MARIAN COLLEGE KUTTIKKANAM

(AUTONOMOUS)

CRITERION II

POs, PSOs & COs

Submitted to

THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)

FOURTH CYCLE OF ASSESSMENT

TABLE OF CONTENTS

PROGRAM OUTCOME

Program Outcomes (PO) are what knowledge, skills and attitudes a graduate should have at the time of graduation.

The following are the Program Outcomes of Marian College, Kuttikkanam (Autonomous).

1) Domain Knowledge

2) Communicative Competence

3) Applying Modern Technologies

4) Reflective Response to Ethical and Social Issues

5) Sustainability Values

6) Critical Thinking and Problem Solving

7) Entrepreneurship

8) Team Work and Leadership

9) Self-Directed and Lifelong Learning

BACHELOR OF BUSINESS ADMINISTRATION

PROGRAMME SPECIFIC OUTCOMES (PSO)

The Bachelor of Business Administration program adheres to the principle of student-centered outcome based education which focuses on measuring student performance, i.e. outcomes. Outcomes include knowledge, skills and attitudes.

The program-specific outcomes of the Bachelor of Business Administration are listed below.

PSO1: Apply basic knowledge of management theories and practices for business decision-making

PSO2: Demonstrate the fundamentals of creating and managing innovation and entrepreneurship.

PSO3: Communicate effectively to all stakeholders of business using technology.

PSO4: Exhibit ability to lead ethically.

COURSE OUTCOMES:

UCE2001: ESSENTIAL ENGLISH FOR UNDERGRADUATES

CO1: Identify the distinct sounds in English words.

CO2: Articulate words and sentences clearly stressing the right syllables.

CO3: Choose the right words while writing/talking about everyday life.

CO4: Write sentences adhering to tense rules.

CO5: Correct common errors such as punctuation and capitalisation.

CO6: Use expressions appropriate for various social occasions.

CO7: Identify the key points in a piece of writing.

UBB2001: PRINCIPLES OF MANAGEMENT

CO1: Identify core concepts of management.

CO2: Describe the history of management thoughts.

CO3: Discuss various functions of management.

CO4: Examine the needs and types of business communication.

CO5: Demonstrate the importance of ethics in business.

UBB2002: MANAGERIAL ECONOMICS

CO1: Understand the elements and their role in a business environment.

CO2: Identify the regulating agencies and policymakers in business environment.

CO3: Be familiar with the concepts and scope of the economic environment of business.

CO4: Apply the knowledge about demand, production and market structure in day-to-day decision-making and during the time of uncertainties.

UBB2003: FUNDAMENTALS OF BUSINESS MATHEMATICS

CO1: Perform different operations on sets. Ability to solve counting problems of sets using Venn diagrams and set theory.

CO2: Potential to classify number system and to solve problems of ratio, proportion, and variation.

CO3: Ability to distinguish between sequences AP, GP, and HP and its some practical applications. To find the general term of a sequence and to compute the sum to n terms.

CO4: Ability to calculate simple interest, compound interest, annuities, and depreciation.

CO5: Capacity to solve problems of permutations and combinations.

CO6: Perform different operations on matrices. Ability to find the solution of a system of linear equations using determinants and matrix inverse method.

UBB2004: FUNDAMENTALS OF BUSINESS STATISTICS

CO1: Identify and demonstrate appropriate sampling and data collection processes.

CO2: Discuss the Collection and presentation of data.

CO3: Calculate measures of central tendency and dispersion.

CO4: Identify the degree and nature of the relationship between two variables.

CO5: Interpret changes in economic phenomena over time.

UBB2005: BUSINESS ACCOUNTING

CO1: Demonstrate the knowledge and role of financial accounting in the business.

CO2: Analyze the concept of the book of original entry and posting of transactions in the ledger, cash book and trial balance; and rectifying the errors.

CO3: Distinguish the meaning and purpose of creating depreciation, provisions and reserves; compute depreciation using different methods.

