

ST. MIRA'S COLLEGE FOR GIRLS, PUNE
(Autonomous-Affiliated to Savitribai Phule Pune University)
M.A. – ECONOMICS – COURSE OUTCOMES

▪ Semester I

*** Micro Economic Analysis I**

- Understand and apply the concepts of micro economics such as market/ price mechanism, elasticity of demand, and economics of information.
- Analyze and demonstrate knowledge of the basic theories/laws in economics- laws of production, theories of consumer behavior.
- Evaluate microeconomic concepts, models and its use in real life situations like collective bargaining, opportunity cost.

*** Public Economics I**

- Discuss and describe the theoretical framework of Public Economics.
- Relate and explain the conceptual framework of public and private goods and the theoretical background provided by economists
- Discuss and evaluate the concepts of equity and efficiency for decision-making in taxation and public expenditure.
- Assess the role for governmental intervention and the changing nature of public choice and the policy outcomes
- Discuss and debate market failure and the case of government intervention in a modern economy.

*** International Trade**

- Discuss and describe the theoretical framework of International Trade.
- Explain the concept of terms of trade and the measurement of terms of and gains from trade
- Discuss and debate the theoretical and practical aspects of free trade policy.
- Explain and demonstrate the terminology used, parties involved and transactions in International Trade.
- Discuss and debate the International Trading and Monetary mechanism and the agreements within.

*** Industrial Economics**

- Relate and recognize the theoretical and practical aspects of Industry and classification of Industries
- Describe and debate the industrial development in India and prospects for the economy.
- Explain the concept of Industrial Productivity and Industrial Performance.
- Discuss the issues and challenges to Industrial Labour in changing and challenging times.
- Explore and analyze the changing landscape of Industry with globalization and transformation of Industry and Labour


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▪ Semester II

*** Micro Economic Analysis II**

- Understand and apply the concepts of micro economics in real life such as market structures, collusive oligopolies, game theory.
- Analyze and demonstrate knowledge of the basic theories/laws in economics- Price determination, Price Discrimination, Managerial theories of firm, etc. and their application in real life situations.
- Evaluate socially relevant microeconomic concepts/ models such as excess capacity under imperfect markets, welfare implications of monopoly, Amartya Sen's contribution

*** Public Economics II**

- Relate and describe the developments in the theoretical framework of Public Economics.
- Relate and explain the objectives of fiscal policy with special reference to developing economies
- Discuss and evaluate the concepts of governmental budgeting and budgetary deficits.
- Assess the role for governmental intervention and the changing nature of public choice and the policy outcomes
- Discuss and debate market failure and the case of government intervention in a modern economy

*** International Finance**

- Discuss and describe the theoretical framework of International Finance and recognize the features of an International Financial system.
- Describe the concept of balance of payments and the mechanism required to balance the same.
- Identify and explain the theoretical and practical aspects of foreign exchange transactions and operations.
- Examine and evaluate the movement of capital flows and working of International financial markets.

*** Indian Industrial Environment**

- Relate, describe and evaluate the Industrial Policy developments in India over a long period of time and analyze the impact/consequences of the same
- Discuss and debate the role of the private and public sector in the industrial sector in India, its structure and contributions to the Indian economy
- Relate, describe as well as analyze the policies relating to the different parts of the industrial sector and its impact/effects on the economy
- Explain and analyze the linkages between industry, environment and development and evaluate the policies relating to or corporate sustainability and the role of Indian industry

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▪ Semester III

Macroeconomic Analysis I

- Analyze and explain macroeconomic concepts of National Income, Aggregate Demand, Aggregate Supply, Consumption and Investment.
- Demonstrate and examine the concepts such as Multiplier, Consumption Function, Investment Function etc.
- Examine, analyze and evaluate the theoretical bases for open economy macroeconomics.
- Demonstrate analytical and interpretation skills to analyze and apply to real-life macroeconomic situations.

Growth and Development I

- Relate and recognize the theoretical aspects of Economic Development and the various indicators of economic growth and development
- Describe and explain the theories of Economic Growth and Development and recognize their relevance in today's context.
- Explain, analyze and assess the role of Human Resources and Capital in the process of Economic Growth and Development and appraise the same in today's context.
- Compare and contrast the economic challenges of Developing Economies.
- Describe, debate and analyze the objective of development aid to reduce poverty in general and to achieve the Sustainable Development Goals (SDGs) at large.

Research Methodology

- Acquaint oneself with the various broad areas of research.
- Enhance capabilities to carry out research in the field of social sciences
- Adapt and demonstrate appropriate methodology for conducting research studies
- Develop and apply research proposals and write research papers emerging out of one's research projects
- Adapt to ethical methods of conduction research and contributing to the body of literature

Rural Economics

- Relate to a rural economy and its linkages and the impact of globalization on the Rural Economy
- Describe and explain the concept of rural employment and unemployment, its nature, issues and challenges
- Discuss, analyze and evaluate government policies on various aspects of rural development
- Relate and recognize the concept of rural infrastructure and rural technology and examine its impact on the rural economy
- Compare and contrast rural economy and explore the scope for employment and entrepreneurship



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Semester IV

Macroeconomic Analysis II

- Explain the monetary concepts, the theories and policies relating to Money and Money Supply.
- Describe the concept of Demand for Money and to analyze theoretical base to approach to Demand for Money
- Explain and demonstrate the progressive tools relating to macroeconomic concepts and evaluate monetary crisis like inflation and business cycles in real-life situations.
- Demonstrate analytical and interpretation skills to analyze and apply to the monetary phenomenon in real-life situations

Growth and Development II

- Describe and explain the relation between agriculture and economic development and industry and economic development and the challenges therein.
- Debate on or analyze role of technology and the impact of technological change on economic development;
- Discuss and debate the linkages between environment and economic development; and argue the case for sustainable economic development
- Examine and assess the challenges to measurement of poverty and inequalities and question the need for inclusive growth.
- Compare and contrast the roles of the State as well as the role of the private sector in the Growth and Development debate.

Research Projects

- Identify and recognize potential areas/topics of research around and question them in a systematic and scientific manner.
- Construct, examine or explore a chosen topic of research,
- Demonstrate techniques of research methodology in the chosen topic of research.
- Interpret, justify or value the findings of research
- Conclude research carried out in the form of a presentation or a publication and to contribute to the existing pool of research.

Urban Economics

- Discuss and describe the conceptual and theoretical framework of Urban Economics
- Recognize and interpret the patterns and trends of Urbanization and argue the case for sustainable urban development
- Explain, analyze and evaluate the impact of urbanization and debate the challenges to Urbanisation
- Discuss, analyze and evaluate government policies on various aspects of urban development
- Compare and contrast urban economies and explore the scope for employment and entrepreneurship

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MCOM – COURSE OUTCOMES

Semester I

Management Accounting

- Analyze management accounting information for strategic and operational decision making
- Apply management accounting techniques to improve the operational efficiency of organizations
- Develop the decision-making skills in the field of management accounting
- Evaluate the significance of effective working capital management in meeting the firm's strategic objectives
- Prepare different types of budgets and analyze their applicability
- Apply budgetary control in Management decision making process

Strategic Management

- Interpret strategy concepts and models of strategic management to analyze the competitive situation facing a firm
- Relate to and apply the key concepts and frameworks that explain the reasons and ways for a firm to obtain and sustain a competitive advantage.
- Correlate and analyse the basic concepts, principles and practices associated with strategy formulation, implementation and control in diverse organizations.
- Demonstrate effective application of concepts, tools & techniques to practical situations for Identifying and solving organisational problems using a strategic management perspective
- Critically analyse and evaluate organizational strategic paradigms at national and international level

Business Administration Special Paper I Production and Operations Management

- Summarise the concepts and functions of Production & Operations Management
- Relate the role of Product, Process and Work Designs in operational efficiency
- Comprehend the process of Purchasing and Material Handling
- Identify the role of Competitive Practices in effective Production & Operations Management

Business Administration Special Paper II Financial Management

- Appreciate the role and significance of finance function for an organization
- Develop an ability to comprehend financing decisions with the aid of different techniques of Capital Budgeting
- Synthesize the concepts of financial statement analyses and interpret relationship between items of financial statements

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- Correlate and discuss the significance of working capital management for an organization
- Recognize the concepts of International Financial Management

Advanced Accounting and Taxation Special Paper I – Advanced Accounting

- Identify the significance of accounting concepts and principles
- Evaluate the impact of distinct accounting principles and concepts on the company fundamentals
- Examine, apply and critically evaluating legal provisions relating to corporate restructuring, issue of bonus shares and buy back of shares.
- Record transactions in the books of the purchasing and selling companies
- Prepare consolidated financial statements, reconstructed and amalgamated financial statements

Advanced Accounting and Taxation Special Paper II– Income Tax

- Demonstrate progressive learning of various tax issues and tax forms related to individuals
- Define the procedure of direct tax assessment
- File IT return on individual basis
- Analyze simple fact situations and recognize income tax ramifications
- Apply basic tax concepts to simple fact situations and communicate potential income tax ramifications in writing and orally
- Compute total income and define tax complicacies and structure
- Understand amendments made from time to time in Finance Act

Semester II

Financial Analysis and Control

- Design and analyse the Common Size Statements
- Compute and analyse ratios from published Annual Reports of companies
- Prepare and examine Fund Flow Statement and Cash Flow Statement
- Develop the ability to critically evaluate the impact of performance measurement
- Design and interpret appropriate performance measures to evaluate the performance of responsibility centres.

Industrial Economics

- Relate and recognize the interrelations between economics and industry, industrial development and industrial relations.
- Relate and describe the theoretical and practical aspects of the location of Industries.
- Identify, describe, analyze and demonstrate the concepts of productivity and growth in the industrial sector.


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- Describe and analyze the concept of Industrial Relations, its inter-relations with stakeholders and the impact on Industry as well as on Labour. Apply the concepts under industrial economics to real-life situations and evaluate the same.

Business Administration Special Paper III Elements of Knowledge Management

- Corelate the relevance of knowledge management in an organization
- Analyze the key challenges of knowledge management in an organization
- Recognize the role and responsibilities of knowledge management teams and significance of organizational learning
- Comprehend the various knowledge management tools
- Discuss the impact of culture of an organization on knowledge management
- Develop an ability to learn through case study method

Business Administration Special Paper IV Business Ethics and Professional Values

- Relate to various ethical issues that emerge in the business and professional context at individual, managerial and organizational level
- Demonstrate critical thinking skills required for the successful conduct of management and the professions within the ethical framework
- Identify and relate to key organizational tools, policies and, systems that apply to managing ethical conduct specifically in the business environment.
- Establish an inference of perspicacity and practice of business ethics in Indian and global context
- Confidently apply systematic ethical reasoning to business dilemmas and communicate effectively in oral and written forms these, using the concepts and logic of business ethics.

Advanced Accounting and Taxation Special Paper III – Specialised Areas in Accounting

- Familiarize with the accounting procedure relating to construction contracts and responsibilities of contracting parties
- Prepare construction contract accounts by reflecting the associated revenue and costs transactions
- Examine the types of fraud and fraud schemes that affect business enterprises and explore methods of fraud detection and prevention
- Recognize potential fraudulent situations
- Differentiate between Financial lease and operating lease
- Prepare Lease Accounting through Spread Sheets
- Prepare Service Sector Accounting-Hotels, Hospitals and Transport sector

Advanced Accounting and Taxation Special Paper IV – Business Tax Assessment and Planning

- Distinguish between Tax planning, Tax evasion and Tax avoidance

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- Analyse whether an activity results into Tax planning, Tax evasion and Tax avoidance
- Design a tax plan for LLP, One Person Company, Educational Institutions, Political Parties and Electoral Trust
- Compute Tax deducted at Source, Advance Tax and Minimum Alternative Tax
- Acquire knowledge of International Taxation.

Semester III

Business Finance

- Appreciate the significance of finance and financial planning in business to achieve a balanced capitalisation
- Evaluate the significance of investment decisions of a business with the aid of different techniques of Capital Budgeting
- Appraise the distinct sources of long-term financing of a business essential for achieving an ideal Capital Structure
- Analyse the impact of short-term sources of financing of a business on its liquidity and profitability positions
- Recognise the evolving trends in business finance and their significance in terms of industrial and economic development

Research Methodology for Business

- Illustrate basic concepts of research and identify key issues in business research
- Identify appropriate research topics and define a research problem
- Corelate the research methodologies of research designing, review of literature, scaling and sampling
- Design a questionnaire
- Comprehend and apply the methods of data collection in conduct of research
- Analyse and infer the research findings

Business Administration Special Paper V Human Resource Management

- Elaborate the relevance of human resource management in an organization
- Recognize the changes in human resource environment and current trends in human resource management
- Discuss the process of human resources planning, recruitment, training and development
- Corelate between performance management and compensation
- Synthesize the information on emerging information technologies to support the human resources function
- Conduct research on human resources practices and produce reports

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Business Administration Special Paper VI Introduction to Behavioural Finance

- Differentiate between Standard Finance & Behavioural Finance
- Illustrate various types of Investor Biases
- Relate the implications of Investor Biases on Investor Behaviour
- Identify the developments in Corporate Behavioural Finance
- Apply the knowledge of Behavioural Finance to investment decisions
- Apply select online tools for conduct of research
- Develop research proposal / research paper with due ethical considerations

Advanced Accounting and Taxation Special Paper V – Advanced Auditing

- Recall basic principles of auditing as a profession
- Recognize the role of audit committee and significance of corporate governance at national and international level
- Analyze and apply auditing procedures and code of ethics in auditing engagements
- Appreciate the use of IT in auditing
- Recognize the standards of auditing at national and international level

Advanced Accounting and Taxation Special Paper VI – Specialised Areas in Auditing

- Appreciate the scope and significance of audits of financial institutions for ensuring accountability to distinct stake holders
- Recognize the significance of government audits as a custodian of public resources
- Evaluate the role of environmental and energy audit for achieving the objective of Corporate Sustainability
- Realise the significance of and the need for Quality Audit in enhancing the performance of an organisation
- Compare the role of distinct specialized auditors

Semester IV

Capital Market and Financial Services

- Identify the concepts of Indian Financial System, its structure and functions
- Comprehend the structure, role and developments in the Capital Market
- Classify and explain the Financial Services and Government Schemes available for Entrepreneurs
- Describe the Regulatory Framework & Trends in Financial System
- Apply the knowledge acquired in their financial decision making

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Indian Economic Environment

- Relate and recognize the Industrial Policy developments in India over a period of time and analyze the impact/consequences of the same.
- Demonstrate the understanding of the private and public sector in the industrial sector in India, its structure and contributions to the Indian economy.
- Identify, describe as well as analyze the various policies relating to the industrial sector and its impact/effects.
- Discuss and analyze the concept of corporate environmental performance/ corporate sustainability reporting and evaluate its effect on Indian industry.
- Relate and describe the concept of Public Policy; assess and analyze the importance of Public Policy making to Business and Industry

Business Administration Special Paper VII Recent Advances in Business Administration

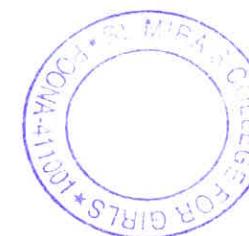
- Infer the complexity and dynamics of change in organizations
- Relate to the critical tactics required to lead change and apply them in future work
- Infer the requirements to develop an effective change management plan
- Analyse and evaluate the effectiveness of a change intervention after implementation.
- Examine and discuss the importance of quality in meeting customer expectations in product design, service, flexibility and variety, innovation and rapid response.
- Appreciate the application of quality improvement tools and techniques by examining the philosophy and approaches to continuous improvement
- Relate to the contemporary advances in business technology
- Explain the role of innovation in creating better products, services, or processes
- Relate to sustainability practices and its impact on maximising value over the long run with leaders who are innovative and who manage interactions across the economic, social and environmental context

Business Administration Special VIII - Project Work

- Relate to the significance of selecting the right topic for a research project
- Research and analyze the importance of preparing a good proposal for a Research Project
- Comprehend and apply the practical aspects of undertaking a research project
- Appreciate the relevance of ethical research
- Prepare a project report on selected topic of research in the prescribed format

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- Present the findings of their research in a logical manner

Advanced Accounting and Taxation Special Paper VII – Goods and Services Tax

- Explain the various terms applicable under Goods and Services Tax
- Identify the difference between forward charge and reverse charge mechanism and composite and mixed supply.
- Determine the time, place, and value of supply
- Assess whether a person is required to obtain registration under GST law
- Describe and compare tax invoice, bill of supply, debit note and credit note
- Compute amount of CGST, SGST and IGST payable after considering the eligible input tax credit

Advanced Accounting and Taxation Special Paper VIII – Project Work

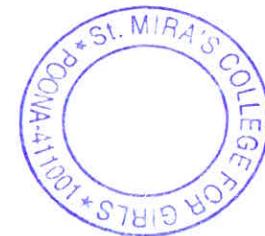
- Explore and identify the probable areas of research through review of literature, observation or experience
- Demonstrate research design in the research topic under consideration
- Evaluate the various statistical techniques suitable for analyzing data collected with reference to the respective research topic
- Develop an ability to present research findings through publication and project work and contribute to the existing pool of research
- Realize the significance of ethics and morality in conducting and presenting research findings through referencing and citations

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M.A. SOCIOLOGY – COURSE OUTCOMES

▪ Semester I

Classical Sociological Tradition

- To understand the historical context and the economic and social systems within which Sociology emerged in the west.
- To comprehend the theoretical foundations of Sociology.
- To develop critical thinking and analytical ability to interpret the social reality.

Sociology in India

- To get acquainted with the continuities and contradictions in Indian society.
- To analyze the role of colonialism, democracy, nation building and globalization in shaping contemporary society in India

Sociology of Education

- To get insights into theoretical debates on education.
- To familiarize with the inequality and discrimination involved in education system.
- To comprehend various current policies and programmes regarding education

Sociology of Maharashtra: Culture and Society

To gain sociological knowledge about the local and regional context of Maharashtra.

- To understand the caste and class composition of Maharashtra
- To comprehend women's issues in colonial Maharashtra
- To get acquainted with the changing trends in Maharashtra with special reference to Globalization, development processes and caste, gender politics

▪ Semester II

Methodology of Social Research

- To understand the philosophical foundations of social research.
- To comprehend the debate and challenges to positivism paradigm.
- To acquaint with the quantitative and qualitative strategies of research.

Sociology of Media

- To grasp the different types of media.
- To derive connection between various forms of media and nation, gender and community.

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- To understand various perspectives on media
- To become familiarize with new methodologies to analyze media in the context of globalization.

Sociology of Labour

- To get acquainted with work organization in global economy
- To comprehend various issues related to labourers.
- To foster their knowledge about the labour in global economy.

Introduction to Sociological Theories

To develop the understanding of major sociological perspectives.

- To develop the analytical abilities.
- To develop research orientation towards the understanding of major theoretical perspectives.

Semester III

Development: Sociological Perspectives

- Examine the geopolitical context in which the ideas of development and underdevelopment were shaped.
- Reflect upon alternate concepts and practices of development.
- Identify key actors and forces in implementing development.
- Demonstrate connections between local, national and international dimensions of inequalities and disparities.

Application of Research Skills

- To introduce the methods in quantitative and qualitative research.
- To enhance the ability of the students to apply the research methods to practical issues.
- To enhance their ability of analysis and presentation of data.

Sociology of Culture and Cultural Studies

- To understand the basic concepts in cultural studies.
- To analyze our everyday practices and their relevance for human interactions.
- To understand the changing contours of consumption, communication processes and food cultures.
- To develop a better theoretical perspectives to understand the interdisciplinary nature of cultural studies

Sociology of Gender

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- To comprehend the basic concepts of gender and gender inequality.
- To analyze the gendered nature of major social institutions.
- To understand the challenges to gender inequality.

■ Semester IV

Globalization: Sociological Perspectives

- Explore the historical roots and the multiple meanings of the concept of globalization.
- Assess the mutual connection between the global and local phenomena
- Scrutinize diverse responses to the processes of globalization ranging from environmental and social movements, civil society initiatives to populist reactions.

Contemporary Social Theories

- To understand the contemporary trends in social theory.
- To compare and contrast various theoretical viewpoints.
- To get prepared for research in sociology.

Sociology of Culture and Art

- To grasp the fundamental theoretical orientations of sociology of art.
- To explore the interdisciplinary insights shaping the discourse of sociology of art.
- To understand the social character of production and consumption of art.
- To identify the role of Art in social transformation

Ethnicity in India

- Comprehend various perspectives to study ethnicity.
- Understand the concept of cultural diversity and pluralism.
- Rethink and redefine the social categories like the nation, nation-state and homogeneous national culture.
- Become familiar with the question of resurgence of ethnic identities in India and develop a more balanced approach to the study of unity in diversity.
- Acquire the knowledge of the Indian diaspora and issues of identity.

