vision, and robotics.
- b. Acquire hands-on experience in designing, implementing, and training machine learning models for diverse applications.



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- c. Develop awareness of responsible AI practices, including fairness, transparency, and accountability in AI system design and deployment.
- d. Gain proficiency in developing AI projects from ideation to deployment, considering data acquisition, preprocessing, model training, and integration into practical applications.
- e. Explore advanced topics in AI, such as reinforcement learning, generative adversarial networks (GANs), and transfer learning.

7. Next Generation Technologies

- a. Develop an understanding of current and emerging technologies shaping the next generation, such as artificial intelligence, blockchain, quantum computing, and augmented reality.
- b. Analyze the impact of next-generation technologies on businesses and industries.
- c. Foster interdisciplinary collaboration by understanding how next-generation technologies intersect with various fields.
- d. Explore ethical considerations related to the use of next-generation technologies, such as privacy, bias in algorithms, and responsible AI.
- e. Gain practical skills in developing prototypes and proof of concepts using next-generation technologies.

T.Y. BSc. IT – Semester – VI

1. Software Quality Assurance

- a. Develop a thorough understanding of software testing principles, methodologies, and techniques.
- b. Create effective test plans, including test objectives, scope, resource requirements, and schedules.
- c. Gain practical skills in test automation tools and frameworks to enhance testing efficiency and coverage.
- d. Acquire the ability to identify, report, and manage software defects throughout the development life cycle.
- e. Understand key quality metrics and measurements for evaluating the effectiveness of testing processes.



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2. Security in Computing

- a. Acquire a comprehensive understanding of fundamental security concepts, including encryption, authentication, access control, and secure communication protocols.
- b. Develop skills in identifying and assessing vulnerabilities in computer systems and networks.
- c. Understand the principles of incident response and management in the context of cyber security.
- d. Learn how to create and implement effective security policies for organizations.
- e. Gain practical skills in ethical hacking and penetration testing to identify and exploit security vulnerabilities.

3. Business Intelligence

- a. Develop strong analytical skills to extract meaningful insights from raw business data.
- b. Gain a comprehensive understanding of the various technologies and tools used in the field of business intelligence, such as data warehouses, ETL (Extract, Transform, Load) processes, and BI software platforms.
- c. Learn data modeling techniques to design effective data structures that support business reporting needs.
- d. Apply business intelligence concepts to identify key performance indicators (KPIs) and metrics that contribute to organizational success.
- e. Understand the importance of data governance in maintaining data quality, integrity, and security within a business intelligence environment.

4. Principles of Geographic Information Systems

- a. Develop proficiency in conducting spatial analysis using GIS tools and techniques.
- b. Demonstrate the ability to acquire, organize, and manage spatial data from various sources.
- c. Design and create effective maps for communication and decision-making.
- d. Apply GIS technology to solve problems in different domains such as urban planning, environmental science, transportation, and public health.
- e. Plan and execute a geospatial project from inception to completion.



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5. Cyber Laws

- Develop a comprehensive understanding of the legal frameworks governing cyberspace, including national and international laws, regulations, and treaties related to cyber activities.
- Analyze and interpret cyber security laws and regulations to ensure compliance within organizations.
- Understand the legal aspects of responding to cyber incidents, including reporting obligations and legal procedures.
- Explore legal frameworks for the protection of intellectual property in digital environments, including copyright, trademarks, and patents.
- Study privacy laws and regulations governing the collection, storage, and processing of personal data in cyberspace.

6. Project Implementation

- Demonstrate the ability to effectively execute project plans and monitor progress against established milestones.
- Develop strong communication skills to effectively engage with project stakeholders, including team members, clients, and executives.
- Identify potential risks associated with project implementation and develop proactive mitigation strategies.
- Implement quality control processes to ensure that project deliverables meet predefined quality standards.
- Understand the principles of change management and develop strategies to manage and adapt to changes during project implementation.

7. Advanced Mobile Programming

- Gain proficiency in advanced mobile app development frameworks, such as React Native, Flutter, or Xamarin.
- Design and implement complex and polished user interfaces for mobile applications.
- Integrate mobile applications with backend services and APIs (Application Programming Interfaces) to enable data exchange and synchronization.



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- d. Implement advanced mobile database management techniques, including local data storage, caching, and synchronization with cloud databases.
- e. Implement security best practices for mobile applications, including secure data storage, authentication, and authorization mechanisms.

8. Enterprise Networking

- a. Demonstrate the ability to design and implement robust enterprise network architectures, considering factors such as scalability, redundancy, and performance.
- b. Understand and implement security measures to protect enterprise networks from external threats and internal vulnerabilities.
- c. Develop skills in diagnosing and troubleshooting network issues, including performance bottlenecks and connectivity problems.
- d. Explore the integration of enterprise networks with cloud services and the principles of hybrid networking.
- e. Gain proficiency in network management tools and techniques to monitor, analyze, and optimize network performance.

9. IT Service Management

- a. Understand and apply key concepts and practices of the IT Infrastructure Library (ITIL) framework.
- b. Develop skills to design, implement, and optimize IT service delivery processes to meet organizational goals and customer expectations.
- c. Implement Service Level Agreements (SLAs) and Key Performance Indicators (KPIs) to measure and monitor the performance of IT services.
- d. Develop communication strategies for effectively managing relationships with stakeholders, customers, and IT teams.
- e. Implement automation solutions to streamline repetitive tasks and enhance the efficiency of IT service processes.