CO4: Prepare financial statements, manufacturing and trading accounts, profit and loss account and the balance sheet of a firm.

CO5: Evaluate and distinguish between a bill of exchange and a promissory note; record bill of exchange transactions in books of accounts.

UCE2002: ACADEMIC AND PROFESSIONAL ENGLISH

CO1: Identify the elements of good academic writing.

CO2: Select the right vocabulary for an academic essay

CO3: Write effective thesis statements.

CO4: Identify the different strategies employed in shaping an academic essay.

CO5: Write brief book reviews.

CO6: Write CVs and cover letters.

UBB2006: MARKETING MANAGEMENT

CO1: Identify core concepts of marketing and the role of marketing in business and society.

CO2: Compare the core theories of consumer behaviour in both consumer and organisational markets.

CO3: Develop measurable product and pricing objectives and marketing strategies.

CO4: Design effective strategies in promotion and distribution and describe how they would be used in the marketing arena.

CO5: Demonstrate an extended understanding of the similarities and differences in service-based and physical product-based marketing activities.

UBB2007: BUSINESS LAWS

CO1: Analyse the general legal boundaries that define the legal rules of business in India including the general parameters of contract law, issues connected withperformance and discharge of contract.

CO2: Evaluate the fundamental legal principles behind the contract of bailment and pledge.

CO3: Create knowledge regarding the difference between contract of indemnity and guarantee.

CO4: Develop the ability to transpose the analysis of rules related to creation of contracts of agencies and validity of agency contracts.

CO5: Acquire knowledge of law related to sale of goods in India.

UBB2008: MATHEMATICS FOR MANAGEMENT

CO1: Apply distance formula.

CO2: Apply section formula.

CO3: Find the equation of straight lines.

CO4: Distinguish between parallel lines and perpendicular lines.

CO5: Differentiate functions.

CO6: Integrate functions.

CO7: Find the maxima and minima of functions.

CO8: Apply calculus in optimization in economics.

CO9: Study special functions used in commerce and business.

UBB2009: STATISTICS FOR RESEARCH

CO1: Solve mathematical problems of probability using permutation, combination and properties of probabilities.

CO2: Define different probability and non-probability sampling techniques.

CO3: Create an awareness on case studies based on statistical tools.

CO4: Understand the concepts which are useful in report and project evaluation.

CO5: Create an application of testing tools in experiments based on data collection.

UBB2010: ENTREPRENEURSHIP

CO1: Understand key concepts in entrepreneurship and innovation.

CO2: Identify, develop and appraise new business opportunities scientifically.

CO3: Able to solve issues associated with securing and managing financial resources in new and established business.

CO4: Explore initiatives and support mechanisms from the government to do business.

CO5: Respond to ethical, environmental, gender and global issues and responsibilities in entrepreneurship.

UBB2011: INFORMATICS FOR MANAGEMENT

CO1: Summarise the concepts, structure and ethics of managementinformation system.

CO2: Discuss the system design and database management in MIS.

CO3: Learn the basics of spreadsheet.

CO4: Apply formulas and functions in spreadsheet for accounting, statistical and business purposes.

CO5: Use spreadsheet in business reporting which will assist in decision making.

UBB2012: INSURANCE FOR BPS

CO1: Evaluate the concept of risk, fundamentals of insurance and its terminologies.

CO2: Analyse life insurance, its terminologies, annuity, and group insurance.

CO3: Evaluate non-life insurance concepts and its providers.

CO4: Evaluate and differentiate various health insurance mechanisms and its procedures.

CO5: Analyse and differentiate various retirement schemes and its procedures.

UBB2013: CORPORATE LAWS

CO1: Apply the different steps in the process of formation of companies and differentiate the various types of companies.

CO2: Critically analyse the important documents related to the company.

CO3: Evaluate the process of management of the company and assess the validity of company meetings based on the rules for meetings.

CO4: Evaluate and differentiate various modes of winding up of a company.

CO5: Create partnership deed and differentiate partnerships and limited liability partnerships and evaluate.