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MSC COMPUTER SCIENCE – COURSE OUTCOMES

Semester I

Paradigm of programming languages(Subject code MS11901)

- develop an in-depth understanding of functional, logic, and object-oriented languages.
- analyze semantic issues associated with function implementations, including variable binding, scoping rules, parameter passing, and exception handling in different programming languages.
- be familiar with design issues of object-oriented and functional languages.
- be familiar with language abstraction constructs of classes, interfaces, packages, and procedures.
- understand and write programs in the Scala programming language.

Design and Analysis of Algorithms(Subject Code: MS11902)

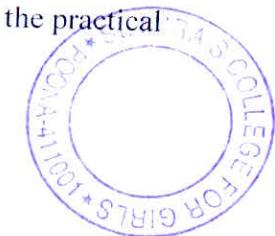
- Understand different design strategies
- Understand the use of data structures in improving algorithm performance
- Understand classical problem and solutions
- Learn a variety of useful algorithms
- Understand classification of problems

Database Technologies (Subject Code:MS11903)

- Understand the core concepts of NoSQL.
- Define, compare and use the four types of NoSQL Databases-Document-oriented, Key Value Pairs, Column-oriented and Graph.
- Demonstrate an understanding of the detailed architecture, define objects, load data, query data and performance tune Column-oriented NoSQL databases.
- Explain the detailed architecture, define objects, load data, query data and performance tune Document-oriented NoSQL databases through the practical assignment.
- Demonstrate an understanding of the detailed architecture, define objects, load data, query data and performance tune Key-Value Pair NoSQL databases through the practical assignment.
- Explain the detailed architecture, define objects, load data, query data and performance tune Graph NoSQL databases through the practical assignment.
- Perform hands-on NoSql database lab assignments that will allow students to use the four MongoDB, Neo4J.


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PPL and Database Technologies Practical (Subject Code: MS11904)

- Understand the features of SCALA language with different object- oriented features
- Acknowledge the functional programming with SCALA
- Learn to design Schema using Advanced Queries and CRUD operations using MongoDB
- Use mongoDB Aggregation framework

Artificial Intelligence & Practical(Subject Code: MSE11905)(Elective)

- learn various types of algorithms useful in Artificial Intelligence (AI).
- convey the ideas in AI research and programming language related to emerging technology.
- understand the numerous applications and huge possibilities in the field of AI that goes beyond the normal human imagination.

Web Services & Practical (Subject Code: MSE11906) (Elective)

- To Understand Web Services technologies and implementation model for SOA
- To implement web Services.
- To understand and implement RESTful system.

Semester II:

Advanced Operating System(Subject Code: MS21901)

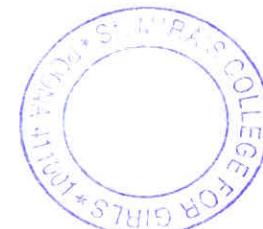
- learn Advanced Operating Systems Concepts using Unix/Linux and Windows as representative examples.
- Most Units start with the theory and then switches focus on how the concepts are implemented in a C program.
- This course describes the programming interface to the Unix/Linux system - the system call interface.
- It concludes with an overview of Windows Threads Management, an understanding of the functions of Operating Systems. It also provides an insight into functional modules of Operating Systems.
- The concepts underlying in the design and implementation of Operating Systems.

Mobile Technologies(Subject Code:MS21902)

- Apply the fundamental design paradigms and technologies to mobile computing applications.
- Develop consumer and enterprise mobile applications using representative mobile devices and platforms using modern development methodologies.
- Design effective mobile interfaces using human computer interaction principles.


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- Appraise the quality and performance of mobile applications.
- Synthesize new knowledge in the area of mobile computing by using appropriate research methodologies and techniques.
- gain knowledge of installing Android Studio and Cross Platform Integrated Development Environment.
- use the techniques, skills, and modern technology.
- develop high levels of technical competence in the field of mobile technology.

Software Project Management: (Subject Code:MS21903)

- acquire the skills required to ensure successful medium and large-scale software projects.
- examine Requirements Elicitation, Project Management, Verification and Validation and Management of Large Software Engineering Projects.
- Use the project management techniques for process modeling, planning, estimation, process metrics and risk management
- perform software verification and validation using inspections, design and execution of system test cases.

Practical on Advanced OS and Mobile Technologies(Subject Code: MS21904)

Learner would be able to,

- develop and analyze simple concurrent programs using transactional memory and message passing, and to understand the trade-offs and implementation decision
- gain knowledge of installing Android Studio and Cross Platform Integrated Development Environment.
- use the techniques, skills, and modern technology.
- develop the different applications that mobile computing offers to people, employees, and businesses
- develop high levels of technical competence in the field of mobile technology.

Cloud Computing (Subject Code: MSE21905)

- articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for cloud computing
- identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc.
- explain the core issues of cloud computing such as security, privacy, and interoperability.
- identify problems, and analyze, evaluate various cloud computing solutions according to the applications used.
- Create and deploy a cloud using google, Amazon, cloud platform.


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Project (Subject Code: MSE21906)

- develop an application based on new technology such as PHP, JAVA, Android, Python etc

Semester III

Software Architecture and Design Patterns (Subject Code:MS32001)

- Understand how to add functionality to designs while minimizing complexity.
- Interpret the code qualities required to maintain code flexible
- Analyze the common design patterns
- Explore the appropriate patterns for design problems

Machine learning(Subject Code:MS32002)

- Recognized the characteristics of machine learning
- Able to estimate machine learning model efficiency using suitable metrics
- Evaluate real world problems using different machine learning techniques
- Able to process data using python libraries and predict the outcome using machine learning algorithms
- Develop an ability to build machine learning model

Web Frameworks(Subject Code: MS32003)

- Introduce students for modern web technologies which is used widely in Industry as a part of full stack developer.
- Learn and use server-side programming using Node.js
- Understand asynchronous programming.
- Build and deploy robust Django Web App
- Know the powerful way to develop the web application in Python.
- Integrate with Restful web services.

Practical on Software Architecture & Design Pattern, Web frameworks and Machine learning (Subject Code: MS32004)

- identify the appropriate design patterns to solve object-oriented design problems.
- design an application using Pattern Oriented Architectures in spring framework
- apply Machine Learning algorithms to solve real world problems
- perform evaluation of learning algorithms and model selection.

Jayash
IQAC Co-Ordinator
St. Mira's College for Girls, Pune

G.H. Gadewar
Principal,
St. Mira's College For Girls



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- create basic web applications using server-side programming such as nodeJS, Express JS, Angular JS
- create a web application using Python web Framework-Django.

Big Data Analytics(Subject Code:MSE32005)

- Describe and explain the Big Data Analytics, its methodology and its applications.
- Examine and assess the concepts of Hadoop Distributed File System
- Analyse the role of map-reduce and functional programming
- Relate. Explain and examine the case studies related to real life situations using Big data Analytics

Semester IV

Industrial Training

- Accomplish growth objectives that describe what you will learn or what competencies you will gain from the activities you are engaged in for your internship.
- Learn variety of professional work activities designed to provide a total learning experience

Jayati
IQAC Co-ordinator
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L.H. Patwardhan
Principal,
St. Mira's College For Girls





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BA PSYCHOLOGY – COURSE OUTCOMES

Psychology General 1 – AC12005

Semester I

At the end of this course, the learner will be able to:

- Describe the evolution of psychology and the major pioneers in the field and identify the various approaches, fields, and subfields of psychology
- Enumerate the value of psychology and possible careers paths for those who study psychology
- Describe the scientific method to psychology and identify the strengths and weaknesses of research methods
- Define personality and the contributions of Freud and neo-Freudians to personality theory
- Compare and differentiate between personality theories namely type, trait, psychoanalysis, humanistic theories
- Describe cognition, intelligence theories and intelligence testing, problem-solving strategies, creative thinking

Psychology General 1 – AC22005

Semester II

At the end of this course, the learner will be able to:

- Apply psychological insights and principles of adjustment to their own lives.
- Review the concept of self, self-esteem, self-efficacy and self-presentation
- Explain motivation and major theories about motivation
- Describe hunger and eating in relation to motivation, obesity, anorexia, and bulimia
- Describe social motives
- Elaborate elements of emotion and how we express, recognize and manage emotions




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- Discuss the process of interpersonal communication and the principles of effective communication
- Describe stress, types of stressors and coping mechanisms to deal with stress

Psychology General 2 - A32116

Semester III

At the end of this course, the learner will be able to:

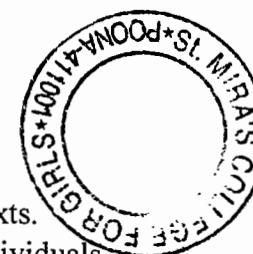
- Recognize the basic concepts, theories and methodology of social psychology.
- Summarize the causes and consequences of social behavior.
- Recognize the nature of social cognitions
- Determine the origins of human attitudes
- Determine the causes of stereotyping and discrimination.
- Integrate unique features of the Indian socio-cultural context with the social behaviors of individuals

Psychology General 2 – A42116

Semester IV

At the end of this course, the learner will be able to:

- Summarize the causes and consequences of social behavior.
- Analyze social problems with the help of various psycho-social theories
- Reflect on how individual behavior is influenced by social and cultural contexts.
- Integrate the motives of pro-social behaviors with the helping behavior of individuals
- Determine various causes of aggression
- Use the principles of social psychology in various fields




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Psychology Special 1 - A32117

Semester III

At the end of this course, the learner will be able to:

- Summarize and recognize the history and nature of Abnormal psychology.
- Recognize the various perspectives of Abnormal psychology.
- Identify and assess the role of psychosocial adversities in psychopathology.
- Recognize the risk and protective factors for mental health and wellbeing at different levels (e.g., individual, organization, community, society).
- Demonstrate familiarity with the current diagnostic systems and their ethical limitations.
- Examine the socio-political determinants of Psychopathology in the Indian context.

Psychology Special 1 – A42117

Semester IV

At the end of this course, the learner will be able to:

- Classify and define the causes and symptoms of various Psychological disorders.
- Recognize the prevalence and development of various Psychological disorders.
- Explain basic knowledge of treatments for various Psychological disorders.
- Examine the role of socio-cultural causal factors in development of various disorders.
- Discuss and analyse the biomedical model of Psychological disorders.
- Interpret the biopsychosocial model in the understanding of Psychological disorders and their treatment.




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Psychology Special 2 - A32118

Semester III

At the end of this course, the learner will be able to:

- Summarize the developmental processes of the human being throughout the lifespan.
- Recognize the theoretical perspectives to development.
- Identify influences of various factors in development across lifespan.
- Integrate the influence of culture in development
- Explain various growth processes involved in infancy and preschool ages
- Explain various growth processes involved in middle childhood and adolescence
- Integrate various growth processes involved in adulthood

Psychology Special 2 – A42118

Semester IV

At the end of this course, the learner will be able to:

- Classify the nature of work in modern and diverse work world.
- Summarize various roles of i-o psychologist
- Classify various processes used in organizations
- Determine the reasons and process to motivate employees and enhance organizational commitment
- Integrate the approaches and recent trends of leadership and emotional intelligence
- Demonstrate the basic concepts of organizational development



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Psychology General 3 - A52217

Semester V

At the end of this course, the learner will be able to:

- Recognize the basic concepts, theories and methodology of psychology of adjustment.
- Clarify the nature of close relations that enhance adjustment
- Provide the causes of wellness and health that improves adjustment
- Integrate unique features of the Indian socio-cultural context to adjustment

Psychology General 3 – A62217

Semester VI

At the end of this course, the learner will be able to:

- Summarize the concepts of positive psychology
- Determine positive cognitions and emotional states that contribute to well-being
- Examine the causes of well-being and happiness through gender perspectives
- Practice processes that bring about wellbeing
- Integrate unique features of the Indian socio-cultural context with well-being

Psychology Special 3 - A52218

Semester V

At the end of this course, the learner will be able to:

- Describe the concepts, steps and methodology of qualitative and quantitative researches
- Practice ethics in research
- Apply basic functions of softwares to analyze and interpret data of social scientific researches
- Create a research project




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Psychology Special 3 – A62218

Semester VI

At the end of this course, the learner will be able to:

- Describe the meaning, nature, and process of Counselling
- Discuss the historical context and theoretical approaches of Counselling
- Apply ethics related to the practice of Counselling
- Demonstrate Culturally Competent Skills of Counselling
- Examine emerging trends in Counselling in Indian context
- Evaluate role of Culture in Counselling

Psychology Special 4 - A52219

Semester V

At the end of this course, the learner will be able to:

- Summarize the basic procedure used in psychological experiments
- Design a psychological experiment
- Perform psychological experiment
- Report the experiment in APA format
- Describe theoretical framework of computer simulated psychological experiment




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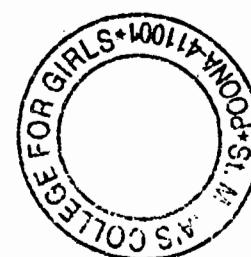
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Psychology Special 4 – A62219

Semester VI

At the end of this course, the learner will be able to:

- Summarize the basic concepts, procedure and design of psychological test
- Describe the psychometric properties of the psychological tests.
- Perform psychological tests
- Create career profile of one subject
- Report the experiment in APA format




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BA ECONOMICS – COURSE OUTCOMES

Economics General 1 – A12007 Semester I

At the end of this course, the learner will be able to:

- Analyse the economic environment and the factors affecting economic environment.
- Evaluate new developments in the various sectors of an economy – agriculture, industry, services, banking, etc.
- Compare and contrast Indian Economy with other world economies.
- Discuss, analyse and debate on the various issues and challenges facing the Indian Economy.
- Comprehend the problems like farmer's suicide, food security and regional inequality in India.

Economics General 1 – A22007 Semester II

At the end of this course, the learner will be able to:

- An ability to analyse the economic environment and the factors affecting economic environment.(academic)
- An ability to evaluate new developments in the various areas of an economy – like human resource, external sector, financial sector and policy making, etc.(academic)
- An ability to discuss, analyse and debate on the various issues and challenges facing the Indian Economic Environment.(skill development)
- An ability to understand the problems like unemployment, poverty and inequality in India. (social sensibility)

Economics General 2 - A32108 Semester III

At the end of this course, the learner will be able to:

- Relate and recognize the Scope and Significance of Demography and its relation with other disciplines.
- Discuss and analyze demographic theories and their relevance as explanations for population growth.



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- Describe and analyze Demographic Data, its sources and techniques as tabulation tools for compilation of Demographic information.
- Recognize population processes, identify different measures of population and demonstrate ability to calculate population-related variables.
- Analyze challenges related to Population and policy measures in the context of the Indian Economy.

Economics General 2 - A42108 Semester IV

At the end of this course, the learner will be able to:

- Relate and discuss concepts relating to Labour Economics;
- Apply the theoretical foundations of Wage Theory to real life situations.
- Recognize the concept of Labor Compensation and its types and recognize its significance in measurement of workers' livelihood
- Distinguish between types of labour and analyze the challenges faced by labour in the unorganized sector
- Comprehend new developments in labour legislation and codes.
- Explain and assess the role of Collective Bargaining and analyze the role of social security provisions in promoting Security and Social Justice.

Economics Special 1 - A32109 Semester III

At the end of this course, the learner will be able to:

- Illustrate various concepts in micro economics.
- Identify and apply the tools of economic analysis.
- Explain and analyse consumer behaviour.
- Discuss and analyse producer's economic decisions in the context of economic theory.




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- Compare and contrast the relationship of Economics with other social sciences and to apply economic tools and theories to social issues.

Economics Special 1 – A42109 Semester IV

At the end of this course, the learner will be able to:

- Explain the various concepts related to market structure.
- Recognize the features of various market structures.
- Compare and contrast market structures and their outcomes.
- Explain and analyse the factor markets and their outcomes
- Analyse the market outcomes in the graphical form
- Relate the concepts such as opportunity cost, economic cost, excess capacity and selling costs that influence the economic life of individuals and society.

Economics Special 2 - A32110 Semester III

At the end of this course, the learner will be able to:

- Apply various concepts and measurement of National Income
- Recognize the mechanism of income determination in an economy
- Discuss the theoretical base of consumption and investment functions
- Apply and analyze the different approaches to consumption
- Demonstrate problem solving under National Income and Consumption



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Economics Special 2 – A42110 Semester IV

At the end of this course, the learner will be able to:

- Apply the various concepts of Monetary Economics
- Explain and apply the concepts and theories of Inflation, Deflation and Stagflation
- Discuss the conceptual and theoretical framework of Business Cycles
- Analyze the role and the instruments of Monetary and Fiscal Policies
- Demonstrate sensitivity towards the effects of economic crisis like Inflation, Deflation and Business Cycles
- Describe the framework of macroeconomic policies and apply and analyze the macroeconomic policies.

Economics General 3 - A52208 Semester V

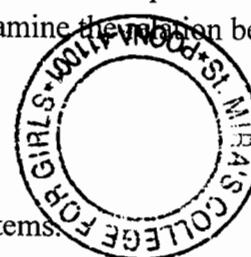
At the end of this course, the learner will be able to:

- Relate and describe the concepts and components of Public Finance.
- Describe and examine the concepts under Public Revenue.
- Explain and examine the causes of rising Public Expenditure and Public Debt.
- Relate and describe the concept of Fiscal Policy and its objectives, the Budget and its components and the Budget deficit.
- Relate and analyse the role of the government in redistribution and welfare; examine the relation between public finance and public policies.

Economics General 3 - A62208 Semester VI

At the end of this course, the learner will be able to:

- Describe and explain the concept of Banking and the Structure of Banking Systems.
- Describe the changing role of Reserve Bank of India in the post-liberalization era.




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- Compare and contrast the Commercial Banking and Cooperative Banking systems.
- Examine the changing nature of the Banking system with reference to technology.
- Examine and argue the case for Financial Inclusion and the relevance of Micro Finance.

Economics Special 3 - A52209 Semester V

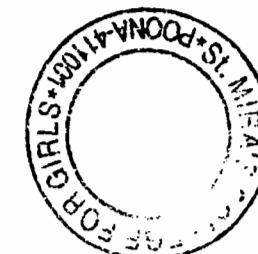
At the end of this course, the learner will be able to:

- Understand the basic economic concepts related to International Trade and International Business along with their relevance in the globalised economic structures
- Compare and evaluate the theories of International Trade.
- Hone their problem solving skills through application based learning of concepts like Terms of Trade.
- Critically examine Trade Policy and its implications.
- Discuss and analyze the role and effects of International Resource Transfers.

Economics Special 3 - A62209 Semester VI

At the end of this course, the learner will be able to:

- Understand the basic economic concepts related to Balance of Payments and their relevance in the Indian context.
- Comprehend aspects of the foreign exchange market, analyze and compare the theories and systems of foreign exchange, evaluate India's foreign exchange rate policy
- Recognise, understand and critically examine the patterns of regional cooperation, alignments among nations and their implications.
- Understand the global trade and monetary regulatory framework and analyse its relevance in the Indian context.




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Economics Special 4 - A52210 Semester V

At the end of this course, the learner will be able to:

- Apply and analyze the dynamics of Economic Growth and Economic Development.
- Analyze the constraints on Economic Development.
- Explain and apply the theoretical approaches to Economic Growth and Economic Development.
- Differentiate between Economic Growth and Economic Development
- Develop the sensitivity towards the problems of Developing Countries and the problems of Economic Development

Economics Special 4 - A62210 Semester VI

At the end of this course, the learner will be able to:

- Discuss the significance of the factors contributing to Economic Development.
- Scrutinize the problems like poverty and unemployment and analyze its impact on the process of Economic Development.
- Evaluate the contribution of different contemporary factors like globalization, technology, policies, state and credit markets towards Economic Development
- Develop the sensitivity towards the issues of Environment, Poverty and Inequality.




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BA ENGLISH – COURSE OUTCOMES

Compulsory English – HL – A12001 Semester I

At the end of this course, the learner will be able to:

- Create their own stories
- Critically and sensitively evaluate social issues like norms, conforming, peer pressure, body image, gender, myths and freedom
- Understand various literary texts, their various genres, techniques and what goes into creating a work of art
- Apply their mind to researching and writing for academic papers as well as newsreports
- Analyse various texts for their themes, subtexts, to read the grain as well as against the grain of the text
- Recall rules of english grammar and vocabulary along with their applications in daily communication
- Develop an ability/skill of thinking, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers.

Compulsory English – HL – A22001 Semester II

At the end of this course, the learner will be able to:

- Create their own debates and dialogues where they argue for or against the topic
- Critically and sensitively evaluate issues like environment, animal welfare, veganism, empathy, gender, discrimination, illness
- Understand various literary texts, their various genres, techniques and what goes into creating a work of art
- Apply their mind to researching and writing autobiographies
- Analyse various texts for their themes, subtexts, to read the grain as well as against the grain of the text
- Recall rules of english grammar and vocabulary along with their applications in daily communication
- Develop an ability/skill of thinking, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers.