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**PROGRAMME OUTCOMES
(POs)
COURSE OUTCOMES (COs)
OF
BACHELOR OF ART IN
MULTIMEDIA AND MASS
COMMUNICATION**



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Bachelor of Art in Multimedia and Mass Communication – (B.A.(MMC))

Program Outcomes

- **Media Literacy:** Understand and critically analyze media messages and their impact on society.
- **Communication Skills:** Effectively communicate in various media formats, including writing, speaking, and visual communication.
- **Technical Proficiency:** Demonstrate proficiency in multimedia tools and technologies, including graphic design software, video editing tools, and web development platforms.
- **Research Skills:** Conduct research related to media, communication, and societal trends using appropriate methodologies.
- **Ethical and Legal Awareness:** Understand and apply ethical principles and legal considerations in media production and communication.
- **Strategic Thinking:** Develop strategic communication plans for different audiences and purposes, including advertising campaigns, public relations initiatives, and multimedia projects.
- **Collaboration and Teamwork:** Work effectively in collaborative and interdisciplinary settings, reflecting the dynamic nature of the media industry.
- **Critical Thinking:** Analyze media content critically, considering cultural, social, and political contexts.



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Course Outcome - B.A.M.M.C

FYB.A.(MMC) - Semester I

1. Effective Communication-I

- To make the students aware of functional and operational use of language in media.
- To equip or enhance students with structural and analytical reading, writing and thinking skills.
- To introduce key concepts of communications.

2. Foundation Course-I

- To introduce students to the overview of the Indian Society.
- To help them understand the constitution of India.
- To acquaint them with the socio-political problems of India.

3. Visual Communication

- To provide students with tools that would help them visualize and communicate.
- Understanding Visual communication as part of Mass Communication.
- To acquire basic knowledge to be able to carry out a project in the field of visual communication partnerships and individual proprietorships.

4. Fundamentals of Mass communication

- To introduce students to the history, evolution and the development of Mass Communication in the world with special reference to India.
- To understand the development of Mass Communication modelS.
- To develop a critical understanding of Mass Media.

5. Current Affairs

- To provide learners with overview on current developments in various fieldS.
- To generate interest among the learners about burning issues covered in the media.
- To equip them with basic understanding of politics, economics, environment and technology so that students can grasp the relevance of related news.

6. History of Media

- Learner will be able to understand Media history through key events in the cultural history.



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- b. To enable the learner to understand the major developments in media history.
- c. To understand the history and role of professionals in shaping communications.

FYB.A.(MMC) - Semester II

1. Effective Communication Skills-II

- a. To make the students aware of use of language in media and organization.
- b. To equip or enhance students with structural and analytical reading, writing and thinking skills.
- c. To introduce key concepts of communications.

2. Foundation Course-II

- a. To introduce students to the overview of the Indian Society.
- b. To help them understand the constitution of India.
- c. To acquaint them with the socio-political problems of India.

3. Content Writing

- a. To provide students with tools that would help them communicate effectively.
- b. Understanding crisp writing as part of Mass Communication
- c. The ability to draw the essence of situations and develop clarity of thought.

4. Introduction to Advertising

- a. To provide the students with basic understanding of advertising, growth, importance and types.
- b. To understand an effective advertisement campaigns, tools, models etc.
- c. To comprehend the role of advertising, various departments, careers and creativity.

5. Introduction to Journalism

- a. To help media students to acquaint themselves with an influential medium of journalism that holds the key to opinion formation & to create awareness.

6. Media Gender & Culture

- a. To discuss the significance of culture and the media industry.
- b. To stress on the changing perspectives of media, gender and culture in the globalized era.
- c. To understand the association between the media, gender and culture in the society.



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SY B.A.(MMC) - Semester III

1. Media Studies

- a. To improve the skills of students.
- b. To improve literacy skills and abilities in other subjects.

2. Introduction to Advance Computers

- a. To equip the students with an understanding of industry knowledge required to make a career.
- b. In the field of print and Advertising, Digital Marketing, Television media, Film etc.
- c. To train them with the software knowledge required in the above-mentioned Industries.

3. Understanding Cinema

- a. The students should get to study the similarities and differences between various movie cultures. (Have a contextual understanding)
- b. The students should get to study Indian cinema through its similarities and differences with both Indian & Western traditions of art and culture.
- c. Movies cannot be studied apart from the technology used to produce them. Hence, the students should necessarily be given some practical exercises in the paper for internal marks.

4. Cultural Studies

- a. To create awareness on cultural theories and its relevance in media
- b. To discuss the importance of cultural studies and its role in mass media
- c. To understand the cultural concepts and its impact on the media

5. Introduction to Creative Writing

- a. To encourage students to read stories, poems, plays
- b. To develop further and build upon the writing and analytical skills acquired
- c. To acquaint students with basic concepts in literary writing.

6. Introduction to Public Relations

- a. To prepare students for effective & ethical public communication on behalf of organizations.
- b. To help students acquire basic skills in the practical aspects of Media Relations & Crisis Management.



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- c. To equip students with basic skills to write & develop Press Release & another PR communication.

SY B.A.(MMC) - Semester IV

1. Mass Media Research

- a. To introduce students to debates in Research approaches and equip them with tools to carry on research.
- b. To understand the scope and techniques of media research, their utility and limitations

2. Introduction to Journalism

- a. To help media students to acquaint themselves with an influential medium of journalism which holds the key to opinion formation & create awareness.

3. Print Production and Photography

- a. To help students understand the principles and practice of photography. To enable students to enjoy photography as an art.

4. Organizational Behaviour

- a. To impart knowledge of the basic concepts and facets of organizational behaviour.
- b. To highlight the role of psychological factors & process at work.
- c. To foster management skills among students.

5. Radio & TV

- a. To acquaint students with the working of two powerful media i.e. radio and television. The content is useful for both advertising and journalism students in order to further their careers in their respective field.
- b. To gain knowledge of health, home and motor insurance.