UBB2014: COST & MANAGEMENT ACCOUNTING

CO1: Evaluate the theoretical underpinnings of cost accounting.

CO2: Apply the different steps in the process of deriving at the cost of producing and evaluate the significance of a cost sheet.

CO3: Apply the knowledge of standard costing and management accounting and its essential roles in business.

CO4: Evaluate the financial statements using different tools leading to decision-making.

CO5: Evaluate and interpret fund flow statement and cash flow statement.

UBB2015: RETAIL & MARKET RESEARCH

CO1: Evaluate the concept of market research, its procedures and FMCG (Fast Moving Consuming Goods).

CO2: Analyse retailing, its forms and strategies.

CO3: Evaluate retail data, research reports.

CO4: Evaluate consumer research methodologies and new product development.

CO5: Analyse and differentiate various panel data and panel research reports.

UBB 2016: BANKING FOR BPS

CO1: Evaluate functions, products and various report generation in banking.

CO2: Evaluate the modalities of retail banking.

CO3: Analyse and differentiate various cards issued by banks and its operational functions.

CO4: Evaluate and differentiate various customer loan mortgages and cash management and payment services.

CO5: Analyse foreign currency handling business and its avenues.

UBB2017: FINANCE & ACCOUNTING FOR BPS

CO1: Evaluate various BPS methodologies and their applications.

CO2: Apply the different steps involved in purchasing and create documents in this regard.

CO3: Evaluate modules and usage of ERPs, and data security standards

CO4: Evaluate and differentiate various accounting practices related to payables, employee payment and vendor account management.

CO5: Analyse and differentiate various accounting practices related to receivables, customer management and dispute handling.

UBB2018: INTELLECTUAL PROPERTY RIGHTS AND INDUSTRIAL LAWS

CO1: Explain the concept of patents and evaluate its importance.

CO2: Differentiate various types of trademarks and explain the procedure for getting protection under trademark law.

CO3: Identify the significance of factories act in the Indian industrial sceneand evaluate the protection given by the Factories Act to the workers.

CO4: Explain the machinery for prevention and settlement of industrial disputes and the protection extended to workers by the Industrial Disputes Act.

CO5: Recognize the significance of the Employees State Insurance Act and explain the extent of protection offered by the Act.

UBB2019: HUMAN RESOURCE MANAGEMENT & INDUSTRIAL RELATIONS

CO1: Demonstrate the basic understanding of various functions, concepts and practices of HRM.

CO2: Design, implement and appraise strategies in recruitment, selection, training, and maintenance of HR.

CO3: Demonstrate conceptual clarity in performance appraisal, wage determination, job evaluation and career planning.

CO4: Identify and analyse the recent trends in HRM and Respond to legal, ethical, gender and global issues in HRM.

CO5: Display basic understanding of the concept in Industrial relations and exhibit negotiation skill.

UBB2020: FINANCIAL MANAGEMENT

CO1: Explain the concept and role of financial management in business management.

CO2: Identify the various sources of finance, and arrive at decisions in this regard for business firms.

CO3: Analyze and evaluate the factors which influence financing decisions of an organization.

CO4: Recognize and appraise the factors which influence capital structure related decision of an organization.

CO5: Interpret different concepts and theories related to dividend distribution in Indian context.

UBB2021: ENVIRONMENTAL STUDIES AND HUMAN RIGHTS

CO1: Students are able to demonstrate a general understanding of the breadth and interdisciplinary nature of environmental issues and they will understand the basic concepts of natural resources.

CO2: Knowledge of the various components of environment and the role of human beings in shaping the environment and critically appreciate the environmental concerns of today.

CO3: To analyze the need of environmental management, business and sustainability, and energy management and also provides knowledge to take environmentally responsible business decisions.

CO4: They develop a plan to counteract the overall impact of a human rights issue, whether local or global, understanding the core concepts.

CO5: They develop empathy and respect for human rights and their application in Indian context.

UBB 2022: CAPITAL MARKETS FOR BPS

CO1: Evaluate the concept and functions of capital markets and financial markets.