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Compulsory English – AC12001 Semester I

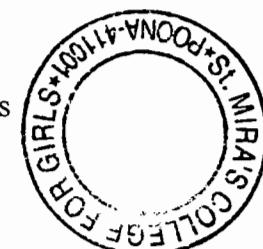
At the end of this course, the learner will be able to:

- Create their own stories
- Critically and sensitively evaluate social issues like norms, conforming, peer pressure, body image, gender, myths and freedom
- Understand various literary texts, their various genres, techniques and what goes into creating a work of art
- Analyse various texts for their themes, subtexts, to read the grain as well as against the grain of the text
- Recall rules of english grammar and vocabulary along with their applications in daily communication
- Develop an ability/skill of thinking, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers

Compulsory English – AC22001 Semester II

At the end of this course, the learner will be able to:

- Create their own dialogues using characters from literary texts to exercise creativity
- Critically and sensitively evaluate issues like the environment, empathy, women as heroes, discrimination, illnesses
- Understand various literary texts, their various genres, techniques and what goes into creating a work of art
- Apply their mind to researching and writing autobiographies
- Analyse various texts for their themes, subtexts, to read the grain as well as against the grain of the text
- Recall rules of english grammar and vocabulary along with their applications in daily communication
- Develop an ability/skill of thinking, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers.



Optional English – A12005 Semester I

At the end of this course, the learner will be able to:

- Analyze and evaluate global literature through the study of texts from different parts of the world

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- Assess the contexts in which literary texts are written (e.g., cultural, historical, social, political, economic)
- Distinguish the genre specifications of poetry, prose and drama
- Recognise and restate the fundamental features and formal elements of literary texts such as plot, character, setting, conflict, atmosphere, style, theme, figurative language, imagery, prosody, point of view, tone, irony
- Examine pressing social issues centred around conforming, resisting, peer pressure, body image, gender, myths and freedom
- Express awareness of different values, beliefs; overcoming biases
- Express deep and heightened sensitivity to the human experience

Optional English – A22005 Semester II

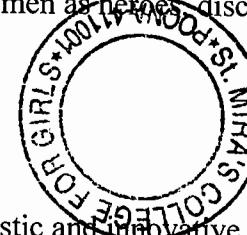
At the end of this course, the learner will be able to:

- Analyze and evaluate play texts in relation to dramatic theory and historical context (e.g., comedy, tragedy, act, scene, line, stage directions, soliloquy, playwright)
- Distinguish the genre specifications of poetry, prose and drama
- Recognise and restate the fundamental features and formal elements of literary texts such as plot, character, setting, conflict, atmosphere, style, theme, figurative language, imagery, prosody, point of view, tone, irony
- Examine pressing social issues centred around the environment, empathy, women as heroes, discrimination, persecution
- Express awareness of different values, beliefs thus overcoming biases

Compulsory English – HL - A32101 Semester III

At the end of this course, the learner will be able to:

- Recall and remember the various forms of expression in the modern age
- Create literary sensibility for appreciation in learners through exposure to artistic and innovative use of language by writers and to various worldviews



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- Apply values of tolerance and human concern in real-life situations through exposure to literary texts
- Analyse the notion of responsibility in relation to (instead of in contrast to) the idea of freedom and liberty
- Create articles (features), speeches, fiction and poetry through sound knowledge of creative writing skills
- Recall rules of grammar along with their application which will help the students polish their written and verbal expression

Compulsory English – HL – A42101 Semester IV

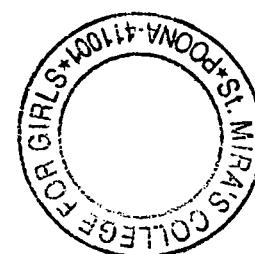
At the end of this course, the learner will be able to:

- Compare and contrast the various forms of expression in the modern age
- Create literary sensibility for appreciation in learners and expose them to artistic and innovative use of language by writers and to various worldviews
- Apply values of tolerance and human concern in real-life situations through exposure to literary texts
- Analyse the notion of responsibility in relation to (instead of in contrast to) the idea of freedom and liberty
- Create articles and blogs through sound knowledge of creative writing skills
- Recall rules of grammar along with their application which will help the students polish their written and verbal expression

Compulsory English - A32102 Semester III

At the end of this course, the learner will be able to:

- Recall various forms of expression in the modern age
- Apply rules of grammar in order to communicate effectively both through verbal and written modes
- Analyse and explore the interconnectedness of responsibility and freedom through the study of diverse literary texts
- Evaluate the need for tolerance and develop empathy through exposure to literary texts from across the globe
- Create written forms of expression like letters and articles and enhance writing skills




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Compulsory English – A42102 Semester IV

At the end of this course, the learner will be able to:

- Recall various forms of expression in the modern age
- Apply rules of grammar in order to communicate effectively both through verbal and written modes
- Analyse and explore the interconnectedness of responsibility and freedom through the study of diverse literary texts
- Evaluate the need for tolerance and develop empathy through exposure to literary texts from across the globe
- Create written forms of expression and hone skills including paragraph writing and dialogue writing

Optional English - A32119 Semester III

At the end of this course, the learner will be able to:

- Recognise and restate the fundamental connections and differences at the level of the collective unconscious that binds and divides peoples
- Examine the translation of text and culture
- Express awareness of contemporary treatment of ancient genres and conflicts whilst understanding and problematizing the concept of high and low art
- Express deep and heightened sensitivity to the human experience
- Compare and contrast the genre specifications of epic literature
- Analyze and evaluate the trajectory of mythical literature and its evolution whilst exploring indian, greek and christian worldviews
- Assess the contexts in which these mythical texts have been written (e.g., cultural, historical, social, political, economic) keeping in mind various genders

Optional English – A42119 Semester IV

At the end of this course, the learner will be able to:

- Recognise and analyse questions like identity, language, phallogocentric language, mental health, alternate sexuality

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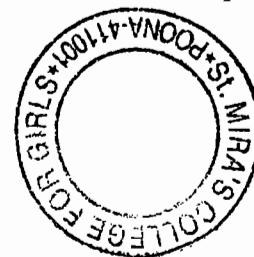
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- Examine pressing social issues centred around the environment, empathy, women as heroes, discrimination, persecution
- Express awareness of different values, beliefs thus overcoming biases
- Analyze and evaluate texts in relation to dramatic theory and historical context (e.g., comedy, tragedy, act, scene, line, stage directions, soliloquy, playwright) with special reference to women's writing, themes, situations and constraints
- Compare and contrast the genre specifications of poetry, prose, drama and graphic novels examining genres like devotional poetry, children's literature, fantasy and allegory
- Re-write a story from a woman's point of view

English Special 1 - A32114 Semester III

At the end of this course, the learner will be able to:

- Analyse and evaluate classical drama through distinguished works from different historical and cultural periods.
- Assess significant developments in the history of adaptation across western and asian theatre and drama
- Compare the differences and similarities in the subject and structure of classical drama against modern dramatic adaptations with a focus on the historical backgrounds as well as the social, cultural and political contexts of individual plays
- Recognise and restate key elements and basic concepts intrinsic to any study of theatre and drama including:
 - Dramatic form – structure, plot, characterization, language, conflict, climax, theme etc.
 - Aspects of production and performance to understand how theatre is realised through various performance elements (acting, voice, movement) and technical elements (sound, lighting, set design, costumes, masks)
- Examine and critically appreciate certain universal themes and issues present in drama across time, space and medium
- Express deep and heightened sensitivity to the human experience in creative adaptations and reworking of scenes in prescribed texts




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English Special 1 – A42114 Semester IV

At the end of this course, the learner will be able to:

- Analyse and evaluate modern drama of the twentieth through distinguished works and key developments in film and theatre
- Assess the nature and concerns of film, theatre, and television adaptation through selected case studies focusing on the difference genre and form make through the study of multiple iterations of a single story
- Expand existing textual knowledge and analytical skills through an overview of different and new theories of adaptation
- Examine a variety of drama performances that are set and written in different contexts (e.g., social, cultural, political, historical and geographical); are of different performance forms; and explore varied issues related to the human condition
- Explore how changing cultural values and aesthetics of the 20th century has shaped approaches to film and theatre including changing styles of acting, design, theatre architecture, stage speech, and non-traditional casting.
- Express deep and heightened sensitivity to the human experience in creative adaptations and reworking of scenes in prescribed texts

English Special 2 - A32115 Semester III

At the end of this course, the learner will be able to:

- Identify various forms of poetry, different genres and styles of writing thematically
- Recall the influence of tradition and how poetry has evolved and changed over time
- Contrast the treatment of the same theme over different literary periods and movements
- Apply various critical theories to the understanding of poetry
- Analyse the various figures of speech and rhetorical devices in poems
- Critically and sensitively evaluate political and social issues dealt with in poems
- Develop an ability/skill of thinking critically and appreciating poems independently




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English Special 2 – A42115 Semester IV

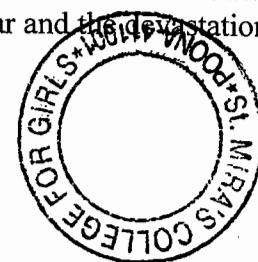
At the end of this course, the learner will be able to:

- Identify and engage with more contemporary forms of writing poetry
- Recall the influence of tradition and how poetry has evolved and changed over time
- Examine poetry in other voices by introducing students to poems from other parts of the world and other genders
- Apply various critical theories to the understanding of poetry
- Point out various contemporary themes like mental health, sexuality, power etc
- Analyse the use of poems in contemporary fields like advertising and music
- Critically and sensitively evaluate political and social issues in poems
- Develop an ability/skill of thinking critically and appreciating poems independently
- Create original spoken word poems or rap for various practical purposes

Optional English - A52214 Semester V

At the end of this course, the learner will be able to:

- Identify and explain various literary texts, their various genres, techniques and treatment of issues like partition, migration, refugees, homelessness and rootlessness
- Analyse different genres which evolved out of different periods of history to understand the effect of the context on the text and the form it takes
- Compare various texts for their themes, subtexts, to read the grain as well as against the grain of the text especially with respect to economic disparity and the consequent conflict and strife
- Assess concepts like ecofeminism and the role art plays in environment awareness
- Critically and sensitively evaluate social issues like war and the devastation that it causes mentally, emotionally and physically to people and the landscape




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- Develop an ability/skill of thinking, performing, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers
- Formulate a hypothesis in order to research and write for academic papers

Optional English – A62214 Semester VI

At the end of this course, the learner will be able to:

- Explain various literary texts, their various genres, techniques and treatment of issues like partition, migration, refugees, homelessness and rootlessness
- Illustrate themes, subtexts, read the grain as well as against the grain of the text especially with respect to economic disparity and the consequent conflict and strife
- Identify emerging literary genres like the graphic novel and semiotics
- Indicate concepts like human rights and discrimination in literature
- Analyse different genres which evolved out of different periods of history to understand the effect of the context on the text and the form it takes
- Critically and sensitively evaluate social issues like war and the devastation that it causes mentally, emotionally and physically to people and the landscape
- Develop an ability/skill of thinking, performing, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers
- Formulate a hypothesis in order to research and write for academic papers

English Special 3 - A52215 Semester V

At the end of this course, the learner will be able to:

- Understand the formal properties of language, thus improve language proficiency



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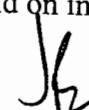
- Examine the basic concepts in the core areas of linguistics, pragmatics, semantics, syntax, morphology, phonetics, and phonology and the interaction between the
- Describe the production of English speech sounds, thus improve pronunciation and speaking skills
- Understand and describe English syllable structure, key phonological patterns in English and carry out IPA transcriptions of English
- Examine basic English intonation patterns and how they carry meaning, thus improve listening skills
- Recognise and produce phonemic transcriptions and intonation transcriptions
- Examine and identify the structure of morphological structures and subsystems and morphological processes in language, thus build vocabulary and writing skills

English Special 3 - A62215 Semester VI

At the end of this course, the learner will be able to:

- Identify the origin, history and development of World Englishes and the role historical, social, cultural processes play in the development of language with a special focus on the description and comparison of three varieties of English: Received Pronunciation (British English) and General American (American English) and Indian English
- Examine the main constructions and categories in the grammar and syntax of language and the interrelationship between them, thus improve grammatical correctness and speaking and writing skills
- Recognise the processes of language change and variation, the role of language in constructing social identities, and the distinctive properties of human language, thus building on social competencies and understanding.
- Identify the different ways in which words and sentences are stylistically constructed thus build on innovative and creative writing skills
- Examine sentences and recognise their constituent parts, thus improve grammatical correctness and speaking and writing skills
- Identify the principles and tools of stylistic analysis, thus build on innovative and creative writing skills
- Analyse select English texts including stylistic analysis of texts selections from a range of genres, thus build on innovative and creative writing




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English Special 4 - A52216 Semester V

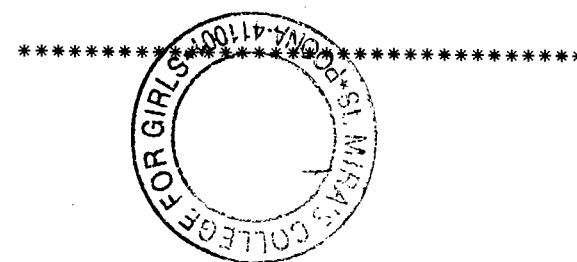
At the end of this course, the learner will be able to:

- Recall major theorists and theories whose contributions are seminal in the study of literary criticism
- Contrast the various trends and movements in art and literature across different ages and spaces
- Define appropriate technical terms to aid learners in their analysis and evaluation of art
- Evaluate the merits of literary works through a study in light of critical theories
- Analyse literary texts in light of the literary terms and critical theories studied
- Recognise and build on independent, creative as well as systematic critical thinking in order to have a richer and in depth appreciation of art
- Appreciate contemporary and classical works of art and understand the various approaches to analysis and evaluation

English Special 4 – A62216 Semester VI

At the end of this course, the learner will be able to:

- Recall major theorists and theories whose contributions are seminal in the study of literary criticism
- Contrast the various trends and movements in art and literature across different ages and spaces
- Define appropriate technical terms to aid learners in their analysis and evaluation of art
- Evaluate the merits of literary works through a study in light of critical theories
- Analyse literary texts in light of the literary terms and critical theories studied
- Recognise and build on independent, creative as well as systematic critical thinking in order to have a richer and in depth appreciation of art
- Appreciate contemporary and classical works of art and understand the various approaches to analysis and evaluation




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BA GENERAL PAPERS – COURSE OUTCOMES – FY to TY

Education General

Semester I

- Explain the concept of education and its relationship with philosophy
- List areas of philosophy and narrate their educational implications.
- Describe the contribution of Philosophy to the field of education.
- Elaborate the education in post-independence period with special emphasis on commissions and policies
- Identify the various life skills and its importance in education
- Describe the functions of educational management
- Implement the various aspects of education (Inclusive education, Peace education and Vocational education) in their day to day life

Semester II

- Elaborate the present position of pre-primary, primary, secondary and higher education
- Elucidate the challenges at all the levels of education
- Explain the viewpoints of Indian and Western thinkers on Education
- Evaluate the impact of Western Philosophies on Indian Education.
- Narrate the contribution of the Great Indian Thinkers.
- List and describe the various open sources in ICT in Education
- Explain the concept of educational psychology
- Establish the relationship between education and psychology.
- Describe the various methods used to study individual behavior in teaching learning process




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Semester III

- Discuss the various innovations in education and educational technology
- Describe the importance of distance education
- Create mind maps, concept maps and educational blogs
- Determine the administrative bodies, acts and policies in education
- Identify the need of research in education
- List out the areas of research in education

Semester IV

- Discuss the various theories of Learning
- List and describe the learning styles
- Summarize the techniques of managing behaviour in the classroom
- Identify the educational needs of exceptional children
- Differentiate between guidance and counselling

Semester V

- Establish the relationship between Education and Sociology
- Appreciate the various cultures and influence of education on culture
- Analyze the educational provisions for marginalized
- Describe the contribution of social reformers in the field of education




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Semester VI

- Appreciate the methods and models of teaching
- Illustrate and practice the educational media
- Comprehends and differentiates the various types of assessment
- Construct a tool for evaluation

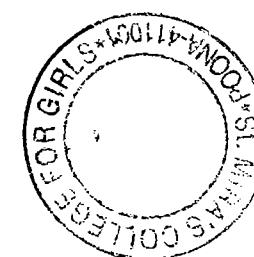
Political Science and Public Administration General

Semester I

- Describe and explain the basics of political science.
- Discuss and examine the significance of political theory.
- Describe and discuss the nature of democracy.
- Appraise the concepts of liberty, equality and justice.
- Examine their own role and duties as citizens of a democratic country.

Semester II

- Discuss and examine the ideological basis of the Constitution of India
- Demonstrate the ability to identify and list their Fundamental Rights and Fundamental duties.
- Assess the nature of Indian Federation with focus on Center- State relations
- Appraise the decentralization of political power at the grass root levels.
- Discuss and examine the role of various forces in Indian politics




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Semester III

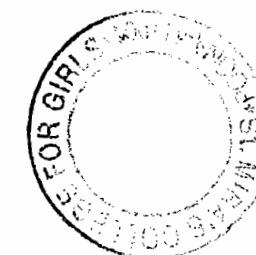
- Explain the fundamentals of international relations and identify the major actors in international system.
- Examine the significance the changes in world order since 1945.
- Describe and discuss the various contemporary threats to human security.
- Appraise the concept of peace and security in today's international world.
- Examine the role of international economic institutions in international relations.

Semester IV

- Explain the geo-political significance of South Asia
- Discuss the inter-regional issues of South Asia.
- Discuss the various contemporary trends in South Asian politics
- Appraise the significance of India in South Asia
- Examine the development of South Asia as a strategically important region.

Semester V

- Describe the various trends in Public Administration.
- Explain and analyse the changes in the field of public administration
- Explain the role of various stake holders in the policy making process.
- Analyze the impact of globalization on administration and public policy
- Create awareness about role of citizens in administration




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Semester VI

- Understand the contribution of Indian political thinkers in the field of political thought.
- Discuss the role of Kautilya in ancient Indian political thought.
- Explain and analyze the reforms in India initiated by the ideas put forth by thinkers like Raja Ram Mohan Roy and Pandita Ramabai.
- Describe and analyze the political ideas of Mahatma Gandhi.
- Explain and analyze the idea of social justice put forth by Dr. Babasaheb Ambedkar.
- Analyze and compare types of Socialism

History General

Semester I

- Define basic concepts like Culture and Civilization
- Identify varied aspects of culture to understand human conditions
- Describe and compare the first advanced civilizations in the world— Egypt and Mesopotamia
- Discuss the emergence of the earliest civilizations in Asia: the Harappan and the Chinese Civilizations
- Demonstrate the ability to analyze the diversity in political, economic, social, and cultural structures over time and space

Semester II

- Identify varied aspects of developments in different early civilizations
- Evaluate the history of different peoples and cultures in past environments
- Assess the political, social, and cultural legacies that characterized ancient Greece and Rome




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Semester III

- Describe the key events, ideas and individuals that have shaped modern Europe
- Identify the contribution of intellectuals to the French Revolution
- Trace the effects of the French Revolution
- Analyze the conditions in France which led to the Napoleonic Era
- Discuss industrialization in Europe and assess the impact of industrialization
- Examine and explain concepts like Nationalism and Nation-states
- Explain the processes by which new nation-states were carved out

Semester IV

- Identify major events and political developments in the 20th century world history
- Discuss the peculiarities of the disintegration of large empires and remaking of Europe's map
- Explain the ideologies of dictatorships that emerged in the world
- Discuss the causes and effects of the Second World War
- Analyse the role of USA and Japan in World War II
- Evaluate the complexities of international relations as a result of the Cold War

Semester V

- Define concepts and types of culture and heritage
- Identify and discuss the diversity of India's culture
- Explain the importance of our heritage
- Explain the features of Indian culture
- Identify and understand the types of sources




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- Trace the evolution of language and literature in India
- Discuss the major religions that evolved in India
- Evaluate the development of science and technology in India

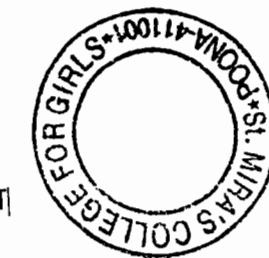
Semester VI

- State about the cultural heritage and cultural forms
- Classify and describe fine arts and performing arts as culture
- Identify the place of Cinema in India's culture and trace its development
- Examine and appraise the development of built heritage
- Evaluate the need for heritage conservation and preservation
- Explain the concept of tourism
- Discuss the elements and economic effects of tourism
- Design an itinerary for Pune as a tourist destination

Hindi General

Semester I

- हिंदीसाहित्यपठन-पाठनकेप्रतिरूपिनिर्माणकरना।
- आधुनिकहिंदीसाहित्यकीप्रमुखहस्ताक्षरमहादेवीवर्माकेरेखाचित्रएवंसंस्मरणसाहित्यसेपरिचितकरना।
- हिंदीकाव्यविधाएवंहिंदीकेप्रतिनिधिकवियोंकीरचनाओंसेपरिचितकरना।
- भाषाआकलनएवंशब्दोंकेसहीप्रयोगकीक्षमताबढ़ाना।
- सर्जनात्मकलेखनकीप्रेरणाविकसितकरना।