6. Introduction to Advertisement

- a. To introduce Students to the basic steps in advertising.
- b. To help students understand the creations of an ad campaign.
- c. To understand the structure of an Ad Agency.

TYB.A.(MMC) - Semester V- Advertising

1. Media Planning and Buying



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- a. To develop knowledge of various characteristics of media.
- b. To understand procedures, requirements, and techniques of media planning and buying.
- c. To learn the various media mix and its implementation.

2. Brand Building

- a. To study the concept of Brands.
- b. To study the process of building brands.
- c. To study its importance to the consumer and advertisers.

3. Advertising in Contemporary Society

- a. To understand the environment in Contemporary Society.
- b. To understand Liberalisation and its impact on the economy.
- c. To study contemporary advertising and society

4. Consumer Behavior

- a. To understand role of marketing in influencing consumer behavior.
- b. To analyses the role of marketer& the consumer in advertising.
- c. To sensitize the students to the changing trends in consumer behavior.

5. Copywriting

- a. To familiarize the students with the concept of copywriting as selling through writing.
- b. To learn the process of creating original, strategic, compelling copy for various media.
- c. To train students to generate, develop and express ideas effectively.

6. Ad Design

- a. To make students understand the process of planning & production of advertisement.
- b. To highlight the importance of visual communication
- c. To provide practical training in the field of advertising.

TYB.A.(MMC) - Semester V- Journalism

1. Editing

- a. As an important segment of newspaper production, editing is a vital function. The syllabus lays stress on language skill improvement.
- b. It aims at orienting students to gain more practical knowledge in the print media scenario.



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- c. The syllabus encompasses the current trends of digital media as well as writing for e editions of papers.

2. Features and Opinion

- a. Understanding the differences between reporting and feature writing.
- b. Understanding the other types of soft stories
- c. Learning the skills for writing features/ opinion/soft stories and of interviewing

3. Journalism and Public Opinion

- a. To assess the importance of the media vis some vis the public
- b. To project a fair idea of the role of the media in creating and influencing Public Opinion
- c. To analyses the impact of the media and public opinion on socio political issue

4. Reporting

- a. To prepare them to write or present the copy in the format of news. -To develop nose for news. -To train them to acquire the skills of newsgathering with traditional as well as modern tools. -To inculcate the skills for investigative journalism. -To make them understand the basic structure/ essential knowledge for various beats. -To make them responsible reporters and the face of media.

5. Newspaper & Magazine Making

- a. To study the design, elements of the newspaper and magazine
- b. To study space distribution
- c. To get exposure to design software such as Quark Express.

6. Project work in Banking and Insurance

- a. To understand the importance of research.
- b. To give the practical knowledge about sampling and data collecting, processing of data.

TYB.A.(MMC) - Semester VI

1. Financial Management for Marketing and Advertising

- a. To provide a brief overview of the basic concepts, goals functions and types of finance available for new and existing business and marketing units
- b. To enable the understanding of the need for financial planning through Budgets and their benefits



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- c. To enable students to evaluate the financial implications of marketing decisions through simple analytical tools.

2. The Principles and Practice of Direct Marketing

- a. To understand the concept and importance of Direct Marketing
- b. To understand the various techniques of direct marketing and its advantages.

3. Agency Management

- a. To acquaint the students with concepts, techniques for developing an effective advertising campaign.
- b. To familiarize students with the different aspects of running an ad agency
- c. To inculcate competencies to undertake professional work in the field of advertising

4. Legal Environment and Advertising Ethic

- a. To acquaint students to the Legal Environment in contemporary India highlighting the relevance of the same with reference to Advertising media.
- b. To emphasize & reiterate the need to have ethical practices in the field of advertising media both in India & internationally.
- c. To appreciate the role of advertising in contemporary consumerism, the need for consumer awareness & consumer protection.

5. Advertising and Marketing Research

- a. To inculcate the analytical abilities and research skills among the students.
- b. To study space distribution to understand research methodologies – Qualitative vs Quantitative.
- c. To discuss the foundations of Research and audience analysis that is imperative to successful advertising.

6. Contemporary issues

- a. To understand and analyses some of the present day environmental, political, economic and social concerns and issues.



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TYB.A.(MMC) - Semester VI

1. Press laws and ethics

- a. To study media laws
- b. To understand media.

2. Business and Magazine Journalism

- a. Understanding the differences between reporting and feature writing.
- b. To understand the tools of business journalism and an overview of the economy.
- c. To study the magazine sector and its specialization

3. News media management

- a. To make students aware about the responsibilities, structure and functioning of responsibilities of an Organization.
- b. Students will be able to analyze individual media businesses and understand the economic drivers of the media economy.
- c. Students will have developed hands-on experience as content marketers using journalistic and digital techniques.

4. Contemporary issues

- a. To understand and analyses some of the present day environmental, political, economic and social concerns and issues.

5. Digital media

- a. Understand digital marketing platform
- b. Understand the key goals and stages of digital campaigns
- c. Learn to develop digital marketing plans

6. Broadcast Journalism

- a. To write in Broadcast style conforming to the ethical and practical principals that guide it
- b. To learn the skills and techniques to investigate for new stories.