CO2: Analyse investment banking and its terminologies.

CO3: Evaluate fund related concepts and its types.

CO4: Analyse risk and its management in capital market's context.

UBB2023: ORGANISATIONAL BEHAVIOUR

CO1: Define organizational behaviour and analyze the growth of organizational behaviour as a field of study.

CO2: Analyze factors such as personality, perception and learning of individuals with a view to regulate employee behavior.

CO3: Apply the knowledge of motivation and motivation theories for enhancing employee performance and develop models for effective group behavior and its implications in workplace.

CO4: Apply knowledge of leadership and leadership theories for identifying the leadership styles of superiors and molding own leadership style.

CO5: Design effective strategies for organizational development, organizational culture and organizational changes and use appropriate strategies for managing employees stress and emotional intelligence.

UBB2024: BUSINESS RESEARCH METHODS

CO1: Discuss and apply different research approaches and methodologies.

CO2: Distil an identified business problem into a succinct research problem (or problems) and articulate this into a comprehensive research brief for investigation by a researchteam locally or internationally.

CO3: Cognize and apply the major types of research designs.

CO4: Construct and document an appropriate research design, including argumentation for data collection and analysis methods/techniques.

CO5: Understand the ethical issues associated with the conduct of research, and be able to formulate and present effective research reports.

UBB 2026: MANAGING BUSINESS PROCESSES

CO1: Evaluate the concept of business process.

CO2: Analyze the concept quality management, quality control and quality assurance.

CO3: Evaluate and differentiate various quality control tools.

CO4: Analyze established quality control tools.

CO5: Analyse and differentiate various operational risk.

UBB2028A: ADVERTISING & BRANDING (ELECTIVE I)

CO1: Identify and respond to clients marketing communications and branding objectives by applying principles of marketing and communications.

CO2: Identify the role account management, research, creative, and the media department play in a full-service advertising agency and the full-time positions available in each.

CO3: Demonstrate skills in creating an Ad. In all forms of media.

CO4: Explore and compare the core theories concepts, and frameworks in brand management.

CO5: Analyze and evaluate the factors which influence brand equity.

UBB2029B: E-COMMERCE (ELECTIVE II)

CO1: Exhibit clarity in concepts, features and models e-commerce.

CO2: Demonstrate awareness in security measures in e-commerce.

CO3: Display basic understanding in electronic payment systems.

CO4: Identify and appraise various applications of e-commerce.

CO5: Show skills and understanding to setup an online business.

UBB2030: PROJECT

CO1: Will demonstrate the ability to make links across different areas of knowledge and to generate, develop and evaluate ideas and information so as to apply these skills to the project task.

CO2: Will acquire the skills to communicate effectively and to present ideas clearly and coherently to specific audience in both the written and oral forms.

Bachelor of Computer Applications

PROGRAMME SPECIFIC OUTCOMES

PSO1: Apply algorithmic principles, computer science theory and practice and mathematical foundations to solve real world problems.

PSO2: Model, design, implement and test software systems with ethical concern.

PSO3: Use new design methodologies, operating systems, languages, and other development tools in software development within reasonable time constraints.

PSO4: Develop effective software applications for mobile, web and cloud environment.

PSO5: Communicate effectively in teams, pertaining to technical collaboration using all modes of communication.

COURSE OUTCOME

UCE2001: ESSENTIAL ENGLISH FOR UNDERGRADUATES

Upon successful completion of this course students should be able to:

CO1: Identify the distinct sounds in English words.

CO2: Choose the right words while writing/talking about everydaylife.

CO3: Write sentences adhering to tense rules.

CO4: Correct common errors such as punctuation and capitalization.

CO5: Use expressions appropriate for various social occasions.

CO6: Identify the key points in a piece of writing.

UBC2001: ALGEBRA AND LOGIC

Upon successful completion of this course students should be able to:

CO1: Write an argument using logical notation and verification ofthe validity of arguments.

CO2: Demonstrate the ability to write a proof or outline the basic structure using different method of proofs.