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- **Semester II**
- लेखिकामहादेवीवर्माकेअन्यरेखाचित्रएवंसंस्मरणोंकाअध्ययन।
- हिंदीकाव्यकाआस्वादनएवंप्रतिनिधिकवियोंकीरचनाओंसेअवगतकराना।
- भाषिकप्रयोगकीक्षमताबढ़ाना।
- सर्जनात्मकलेखनकेप्रतिप्रेरितकररोजगारपरकविभिन्नक्षमताओंकोविकसितकरना।

Semester III

- हिंदी साहित्य के प्रति छात्रों में रुचि निर्माण करना।
- महिला लेखिका मन्नू भंडारी की कहानियों से परिचित कराना।
- मन्नू भंडारी जी के साहित्य में वर्णित स्त्री विमर्श एवं मनोवैज्ञानिकता को चित्रित करना।
- हिंदी भाषा में प्रयुक्त पारिभाषिक और व्यवहारिक शब्दावली का अध्ययन।
- हिंदी विज्ञापन कला के विभिन्न पहलुओं का अध्ययन।

Semester IV

- आधुनिक हिंदी साहित्य के शीर्षस्थ रचनाकार रामधारी सिंह 'दिनकर' जी से परिचित कराना।
- 'दिनकर' जी के साहित्य में प्रस्तुत राष्ट्रीय चेतना को समझना।
- 'रश्मिरथी' खंडकाव्य का अध्ययन।
- कर्ण के जीवन की प्रासंगिकता को उद्घाटित करना।



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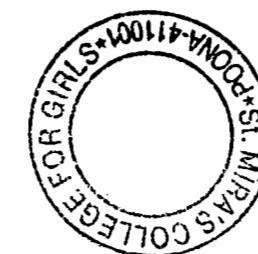
- हिंदी मानक अंक एवं व्यवहारिक शब्दावली का अध्ययन।
- विज्ञापन प्रतिलिपि एवं विज्ञापन एजेंसी के कार्यों का अध्ययन करना।

Semester V

- हिंदी नाट्य साहित्य के प्रति छात्रों में रूचि निर्माण करना।
- लेखक शंकर शेष के नाट्य साहित्य का अध्ययन करना।
- 'बिन बाती के दीप 'नाटक का अध्ययन करना।
- प्रबंध काव्य का रसास्वादन करना।
- कवि जयशंकर प्रसाद जी द्वारा लिखित 'कामायनी 'महाकाव्य का अध्ययन।
- व्यवहारिक हिंदी एवं पारिभाषिक शब्दावली का ज्ञान प्राप्त करना।
- हिंदी पत्रकारिता के क्षेत्र को रोजगार की दृष्टी से छात्र को अवगत करना।

Semester VI

- समग्र जीवन का आख्यान करनेवाले उपन्यास विधा से परिचित कराना।
- मनुष्य के संकल्प और श्रम की महत्ता से परिचित कराना।
- दशरथ माँड़ी के सत्य घटना से मानवीय प्रेम की असाधारण जीवन संघर्ष की प्रेरणा देना।
- प्रकृति और पर्यावरण के सहचर में ही समग्र मानवता के अस्तित्व की सुरक्षितता का सन्देश देना।




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- तमामप्रतिकूलता के बावजूद स्वतंत्रता और मानवीय गरिमा का सम्मान।
- अनुवाद कला से परिचित कराना।
- आलेखन और टिप्पण के लिए महत्वपूर्ण अंग्रेजी – हिंदी वाक्यांश से अवगत कराना।
- हिंदी साहित्य और सिनेमा के अंतर्संबंध का परिचय कराना।

Marathi General
Semester I

- विद्यार्थ्यांचीकाव्यविषयकअभिरुचीविकसितझाली.
- विद्यार्थ्यांनाकाव्यरसग्रहणआणिसादरीकरणाचेकौशल्यप्राप्तझाले.
- विद्यार्थ्यांनासंस्कारसाहित्याचेआकलनझाले.
- विद्यार्थ्यांमध्येकथाकथन, अभिवाचनहीभाषिककौशल्यविकसितझाली.

Semester II

- विद्यार्थ्यांमध्येविविधसाहित्यप्रकारांच्याआस्वादाचीक्षमताविकसितझाली.
- विद्यार्थ्यांचेसर्जनात्मकलेखनकौशल्यविकसितझाले.
- विद्यार्थ्यांनालेखनविषयकनियमांचे, वाक्प्रचारवर्म्महणींचेउपयोजनकरताआले.
- विद्यार्थ्यांनाभाषासंवर्धनाततंत्रज्ञानाचावापरजातझाला.



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Semester III

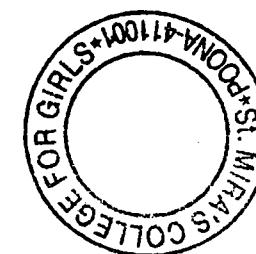
- विद्यार्थ्यांना कथा या साहित्य प्रकाराचे स्वरूप जातहोईल.
- विद्यार्थ्यांचीकथाविषयकअभिरुचीविकसितहोईल.
- विद्यार्थ्यांमध्येसून्नसंचालनआणिआभार प्रदर्शनाचे कौशल्य विकसितहोईल.
- विद्यार्थ्यांना प्रसार माध्यमांशी संबंधित पारिभाषिक संज्ञा जात होतील.

Semester IV

- विद्यार्थ्यांना चरित्र या साहित्य प्रकाराचे स्वरूप जात होईल.
- विद्यार्थ्यांमध्ये चरित्र या साहित्य प्रकाराच्या आस्वादाची क्षमता विकसित होईल.
- विद्यार्थ्यांना दासबोधातील शिष्य लक्षणे जातहोतील .
- विद्यार्थ्यांना मराठी विषयाच्या संदर्भात करिअर संर्धीचे आकलन होईल.

Semester V

- विद्यार्थ्यांना नाटक या साहित्य प्रकाराचेस्वरूप जात होईल.
- विद्यार्थ्यांची नाट्यविषयक अभिरुची विकसित होईल.
- विद्यार्थ्यांमध्ये चित्रपट समीक्षणाचे कौशल्य विकसितहोईल.
- विद्यार्थ्यांमध्ये गट चर्चेकौशल्य विकसितहोईल.



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Semester VI

- विद्यार्थ्यांना आत्मचरित्र या साहित्य प्रकाराचे स्वरूप आणि स्त्रीलिखित आत्मचरित्रांची वाटचाल जात होईल.
- विद्यार्थ्यांमध्ये आत्मचरित्र या साहित्य प्रकाराच्या आस्वादाची क्षमता विकसित होईल.
- विद्यार्थ्यांना महितीपत्रकाचे लेखन कौशल्य आत्मसात होईल आणि त्यासंदर्भात करिअर संधीजात होईल.
- विद्यार्थ्यांमध्ये स्मरणिका संपादनाचे कौशल्य विकसित होईल.




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BA SOCIOLOGY COURSE OUTCOMES

Sociology General I – AC12006

Semester I

At the end of this course, the learner will be able to:

- Describe basic sociological concepts
- Correlate sociological concepts to everyday life
- Acquire the knowledge of practice of sociological thinking
- Connect sociological thinking to the stuff of everyday life.
- Critically apply sociological concepts specifically to food and shopping.
- Articulate the position on socially relevant issues.
- Open up the sociology classroom to discussions that validate student expertise in on their own life world

Sociology General I – AC22006

Semester II

At the end of this course, the learner will be able to:

- Describe the characteristics of social institutions.
- Analyze the changes in social institutions in the Indian context.
- Critically evaluate the role of social institutions in shaping human social relationships/interactions.
- Learn seeing strange in the familiar (strangeness in the familiar things).
- Gain knowledge of the role of new digital media methods in social interactions.
- Articulate the position on socially relevant issues.




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Sociology General 2 - A32111

Semester III

At the end of this course, the learner will be able to:

- Summarize the historical context of formation of Indian Society.
- Create awareness about contemporary critical issues in the Indian society.
- Explain contemporary challenges posed to the unity of Indian society.
- Develop interpersonal skills to enable the study of social issues, problems and challenges.
- Formulate ways of behaviour that enable social inclusions and national integration
- Construct a holistic understanding based on interdisciplinary knowledge of Gender, Ethnicities, class and caste.
- Adapt self understanding of the contemporary social issues and social reality of contemporary Indian society.

Sociology General 2 – A42111

Semester IV

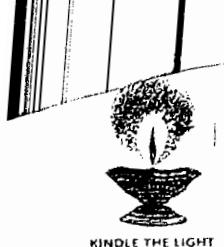
At the end of this course, the learner will be able to:

- Outline the new social field of Ageing, its basic concepts and new challenges in Ageing.
- Develop an empathetic, holistic approach and sensibilities in behaviour towards ageing and with old people.
- Illustrate the social stratification of the society based on class, Gender and caste related to ageing.
- Make use of positive values like compassion, accountability and sensitivity to human issues.
- Analyze a critical, rational, logical, and scientific approach to the study of Ageing and its relation with individual, family, society and with religion.
- Relate the mutual link between individual and larger society specially with Ageing.
- Demonstrate sensibilities towards understanding Ageing and their effect on the individual and on society.



JF

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Sociology Special 1 - A32112

Semester III

At the end of this course, the learner will be able to:

- Develop knowledge of factors leading to the emergence of sociological theory.
- Build an understanding of the theoretical foundations of sociology.
- Foster critical viewpoints on classical theory in terms of race and gender.
- Develop logical and cohesive reasoning abilities
- Foster skills such argumentation and critical analysis
- Develop an understanding of a plural society.
- Demonstrate an ethical approach to understanding a diverse social world.

Sociology Special 1 – A42112

Semester IV

At the end of this course, the learner will be able to:

- Develop an understanding of the historical background and genealogies of Indian sociology.
- Identify major theoretical frameworks in Indian Sociology
- Develop an understanding of the contribution of critical insights in shaping Indian sociology.
- Foster a critical, scientific approach to the study of Indian society
- Develop logical and cohesive reasoning
- Demonstrate multicultural and plural sensitivities
- Demonstrate an ethical stand to engage in everyday world



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Sociology Special 2 - A32113

Semester III

At the end of this course, the learner will be able to:

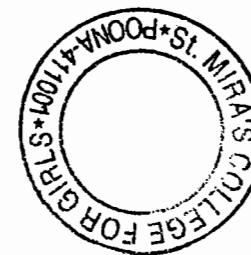
- Develop the knowledge of concepts related to popular culture and provide basic knowledge of methods used in the field of media.
- Know various interdisciplinary fields related to media and popular culture
- Develop an understanding of global forces in the field of popular culture/media
- Apply various non-conventional texts like films, art forms and social media
- Foster critical, reflexive and analytical thinking skills in media
- Develop multicultural and plural sensitivities towards diversity of cultures and perspectives on culture.
- Develop ethical and moral stand towards media and role of popular culture/media

Sociology Special 2 – A42113

Semester IV

At the end of this course, the learner will be able to:

- Build a strong and sound theoretical foundation in Sociology of gender.
- Inculcate critical thinking skills.
- Empathize and solve gender related issues in their lives.
- Identify women's rights as human rights
- Develop multicultural and plural sensitivities about gender issues.
- Adapt an ethical approach to understanding gender realities.
- Foster a more balanced approach to understanding Indian society
- Carry out gender related research




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Sociology General 3 - A52211

Semester V

At the end of this course, the learner will be able to:

- Learn and develop a more balanced approach to understand Urban Society.
- Assess multicultural and plural sensitivities.
- Explore and demonstrate sensibilities towards understanding a plural society.
- Apply and develop interpersonal skills to enable the study of social issues, problems and challenges.

Sociology General 3 – A62211

Semester VI

At the end of this course, the learner will be able to:

- Learn the ways in which man makes and adapts to the social environment thereby rendering human existence the basic social nature.
- Learn reflexive and critical knowledge of the discipline.
- Apply and assert a critical, rational, logical, and scientific approach to the study of Information society
- Apply and internalize positive values like compassion, accountability and sensitivity to human issues related to Information society.

Sociology Special 3 - A52212

Semester V

At the end of this course, the learner will be able to:

- Learn the basic concepts of Research methodology
- Apply the knowledge to doing research
- Critique positivist paradigm and approach research critically
- Apply software to analyze and interpret qualitative data to articulate social issues.



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Sociology Special 3 – A62212

Semester VI

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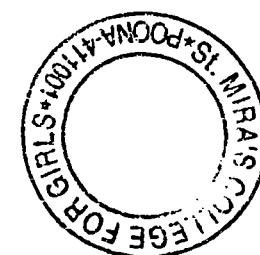
- Explore the familiar path of cinema to connect to larger Sociological theoretical grounds and sociological concepts.
- Assess the world through a sociological lens that allows them to analyse and think about the world in sociological terms.
- Evaluate movies in terms of the extent to which they uncritically transmit stereotypes, misconceptions and ideologies regarding gender, race, ethnicity, poverty, social change, and social and political life.
- Apply concepts taken from social science in a way that will enhance their judgment and help them make better decisions in both their personal and public life.
- Identify women's rights as human rights

Sociology Special 4 - A52213

Semester V

At the end of this course, the learner will be able to:

- Explore the historical context shaping the discourse of development.
- Assess the changing concept of development.
- Apply sensitive understanding towards differentiated impact of development on different regions and sections.
- Demonstrate ethical issues in global development.




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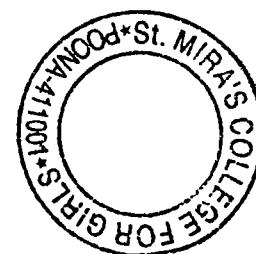
Sociology Special 4 – A62213

Semester VI

At the end of this course, the learner will be able to:

- Learn sociological understanding of modern sports.
- Apply analytical skills and theoretical perspectives linking sport to the social world.
- Demonstrate sensitivity towards barriers in the field of sports in terms of social stratification, power and inequality.
- Learn new sociological concerns and ethical issues in the field of sports.

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**BBA COURSE OUTCOMES
FYBBA**

Semester I

Principles of Management

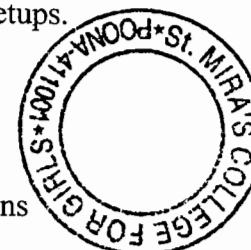
- Recognize the Nature and Significance of Management.
- Identify the contributions of Indian Management Ethos, Classical and Modern thinkers towards the field of Management.
- Recall the principles and functions of Management.
- Relate to the trends in Management Practices.
- Interpret the Role and Skills required for Managerial jobs.

Business Communication Skills

- Identify the importance of Effective Communication.
- Recognize the role of Communication in personal and business world.
- Interpret the systems and methods of Communication and their utility.
- Construct effective business messages and presentations both in internal or external business setups.
- Develop an ability to demonstrate Workplace Etiquettes.

Business Accounting

- Identify the role and importance of accounting in business
- Describe the right approach towards classification of different transactions and their implications
- State the meaning and development of Accounting Standards in India
- Demonstrate proficiency in preparation of basic financial statements
- Recognize the reasons for decrease in the value of fixed assets and its calculation thereof.



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Business Economics – Micro

- Relate and recognize how markets organize core economic activities, such as production, distribution, etc.
- Explain the economic theories and analyze economic issues under fields of applied microeconomics.
- Recognize and demonstrate ethical values and its role in economic decisions-making.
- Describe governmental efforts to address market failure such as monopoly power, externalities, etc.
- Describe and evaluate the Managerial aspects of Microeconomics through the application of mathematical and optimization techniques.

Business Mathematics

- Recall, relate and apply matrices to solve linear system business problems
- Recall, identify and apply permutations and combination to analyze business problems.
- Define the instruments of the equity market, types of shares and its use to evaluate business situations.
- Recall, recognize and apply the concepts of interest, annuity, emi, to evaluate financial problems
- Comprehend the concepts of lpp, formulate a suitable real-world problem and solve.
- Comprehend the concept of a Transportation problem and its use to evaluate solution for the same.

Business Demography

- Recognize and describe the concept of Demography and the various attributes of Population
- Recognize and relate demographic data and explain reports based on demographic analyses.
- Apply the demographic concepts and population theories to explain characteristics of population and the related socio-economic issues and current status.
- Discuss the relationship between the policies of the Government and Demographic change.




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Semester II

Business Organization and System

- Comprehend the aspects of modern business and their trends.
- Relate the global view of organizational establishments which supports the business.
- Identify how to generate business ideas and develop business plans.
- Recall sources of finance and other resources to start new business.
- Recognize the importance of networking to increase professional network.

Principles of Marketing

- Identify the role of marketing in organizations and society.
- Construct their marketing and branding skills
- Apply their mind to environment of marketing
- Analyze consumer behavior.
- Demonstrate their skills in the fields of pricing and promotion mix.

Principles of Finance

- Recognize the importance of Finance Function for a Business Organization.
- Describe the different Sources of Finance available to a company
- Apply the mind to construct the basic Financial Structure for a company
- State and explain the technical concepts of Capital Structure and Capitalization
- Relate to the new and emerging trends in the field of Business Finance.




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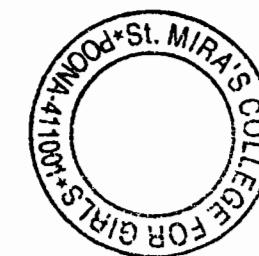


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Basics of Cost Accounting

- Underline the importance of Cost Accounting as a Branch of Accounting
- Differentiate between Financial Accounting and Cost Accounting
- Demonstrate an understanding into the concept of cost for a business organization
- Examine the different types of Cost and Cost Classification
- Apply the skills for computation of total cost for a product
- Identify the overheads and its influence on the cost structure
- Recognizing how cost is ascertained for different types of processes
- Computing cost of a particular contract



Business Statistics

- Determine, relate and evaluate the connections between theory and applications.
- Analyze, apply, experiment and evaluate statistical reasoning, formulate a problem in statistical terms, perform exploratory analysis of data by graphical and other means, and carry out a variety of formal inference procedures.
- Describe, examine and apply the concept of average and estimation which would help them in business forecasting.
- Identify, predict, validate and explain decision making using statistical models.

Fundamentals of Computers

- Comprehend the Fundamentals of Computing Devices and reinforce Computer vocabulary, particularly with respect to personal use of computer hardware and software, the Internet, networking and mobile computing.
- Recognize the basic components of a computer operating system, and its types.
- Express an ability to organize files and documents.
- Demonstrate hands on Windows and MS. Office.
- Relate the concept of information technology and its role in modern businesses

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- Express cautions to be taken while using NET based service.

SYBBA

Semester III

Principles of Human Resource Management

- Relate to the basic concept of HRM and develop knowledge about the various functions of HRM.
- Recall how Job Analysis & Human Resource Planning play an important role in the Organisation.
- Describe the importance of Training and Performance Appraisal.
- Recognize awareness about Changing Environment of HRM and the various trends in HRM among the students.



Supply Chain Management

- Recognize the impact of supply chain strategy in providing competitive advantage for organizations.
- Draw the interrelation between Warehouse Management and Logistics Management with Supply Chain Management
- Analyze the relationship between Human Resource Management and Supply Chain Management.
- Develop and evaluate distribution network design for Supply Chain of different types of business.
- Plan Warehouse and Logistics operations for optimum utilization of resources
- Develop constructive guidelines for transparent and fair treatment of suppliers and customers to enhance the reputation of supply chain management professionals

Global Competencies and Personality Development

- Identify various factors affecting personality development of an individual.
- Relate to the concept of Global Competence.
- Recall various theories of personality development.


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- Identify and recognise self- esteem and self-confidence.
- Explain social responsibilities and relate to empathy towards individuals.

Business Economics (Macro)

- Recall and describe the fundamentals of Macroeconomic Theory.
- Explain and illustrate the models and measurements of Circular Flow of Income
- Discuss and demonstrate the concept of Unemployment Equilibrium
- Explain and analyze the concept of Effective Demand and apply to real-life situations
- Analyze the effects of Fiscal Policy and Inflation and Deflation
- Explain and analyze the concept of Trade Cycles and Unemployment

Consumer Behaviour and Sales Management

- Relate to the concept and determinants of Consumer Behaviour.
- Identify the relationship between Consumer Behaviour & Sales Management.
- Recognize the conceptual based approach towards decision making aspects its implementation considering Consumer Behaviour in Sales Management.
- Analyze the latest tools and techniques for managing the Sales Force and & Control the Sales function.

Management Accounting

- Discuss the role and importance of Management Accounting in business.
- Analyze the format of Statement of Profit & Loss and Balance Sheet of a Company.
- Identify & examine the different techniques of financial statements analysis.
- Practice the technique of Ratio Analysis for selected Ratios.
- Describe the importance of Contribution and Breakeven point in business for estimating the profitability.
- Illustrate the concept of Budget and Budgetary Control and the types of Budgets.




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- Construct the Cash Budget for an enterprise.