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**PROGRAMME OUTCOMES
(POs)
COURSE OUTCOMES (COs)
OF
BACHELOR OF COMMERCE
(FINANCIAL MARKETS)**



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Bachelor of Commerce (Financial Markets)

Program Outcomes

- **Develop ethical awareness in the fields of commerce along with a conscious call towards sustainability of environmental issues:** Developing ethical awareness in commerce, particularly in the financial market, involves embracing moral values and sustainability. This entails fair and transparent business practices, responsible investment decisions, and a commitment to environmental considerations. Integrating ethics and sustainability not only benefits the environment but also contributes to the long-term stability and reputation of businesses.
- **Develop essential computer skills needed for financial market such as R, Python etc.:** From a financial market perspective, success requires a multifaceted skill set. Proficiency in programming languages like R and Python is essential for data analysis and modeling. Key skills include data manipulation, statistical analysis, and data visualization. Understanding financial modeling, algorithmic trading, and database management is crucial. Automation and scripting streamline tasks, while machine learning can enhance predictive modeling. Version control ensures code integrity, and effective communication skills translate technical analyses for non-technical stakeholders.
- **Learn to be part of a team, develop reflective thinking along with sensitivity towards group members, leading to development of leadership and team management skills:** This learning experience focuses on cultivating effective teamwork by fostering reflective thinking and sensitivity towards group members. The ultimate goal is to nurture leadership and team management skills through an understanding of collaboration dynamics and personal growth within a team setting.



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Course Outcome - B. Com (Financial Markets)

FY B.Com.(FM)- Semester I

1. Foundation Course

- Understood the demographic composition of India having regard to Language, Religion, and Gender etc.
- Understood stratified reasons as to differences and women problems.
- Understood the fundamental duties of Indian citizen specified in Indian Constitution.
- Understood hierarchy of local self-government and amendment to the same

2. Business Communication I

- Getting helpful for knowledge about what is communication, types of communication, channel and modes of communication.
- Getting knowledge about what is ethics and how and for what it should be followed.
- Learn much more about parts, structure of letter, principal of letter writing and how to write d variety of personal letters
- Learn about developing ideas of about letter writing and paragraph writing.

3. Business Economics I

- Concepts and inculcate in analytical approach to the subject matter.
- Stimulate the students' interest by showing the relievable and use of various economic theories and functions.

4. Business Environment

- Understand the concept of business environment and various tools of environmental analysis. Aware of business ethics.
- Understand positive and negative impact of environment on business
- Know CSR, Corporate Governance, and carbon credit and implementation of CSR activities by various companies.

5. Introduction to Financial Systems

- Understand the concepts of Financial Systems.



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- b. Understand the concepts of Financial Markets.
- c. Understand the concepts of Financial Regulators.
- d. Understand the concepts of Financial Instruments.

6. Financial Accounting I

- a. Understood application of Hire purchase transactions in real life as regular transaction in the society
- b. Understand and Solve practical problems regarding Inventory Valuation by FIFO and Weighted Average Method.

7. Business Mathematics

- a. Demonstrate an understanding of the foundations and history of mathematics.
- b. Understand basic of Profit and loss, interest and annuity concepts.
- c. Develop and maintain problem-solving skills.
- d. Understand the practical aspects of shares and mutual fund.

FY B.Com.(FM)- Semester II

1. Foundation Course

- a. Understand New industrial policy 1992 with its economic reform
- b. Understand fundamental rights stated in constitution.
- c. Understood importance of environment protection in the current era.
- d. Understood significance of aggression, violence and the need to control in life.

2. Business Statistics

- a. Understand the concept of Concept of population and sample
- b. Understand the Data condensation and graphical methods
- c. Concept of dispersion, absolute and relative measures of dispersion, range variance, standard deviation, coefficient of variation, Meaning of LPP, Formulation of LPP, solution by graphical methods, problems relating to two variables only

3. Financial Accounting II

- a. Learn application of Branch Accounting for small branches by Debtor system and for big branches by stock and debtars system.



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- b. Understand transactions between Principal / Manufacture and agent, able to apply consignment accounting regarding these transactions

4. Principles of Management

- a. Understand the concept of concept, purpose and process of planning, kinds of plans, strategies, policies and planning, premises, goal setting, MBO, decision making, conditions, forms of group decision making in organization
- b. Understand the concept of Nature and process of management, basic management roles and skills, nature of managerial work, approaches to management, classical behavioral, systems and contingency approaches, contemporary issues and challenges

5. Environmental Science

- a. Understand the concept of Environment- structure, components and typology
- b. Understand the concept of Economic activities-nature and pattern- primary, secondary and tertiary
- c. Understand the concept of Biodiversity

6. Computer Skills – I

- a. Working with table content, Changing the table structure Page layout, Headers and footers, Page setup Graphics, adding graphics and clip art, working with graphics Proofing, printing, and exporting, Spelling and grammar, AutoCorrect, Printing and exporting documents
- b. Understand Personal Computers- identification/demonstration of different storage Getting started, The Word window, new documents, Document navigation, editing text, working with text, Undo and Redo commands, Cut, copy, and paste

7. Business Communication

- a. Deal with nerves and think more positively about public speaking.
- b. Consider ways of grabbing the listener's attention, holding their interest, and concluding strongly.



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SY B.Com.(FM)- Semester III

1. Foundation Course III - Financial Market

- a. Understand knowledge regarding Sensex, IPO shares, methods of raising finance by company through various financial instruments.
- b. Understand classification of financial instruments, derivatives.
- c. Get proper guidance about investment, difference about banking and non-banking financial services, and inflation.

2. Management Accounting

- a. Understand the concept of management accounting. Analyses and interpret financial statements.
- b. Manage working capital requirement estimations of the firm.

3. Business Law I

- a. Understand an insight of various beneficial social legislative measures
- b. Understand rights and liabilities of partners, Outsiders. Incorporation and dissolution of partnership firm.
- c. Understand provisions of Health safety and welfare measures for workers and its inspection.

4. Debt Markets I

- a. Understand about Debt Markets
- b. Instruments & players in debt markets Bonds - Features of bonds, Types of bonds, Issuers of bonds, Bond ratings- importance & relevance and rating agencies.