CO3: Solve system of linear equations using canonical matrix, inverse matrix method and Cramer's rule.

CO4: Compute determinant, characteristic equation, Eigen values and Eigen vectors of a square matrix.

CO5: Determination of solution of homogeneous and non- homogeneous equations using rank.

UBC2002: BASIC STATISTICS

Upon successful completion of this course students should be able to:

CO1: Collect and present data objectively.

CO2: Calculate different measures of central tendency anddispersion.

CO3: Solve problems of permutations and combinations.

CO4: Study different approaches of probability.

CO5: Find the probabilitydistribution function, expectation, variance and moments of random variables.

UBC2003: OPERATING SYSTEMS

Upon successful completion of this course students should be able to:

CO1: Describe the role of operating system in the working of a computer system.

CO2: Analyse the performance of various process scheduling algorithms in process scheduling.

CO3: Appraise the design of various algorithms for process synchronization and deadlock handling.

CO4: Analyze various memory management techniques.

CO5: Appraise issues related to file system interface and file system implementation in a computer system.

UBC2004: OBJECT ORIENTED PROGRAMMING USING C++ (CORE)

Upon successful completion of this course students should be able to:

CO1: Describe Programming Paradigms.

CO2: Define Classes and objects.

CO3: Develop Programs using constructors, destructors, typeconversions.

CO4: Apply inheritance, Polymorphism and Virtual functions in programming.

CO5: Implement pointers, files and streams in C++.

UBC2005: SOFTWARE LAB I

Upon successful completion of this course students should be able to:

CO1: Install windows 10 and its tools.

CO2: Install and configure windows Server.

CO3: Create Class and Objects in C++.

CO4: Implement Different types of Constructors and Memory management operators in C++.

CO5: Implement Inheritance and Polymorphism in C++.

UBC2006: DIGITAL CONTENT DEVELOPMENT

Upon successful completion of this course students should be able to

CO1: Describe the fundamentals of Videography.

CO2: Familiarize the techniques of videography.

CO3: Discuss various video editing softwares.

CO4: Practice the video uploading process

UCE2002: ACADEMIC AND PROFESSIONAL ENGLISH

Upon successful completion of this course students should be able to:

CO1: Identify the elements of good academic writing.

CO2: Select the right vocabulary for an academic essay.

CO3: Write effective thesis statements.

CO4: Identify the different strategies employed in shaping anacademic essay.

CO5: Write brief book reviews.

CO6: Write CVs and cover letters.

UBC2007: DISCRETE MATHEMATICS

Upon successful completion of this course students should be able to:

CO1: Prove basic set equalities using truth table and definitions.

CO2: Determine the properties of relations and functions.

CO3: Solve mathematical problems using permutation, Combinationand Principle of inclusion and exclusion.

CO4: Find minimal spanning tree of a connected graphs.

CO5: Verify the planarity of a given graph.

CO6: Identify shortest paths for connected graphs.

UBC2008: COMPUTER NETWORKS

Upon successful completion of this course students should be able to:

CO1: Explain the terminology and concepts of OSI (Open System Interface) and TCP-IP (Transmission Control Protocol - Internet Protocol) reference models.

CO2: Identify the various multiplexing techniques and routing mechanisms.

CO3: Describe the various IP addressing methods and subnetting.

CO4: Acquire the concept of routing algorithms and congestion control algorithms.

CO5: Monitor the network performance and services.

UBC2009: JAVA PROGRAMMING

Upon successful completion of this course students should be able to:

CO1: Write Java application programs using OOP (Object Oriented Programming) principles and proper program structuring.

CO2: Demonstrates how to achieve reusability using inheritance, interfaces and packages.

CO3: Demonstrate understanding and use of different exception handling mechanisms and multitasking concept in Java Programming.

CO4: Identify and describe common abstract user interface components to design GUI (Graphical User Interface) in Java.

CO5: Implement various utility classes and keywords in Java programming.