Organisational Behaviour

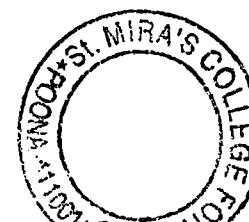
- Relate to the concepts, models and frameworks in the field of Organisational Behaviour.
- Identify the behaviour of individuals and groups in organizations and the key factors that influence Organisational Behaviour.
- Identify the approaches to line-up individual, groups & managerial behaviour in order to achieve organisational goals.
- Recognize the significance of the culture of an organization and the importance of developing good leaders with better teams.
- Analyze the impact of Conflict Management and Collaboration on Organisational Performance.

Retail Management + Business Exposure

- Associate to retail industry, strategy, operations, management, innovation in retail, and the key issues impacting growth in retail firms.
- Identify with the strategic options available to retailers.
- Identify the factors impacting store design and location selection.
- Analyse with the latest tool used in retail like Omni Channel Retailing, shopping with AR industry, (Augmented reality), Pop up shops, social shopping, private label..

Banking & Finance + Business Exposure

- Relate to the meaning and origin of a Bank.
- Describe the various functions and activities of a bank.
- Identify the types of accounts with the banks and analyze the procedure with respect to opening operating and closure of accounts.
- Examine the functioning and powers of various Regulatory Authorities in India.
- Relate to the usage of Technology in Banking




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Legal Aspects in Human Resource Management

- Categorize and assess the impact of various rights of employees at the workplace.
- Identify and examine the legal issues related to HR in the Organisations.
- Relate to the concept and significance of Wage & Salary Administration.
- Analyze the concepts and applications of different Legal Aspects in HR.

Basic course in Environment Awareness

- Identify and recognize the knowledge, values, attitudes, commitment and skills needed to protect and improve the environment.
- Discuss current scenario of environment.
- Develop consciousness towards a cleaner and better managed environment.
- Analyze various local environment aspects.

Semester IV

Entrepreneurship and Small Business Management

- Relate to the concept and process of Entrepreneurship.
- Recognize the Entrepreneurial spirit and resourcefulness.
- Demonstrate the scientific approach to Opportunity Analysis and to formulate a Business Plan.
- Recognize the significance of MSME, its challenges and creating awareness about financial assistance to MSMEs.
- Analyze the role of Social, Rural and Women Entrepreneurship.

Productions and Operations Management

- Relate to the concept of Production and Operations Management and various systems of Production and Layout.
- Identify the significance of Product Design and Product Development in Production Management.
- Appraise the techniques of Production Planning and control.




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- Evaluate the role of Ergonomics and Quality Management in Productivity.
- Analyze the changing environment of Production and Operation, Maintenance methods and Quality Management

Decision Making and Risk Management

- Describe and examine the key aspects in decision making and risk management so that the organization can improve decision making and reduce risk in their management activities.
- Identify and debate the best alternatives in a decision with multiple objectives and uncertainty.
- Evaluate a deeper understanding of socio-political determinants and discuss the process of making a decision.
- Analyze an organization's decision making system under ethical limitations.
- Assess risk and protective factors to develop a risk management process.

International Business Management

- Recall and describe the theoretical aspects of International Business and Trade.
- Relate and explain the concepts of International Finance, the foreign exchange market and the Balance of Payments situation.
- Discuss and analyze the role and functions of various International Institutions
- Explain and analyze the concept and role of Foreign Investment and Foreign Capital.
- Analyze the relation of Foreign Trade and Economic Development with country specific references

Advertising and Promotion Management

- Identify the concept and understand the effectiveness of advertising.
- Identify the different Sales Promotion techniques.
- Recognize the significance of Promotion Management.
- Analyse the process of Online Advertising.

Business Taxation




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- Describe the Tax Law in India and amendments made from time to time in Finance Act
- Recognize and apply the Income Tax Act provisions for computation of different heads of income
- Demonstrate the procedure of filing Income Tax return on individual basis
- Compute and conclude on tax compliance of Individuals
- Categorize the total income, compute tax liability of an Individual and examine tax complicacies and structures
- Develop competency to seek employment or self-employment in the area of Taxation.

Human Resource Management Functions and Practices

- Associate to the concepts of Performance Appraisal, Training and Executive Development.
- Identify Concepts of Employee Compensation and other functions of HRM
- Recognize the concept of Strategic Human Resource Management
- Identify the concept of organization development and Organisational Culture.

Digital Marketing

- Identify the role & Importance of Digital Marketing.
- Describe how Digital Marketing impacts the Sales of an Organization
- Develop the right understanding of the situations as they are influenced under Digital Marketing.
- Summaries the role of Facebook, Google Ad words, YouTube and Email in digital marketing.
- Identify the importance of Digital Platforms & its impact upon the performance of the organizations in complex & varied environment.

Financial Services

- Describe in detail the Financial System in India.
- Interpret the meaning, importance and functioning of the Financial Markets in India.




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- Compare the different types of Financial Markets.
- Identify the Role of Financial Intermediaries in the Financial System.
- Explain and examine the various Financial Services provided by the Financial Institutions in India.
- Restate the Need and Importance of the Depository System in India
- Describe the usage of computers and technology in business.

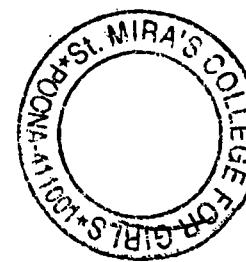
Employee Recruitment and Record Management

- Relate to the importance and process of Manpower Planning.
- Identify and evaluate the process of Selection in the Organisation.
- Analyze the significance of Induction and Socialization in an organization.
- Recognize the applications of Employee Record Management in Organisation.
- Analyze various concepts and steps relating to designing of computer Technologies and its applications in various HR functions.

Course in Analysis & Presentation of Data

- Recognize and gain knowledge about MS Excel and Power point.
- Apply their knowledge to various business requirements.
- Analyze the data required for industrial purpose.
- Create and evaluate the data in different formats available in Ms excel.

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TYBBA

Semester V

Research Methodology:

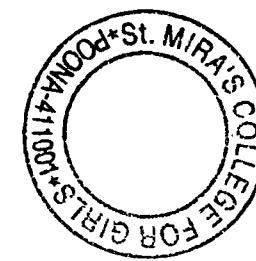
- Illustrate, categorize and distinguish among various kinds of research and the objectives of doing research, discuss about research process, research designs and sampling.
- Collect and assemble data, identify and discuss the concepts and procedures of sampling, data collection, analysis and reporting.
- Apply qualitative research techniques based on measurement & scaling, employ data analytical skills and meaningful interpretation to the data sets to solve the business and Research problem.
- Operate on quantitative data analysis and hypothesis testing procedures and interpret the results.
- Execute Research work, prepare Research Paper and write Research Report.

Database Administration and Data mining:

- Identify the concepts of the Database Management System
- Analyze the concepts of RDBMS
- Recognize the concept of Data Mining
- Classify the current trends in Data Management

Business Ethics:

- Develop ethical and value based thought process and understands its application in business practices.
- Analyze the roles and responsibilities of modern organizations towards its stakeholders.




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- Summarize the efficiency and relevancy of CSR in today's Business world.
- Appraise importance of ethical practices in various business disciplines.

Management of Corporate social responsibility:

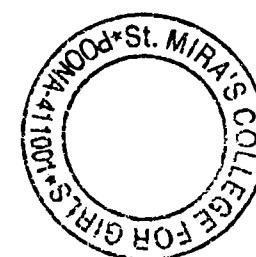
- Illustrate the concept and process of CSR and its applications.
- Analyze the legal aspect for implementing CSR and develop decision-making ability in present-day Management
- Develop an understanding about the contribution of CSR for the sustainable development of Society
- Appraise the roles and responsibilities of various stakeholders in CSR activities.

Analysis of Financial Statement:

- Identify and interpret the Financial Statements with the help of different Techniques of Financial Statement Analysis.
- Analyse and interpret the financial health of a company with the Technique of Ratio Analysis.
- Discuss and analyse the Financial Statements of a Banking Company.
- Explain the meaning and importance of a Cash Flow Statement.
- Construct the Cash Flow Statement of a Company as per AS3.

Legal Aspects of Finance & security Laws:

- Describe the Indian Financial System and its components.
- Restate the Trends in the Indian Financial System.
- Explain the importance of The Securities Contracts Regulation Act, 1956.
- Describe the provisions regarding Listing, Delisting of securities and Investor Protection.
- Discuss and recognize the law relating to the Joint Stock Companies as per The Companies Act, 2013.
- Explain the meaning and important provisions of Goods & Services Tax 2017.




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Cross Cultural HR & Industrial Relations:

- Comprehend Cultural Variables in Multinational Enterprises.
- Apply business etiquette and dining etiquette that will help to work in different countries across the globe.
- Relate and assess the relationship between Cross-Culture Management and Human Resource Management.
- Comprehend the fundamental knowledge of Industrial Relations.
- Summarise the provisions under The Industrial Disputes Act,1947, The Factories Act, 1948 and The Maternity Benefit Act 2017.

Cases in Human Resource Management

- Understand and Analyze the inference of holistic approach in Human Resource Development
- Appraise the significance of Intelligence Quotient, Emotional Quotient, Social Quotient and Spiritual Quotient in the process of human resource development.
- Analyze the importance of Spiritual Intelligence and its implications on HRD.
- Discover the difference between Human Intelligence and Artificial Intelligence.

Semester VI

E-commerce

- Infer and value the importance, role, and activities of E-Commerce.
- Differentiate between various E-Money and E-Payment systems used in E-Commerce.
- Summarise the concept of E-Marketing and its tools in E-Commerce.
- Synthesise the concept of Cyber Space and Cyber Security in E-Commerce.



Management Information System

- Analyze and assess the basic concept of Information Technology, Management Information System, interpret and devise the usage of information technology to solve business problems.

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- Support the fundamental knowledge of Structured System Analysis and Design, Decision Support System, compare and contrast how MIS prepares business processes
- Translate the role of information systems in organizations and combine the strategic management processes with the management,
- Apply a framework and comply for aligning organization's IT objectives with business strategy.
- Outline the role of the ethical, social, and security issues of information systems.

Business Project Management

- Develop a significant understanding of the concept, and estimate the relationship between Business Projects and their Management
- Construct and assess the feasibility analysis in Project Management and network analysis tools for cost and time estimation.
- Analyze, apply and appraise contemporary project management tools and methodologies in Indian context especially in Market, Technical, Financial and Economic areas.
- Evaluate and manage project risk by incorporating identification, analysis and response to risk as well as execute the risk management plan
- Justify stakeholder expectations and engagement to ensure a successful project outcome

Management of Innovations and Sustainability

- Apply the concepts of Innovation and Sustainability in a practical sense.
- Summarise the significance of organizational sustainable development and the economic implications of sustainable development.
- Identify and estimate the most common errors made when handling sustainable growth.
- Relate to the socio-political aspects of sustainable development in the social responsibility aspect.

Financial Management:

- Recognize the meaning, need and importance of Financial Management
- Describe the concept of Time Value of Money in investment decisions



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- State and explain the importance of Capital Structure
- Discuss the concept and benefits of Trading of Equity
- Practice the calculation of Weighted Average Cost of Capital and Leverages
- Restate the meaning of Capitalization, study the causes, consequences and remedies of Over capitalization and under capitalization
- Compare over capitalization and under capitalization
- Debate on the Dividend Policy Decision of a Company.

Cases in Finance:

- Discuss the concept of Working Capital Management
- Estimate the Working Capital Requirements of a manufacturing concern
- Explain the concept and importance of Capital Budgeting Decisions
- Evaluate a proposal from the given alternatives by applying the Capital Budgeting Techniques
- Debate on the importance of proper credit policies
- Assess and study the impact of Credit Policy on the financial performance of a company
- Prepare and support a Project Report on a topic in the area of Finance

Global Human Resource Management:

- Describe and review the significance of Global HRM in International Business.
- Apply the knowledge of Global Recruitment and Selection.
- Relate to the concepts of Global Training & Development and Global Compensation.
- Develop the sound knowledge about strategic HRM, Knowledge management and Ethics related challenges for the HR functions in multinational enterprises.
- Evaluate the HRM in a broader, comparative, and international perspective to deal with complex issues and manifold risks




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Recent trends & HR Accounting:

- Design critical thinking by making judgments related to problems in Engaging with Human Resource.
- Develop critical thinking for solving Case Studies of Human Resource.
- Construct the theoretical framework into HR practice through Internship.
- Application of the HRIS and HRA into practice.



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**BBA(CA): COURSE OUTCOMES
FY BBA(CA)**

Semester I:

Business Communication

- Identify the importance of Effective Communication.
- Recognize the role of Communication in personal and business world.
- Interpret the systems and methods of Communication and their utility.
- Construct effective business messages and presentations both in internal or external business setups.
- Develop an ability to demonstrate workplace Etiquettes

Principle of Management

- Recognize the Nature and Significance of Management
- Identify the Contributions of Indian Management Ethos, Classical and Modern thinkers towards the field of Management.
- Recall the Principles and Functions of Management.
- Relate to the Trends in Management Practices.
- Interprets roles and skills required for Managerial jobs.

C Language

- Ability to understand the basics of computer programming languages.
- Ability to develop C programs on windows platform.
- Ability to analyze the problem and find the logical solution by using C language.
- Ability to remember various system defined function for string handling and I/O.




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- Ability to create programs, applications in C language and use them in solving various problems.

Database Management System

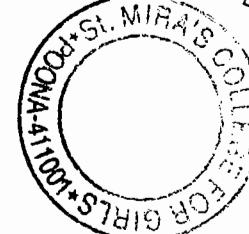
- Ability to understand basic SQL queries.
- Ability to understand and gain knowledge of database concepts.
- Ability to design the database by using normalization concepts.
- Ability to apply SQL queries and solve the basic problems related to database.

Statistics

- Ability to determine, relate and evaluate the connections between theory and applications.
- Analyze, apply and experiment probabilistic foundations of statistical inference in business world and decision making.
- Ability to develop strong communication skills which are necessary to effectively collaborate as part of interdisciplinary teams including the ability to interpret and communicate the results of a statistical analysis through oral and written reports.
- Ability to define, validate, compose Simulation Models thus helping learner solve the Programming Problems in Operations Research.

Laboratory Course I:

- To create basic C program.
- To understand how to implement logic practically in C.
- To understand how to use Oracle as a database server.
- To create database and table in oracle.
- To develop an ability/skill for creations, manipulation of data in databases through queries



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ADD-On (PPA):

- To analyze the problem and find the logical solution.
- To know the basics of programming.
- To understand how to use programming in day to day application.
- To develop Analytical / Logical thinking and Problem solving capabilities.

Semester II:

Organization Behavior & Human Resource Management

- Comprehend the behaviour of individuals and groups in Organizations and the key factors that influence Organisational Behaviour.
- Relate to the Trends in Organisational Behaviour and their relevance.
- Recognize the Opportunities and Challenges faced by Contemporary Organizations.
- Interpret Human Resource Management and its Significance.
- Recall the Traditional & Modern methods of Procurement and Development of Human Resource

Financial Accounting

- Discuss the role of accounting in a business and explain different terminologies in accounting.
- Prepare of Primary Books of Accounts
- Compute value of assets after its wear and tear, using different methods.
- Demonstrate ability in Preparation of Financial Statements.
- Distinguish between Computerized Accounting and Manual Accounting.
- Illustrate accounts using technology




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Business Mathematics

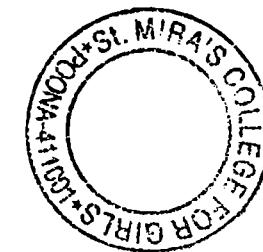
- Ability to demonstrate, determine and validate a given argument, and be able to construct mathematical proofs independently
- Ability to identify, prepare, analyze and execute mathematical tools in their careers.
- Ability to examine, analyze, formulate and solve linear systems/linear inequalities graphically/geometrically and algebraically (using matrices),
- Ability to explain the value of mathematical implementation in daily life and associating mathematical ideas to model/evaluate real-world problems.
- Ability to choose, develop, formulate and measure Linear Programming Models for shortest path, maximum flow, minimal spanning tree, critical path, minimum cost flow and transhipment problems.

Relational Database

- Ability to gain knowledge about PL/SQL scripts.
- Ability to understand relational database management concepts.
- Ability to apply their mind to various concurrency control techniques.
- Ability to understand and apply their mind in recovering the data from database.

Web Technology HTML-JS-CSS

- Ability to understand the structure of an HTML document, HTML elements and its attributes.
- Ability to create sample projects using HTML, CSS and JavaScript.
- Ability to apply their mind to create attractive web application.
- Ability to understand the use of hyperlinks to connect various HTML pages together.
- Ability to develop various scripting language and use them with various technologies.




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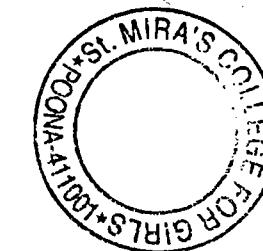
Laboratory course II

- To understand how to use different HTML tags.
- To understand how to use style sheets for designing web site
- To develop an ability/skill to use a script language
- To create interactive web site.
- To apply their mind to create queries.
- To evaluate different relationships between entities.

ADD-On (Advance C)

- To study advanced concepts of programming using the 'C' language.
- To understand code organization with complex data types and structures.
- To work with files
- To gain knowledge and understand the basics of graphics programming

SY BBA(CA)



Semester III:

Digital Marketing

- Gain knowledge about using digital marketing in and as business.
- To analyze SWOT analysis, SEO optimization and use of various digital marketing tools..
- Develop marketing strategies using social networking sites.


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- Analyze the various types of digital marketing types

Data Structure

- Recognize the concepts of ADTs
- Analyze the various linear data structures – lists, stacks, and queues
- Evaluate various sorting, searching and hashing algorithms
- Apply the concepts of Tree and Graph structure

Software Engineering

- Relate the concepts of System and types of system
- Analyze the Software Engineering concepts.
- Apply the applications of Software Engineering concepts and Design in Software development

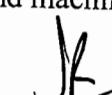
PHP

- Identify how server-side programming works on the web.
- Apply PHP built-in functions and creating custom functions
- Apply POST and GET in form submission.
- Analyze how to process form submission data.
- Create, evaluate and process data in a MySQL database.



Big Data

- Identify and Recognize comprehensive platform for career development, innovation and further study.
- Develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning.
- Identify, develop and apply detailed analytical, creative, problem solving skills.


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- Create programs using R machine concepts.

Laboratory course based on Big Data, PHP and Data Structure

- Relate the concepts of ADTs
- Analyze the concepts of linear data structures – lists, stacks, and queues
- Apply sorting, searching and hashing algorithms
- Analyze how server-side programming works on the web.
- create and evaluate data in a MySQL database.
- Create programs using R machine

Environmental Awareness

- Identify and recognize the knowledge, values, attitudes, commitment and skills needed to protect and improve the environment.
- Discuss current scenario of environment.
- Develop consciousness towards a cleaner and better managed environment.
- Analyze various local environment aspects.

Semester IV:

Networking

- Acquire knowledge about Computer Networks concepts.
- Recognize working of networking models, addresses, transmission medias and connectivity devices.
- Acquire information about network security and cryptography.




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OOP's concepts through C++

- Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
- Create programs using C++ features like operator overloading,
- Analyse and apply the concepts of constructor and destructor, inheritance, polymorphism and exception handling.

Operating System

- Identify the services provided by Operating System
- Recognize the scheduling concept
- Discuss design issues related to memory management and various related algorithms.
- Discuss design issues related to File management and various related algorithms

Advance PHP

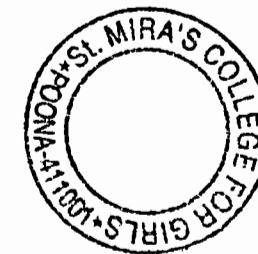
- Relate the concepts of internet programming.
- Describe how server-side programming works on the web.
- Discuss use PHP Framework (Joomla / Drupal)

Project

- Improve innovation, creative and design thinking among student community
- Apply computer technologies in various situations by learning requirement analysis and interaction with real clients.
- Gain knowledge, remember and apply various aspects of SDLC through practical orientation.

Computer Laboratory based on Advance PHP and OOP's through C++

- Create programs using C++ features like operator overloading,
- Apply the concepts of constructor and destructor, inheritance, polymorphism and exception handling.




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- Relate the concepts of internet programming.
- Create websites using PHP

ADD-ON (JQuery)

- Relate the concepts of JavaScript and jQuery.
- Discuss the working of binding events to the controls in JavaScript.
- Learn how to download jQuery library and refer it to the Html page.
- Discuss Traversing of Html elements.
- Describe the handling of different events for different Controls.