5. Equity Markets I

- a. To learn structure of equity markets and growth of corporate sector
- b. To learn about primary market and its instruments
- c. To understand importance of Equity Markets in developing country like India

6. Commodities Market

- a. To learn structure of commodities markets and dynamics of global commodity markets
- b. To learn about commodity exchanges and its role
- c. To understand how to strengthen commodities markets in India



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7. Computer Skills II

- Learn different parts of hardware and different types of software
- Learn and execute different commands of MS word, MS Excel and MS PowerPoint
- Learn Downloading information, creating e-mail ID and sending, receiving emails
- Learn legal issues of internet, importance of electronic data interchange and e-commerce.

SY B.Com.(FM)- Semester IV

1. Debt Markets II

- Understand about Debt Markets
- Understand Instruments & players in debt markets Bonds - Features of bonds, Types of bonds, Issuers of bonds, Bond ratings- importance & relevance and rating agencies
- Understand Valuation of bonds- Determinants of the value of bonds, Bond Mathematics, Yield Curve Analysis

2. Equity Markets II

- To learn structure of equity markets and growth of corporate sector
- To learn about primary market and its instruments
- To understand importance of Equity Markets in developing country like India

3. Commodities Market

- To learn structure of commodities markets and dynamics of global commodity markets
- To understand how to strengthen commodities markets in India
- To learn about commodity exchanges and its role

4. Corporate Finance

- Understand the concept of capital budgeting, receivable management, mutual fund and bond valuation and their practical implication in the real life
- Understand the concept of net present value and how to calculate payback period of a projects.

5. Business Law – II



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- a. Understood various definitions that are required to learn provision of Company Act 2013.
- b. Understood process of incorporation of company and its importance
- c. Understood the ways to raise capital in primary market by public companies and private company.

6. Business Economics II

- a. Understand the various aspects of Indian economy.
- b. Understand the role of the Indian Economy in the global context, and how different factors have affected this process.

TY B.Com.(FM)- Semester V

1. Marketing in Financial Services

- a. Understand the concept of Foundation of services marketing Services Market Segmentation, Positioning and Differentiation of Services, Customer Relationship Management Customer Loyalty
- b. Understand Customer Satisfaction & Service Quality in Service Marketing, GAP Model – Handling complaints effectively

2. Technical Analysis

- a. Understand the concept of Technical analysis, Basic assumptions, Candlestick charts analysis with one two and three candles, Stochastic, RSI, Williams %R, MFI, Bollinger bands, Moving Averages, MACD, Dow Theory and Eliot Wave Theory

3. Corporate Accounting

- a. Understand of concepts of Redemption of Preference shares and redemption of debentures
- b. Problems about Redemption of Preference shares and redemption of debentures
- c. Understand Amalgamation of Companies (w.r.t. AS 14)

4. Equity Research

- a. Understand of concept soft Introduction and meaning of research, Formulation of research problem.



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5. Direct Taxation

- a. To make aware about some basic terms of Income Tax Act 1961
- b. To make the learners aware of residential status of persons and incidence/charge of tax
- c. To understand some specific deductions to be made from gross total income U/s 80-C to 80-U in computing total income.
- d. To enable the learner to understand methodology compute total income

6. Financial Derivatives

- a. It enables the student to understand the derivative trading in commodities and its risk management
- b. Students can understand the mechanism of commodity derivative trading.
- c. Students can analyze the commodity derivative with respect to accounting treatment and taxation.

TY B.Com.(FM)- Semester VI

1. Indirect Taxation

- a. The practical aspect of GST, how it is calculated and rate of GST in detail.
- b. Understand various concept of GST.
- c. Students able to calculate GST on their transactions

2. Mutual Fund Management

- a. Understand basic concept of Mutual Funds and products
- b. Understand basic concept of Accounting and Taxation of Mutual Funds
Accounting: Net Asset Value (NAV)-Meaning-Computation- Factors affecting NAV-Pricing of Units- Fees and Expenses- Investment Management and Advisory Fees –Initial Expenses- Recurring Expenses Total Expenses-Accounting policies.

3. Strategic Corporate Finance

- a. Understand the concept of Company Valuation: An Overview of Valuation, Valuation Principles
- b. Understand the concept of Significance of Strategy in Financial Decisions, Different Types of Financial Strategy for Shareholders, Wealth



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Maximization, Overall Corporate Value Addition and Economics Value Addition.

- c. Understand the concept of Fundraising, Identification of different sources of capital, determination of capital structure and factors affecting the capital structure, cost of capital

4. Venture Capital and Private Equity

- a. Understanding concept of strategies of private equity. Understanding of Venture Capital and Private Equity.

5. Risk Management

- a. Understand: The Concept of Risk, Identification of Risk faced by Organization, Risk and Uncertainty, Strategic and Operational Risks, Dynamic Nature of Risks
- b. Understand and Identifying and Analyzing Interest Rate Risk Measuring Interest Rate Risk

6. Corporate Restructuring

- a. Design and evaluate alternative corporate restructuring strategies.
- b. Apply valuation models, including DCF and Comparable company analysis, to value, structure and negotiate a deal
- c. Evaluate the takeover process, including takeover tactics and defenses and when they should be employed.



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PROGRAMME OUTCOMES (POs)
COURSE OUTCOMES (COs)
OF
BACHELOR OF COMMERCE



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BACHELOR OF COMMERCE (B. Com.)