UBC2010: DATA STRUCTURES USING C++

Upon successful completion of this course students should be able to:

CO1: Describe the fundamental concepts of static and dynamic datastructures.

CO2: Compare and Contrast different searching and sorting techniques.

CO3: Design operations on linear data structures such as stacks andqueues.

CO4: Implement operations on linked lists.

CO5: Devise programs for operations on trees.

UBC2011: SOFTWARE LAB II

Upon successful completion of this course students should be able to:

CO1: Implement the object oriented programming concepts.

CO2: Implement abstract window toolkit, swings and event handling in java.

CO3: Configure the routing protocols using Cisco packet tracersoftware.

CO4: Develop programs in C++ to implement various sorting and searching methods.

CO5: Implement programs in C++ to solve problems using different data Structures.

UBC2012: DATA ANALYSIS

Upon successful completion of this course students should be able to:

CO1: Illustrate the use of spreadsheet tool in data analysis.

CO2: Apply formulas and functions to manipulate, manage and analyse data using spreadsheet.

CO3: Customize the spreadsheet and use different types of charts for data presentation.

UBC2013: ADVANCED STATISTICAL METHODS

Upon successful completion of this course students should be able to:

CO1: Analyse various probability distributions and use for dataprocessing.

CO2: Apply Sampling Distributions to data analysis.

CO3: Discuss the properties of estimators which are needed for further evaluation of probability models.

CO4: Apply various statistical testing procedures in real lifeproblems.

CO5: Create awareness on the concepts which are useful in reportand project evaluation.

UBC2014: DIGITAL ELECTRONICS AND MICROPROCESSOR

Upon successful completion of this course students should be able to:

CO1: Design logic circuits using simplified Boolean expression.

CO2: Comprehend the design of adders, encoders, multiplexer, decoder and de-multiplexer.

CO3: Recognize the design of flip-flops, registers and counters.

CO4: Describe the architecture and pin configuration of Intel 8086 microprocessor.

CO5: Understand the instruction set, addressing modes and 8086 assembly language program concepts.

UBC2015: INFRASTRUCTURE MANAGEMENT

Upon successful completion of this course students should be able to:

CO1: Support and configure Windows 10 desktops in an organizational environment.

CO2: Describe the system center manager server infrastructure and typical configuration manager deployment scenarios.

CO3: Configure global and management server specific settings using manager 2012 R2.

CO4: Configure Windows-based computers for agent less management.

CO5: Understand the sequence and steps for installing the operations manager server.

UBC2016: VIRTUALIZATION AND CLOUD

Upon successful completion of this course students should be able to:

CO1: Describe the features of parallel and distributed computing application.

CO2: Choose appropriate cloud platform for deployment of webservices.

CO3: Configure a virtual machine for resource management andmonitoring.

CO4: Maintain host machine in a virtualization environment.

CO5: Describe the architecture of a data centre in cloud environment.

UBC2017: PROBLEM SOLVING USING PYTHON

Upon successful completion of this course students should be able to:

CO1: Set up Python programming environment and develop basic design constructs.

CO2: Use the decision and repetition structures in program design.

CO3: Apply functions and files to improve the efficiency of theprograms.

CO4: Implement exception handling and object-oriented programming methodology.

CO5: Represent and perform visualization of data.

UBC2018: SOFTWARE LAB III

Upon successful completion of this course students should be able to:

CO1: Describe the deployment and security of devices and applications across an enterprise.

CO2: Create, manage, monitor, and automate the infrastructure and workflows end-to-end.

CO3: Configure a virtual machine using vSphere.

CO4: Learn Python programming Environment and basic designConstructs.

CO5: Apply functions and files to improve the efficiency of theprograms

UBC2019A: ENTREPRENEURSHIP AND INNOVATIONS

Upon successful completion of this course students should be able to:

CO1: Describe the concept of Entrepreneurship.

CO2: Develop Entrepreneurship talents.

CO3: Identify innovative business ideas.

CO4: Recognize Government initiatives to support entrepreneurship.

CO5: Develop a business plan.