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Semester V:

TY BBA(CA)

Cyber Security

- State the fundamentals of cyber security
- Identify and describe the various categories of Cybercrime, Cyber-attacks on mobile, tools and techniques used in Cybercrime and case studies
- Discuss the concepts of Cyber laws and Cyber forensics
- Relate Cyber Security and the Tools
- Identify the different types of Cyber Crimes

Object Oriented Software Engineering

- Recognize the fundamentals of object modeling
- Relate and Differentiate Unified process from other approaches
- Design static and dynamic UML diagrams
- Test the software against its requirement specification
- Acquire Project management skills

Core Java

- Understand the basics of OOP techniques
- Solve problems using java collection framework and I/O classes
- Develop multithreaded applications with synchronization




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- Design GUI based applications

Python

- Identify and recognize Python programming basics and paradigm.
- Relate and identify python looping, control statements and string manipulations.
- Design and manipulate the concepts of GUI controls and applications.
- Analyze and apply the concepts of file handling, exception handling.

Project

- Improve innovation, creative and design thinking among student community
- Apply computer technologies in various situations by learning requirement analysis and interaction with real clients.
- Acquire knowledge, remember and apply various aspects of SDLC through practical orientation.

Computer Laboratory based on Core Java and Python

- Identify and recognize Python programming basics and paradigm.
- Relate and identify python looping, control statements and string manipulations.
- Design and manipulate the concepts of GUI controls and applications.
- Solve problems using JAVA collections framework and input out classes.
- Design GUI based applications using JAVA.
- Develop Applets for web applications.

ADD-ON (IOT)

- Explain technologies ,smart objects, IoT Architecture and security in Internet of things
- Illustrate the role of IoT protocols for efficient network communication



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- Recognize IoT platform such as Arduino Uno
- Describe smart objects and IoT Architecture.

Semester VI:

Recent trends in IT

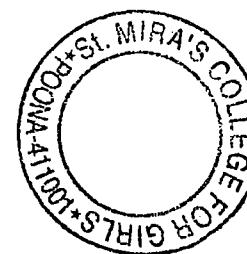
- Introduce upcoming trends in Information technology
- Study Eco friendly software development concepts
- Generalize the fundamental concepts of Artificial Intelligence
- Evaluate the performance of various data mining task
- Recognize and identify Data analytics using Spark Programming

Software Testing

- Introduce to testing tools.
- Gain knowledge in Software testing techniques.
- Design test case plan for testing software.
- Acquire knowledge of basic QA.

Advance Java

- Relate and gain knowledge of JDBC architecture.
- Analyze servlet and JSP to solve the complete problems.
- Illustrate concepts of Multithreading and Socket programming.
- Develop applications in Spring and hibernate.




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Dot Net Framework

- Use the features of Dot Net Framework along with the features of VB, C# and ASP
- Design and develop window based and web based .NET applications
- Design and develop a Website
- Design and Implement database connectivity using ADO.NET for VB, C# and ASP

Project

- Improve innovation, creative and design thinking among student community
- Apply computer technologies in various situations by learning requirement analysis and interaction with real clients.
- Acquire knowledge, remember and apply various aspects of SDLC through practical orientation.

Computer Laboratory based on Advance Java and Dot Net Framework

- Identify the concepts of JDBC programming
- Illustrate the concepts of Servlet and JSP
- Demonstrate the concepts of Multithreading and socket programming
- Develop the applications of Spring and Hypernet
- Design and develop window based and web based .NET applications.
- Design and Implement database connectivity using ADO.NET for VB, C# and ASP.




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Programme: BCOM
FYBCOM

A. Compulsory English

SEM I

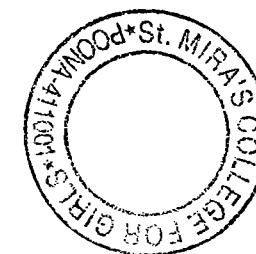
At the end of this course, the learner will be able to:

- create their own stories
- critically and sensitively evaluate social issues like norms, conforming, peer pressure, body image, gender, myths and freedom
- understand various literary texts, their various genres, techniques and what goes into creating a work of art
- analyse various texts for their themes, subtexts, to read the grain as well as against the grain of the text
- recall rules of English grammar and vocabulary along with their applications in daily communication
- develop an ability/skill of thinking, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers

SEM II

At the end of this course, the learner will be able to:

- create their own dialogues using characters from literary texts to exercise creativity
- critically and sensitively evaluate issues like the environment, empathy, women as heroes, discrimination, illnesses
- understand various literary texts, their various genres, techniques and what goes into creating a work of art
- apply their mind to researching and writing autobiographies
- analyse various texts for their themes, subtexts, to read the grain as well as against the grain of the text
- recall rules of English grammar and vocabulary along with their applications in daily communication
- develop an ability/skill of thinking, writing creatively and interviewing whether it be for fiction, letters, analytical essays or answers.




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B. Financial Accounting

SEM I

At the end of this course, the learner will be able to:

- Identify the significance of accounting concepts and principles
- Evaluate the impact of distinct accounting principles and concepts on the company fundamentals
- Apply the procedure of priority of payments on Dissolution of Partnership firms
- Prepare Royalty Account, Joint Venture Account and Statement showing Piecemeal distribution of Cash on Dissolution of partnership firms
- Apply knowledge of Excel and PowerPoint in problem solving activity

SEM II

At the end of this course, the learner will be able to:

- Apply computerized accounting software package in creating a company, grouping and generating accounting reports
- Solve Accounting problems relating to Hire Purchase
- Differentiate between Profit and Not for Profit Organizations
- Prepare Final Accounts of Not for profit Organizations
- Describe the need and significance of Accounting Standards

C. Managerial Economics

SEM I

At the end of this course, the learner will be able to:

- Ability to describe and examine the field of Managerial Economics and relate the same to managerial functions
- Ability to explain and assess the various factors influencing Economic Environment of Business
- Relate, explain and examine the concepts in Demand, Elasticity and Forecasting and infer the implications of the concepts
- Ability to examine and identify the methods of Demand Forecasting and its applications in real-life situations
- Ability to explain and relate to the various theoretical concepts in Production and apply the same to practical situations




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SEM II

At the end of this course, the learner will be able to:

- Ability to relate and examine the theoretical concept of cost and its application in real-life situations
- Examine, assess and justify the method of pricing policy and infer the implications in real-life situations
- Ability to compare and contrast various market structures and its working with examples
- Ability to explain and demonstrate the working of markets in price and output determination processes
- Ability to examine and assess to the economic policy failures and implications on managerial decision-making

D. Business Economics

SEM I

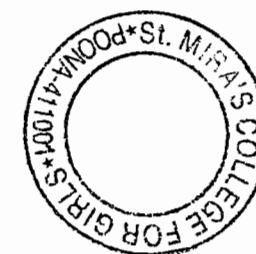
At the end of this course, the learner will be able to:

- consumer's equilibrium, concept of elasticity, production function, etc.
- Develop clarity on microeconomic concepts of significance in business decision-making like demand and supply;
- Apply linkages between the theory and real-life business environment;
- Develop analytical and interpretational skills necessary for business decision-making;
- Develop an awareness and sensitivity to social implications of business decision-making.

SEM II

At the end of this course, the learner will be able to:

- Develop an ability to acquire an in-depth theoretical knowledge of Market Structures and Factors of Production [micro concepts];
- Develop clarity on microeconomic concepts of significance in understanding market dynamics;
- Apply linkages between theory of pricing and real-life pricing practices;
- Develop analytical and interpretational skills necessary for business decision-making;
- Develop an awareness and sensitivity to social implications of business decision-making.




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E. Business Mathematics and Statistics

SEM I

At the end of this course, the learner will be able to:

- Ability to relate to basic concepts in Finance and Mathematics like Interest, dividends etc. and Interpret data intelligently through numerical means.
- Ability to see applications of Mathematical concepts like derivatives in Business.
- Enhancing the decision-making capacity pertaining to investments, interests, purchasing, comparisons, time value of money, loans, installment plans etc.
- Implementing elementary statistical methods like condensation and representation of data and for analysis of data.
- Calculating various types of averages and variation.

SEM II

At the end of this course, the learner will be able to:

- Ability to relate basic knowledge of Mathematical & Statistical concepts like counting principles to Business.
- Ability to calculate various measures of dispersion like standard deviation, coefficient of variation and relate them to real life situations.
- Ability to carry out inter-disciplinary projects by using Mathematical concepts like Correlation between two variables and regression for prediction.
- Ability to interpret data related to attributes intelligently through numerical means and see its applications.
- Ability to solve the real-life problems like transportation problems using Mathematical methods and techniques such as substitution, elimination, simplification, approximation, maximization and minimization etc.

F. Marketing and Salesmanship

SEM I

At the end of this course, the learner will be able to:

- Relate to the core concepts of marketing and role played by it in society
- Utilize information of a firm's external and internal marketing environment to identify and prioritize appropriate marketing strategies
- Identify the role of marketing as a fundamental organizational policy process
- Demonstrate and analyzing the marketing mix decisions of a business firm
- Infer the importance of marketing research for effective marketing planning and conduct a small survey
- Identify and explore the changing trends in the field of Marketing



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SEM II

At the end of this course, the learner will be able to:

- Relate and classify the concepts of salesmanship, personal selling and sales management
- Demonstrate and identify the role of the salesperson in today's marketplace and the significance of building partnerships
- Recognize and make use of different elements involved in a successful sales presentation
- Identifying sales presentation skills and using the principles and practices of professional sales consultants.
- Identify and explore the changing trends in the field of sales management

G. Consumer Protection and Business Ethics

SEM I

Learner would be able to:

- Describe their role as Consumers and identify how Voluntary Consumer Organisations can help them
- Relate the problems of consumers to their day to day life
- Use the knowledge obtained in developing better Buymanship qualities
- Apply the knowledge of Consumer Protection in obtaining redressal for their grievances

SEM II

Learner would be able to:

- Relate the significance of ethics and ethical issues faced by the Society
- Identify and analyse the ethical and unethical practices in Production, Finance & HRM
- Relate the unethical practices in marketing & demonstrate better Buymanship qualities
- Apply the skills of safeguarding the data & privacy to their personal life
- Illustrate the role of Whistleblowing & Right to Information in disclosing the unethical practices.



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Banking and Finance

SEM I

At the end of this course, the learner will be able to:

- Compare and contrast the different types of banks on the basis of their roles and their significance in capital formation
- Recognize the rationale for different operational policies like KYC, nomination, introduction guidelines while opening bank accounts
- Evaluate estate planning in the context of provisions relating to Nomination of bank deposits
- Calculating interest on different types of earning deposits and on loans, essential for budgeting, investment planning and debt management
- Outline the product expansion strategies of the banking industry aimed at consumer orientation

SEM II

At the end of this course, the learner will be able to:

- Recognise the significance of Balance Sheet of a Bank to stakeholders to infer financial position through principles of lending and investments
- Evaluate the legal position of different types of bank customers for effective banking operations
- Compare and contrast the distinct negotiable instruments in commercial transactions
- Identify the import of technology in banking for speedy remittances essential for reducing float and enhancing liquidity
- Appreciate sustainability, healthy lending, customer retention and customer safety practices followed by banks

H. Business Entrepreneurship

SEM I

At the end of this course, the learner will be able to:

- Discuss the concept, evolution and growth of Entrepreneurship
- Identify and relate the qualities, functions and the challenges of an Entrepreneur
- Compare the traditional and modern Theories of Entrepreneurship
- Elaborate the importance and impact of developing an Entrepreneurial Mindset



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SEM II

At the end of this course, the learner will be able to:

- Recognize and describe the concept of Rural Entrepreneurship and its relevance today
- Identify the relationship between Self-Help Groups and women empowerment
- Explain concepts of corporate entrepreneurship and social entrepreneurship and its role in society
- Elaborate the emergence and roles of Online Entrepreneurship

I. Business Administration

SEM I

Learner would be able to:

- Identify and explain the concepts of business, its role and responsibilities
- Describe the process of starting a business and give examples of various forms of Business Organisations
- Recognize various elements of Business Environment and analyse how they impact each other
- Demonstrate knowledge acquired in developing sensitivity towards the Society and Environment
- Summarize the methods of Forecasting, techniques of Business Control and components of Database Management.

SEM II

Learner would be able to:

- Describe the factors, importance and measures to boost Productivity
- Analyse the causes and impact of Sick Business Units with recent examples
- Identify and recall the examples of the Global Business Formats
- Relate the concepts of Artificial Intelligence, Machine Learning and Deep Learning
- Summarize the role of Artificial Intelligence in gaining competitive advantage



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J. Advanced IT

SEM I

At the end of this course, the learner will be able to:

- List different types of operating system, software, viruses and antivirus.
- Illustrate the use of MS WORD, MS ACCESS
- Demonstrate knowledge in setting up a computerized subsidiary book using Tally
- Construct financial statements and maintain data in Tally
- Recognize different types of Networks and Computer Applications in Commerce.
- Describe the basic HTML 5 tags and employ the same to construct web page.

SEM II

At the end of this course, the learner will be able to:

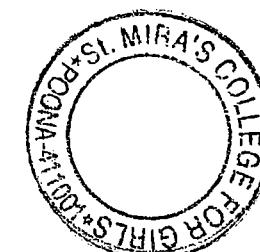
- Demonstrate simple graphics and the use of CSS in HTML.
- Construct webpages and illustrate advanced html tags and input elements.
- Design and demonstrate effective presentations using MS Power point.
- Apply the formulae, graphs, functions in MS EXCEL
- Demonstrate the application of Taxes on business transactions using Tally.
- Explain E-Commerce, M-commerce, EPS system

K. Hindi

SEM I

At the end of this course, the learner will be able to:

- हिंदीकथासाहित्यकेप्रतिरूपिनिर्माणकरना।
- महिलाकहानीकारउषाप्रियंवदाकेकथासाहित्यसेपरिचितकरना।
- मध्यकालीनएवंआधुनिकहिंदीकवितथाउनकीरचनाओंसेपरिचय।
- प्रयोजनमूलकहिंदीकेचयनितप्रमुखक्षेत्रोंकाज्ञानअर्जितकरना।




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SEM II

At the end of this course, the learner will be able to:

- हिंदीमहिलाकथालेखनमेंचित्रितनारीअस्मिताएवंसंघर्षकविभिन्नपहलुओंकाअध्ययन।
- हिंदीकवितथाउनकेकाव्यकारसास्वादनकरतेहुएआध्यात्मिकमूल्योंकाविकास।
- प्रयोजनमूलकहिंदीकेचयनितप्रमुखक्षेत्रोंकेव्यावसायिकस्वरूपकाअवलोकनकरना।

L. Marathi

SEM I

At the end of this course, the learner will be able to:

- विद्यार्थ्यमध्येकाव्यआकलनवपद्यरचनाकौशल्यविकसितझाले.
- विद्यार्थ्यमध्येकवितेचेरसग्रहणआणिअभिवाचनहीकौशल्यविकसितझाली.
- विद्यार्थ्यनाभाषांतराचेकौशल्यप्राप्तझाले.
- विद्यार्थ्यनाजाहिरातलेखनाचेकौशल्य प्राप्तझाले.

SEM II

At the end of this course, the learner will be able to:

- विद्यार्थ्यना विविधसाहित्यप्रकारांचापरिचयझाला.
- विद्यार्थ्यनामुलाखतीचेतंत्र अवगत झाले.
- विद्यार्थ्यनाअहवाललेखनाचेतंत्रज्ञातझाले.
- विद्यार्थ्यनावाणिज्यक्षेत्रामधीलविविधपारिभाषिकसंज्ञातझाल्या.

M. Optional English

SEM I

At the end of this course, the learner will be able to:

- analyse and evaluate global literature through the study of texts from different parts of the world



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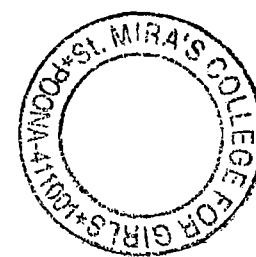
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- assess the contexts in which literary texts are written (e.g., cultural, historical, social, political, economic)
- distinguish the genre specifications of poetry, prose and drama
- recognise and restate the fundamental features and formal elements of literary texts such as plot, character, setting, conflict, atmosphere, style, theme, figurative language, imagery, prosody, point of view, tone, irony
- examine pressing social issues centred around conforming, resisting, peer pressure, bullying, body image, gender, stereotypes, myths and freedom
- express awareness of different values, beliefs; overcoming biases express deep and heightened sensitivity to the human experience

SEM II

At the end of this course, the learner will be able to:

- analyze and evaluate play texts in relation to dramatic theory and historical context (e.g., comedy, tragedy, act, scene, line, stage directions, soliloquy, playwright)
- distinguish the genre specifications of poetry, prose and drama
- recognise and restate the fundamental features and formal elements of literary texts such as plot, character, setting, conflict, atmosphere, style, theme, figurative language, imagery, prosody, point of view, tone, irony
- examine pressing social issues centred around the environment, empathy, women as heroes, discrimination, persecution
- express awareness of different values, beliefs thus overcoming biases.



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SYBCOM

A. Business Management

SEM III

At the end of this course, the learner will be able to:

- Relate to the characteristics and importance of Management
- Identify and assess the role of managers
- Demonstrate basic managerial skills and abilities
- Identify the various perspectives of Developments in Management
- Identify and evaluate the role of Indian Ethos in managerial practices
- Relate to the core concepts of the Functions of Management
- Appraise the Trends in Management practices

SEM IV

At the end of this course, the learner will be able to:

- Relate to the core concepts of Event Management
- Identify and assess the role of Event managers
- Demonstrate skills for Event designing
- Identify the key elements of Event Management
- Relate the core concepts of Event marketing
- Identify and evaluate the Event execution
- Analyse the Event evaluation process
- Understand the concept of Disaster management during events

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B. Accountancy

SEM III

At the end of this course, the learner will be able to:

- Explain the disclosure requirements specified in Ind AS while preparing Financial Statements
- Identify the difference in the new format and old format of the Balance Sheet and Profit and Loss statement
- Prepare Profit and Loss statement and Balance Sheet of a Company as per the requirements of Schedule III of the Companies Act, 2013
- Prepare Statement showing Profits Prior to and Post Incorporation
- Compute the value of shares by applying different methods of valuation
- Apply the provisions of Companies Act, 2013 regarding employee's stock option schemes and compute them in the books of accounts

SEM IV

At the end of this course, the learner will be able to:

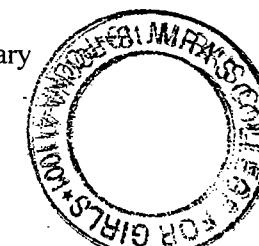
- Explain the ethical and legal responsibilities of a forensic accountant
- Recognize different provisions related to Liquidation of companies
- Apply the provisions of Companies Act, 2013 regarding preparation of accounts of Holding company with one subsidiary
- Prepare consolidated financial statements and amalgamated financial Statements
- Examine and critically evaluate legal provisions relating to corporate restructuring

C. Macroeconomics

SEM III

At the end of this course, the learner will be able to:

- Relate and describe the macroeconomic variable and macroeconomic policy
- Recognize and demonstrate concepts relating to National Income, Consumption Function, Savings Function and Keynesian Multiplier along with numerical illustrations
- Explain and analyze the concept of Aggregate Demand and Underemployment Equilibrium and interpret real-life situations
- Apply and analyze the macroeconomic policy in real-life situations




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SEM IV

At the end of this course, the learner will be able to:

- Explain the theoretical framework relating to the Demand for and Supply of money and its implications in real-life situations
- Relate to and describe the Inflation and Deflation and the phenomena of trade cycles
- Analyze the macroeconomic policies of Money Supply, Trade Cycles, Value of Money and analyze its implications
- Recognize and interpret the various concepts of public finance and apply in real-life situations- public revenue, public expenditure and public debt, fiscal policy, budget and deficits

D. Business Economics_Macro

SEM III

At the end of this course, the learner will be able to:

- Understand the basic macroeconomic concepts like National Income; Circular Flow
- Understand and apply the graphical and mathematical tools of economic analysis including numerical problem solving
- Understand and compare Theoretical Perspectives on important macroeconomic issues
- Understand and analyse economy wide issues like, income, investment and their interrelationships
- Comprehend the macroeconomic issues like unemployment in the light of their social implications



SEM IV

At the end of this course, the learner will be able to:

- Recognize the basic macroeconomic concepts like Money, Trade Cycles
- Relate and apply the graphical and mathematical tools of economic analysis including numerical problem solving
- Explain and compare the theoretical Perspectives on important macroeconomic issues like Inflation
- Describe and analyse economy wide issues like trade cycles, inflation and the policy measures to tackle these problems
- Comprehend the macroeconomic issues like inflation, taxes, public expenditure etc in the light of their social implications

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E. Corporate Law

SEM III

At the end of this course, the learner will be able to:

- Recall the characteristics of a Company and illustrate the different types of companies
- Recognize the significance of promotion of a company and related documents.
- Interpret the rights of members in a corporate entity
- Recognize the role of key managerial personnel in the management of the company
- Identify and evaluate the role of Corporate Governance in stakeholder protection
- Analyze the provisions of New Companies Act, 2013 with the help of cases and case studies

SEM IV

At the end of this course, the learner will be able to:

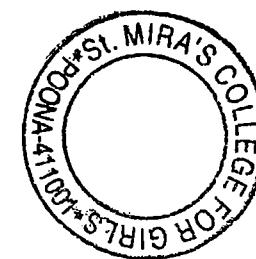
- Demonstrate the types of company meetings and the provisions related to their conduct
- Interpret the significance of Corporate Sustainability
- Evaluate the role of Corporate Social Responsibility in Investor Protection and Sustainability
- Discuss the provisions of Closure of a Company
- Analyze the provisions of the New Companies Act, 2013 with the help of case studies

F. Business Communication

SEM III

At the end of this course, the learner will be able to:

- Relate and describe the core concepts and communication models
- Recognize the importance of working on the channels of Communication
- Express and demonstrate the various types of oral Communication
- Demonstrate the skills of Writing as a requisite for Business Correspondence



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SEM IV

At the end of this course, the learner will be able to:

- Express and practice the listening process in Business Communication
- Identify the importance of etiquettes in Business Communication
- Recognize and practice the requirements of Business Correspondence
- Apply and appraise the changing trends in the field of Business Communication

G. Banking and Finance Paper I

SEM III

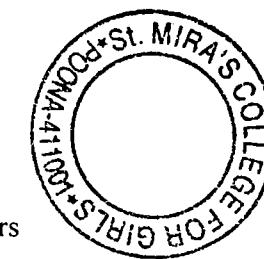
At the end of this course, the learner will be able to:

- Describe the structure of the Indian Banking system
- Explain and analyze the changes in the Indian Banking system from Privatization to Nationalization to Privatization once again
- Describe and analyze the reforms in the Indian Banking system
- Explain and analyze the structural changes in the Indian Banking system in the post-1991 period

SEM IV

At the end of this course, the learner will be able to:

- Examine the changes in mechanism in Customer Service of Banks in India
- Explain and analyze the changes in the Role of Reserve Bank of India and its functions
- Describe and analyze the challenges to the Indian banking system with reference to Bank Failures and Bank Mergers
- Explain and analyze the importance of Financial Inclusion and Financial Education




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H. Business Administration-I

SEM III

At the end of this course, the learner will be able to:

- Describe the concepts, functions and practices of Human Resource Management
- Identify and apply the knowledge of Human Resource Management while applying for jobs and appearing for interviews
- Appraise the role of trends in Human Resource Management Ability to identify and analyse the challenges of Human Resource Management.