Program Outcomes

- **Receive a thorough knowledge of the fundamentals and a quality education in all core subjects:** A Bachelor of Commerce (B. Com) program offers students a comprehensive education in core subjects related to business and commerce. The curriculum covers fundamental concepts in accounting, finance, marketing, management, and economics. Students gain a solid understanding of business principles, financial management, market dynamics, and organizational behavior.
- **Build entrepreneurial skills for innovative and creative ideas:** To cultivate entrepreneurial skills for generating innovative and creative ideas, individuals can focus on several key areas. Firstly, developing a strong foundation in problem-solving is crucial. This involves identifying challenges or gaps in the market and devising effective solutions. Additionally, fostering a mindset of continuous learning and adaptability helps entrepreneurs stay ahead in dynamic environments.
- **Develop effective communication skills and contemporary IT knowledge:** Effective communication involves not only articulating ideas clearly but also active listening and understanding the needs of diverse audiences. In the realm of IT, staying updated on current technologies, trends, and tools is essential. This includes familiarity with cloud computing, cybersecurity, data analytics, and emerging technologies.
- **Develop leadership skills:** Developing leadership skills involves cultivating a set of qualities and abilities that enable individuals to guide, motivate, and influence others effectively. Key components include self-awareness, effective communication, decision-making, problem-solving, and the ability to inspire and empower team members. Continuous learning, adaptability, and a focus on building positive relationships are also essential.
- **Acquire ability for critical thinking and decision making skills:** Acquiring critical thinking and decision-making skills involves understanding issues, analyzing information, thinking critically, using decision-making frameworks, considering alternatives, balancing emotion and logic, continuous learning, effective communication, and embracing feedback and reflection. These skills enable individuals to



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approach problems systematically, make well-informed decisions, and adapt and grow over time.

COURSE OUTCOME - B. Com

FYB.Com.- Semester I

1. Accountancy & Financial Management- I

- a. Acquire the basic knowledge on accounting concepts, conventions and the basics of Accounting Standards.
- b. Know the concepts on Discounting Cheque
- c. Calculate average due date for the loans and advances.
- d. Reconcile bank statement as per Cash Book and vice versa.
- e. Gain skill in preparing Cash Book.

2. Commerce – I

- a. Understand the elements of marketing mix and functions of marketing.
- b. Have an in-depth understanding on product, product planning and product life cycle.
- c. Evaluate the pricing methods and physical distribution channels.
- d. Analyze promotion strategies and marketing techniques for a product, or a service.
- e. Become marketing professionals.

3. Business Economics – I

- a. Acquire the basic knowledge in business concepts and importance of economic activities of the consumer
- b. Calculate the elasticity of demand and supply of the Commodities in the market.
- c. Know the various factors of Production viz, land, labor and capital.
- d. Analyze the economic view of market structure.
- e. Perform the profit analysis in business economics.

4. Business Communication – I

- a. Acquire the basic knowledge in business concepts and importance of economic activities of the consumer
- b. Calculate the elasticity of demand and supply of the Commodities in the market.



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- c. Know the various factors of Production viz, land, labor and capital.
- d. Analyze the economic view of market structure.
- e. Perform the profit analysis in business economics.

5. Environmental Studies – I

- a. Learners can aware about environment and relations of living communities and their interactions.
- b. Learners can aware about the natural resources type of resource, increasing demand of resources in global world and its impacts on resources.
- c. Learners can aware the increasing world's population, pattern of population growth and associated problems. Learners can understand the population and HDI and world happiness index.
- d. Learners can understand the urban problems due to migration and overcrowding, stress on urban environment and urban resources and concept of emerging smart cities and safe cities in India
- e. Learners can have introduced about environmentally important places, environmental issues in the world.

6. Foundation Course – I

- a. Creates understanding of multi-lingual, multi religious, multi-cultural nature & political nature of Indian society.
- b. Creates understanding of the Indian Constitution & the disparity in Indian society
- c. Creates understanding of the Women Rights.
- d. Creates understanding of the Human Rights.
- e. Creates understanding of the various issues of the Indian society

7. Mathematical & Statistical Techniques – I

- a. To use and understand useful functions in business as well as the concept of EMI.
- b. To understand the different concept of population and sample and to make students familiar with Calculation of various types of averages and variation.
- c. To learn the applications of matrices in business.
- d. To understand the students to solve LPP to maximize the profit and to minimize the cost.



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- e. To use regression analysis to estimate the relationship between two variables and to use frequency distribution to make decision.

FYB.Com.- Semester II

1. Accountancy & Financial Management-II

- a. Learner got the understanding of Single entry and how to prepare Final accounts from incomplete records.
- b. Learner develop the skill of preparing branch accounts.
- c. Learner came to know what is consignment sale, its relevance, accounting of transactions in the books of consignor and consignee
- d. Learner got the understanding of various types of general insurance, when insurance cover is more or less than stock.

2. Commerce – II

- a. The learners will understand the classification of services and strategies
- b. The learners will recognize the difference between organized and unorganized Retail sector.
- c. The learners will be acquainted with banking, insurance, logistic, BPO, KPO, LPO and ERP.
- d. The learners will be updated with E-Commerce and its scope.

3. Business Economics – II

- a. The students can able to understand the difference between operation of perfect competitions and monopoly.
- b. Learners can aware about pricing and output decisions under imperfect markets.
- c. Learners can grasp the knowledge about different pricing methods of business
- d. Learners can understand different techniques of capital appraisal

4. Business Communication – II

- a. The students will be able to explain concept of Group Discussion, Meeting, Committees and Conference with its advantages and disadvantages.
- b. To understand importance of public relation its internal and external functions and to introduce students to concept of crisis management.



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- c. Students are exposed to different nature and types of reports.
- d. The topic of summarization helps students how to discern the most important ideas in a text, how to ignore irrelevant information and how to integrate the central ideas in a meaningful way

5. Environmental Studies – II

- a. Learners are aware about the sources of waste and its impacts on environment, current solid waste problems in urban areas and role as a responsible citizen in waste management process.
- b. Learners can understand the relation between tourism and environment, knowledge about tourism potential and challenges in tourism industry.
- c. Learners should aware about environmental movements environmental management, environmental acts, and environmental management systems.
- d. Learners can understand the impacts of modern agriculture and industries and can understand the sustainable agricultural practices
- e. Learners are introduced to environmentally important places in Mumbai and Konkan region.