UBC2019B: H/W WORKSHOP

Upon successful completion of this course students should be able to:

CO1: Describe various network topologies and models.

CO2: Suggest an appropriate device for a networking problem.

CO3: Configure computer system with appropriate security.

UBC2020: OPERATIONS RESEARCH

Upon successful completion of this course students should be able to:

CO1: Understand the significance of operations research in management and industry.

CO2: Convert real life situations to mathematical models in (LPP) Liner Programming Problems.

CO3: Solve linear programming problem by using graphical methodand algebraic method.

CO4: Solve transportation problem and assignment problem.

CO5: Understand concept of game theory and solve pure strategy games.

CO6: Solve mixed strategy problems by principle of dominance.

UBC2021: ARTIFICIAL INTELLIGENCE

Upon successful completion of this course students should be able to:

CO1: Explain the basics of AI.

CO2: Identify appropriate AI methods to solve a given problem.

CO3: Illustrate basic AI algorithms.

CO4: Formalize a problem in the framework of AI methods.

CO5: Analyse how different expert systems work.

UBC2022: DATA BASE MANAGEMENT SYSTEMS

Upon successful completion of this course students should be able to:

CO1: Explain DBMS concepts, data models, architecture and Entity Relationship model.

CO2: Demonstrate relational data model.

CO3: Use SQL for database management.

CO4: Develop programs using PL (Procedure Language) /SQL (Structured Query Language).

CO5: Describe fundamental concepts of SAN (Storage Area Network).

UBC2023: PROCESS MANAGEMENT

Upon successful completion of this course students should be able to:

CO1: Describe the role software engineering in building of asoftware.

CO2: Explain the concept of Agile software development process.

CO03: Implement the scrum framework in a software project.

CO4: Enlist the different features of Devops software delivery model.

CO5: Describe design thinking approaches in Software development.

UBC2024: WEB PROGRAMMING USING PHP

Upon successful completion of this course students should be able to:

CO1: Harness the power of programming to build intelligent, interactive and personalized web sites.

CO2: apply cascading style sheets and Java Script in web programming.

CO3: Utilize a variety of basic programming structures (variables, loops, functions etc.) in PHP (PHP: Hypertext Preprocessor) on a web server.

CO4: Apply advanced constructs such as cookies, sessions and object oriented programming correctly in PHP.

CO5: Develop web pages that interact with MySQL databasesperforming simple CRUD (Create, Read, Update, Delete) operations.

UBC2025: SOFTWARE LAB IV

Upon successful completion of this course students should be able to:

CO1: Create dynamic web pages using JavaScript (client side programming), HTML, DHTML and Cascading styles sheets.

CO2: Build web applications using PHP.

CO3: Execute DDL (Data Definition Language) and DML (Data Manipulation Language) commands.

CO4: Execute advanced DDL and DML commands.

CO5: Familiarize PL/SQL programming.

UBC2026A: BUSINESS IDEA DEVELOPMENT

Upon successful completion of this course students should be able to:

CO1: Prepare a business plan.

CO2: Develop Project of an innovative business.

UBC2026B: IoT PROJECT

Upon successful completion of this course students should be able to:

CO1: Implement a small project in IoT (Internet of Things).

UBC2026C: WEBSITE DEVELOPMENT

Upon successful completion of this course students should be able to:

CO1: Develop a web site.

CO2: Perform client side validation on their pages.

CO3: Create well defined web pages using HTML tags, CSS and JavaScript.

UBC2027: SOFTWARE TESTING

Upon successful completion of this course students should be able to:

CO1: Describe the importance of testing, different levels and types of testing performed in software development life cycle.

CO2: Install selenium web driver and create simple automation testscript.

CO3: Create reusable methods using Java and identifying complex web objects using CSS Selector and Xpath.

CO4: Perform cross browser testing and handle complex/dynamic UIobjects.

CO5: Create a simple automation framework using Java, Selenium web driver library and Testing

UBC2028: CLIENT RELATIONSHIP MANAGEMENT

Upon successful completion of this course students should be able to:

CO1: Illustrate the procedure of service management.