SEM IV

At the end of this course, the learner will be able to:

- Describe the concepts, significance and models of Organisational Behaviour
- Appraise the role of trends in Organisational Behaviour
- Relate to the factors and process of Perception, decision making process with the one's own Perceptual process
- Identify and relate to the knowledge of Personality and Values in developing and presenting the effective Personality Traits
- Apply the knowledge obtained while working in Teams

J. Business Entrepreneurship -1

SEM III

At the end of this course, the learner will be able to:

- Describe the core concepts of the Entrepreneurship ecosystem
- Demonstrate proficiency in creative skills and abilities
- Relate to the objectives and need for Entrepreneurial training
- Identify the various perspectives of Entrepreneurial education and research
- Analyse the problems / challenges in the Startup Ecosystem
- Analyze and evaluate the Government policies on Startup Ecosystem in India



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SEM IV

At the end of this course, the learner will be able to:

- Relate to the growing importance of services sector in National Economy
- Identify and assess the various entrepreneurial opportunities
- Identify the various perspectives of Family Business and Entrepreneurship
- Understand the various Government schemes and initiatives for Women entrepreneurship in India
- Analyse the problems / challenges of Women Entrepreneurs
- Identify and describe the different types of New Age Entrepreneurs

K. Marketing-I

SEM III

At the end of this course, the learner will be able to:

- Relate to the core concepts of advertising
- Understand ethics in advertising
- Identify and evaluate various Media formats that carry Advertising to Audiences
- Identify and explain current advertising techniques and practices carried out via different media
- Design effective communication for various advertising approaches that combine the use of print, online/digital and other multimedia communication
- Appraise creative possibilities and challenge one's own mindset to discover and reframe in new direction

SEM IV

At the end of this course, the learner will be able to:

- Relate to the core concepts of Copywriting
- Identify and analyse a range of creative strategies in advertising
- Create client brief and advertising brief depending on various inputs from client and market
- Comprehend the Strategic Planning, Research and Production activities necessary to create an Advertising Campaign
- Critically evaluate methods to measure the effectiveness of advertising campaign




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- Identify and describe recent trends in advertising
- Appraise creative possibilities and challenge one's own mindset to discover and reframe in new direction

L. Cost and Works Accounting-I

SEM III

At the end of this course, the learner will be able to:

- Recall the Cost Concepts, enlist elements of cost and classify the costs
- Discuss the cost reporting principles for the elements of cost
- Describe the role of a Cost Accountant in an organization
- Apply principles of preparation of Cost Statements, Tenders and Quotations in the contemporary format
- Summarize the material purchase procedure and evaluate the material control technique in various manufacturing organizations

SEM IV

At the end of this course, the learner will be able to:

- Interpret the implication of Stores location and Store's layout on Material Cost
- Differentiate between the stores related records and calculate value of stores items under different methods
- Discuss the cost reporting principles for the element of cost
- Identify and apply concepts in the calculation of Labour Cost
- Explain the significance of Overheads in the cost of manufacturing
- Apply principles of distribution of Overheads

M. Environmental Awareness

SEM III and SEM IV

At the end of this course, the learner will be able to:

- Identify and apply the knowledge, values, attitudes, commitment and skills needed to protect and improve the environment
- Discuss current scenario of environment
- Practice consciousness towards a cleaner and better managed environment




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TYBCOM

A. Mercantile Law

SEM V

At the end of this course, the learner will be able to:

- Recall the concepts relating to relevant Acts
- Apply the provisions relating to relevant Acts
- Discuss the relevance of Alternate Dispute Management mechanisms
- Recognize the significance of gender parity at workplace
- Analyze the provisions of the relevant Acts with the help of Case Laws and Case Studies

SEM VI

At the end of this course, the learner will be able to:

- Recall the concepts relating to relevant Acts
- Apply the provisions relating to relevant Acts
- Compare the different forms of Business Organizations with LLP
- Identify and examine the relevance of Intellectual Property Rights
- Recognize the significance of Cyber Security in the context of E-Commerce
- Analyze the provisions of the relevant Acts with the help of Case Laws and Case studies

B. Accountancy

SEM V

At the end of this course, the learner will be able to:




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- Recognize and explain the basic concepts in Banking Companies, Investment Decisions and Insurance Claim.
- Compute value for profit or loss and closing investment for banking companies and investment accounts.
- Analyze and assess the role of different clauses in ascertaining insurance claims and valuation of investments.
- Evaluate and prepare the financial statements of Banking Company and Investment Accounts.

SEM VI

At the end of this course, the learner will be able to:

- Recognize and explain the basic concepts in Branch accounts, Capital budgeting and Interpretation of financial statements.
- Compute the value of investments for long term capital decisions.
- Analyze and assess the inter and intra firm comparison of financial statements using ratios.
- Evaluate and prepare the Statements required for internal decision making

C. Auditing and Taxation

SEM V

At the end of this course, the learner will be able to:

- Describe the Internal and External Audit process carried on in an organization
- Analyze the Vouching and Verification Process for Cash Book, Assets and liabilities
- Explain the rights, duties, liabilities of a Company Auditor
- Evaluate the Automated Environment of Auditing, Forensic and Tax Audit



SEM VI

At the end of this course, the learner will be able to:

- Apply the various provisions of the Income Tax Act,1961 while computing Gross Total Income and Net Income of an Individual Assessee
- File Income Tax Returns for an Individual Assessee
- Demonstrate competency to seek employment or self-employment in the area of Taxation


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D. Indian and Global Economic Development

SEM V

At the end of this course, the learner will be able to:

- Recognize various contemporary economic challenges before Indian economy.
- Analyse and discuss the issues and challenges related to various sectors of Indian Economy.
- Recognize and critically investigate the social aspects of various economic problems facing India including the problems of unemployment, poverty and inequality
- Evaluate and debate contemporary economic policies

SEM VI

At the end of this course, the learner will be able to:

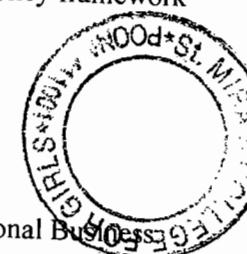
- Understand the current developments in the Indian and Global Economy
- Discuss and debate the trade and financial connections between Indian economy and the global economy.
- Understand and evaluate the role and relevance of various global and regional alignments and groupings.
- Demonstrate sensitivity towards the issues of environmental crisis and sustainable development and labour migration evaluate the policy framework pertaining to environment, foreign trade and foreign investment in India.

E. International Economics

SEM V

At the end of this course, the learner will be able to:

- Describe the nature and scope of International Economics. [Pre-course reading]
- Illustrate and explain the theoretical framework of International Trade as well as recall and relate to the different aspects of International Business
- Comprehend the concepts of Gains from Trade and Terms of Trade
- Analyze the merits and demerits of outward and inward looking commercial policies relating to international trade.
- Evaluate the efficacy of regional cooperation amongst trading blocs.




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SEM VI

At the end of this course, the learner will be able to:

- Identify and explain the components, types and causes of disequilibrium of a country's Balance of Payments (including India)
- Present a conceptual overview of and explain the theoretical foundation of the foreign exchange market and discuss India's Foreign Exchange Rate Policy.
- Describe the types and reasons for International Factor Movements, discuss the Role of Emerging Economies in the Global Context and analyze India's Foreign Trade Policy as an Emerging Economy since 1991
- Describe the International Framework for Trade, Monetary Cooperation and the Environment and evaluate the Role of the World Bank, IMF and the WTO in achieving the SDGs (2015-2030]

F. Banking and Finance Paper II

SEM V

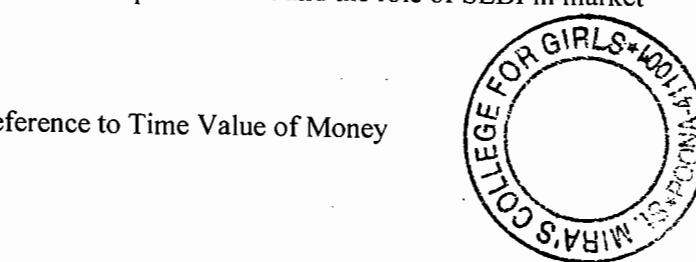
At the end of this course, the learner will be able to:

- Underline the significance of the different constituents of the Financial System in economic development
- Discuss the reforms in the Indian Money Market in terms of new Instruments and Institutions
- Recognise the important segments and analyse the challenges and reforms introduced in the Indian Capital Market and the role of SEBI in market regulation and investor protection
- Compare and contrast the method for calculation of SENSEX and NIFTY
- Explain and illustrate the functioning of the Foreign Exchange Market
- Appraise the Risk and Return in the Financial Markets and examine its significance with reference to Time Value of Money

SEM VI

At the end of this course, the learner will be able to:

- Recognize the different types of Financial Services and their significance
- Compare and contrast the different Life and General Insurance policies and the concepts needed to arrive at a need-based choice for buying decision



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- Appraise the different types of Mutual Fund schemes on the basis of risk-return trade-off to arrive at a need-based choice of investments
- Discuss and interpret the role of Credit Rating Agencies and Merchant Bankers in Investor protection and Issue Management
- Demonstrate the significance of Personal Financial Planning in formulation of a Personal Financial Plan essential for financial well-being

G, Banking & Finance Paper III

SEM V

At the end of this course, the learner will be able to:

- Explain and illustrate the concept, types and parties of Negotiable Instruments and analyze the effect of the process of Negotiation on various parties.
- Interpret the provisions of the Banking Regulation Act, its amendments and examine the effect of the provisions on the banking system.
- Interpret and examine the duties and responsibilities of the Bank in the roles of Paying Banker and Collecting Banker.
- Examine the relation between the Banker and its Customer and its implications.
- Describe the concept of Digital Currencies and Blockchain and examine the development of digital currency with respect to India.

SEM VI

At the end of this course, the learner will be able to:

- Describe and analyze the Principles of Lending and the technical aspects of the modes of creating Charge.
- Examine the recent developments in loan recovery measures and its implication on the Banking system in particular and the economy in general.
- Explain and analyze the provisions of the Prevention of Money Laundering Act, 2002 and its impact on the Banking system in particular and the economy in general.
- Explain and analyze the provisions of the Foreign Exchange Management Act, 1999 and its impact on the Banking system in particular and the economy in general.
- Describe the characteristics and the classification of International Banks and relate to the technological developments in International Banking.

H. Cost and Works Accountancy - II

SEM V

At the end of this course, the learner will be able to:




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- Corelate and apply the different methods of Overhead Absorption
- Discuss the significance of Activity Based Costing and Compare it with absorption Costing
- Recognize the significance of Cost Reporting on Overheads
- Identify and analyze the reasons for difference in profits as per Cost and financial records and prepare a reconciliation statement

SEM VI

At the end of this course, the learner will be able to:

- Recognize the different methods of Costing
- Compare the different methods of Costing
- Apply the costing methods to different manufacturing and service industries
- Prepare Cost Statements under different methods of costing

I. Cost and Works Accountancy - III

SEM V

At the end of this course, the learner will be able to:

- Recognize and explain the basic concepts in Marginal Costing and Budgetary Control
- Compute the value of profits or losses for different scenarios using marginal costing techniques
- Analyze and assess the costing information for strategic and operational decision making
- Evaluate and prepare budgets and apply cost control through Total Quality Management

SEM VI

At the end of this course, the learner will be able to:

- Recognize and explain the basic concepts in Standard costing, Farm costing and Transfer pricing
- Compute the deviations in cost of production for managerial decision making
- Analyze and assess the notional value for transfer of good in a decentralized organization and to find the bottlenecks in production
- Evaluate and develop plans for strategic cost management in Supply Chain and throughput costing




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J. Business Administration-II

SEM V

At the end of this course, the learner will be able to:

- Ability to identify and explain the concepts of Finance function and trends in Finance and analyse and evaluate the ethical issues in Business Finance
- Ability to elaborate the significance and process of financial planning, capitalisation, capital budgeting and apply it in their personal financial planning
- Ability to classify and explain the structure of Indian Financial System, Financial Markets, Financial Services and Government Schemes available for Entrepreneurs and analyse the functioning of Stock Exchanges
- Ability to relate and apply the knowledge acquired in their financial decision making.

SEM VI

At the end of this course, the learner will be able to:

- Ability to identify and explain the concepts and functions of Production & Operations Management
- Ability to describe the Product, Process and Work Designs
- Ability to appraise the role and process of Purchasing and Material Handling Ability to identify the trends and competitive practices in effective Production & Operations Management.

K. Business Entrepreneurship Paper II

SEM V

At the end of this course, the learner will be able to:

- Describe the process of Entrepreneurship
- Demonstrate proficiency in Ideation skills and abilities
- Relate to the need & importance of Business plan preparation
- Describe the legal aspects of Startups
- Explain & analyze the Revenue models & good network practices



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SEM VI

At the end of this course, the learner will be able to:

- Examine the different sources of funding for startups
- Relate to the need & importance of Social Media marketing
- Demonstrate proficiency in the Art of Pitching
- Describe the role of support institutions and Government
- Explain & analyze the Entrepreneurial growth strategies

L. Marketing - II

SEM V

At the end of this course, the learner will be able to:

- Demonstrate an extended understanding of the similarities and differences in service-based and physical product-based marketing activities
- Understand the key concepts and principles of services marketing
- Elaborate the extended marketing mix for services
- Explain how the unique characteristics of service products impact on design and execution of marketing strategies for services
- Understand how different elements of the services marketing mix can be used to address a range of marketing issues facing services organisations
- Infer current research trends in services marketing and execute a field study as part of a team and employ effective group work strategies in a problem-solving environment.

SEM VI

At the end of this course, the learner will be able to:

- Demonstrate an extended understanding of the similarities and differences in service-based and physical product-based marketing activities
- Elaborate the extended marketing mix for services
- Demonstrate integrative knowledge of marketing issues as well as tools and models associated with service productivity, perceived quality, customer satisfaction and loyalty




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- Apply relevant services marketing theory, research and analysis skills to contemporary trends and practices and communicate outcomes employing professional discourse and formats.

M. Business Administration -III

SEM V

At the end of this course, the learner will be able to:

- Critically evaluate the key analytical frameworks and tools used in marketing
- Critically evaluate a marketing program from consumer and marketing practitioner viewpoints, including consideration of ethical implication
- Collect, process, and analyze consumer and market data to make informed decisions.
- Demonstrate knowledge of the individual components of a marketing mix
- Identify the organisational processes involved in the planning, implementation and control of marketing activities
- Develop a market research plan and conduct basic research using primary and secondary sources.

SEM VI

At the end of this course, the learner will be able to:

- Infer the fundamental theoretical ideas and logic of research.
- Choose methods appropriate to research aims and objectives
- Understand the basic framework of research process.
- Demonstrate knowledge of various research designs and techniques.
- Appraise and practice various quantitative and qualitative research methods

N. Business Entrepreneurship III

SEM V

At the end of this course, the learner will be able to:

- Describe the concepts, significance of Organisational Behaviour




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- Appraise the role of trends in Organisational Behaviour
- Identify and relate to the knowledge of Attitudes and Personality in developing and presenting the effective Personality Traits
- Relate to the perceptual process & the factors affecting social perception
- Apply the knowledge obtained while working in Teams and managing conflict.

SEM VI

At the end of this course, the learner will be able to:

- Infer the fundamental theoretical ideas and logic of research.
- Choose methods appropriate to research aims and objectives
- Understand the basic framework of research process.
- Demonstrate knowledge of various research designs and techniques.
- Appraise and practice various quantitative and qualitative research methods

O. Marketing Management-III

SEM V

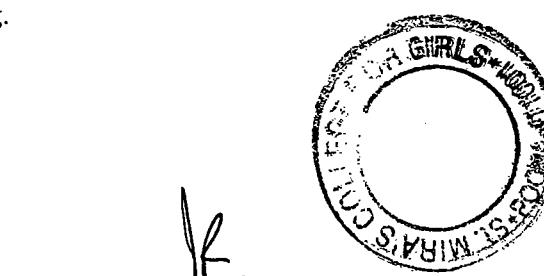
At the end of this course, the learner will be able to:

- Describe the concepts, functions and practices of Retailing, process of Retail Organisation and Supply Chain and Relationships in Retailing
- Analyse and evaluate the practices in Online Retailing, Retail Atmospherics and Technology and apply it for a better shopping experience
- Identify and apply the knowledge of Human Resource Management while applying for jobs and appearing for interviews
- Identify and analyse the challenges of Human Resource Management and Technology in Retailing.

SEM VI

At the end of this course, the learner will be able to:

- Infer the fundamental theoretical ideas and logic of research.
- Choose methods appropriate to research aims and objectives
- Understand the basic framework of research process.
- Demonstrate knowledge of various research designs and techniques.
- Appraise and practice various quantitative and qualitative research methods



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**BSC- COMPUTER SCIENCE- COURSE OUTCOMES
FY BSC- COMPUTER SCIENCE**

Semester I:

Problem Solving Using Computers and 'C' Programming(BS12001)

- Know and understand the foundation of computing, programming and problem- solving using computers.
- Illustrate the ability to analyse a problem and devise an algorithm to solve it.
- Write an algorithm, and flowcharts for arithmetic and logical problems
- Recognize structured programming approach.
- Apply the basic concepts and terminology of programming in general.
- Describe the algorithms using the 'C' language, debug and execute programs.

Database Management System (BS12002)

- Interpret the fundamental concepts of DBMS (PL/MySQL)
- Develop an ability to understand database management operations
- Create an E-R Model for given requirements and convert the same into relational model.
- Analyse the raw data and design data dependencies.

Discrete Mathematics (BS12003)

- Demonstrate the skills of mathematical reasoning: Deduction, Proof and Recursive Thinking.
- Write an argument using logical notation and determine if the argument is or is not valid.
- Prove mathematical theorems using the Principles of Mathematical Induction.



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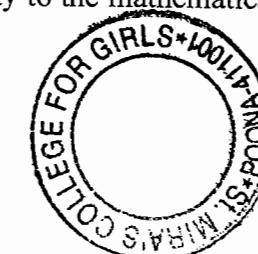
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- Construct a solid foundation in some of the new and different branches of Mathematics like Logic, Set Theory and Lattices.
- Distinguish among various counting principles and apply them accordingly.
- Determine properties of relations, identify equivalence and partial order relations, sketch relations.
- Know the wide nature of the subject through various mathematical skills and techniques and apply them in different disciplines.
- Inculcate a positive attitude towards Mathematics and enjoy triumph of solving interesting problems from different areas of the subject.

Calculus and Number Theory(BS12004)

- Ability to describe various relations in Number theory.
- Ability to explain the notion of continuity as related to functions and to relate an intuitive notion of continuity to the mathematical definition of continuity.
- Ability to compare and contrast the ideas of continuity and differentiability.
- Ability to distinguish between linear, nonlinear, partial and ordinary differential equations.
- Ability to identify areas in mathematics and other fields where Calculus is useful.
- Habit to work effectively with others to complete homework and class assignments.