6. Foundation Course – II

- a. Makes learners understand different evolution of Human Rights
- b. Creates the basic understanding about the issues related to economic changes and its impact on different fields.
- c. Creates the basic understanding about the issues related to human Rights
- d. How stress has impact the life and how to deal with it.

7. Mathematical & Statistical Techniques – II

- a. Learners are introduced to concept of functions and derivatives.
- b. They can solve practical problems of applications of derivatives in business.
- c. Learners revised simple and compound interest. Concepts of nominal effective rate of interest are introduced.
- d. Learners can find existence and extent of relation between two variables by graphical and mathematical method



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- e. Learners are introduced to the properties and applications of Binomial, Poisson and Normal distributions.

SY B.Com.- Semester III

1. Accountancy & Financial Management- III

- To make the learner t understand partnership firm and effects of admission retirement and death of a partners during the year,
- To make the leaner understand distribution of cash after dissolution of firm to various parties in prescribed manner
- To make the learner understand the term amalgamation and their practical effects in the accounting
- To make the learner aware of conversion or sale of partnership firm into limited company and their benefits

2. Financial Accounting & Auditing-V: Introduction to Management Accounting

- To help students learn the basic concepts and importance of Management Accounting
- To help the students analyze and interpret financial statements.
- To make students understand the various ratios and its interpretation.
- To help the students understand the budgeting of capital expenditure by using various methods.
- To help the students estimate working capital with the help of data given.

3. Commerce – III

- To make the learners aware about conceptual knowledge and evolution of management.
- To familiarize the learners with the functions of management.
- To make the learners conversant with various types of organization – traditional and modern.
- To acquaint the learners with functions and styles of leadership and importance of motivation.

4. Business Economics – III



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- a. Learners get knowledge of basic macroeconomic concepts such as national income circular flow of income ups and downs in the economy
- b. Learners understand the macroeconomic functions in the economy such as effective demand consumption investment employment and efficiency of capital.
- c. Learners get aware about relationship between inflation and unemployment integration of goods and money market and supply side economics
- d. Learners understand supply of money demand for money e the difference between money and price and in detail inflation

5. Advertising – I

- a. The course exposes the students to the rigors of international advertising and equips them to be able to manage the media along with different aids of advertising in the international markets.
- b. The course enables the students to develop skills required for job/vocation in advertising, personal selling and salesmanship.
- c. Students will be equipped with skills required to motivate and train the sales force and enhance their productivity.
- d. The course enables the students to pursue post graduate programs in Advertising, Marketing, and Digital Marketing, Advertising cum Public Relations, Media Management etc.

6. Foundation Course – III

- a. Learners can aware about legal and constitutional Rights and violation Redressed mechanisms of SC, ST. Women, Children Disabilities, Minorities and elderly population.
- b. Learners can understand concept of Disaster and general effects, dealing with disasters and human Rights related with rehabilitation.
- c. Learners can update with development of science and role in everyday life.
- d. Learners can understand about effective listening, verbal and nonverbal communication, preparing for group discussion, interviews, presentation, and leadership skill.

7. Business Law – I

- a. To provide students a brief idea about formation and validity of a contract



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- b. To provide students a brief description on types of contracts and its performance.
- c. To familiarize students with special contracts.
- d. To familiarize students with the formation of contract of sale of goods.

SY B.Com.- Semester IV

1. Accountancy & Financial Management – IV

- a. Accountancy & Financial Management - IV
- b. To acquaint the learner with the company accounts and concepts of shares debentures reserves and surplus and balance sheet format as per companies act 2013.
- c. To help the learner understand the legal procedure for repayment of preference shares.
- d. To help the learners the legal procedures for redemption of debentures and their types.
- e. To make learner to understand various basis of distribution of expenses to find out profit before and after incorporation.

2. Financial Accounting & Auditing – Auditing

- a. Acquire the basic knowledge of auditing, objectives of auditing, audit program, audit note book, working paper, voucher, vouching, verification, valuation, reserves & provisions, audit report & investigation.
- b. Understand the importance and limitations of the auditing, internal control, internal check, various modes of appointment of an auditor, qualities of an auditors, qualification and disqualification of an auditor, significance of vouching, causes & reasons for depreciation, reserves & provisions, objectives of investigation.
- c. Evaluate the methods of depreciation, Rights, duties & liabilities of an auditor, various types of auditing.
- d. Gain practical exposure in preparation of audit programme, audit report & procedures for conducting electronic auditing and acquire the jobs in auditor office.

3. Commerce- IV

- a. To acquaint the learners with the basic concepts of Production Management, Inventory Management & Quality Management.



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- b. To provide basic knowledge about Indian Financial systems.
- c. To update the learners with the recent trends in Finance.
- d. To update the learners with the recent trends in marketing and how to deal with it.

4. Business Economics – IV

- a. Learners understand the economic and political aspects involved in the economy in terms of public finance
- b. Learners understand direct taxes indirect taxes their impact incidence and effects of taxation in the economy
- c. Learners get knowledge how government spends on different social insurance schemes different types of public expenditures and how it borrows internally and externally
- d. Learners understand the role of government intergovernmental physical relations Central Government State Government

5. Advertising II

- a. To understand the construction of an effective advertisement.
- b. It aims to orient learners towards the practical aspects and techniques of advertising.
- c. It is expected that this course will prepare learners to lay down a foundation for advanced postgraduate courses in advertising
- d. Advertising is most creative and effective tool to use when it comes to coming in the market and making the audience aware of the presence.