Descriptive Statistics(BS12005)

- Organize, manage and present data. Analyse statistical data graphically using frequency distributions and cumulative frequency distributions.
- Calculate and apply measures of central tendency for grouped and ungrouped data. Represent mode, median, quartiles graphically.
- Calculate and apply measures of dispersion for grouped and ungrouped data.
- Analyse statistical data using measures of central tendency, dispersion.
- Calculate and apply measures of skewness and kurtosis. Analyse natures of skewness and kurtosis using graphs.
- Apply Likert scale, classification, relationship among different class frequencies (up to two attributes), calculate coefficient of association and interpret.

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Mathematical Statistics:(BS12006)

- Understand and apply methods of Counting Principles, Permutation, and Combination to real life situations.
- Understand concepts of experiments, sample space, events to be applied further in the calculation of probabilities.
- Use the basic probability rules, including additive and multiplicative laws, using the terms, independent and mutually exclusive events.
- Translate real-world problems into probability models.
- Understand and calculate conditional probabilities of random variables.
- Understand and apply discrete and continuous probability distributions to various real-life problems.

Electronics-I- Semiconductor Devices and Basic Electronic Systems(BS12007)

- Understand the basic knowledge of semiconductor devices and their working through characteristics.
- Differentiate between different types of rectifiers, Understand the concept of filter identify different voltage regulator circuits.
- Describe working about BJT and its I-V Characteristics and compare different transistor configuration and amplifier
- Differentiate between E-MOSFET and D-MOSFET



Electronics-I Principles of Digital Electronics(BS12008)

- Understand and represent numbers in powers of base and translate one number system to another and solve binary arithmetic problems
- Identify gates, examine and solve Boolean Algebraic expressions for designing digital circuits using K-Maps
- Analyse, design and construct combinational logic circuits.

Practical Course based on (BS12001 and BS12002)

Problem Solving using Computer and 'C' Programming and Database Management System (Subject Code: BSP12009)

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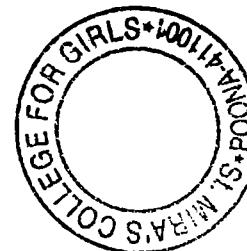
- Understand the program development life cycle.
- Solve simple computational problems using modular design and basic features of the 'C' language.
- Solve real world computational problem.
- Understand basic query processing operations. Design E-R Model for given requirements and convert the same into database tables.

Mathematics Practical (BSP12010)

- Construct a solid foundation in the field of programming handling various mathematical concepts using 'C' Programming.
- Write C- Programs more efficiently with the help of various mathematical problems.

Statistics Practical 1 (BS12011)

- Tabulate and make frequency distribution of the given data.
- Apply various graphical and diagrammatic techniques and interpret.
- compute various measures of central tendency, dispersion, skewness and kurtosis.
- fit the Binomial and Poisson distributions.
- compute the measures of attributes.
- The process of collection of data, its condensation and representation for real life data.
- Study free statistical softwares and use them for data analysis in project.



Electronics Practical (BSP12012)

- Identify and measure different components, measure ac/dc voltages, frequency and amplitude of a signal, relate to the electronic communication between devices, understand the basics of analog and digital electronics,
- Describe the characteristics of semiconductor devices, illustrate applications in voltage regulated power supplies and amplifiers.
- Construct basic combinational circuits and verify their functionalities.


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- Ability to apply knowledge and perform electronics experiments as well as to analyse and interpret data of electronics in computer science.
- Ability to work effectively and responsibly as a team member to perform experiments and presentations.
- Develop skills in scientific writing to make lab reports, activity reports, collecting relevant information.
- Acquire skills in handling scientific instruments, planning and performing Laboratory experiments using modern tools and techniques.
- Ability to communicate effectively in oral and written communication skills

Semester II:

Advanced 'C' Programming (BS22001)

- Construct the code organization with complex data types, structures and preprocessor directives.
- Write programming code for files manipulation.
- Recognize the advanced concepts of programming using the 'C' language.

Relational Database Management System(BS22002)

- Perform database management operations
- Apply the fundamental concepts of RDBMS (PL/PgSQL)
- Analyse the basic issues of transaction processing and concurrency control
- Apply their mind to implement data security.



Graph Theory (BS22003)

- Know about the new branch of mathematics - Graph Theory and its applications which will help to construct a strong foundation in the subject.
- Define graphs, digraphs and trees, and identify their main properties.
- Classify different types of graphs and identify the areas of their applications.


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- Formulate and relate real life situations with different types of graphs and techniques used in Graph Theory.
- Describe and apply some basic algorithms for graphs.
- Demonstrate different traversal methods for trees and graphs.
- Determine the wide nature of the subject through various key concepts in Graph Theory and their real-life applications.

Linear Algebra(BS22004)

- Apply computational techniques and algebraic skills essential for the study of systems of linear equations.
- Set up equations based on real life situations and solve system of linear equations.
- Describe r^2 and r^3 spaces, as well as conceptually extend these results to higher dimensions.
- Explain the concept/theory in linear algebra.
- Apply computational techniques and algebraic skills essential for the study of eigenvalues and eigenvectors, orthogonality and diagonalization. (computational and algebraic skills).
- Recognize the basic applications of the chosen topics and their importance in the modern science and search engines.
- Provide insight into the applicability of Linear algebra.

Methods of Applied Statistics (BS22005)

- Calculate and interpret the correlation between two variables.
- Represent graphically and calculate the simple linear regression and non-linear regression equations for a set of data. Interpret the results of bivariate regression and correlation analysis, for forecasting.
- Calculate multivariate regression for three variables. Interpret the results of multivariate regression for forecasting.
- Analyse the trend in time series and how to remove it.

Continuous Probability Distributions and Testing of Hypothesis(BS22006)



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- Apply the knowledge of standard continuous probability distributions to solve real life problems by calculating probabilities.
- Apply the concepts and definitions related to testing of hypothesis.
- Perform Test of Hypothesis for a population parameter for single sample and two sample cases. Understand the concept of p-values.
- Ability to generate model sample from given distributions.
- Apply concepts of hypothesis testing, parametric and non-parametric tests in research methodology at higher level studies and applications.

Enhance Visualization Skills -Electronics-I Instrumentation System (BS22007)

- Define different OPAMP parameters, comparison of ideal and practical parameters. Identify and discuss OPAMP Applications
- Classify different types of ADC and DAC, conversion of digital to analog and vice-versa
- Explain working principle of sensors and transducers, their classification, Identify and apply the knowledge of sensors in smart instrumentation system

Electronics-II (BS22008)Basics of Computer Organization

- Analyse, design and implement a sequential logic circuit.
- Classify different semiconductor memories, recognize the principal memory technologies from a hierarchical view point with emphasis on cache memory.
- Identify and explain different parts of CPU and I/O devices, Organize them according to their functions.

Advanced 'C' Programming and Relational Database Management System (BSP22009)

- Construct the code organization with complex data types, structures and pre-processor directives.
- Write programming code for files manipulation.
- Recognize the advanced concepts of programming using the 'C' language.




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Mathematics Practical(BSP22010)

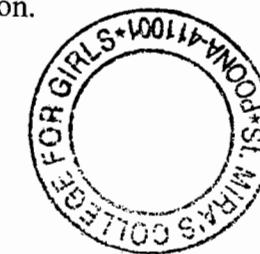
- Demonstrate skills of programming handling the mathematical concepts using a new mathematical software Maxima and 'C' Programming.
- Develop C- Programs more efficiently with the help of arrays in 'C'.
- Learn new Mathematical Software MAXIMA.
- Applying commands in MAXIMA verify all theoretical concepts learned in class.

Statistics Practical 2 (BSP22011)

- Analyse the relationship between two variables using scatter plot.
- Compute coefficient of correlation, coefficient of regression.
- Apply and Fit various regression models and to find best fit.
- Apply and Fit the Normal distribution.
- Perform Test of Hypothesis for a population parameter for single sample and two sample cases. Understand the concept of p-values
- Analyse the trend in time series and how to remove it.
- Generate model sample from given distributions.
- Explain the importance and functions of different statistical organizations in the development of nation.
- Report writing on application of some statistical technique in the field of computers.

Electronics Practical(BSP22012)

- Arrange, assemble and design a working model using simulation software like PSPICE/Circuit Mod
- Demonstrate the application of OPAMP, ADC and DAC and its applications
- Experiment and understand different sensors
- Apply the design procedures to design basic sequential circuits.
- Explain the working of RAM, ROM, Identify different parts of computer hardware like Motherboard, Hard disk, CDROM
- Develop skills in scientific writing to make lab reports, project reports, collecting relevant information.




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- Acquire skills in handling scientific instruments, planning and performing Laboratory experiments using modern tools and techniques.

SY BSC- COMPUTER SCIENCE

Semester III

Data Structures and Algorithms-I

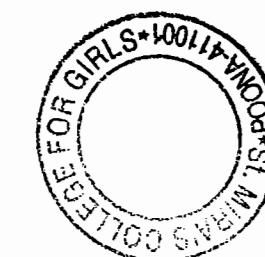
- Explain basic SW engineering methods and practices, and their appropriate application
- Illustrate data models, object models, context models and behavioral models.
- Compare and choose a process model for a software project development.
- Decide the Software Requirement Specification, Design document, Project plan of a given software system.

Mathematics

- Relate and describe the basic algebraic structure like Group and its type.
- Solve arithmetic problems in finite groups.
- Apply and analyze the linear block codes for error detection and correction.
- Describe and explain the basics of Cryptography and Network Security.

Numerical Analysis

- Demonstrate understanding of common numerical methods and how these methods are used to obtain solutions of mathematical problems.
- Derive and apply numerical methods to obtain best approximations to the exact solutions of non-linear equations, Linear Systems, Interpolation problems, Integration problems and Ordinary Differential Equations.
- Analyze and evaluate the convergence and accuracy of different numerical methods and thus compare the methods.




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- Equip mathematical modelling abilities, problem solving skills, Selection of appropriate method etc.

Electronics-I

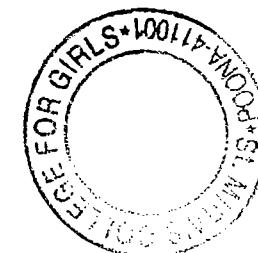
- Summarize the basics of PIC microcontroller architecture
- Make use of instruction set to write programs in Assembly Language and C for arithmetic and code conversions, I/O port programming
- Solve delay problems and illustrate programs for Timers, Serial communication, and relate to Interrupts
- Explain how to interface I/O peripherals to PIC microcontroller and develop programs using C, demonstrate advanced microcontrollers

Electronics-II

- Explain the basic knowledge of the communication system and differentiate between them.
- recognize the need for data coding and error detection/correction mechanisms.
- Recall and identify different modulation techniques.
- Explain multiplexing techniques and comparison between them, to know data link layer protocol: media access control
- Compare and contrast osi and tcp/ip models of networking, identify functions of data link layer and network layer while accessing communication link.
- Apply appropriate and advanced techniques to build the computer network.

English

- Identify and learn to critically appreciate poetry.
- Discover various trends around the globe and movements in socially responsible art.
- Enhance their vocabulary for analysis and evaluation of art.
- Acquire interest in the appreciation of literature.
- Facilitate individualistic, innovative as well as systematic critical thinking in order to have an in depth understanding of life.
- Ensure overall linguistic competence and enrich communication skills of the students.




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Practical on Data Structures and Algorithms I and Software Engineering

- Illustrate different methods of organizing the large amount of data
- Summarize well-organized data structures in solving various problems
- Compare and contrast the usage of various data structures in problem solving
- Demonstrate algorithms to solve problems using appropriate data structures

Electronics of BSc (Computer Science)

- Examine output across different pins of microcontroller-based systems.
- Acquire skills of Embedded C programming and apply the knowledge to interface the circuits with it.
- Design and build his/her own microcontroller-based projects.
- Build multiplexing and modulation techniques useful in developing wireless application
- Build and develop practical skills of network set up.

Mathematics Practical

- Relate and demonstrate the use of built-in data structures "list" and "tuples".
- Compare and apply various control structures in programming.
- Explain the basic concepts of linear algebra in python.
- Practice linear algebra problems using python.
- Apply and analyse concepts of python programming to solve problems based on numerical methods and numerical integration.
- Compare and contrast the rate of convergence of numerical methods using Python Programming.

Semester IV




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Computer Science

- Illustrate different methods of organizing the large amount of data
- Summarize well-organized data structures in solving various problems
- Compare and contrast the usage of various data structures in problem solving
- Demonstrate algorithms to solve problems using appropriate data structures.

Computer Networks-I

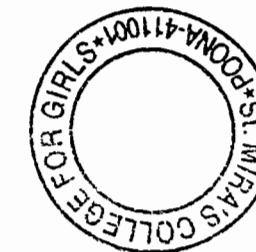
- Describe how computer networks are organized with the concept of layered approach.
- Explain the osi and tcp/ip reference models
- Categorize the working of various protocols.
- Analyze, evaluate and design networks, services and technologies for an organization's LAN and WANs.

Mathematics

- Illustrate the basic structures of 2D and 3D graphics systems, construct and apply composite transformations.
- Explain the core concepts of computer graphics, including projection, perspective, and transformation in two and three dimensions.
- Identify the parallel and perspective projections.
- Develop the points on various curves.

Operations Research

- Develop the skills of mathematical analysis: Formulation, Deduction, Proof and a clear perception of mathematical ideas and tools.
- Illustrate the applications of Operations Research and formulate a linear programming problem and apply appropriate method to solve it.
- Illustrate and analyze the managerial problems in the industry and use the resources (Machines, Materials, Staff etc.) more effectively.
- Build and solve Transportation problem and Assignment problem using suitable method.



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- Compare the initial solutions of Transportation problems obtained by different methods and obtain the optimality of the solution.
- Solve the Sequencing problem by identifying the type of the problem and obtain the optimal sequence.

Electronics – I

- Distinguish between general computing and the Embedded systems.
- Explain the fundamentals of embedded systems.
- Demonstrate the use of single board Computer (Such as Raspberry Pi) for an embedded system application.
- Identify the programming environment to develop embedded systems and their interfaces with peripheral devices.
- Show familiarity with tools used to develop an embedded environment.

Electronics-II

- Explain different wireless communication system and Different techniques used for same
- Identify different types of architecture of short-range Wireless Technologies and design and manage its application
- Recognize and practice the Basics of Internet of Things, upcoming technology
- Apply and demonstrate the applications of IoT

English

- Identify and learn to critically appreciate poetry.
- Discover various trends around the globe and movements in socially responsible art.
- Enhance their vocabulary for analysis and evaluation of art.
- Acquire interest in the appreciation of literature.
- Facilitate individualistic, innovative as well as systematic critical thinking in order to have an in depth understanding of life.
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Computer Science Practical

- Illustrate different methods of organizing the large amount of data
- Summarize well-organized data structures in solving various problems
- Compare and contrast the usage of various data structures in problem solving
- Demonstrate algorithms to solve problems using appropriate data structures

Mathematics Practical

- Illustrate 2D and 3D objects using numpy, matplotlib libraries.
- Illustrate and interpret graphical aspects of two-dimensional and three-dimensional transformation
- Demonstrate the Bezier curve through given points in python.
- Apply Python Programming to solve Linear Programming Problems using graphical method, Simplex method and interpret the solution type.

Electronics of BSc (Computer Science)

- Build and develop own smart applications using Raspberry-Pi and write Python program for simple applications
- Demonstrate different wireless communication techniques.
- Build and implement basic IoT based system

TY BSC Computer Science

Semester V

Operating Systems-I



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- Discuss the underlying structure of the operating system
- Describe the concept of process & threads.
- Apply different process scheduling algorithms and synchronization techniques to
- Achieve better performance of a computer system.
- Apply segmentation and paging techniques for memory management.

Computer Networks-II

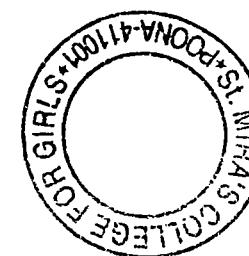
- Illustrate different Application layer protocols
- Explore technical aspects of multimedia system
- Compare and contrast different cryptographic techniques for data security
- Explore different internet security protocols

Web Technologies – I (BS52203)

- Illustrate how to develop dynamic and interactive Web Page
- Explore Core-PHP, Server-Side Scripting Language
- Implement different array and file handling methods for writing programs
- Determine PHP-Database handling concept

Foundations of Data Science (BS52204)

- Apply the fundamental concepts and techniques in data science.
- Discover data from different sources, clean/process, and transform data
- Develop the ability to build and assess data-based models using statistical concepts



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- Show data using various data visualisation tools and techniques.

Object Oriented Programming using Java-I (BS52205)

- Explore fundamental concepts of Object-Oriented Programming
- Develop an ability to learn and implement various java programming concept like Interface, File and Exception Handling etc
- Design user interfaces using Swing and AWT classes

Theoretical Computer Science

- Explain the use of automata during language design.
- Demonstrate Chomsky hierarchy.
- Classify the Regular Language, Context Free Language, Context Sensitive Language and Unrestricted Language.
- Construct the Finite Automata, Pushdown Automata and Turing Machine.

Practical Course Based on Operating system-I

- Implement Process synchronization through simulation
- Implement Processes and Thread Scheduling by operating system using simulation
- Implement Memory management by operating system using with the help of various schemes using simulation

Practical course based on BS52203 and BS52204

- Design dynamic and interactive Web pages.
- Develop program based on Core-PHP, Server Side Scripting Language and PHP-Database handling.
- Apply statistical methods for data pre-processing.
- Apply visualization techniques to represent data for analysis.




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Practical Course Based on BS52205

- Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs
- Analyse and write Java programs that solve real-world problems
- Validate input in a Java program using Exception Handling
- Design graphical user interfaces using Swing and AWT library

Python Programming

- Explain the basic constructs of python programming such as data types, control statements etc.
- Use modules, packages and files in python programs
- Select the methods and data structures like Lists, functions, tuples, dictionaries and Sets in Python programs.
- Develop logic for problem solving.

Blockchain Technology

- Explain how blockchain systems (mainly Bitcoin and Ethereum) work
- Use Ethereum, smart contracts and related technologies, and solidity language
- Design, build, and deploy smart contracts and distributed applications,
- Integrate ideas from blockchain technology into their own projects.

Semester VI

Computer Science paper-I

- Discuss the issue of Deadlocks in Process management and apply different algorithms/techniques to handle the deadlocks.



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- Describe the concept of File system management
- Describe the disk structure and compare various disk scheduling algorithms.
- Analyze the design and functioning of distributed operating systems and mobile operating system

Software Testing

- Classify various software testing methods and strategies
- Interpret a variety of software metrics, and identify defects, and managing those defects for improvement in quality for a given software
- Design test cases and test plans, review reports of testing for qualitative software
- Compare and contrast the latest testing methods used in the software industries.

Web Technologies – II (BS62203)

- Explore different technologies used for client-Side Scripting Language
- Write programs based on XML and XML parsers.
- Create dynamic applications using JavaScript and AJAX.
- Implement web application using PHP framework

Data Analytics (BS62204)

- Apply appropriate analytic techniques and tools to analyze data, create models, and identify insights that can lead to actionable results.
- Develop understanding of key technologies in data analytics.
- Use various data mining patterns to access the data.
- Analyze various sources of text data and explain the text and social media analytics.

Object Oriented Programming using Java-II (BS62205)

- Learn database programming using Java




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- Study web development concept using Servlet and JSP
- Develop multi-core applications using multithreading
- Use Spring Framework to create web applications

Compiler Construction

- Explain the phases of compiler.
- Apply the process of scanning and parsing of source code.
- Use techniques in code generation and code optimization.
- Implement tools like LEX and YACC.
- Design the conversion code written in source language to machine language.

Practical Course Based on Operating system-II

- Implement Banker's algorithm for Deadlocks in Process management.
- Simulate File system management
- Study and implement various algorithms of disk scheduling

Practical Course based on BS62203 and BS62204

- Implement different concepts for client-Side Scripting Language
- Develop dynamic web application with XML and AJAX and PHP framework
- Use various data mining patterns to access the data.
- Analyze various sources of text data and explain the text analytics framework.

Practical Course Based on BS62205

- Use multithreading to write multi core applications



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- Learn database Programming using Java
- Create dynamic web pages using Servlets and JSP.
- Use basics of framework to develop secure web applications

Software Testing Tools

- Learn various software testing methods and strategies
- Interpret a variety of software metrics and identify defects and managing those defects for improvement in quality for given software
- Design test cases and test plans, review reports of testing for qualitative software
- Use latest testing tools used in the software industries

Project

- Use data structures, algorithms and programming languages, and software engineering techniques in their projects.
- Distinguish significant programming projects.
- Analyze and test resulting system's quality for computer software solutions.
- Develop a wide range of skills like communication, teamwork and technical skills.
- Design, construct and deliver a system and meet the stated requirements.



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