6. Foundation Course – Contemporary Issues – IV

- a. To develop academic study skills for research orientation.
- b. Ability for self-analysis and self-motivation to achieve productive goals. It will make them ready about the competitive exams in future which will enhance their confidence for the same.
- c. It will make learners to understand about effective communication in public
- d. Learners can understand about the consumer Rights, how to protect the rights.

7. Business Law - II

- a. To provide students a brief description on formation of a company and procedure of its incorporation.
- b. To provide a brief idea on types of meetings conducted in companies.

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- c. To familiarize students with Indian Partnership Laws.
- d. To provide students an overview of laws relating to Consumer Protection and Competition Act.

TY B.Com.- Semester V

1. Financial Accounting & Auditing-VII: Financial Accounting

- a. To make learner to understand format of company final accounts and various schedules of company final accounts.
- b. To make learner to acquaint information of buy-back of shares and their legal formalities.
- c. To make learner to acquaint Internal Reconstruction of the company.
- d. To make learner to acquaint with ethics and morale that the company has to follow in business.

2. Financial Accounting & Auditing-VIII: Cost Accounting

- a. Learner understand objectives and scope of cost accounting.
- b. Learner get idea about the procedure in procurement of material, stores and its documentation, valuation of material, techniques applied in inventory control.
- c. Learner get basic idea of Payroll procedure, overtime and idle time. Charging of labor cost to various cost centers and various incentive schemes to laborers.
- d. Learner get idea of various types of overheads and how to apportion primary and secondary overheads to various cost centers.

3. Business Economics – V

- a. Learners can aware about role of health and education in economic development and policy measure to achieve sustainable development goals in India.
- b. Students can understand importance of agriculture in India, as well as the problems and policy measures of agriculture sector.



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- c. Learners can introduce with role of industrial and service sector, and challenges and opportunities in these sectors
- d. . Students can acquaint the knowledge of recent trends, issues, and challenges in banking and financial sector.

4. Commerce – V: Marketing

- a. Learners will be able to understand concepts of marketing, consumer behavior, market segmentation, customer relationship management and its applications in developing marketing strategies.
- b. Learners will gain knowledge which will enable them to analyses elements of a brand, take product marketing decisions and use pricing strategies to enhance marketing of products and services.
- c. Learners will be capable of understanding traditional and contemporary marketing channels, identify the role of the elements in the promotion mix and the emerging trends in sales management and apply it in meeting the demands of current markets
- d. Learners will be able to identify unethical practices, understand and apply suitable strategies for rural markets, recognize challenges faced by marketing managers and develop suitable solutions to resolve them.

5. Direct & Indirect Taxes Paper – I

- a. To make aware about some basic terms of Income Tax Act 1961
- b. To make the learners aware of residential status of persons and incidence/charge of tax
- c. To understand some specific deductions to be made from gross total income U/s 80-C to 80-U in computing total income
- d. To enable the learner to understand methodology compute total income.

6. Export Marketing – I

- a. Acquire the knowledge of different terminologies used in International Marketing and about Foreign Trade & Foreign Exchange.
- b. Understand the need and importance of exports for our country
- c. Be familiar with the new export & import procedure.



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- d. Analyze the principle of international business and strategies adopted by firms for exporting products globally.

TYBcom- Semester VI

1. Financial Accounting & Auditing-IX: Financial Accounting

- a. To make learner to understand foreign transaction and currency rate and their effects.
- b. To make learner aware of subscription of shares and debentures. Types of underwriters.
- c. To make learner understand Amalgamation. Its types, its accounting treatment.
- d. To make learner understand LLP and their accounting procedure that has to be followed in the business.

2. Financial Accounting & Auditing-X : Cost Accounting

- a. Learners are explained how accounts are maintained in cost a/c. under Non Integrated System through Journal and Ledgers, types of ledger accounts to be prepared and how to record various costing transactions.
- b. Learner got insight as to where contract costing is applied, what are the steps in contract costing, how profit is ascertained of complete & incomplete contract.
- c. Learner got understanding of standard cost, various types of standard, standard setting process, various types of variances. Its application in Managerial decisions.

3. Business Economics-VI

- a. The students can understand the different theories of international trade
- b. Learners can aware about commercial trade policy, tariff and non-tariff barriers and international economic integration.
- c. Learners can grasp the knowledge about Balance of payments and international economic organization.
- d. Learners can acquaint knowledge about foreign exchange market

4. Commerce- VI: Human Resource Management

- a. Learners will be able to describe the functions of HR, list out the steps of recruitment and selection process, analyses sources of recruitment and effectively recruit applicants.



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- b. Learners will be able to identify training and development needs, performance and potential appraisal process, and have an understanding as to when and how to use these techniques in corporate conditions.
- c. The learner will be able to understand the concepts and describe relevance of counselling, career planning and mentoring in organizations
- d. The learners understanding of human relations will be enhanced by citing different theories of motivation and leadership. The learner will be able to apply understanding of grievances in developing policies of grievance redressed. Learners will be able to interpret factors contributing to emotional and spiritual quotient.

5. Direct & Indirect Taxation Paper – II

- a. To understand the meaning of GST, need for GST and dual GST model, to know different terms used in GST laws and its meaning
- b. To understand and solve problems on Place, Time and Value of supply
- c. To understand the provisions and application of Input Tax credit and calculation of liability and payment tax
- d. understand the procedure for registration under GST law

6. Export Marketing – II

- a. How Exporter takes decisions regarding Product, Branding, Packaging
- b. How exporter fixes the price of the Product in Foreign market.
- c. Students will know the concepts of 1. FOB- Free on Board 2. CIF- Cost, Insurance & Freight 3. C&F- Cost & Freight
- d. Students will know Role of 1. Commercial Banks, EXIM Bank & SIDBI in financing Indian exporters.



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