CO2: Use the Service Now Tool.

CO3: Analyse how to manage the workflow in Service Now tool.

CO4: Create the client side and server side scripts.

CO5: Create Service request and generate status reports usingService Now.

UBC2029: INTERNET AND DIGITAL MARKETING

Upon successful completion of this course students should be able to:

CO1: Describe the basic concepts of Internet and Cyber laws.

CO2: Develop web pages using HTML.

CO3: Enlist the different areas of e-marketing.

CO4: Demonstrate the different possibilities of social media in digital marketing.

CO5: Explain the features of e-commerce and online marketingtools.

UBC2030: DIGITAL TECHNOLOGY

Upon successful completion of this course students should be able to**:**

CO1: Describe the advancements in digital technologies in all branches of computer science.

CO2: Enlist the applications of digital technologies in the service sector.

CO3: Explain steps in the robotic process automation implementation.

CO4: Suggest an automation procedure for enterprises.

CO5: Use IoT to automate applications.

UBC2031: SOFTWARE LAB V

Upon successful completion of this course students should be able to:

CO1: Create bots for software installation, file management and filebackup.

CO2: Manage client service request using process now.

CO3: Test web applications using Selenium Web Driver.

UBC2032: SOFTWARE DEVELOPMENT LAB I (MINI PROJECT)

Upon successful completion of this course students should be able to:

CO1: Apply Software Engineering concepts in project development.

CO2: Plan, analyse, design and implement a web project using PHP and MySQL.

CO3: Demonstrate independent learning.

CO4: Demonstrate and document software product

UBC2033: COGNITIVE SCIENCE FOR PROBLEM SOLVING

Upon successful completion of this course students should be able to:

CO1: Describe the cross-disciplinary, historical foundations of cognitive science.

CO2: Discuss perceptual processes in cognition.

CO3: Describe the concept of working memory of human being.

CO4: Demonstrate a high level of understanding of cognitive domains of Problem solving, reasoning and decision making.

CO5: Describe fundamental concepts of critical thinking.

UBC2034: MOBILE COMPUTING AND ANDROID APPLICATION DEVELOPMENT

Upon successful completion of this course students should be able to:

CO1: Create android application using different interfaces

CO2: Implement activity and multimedia in android.

CO3: Apply SQLite database in android.

CO4: Use JSON and XML in mobile application development.

CO5: Publish android application in play store.

UBC2035: IT, ENVIRONMENT AND HUMAN RIGHTS

Upon successful completion of this course students should be able to:

CO01: Describe the various natural resources and their importance in human existence.

CO2: Analyse the environmental damage to life-supportive elements such as air, land and water on a global scale.

CO3: Articulate the impact of information technology on environment and society.

CO4: Appreciate the importance of the concept of human right.

CO5: Describe how human right is implemented in Indian context.

UBC2036A: BIG DATA ANALYSIS

Upon successful completion of this course students should be able to:

CO1: Illustrate the concepts of big data and bid data technologies.

CO2: Analyze big data using Hadoop.

CO3: Explain how to use map reduce for distributed processing of large data sets.

CO4: Illustrate the features of NoSQL Databases to manage BigData.

CO5: Compare different NoSQL Databases**.**

UBC2036B: DATA MINING

Upon successful completion of this course students should be able to:

CO1: Illustrate the data mining techniques and their application.

CO2: Explain various classification and clustering Techniques to analyze the behaviour of large data sets.

CO3: Use decision tree to analyse the behaviour of data sets.

CO4: Explain how neural networks, genetic algorithm and SVMcan be used to generate information from large data sets.

CO5: Apply data mining technique for studying web data, Biomedical data, and text data.

UBC2036C: MACHINE LEARNING

Upon successful completion of this course students should be able to:

CO1: Describe the basic concept of machine learning.

CO2: Implement Data preparation in R/Python.

COUBC2036C.03: Implement various classification algorithms in R/Python.

COUBC2036C.04: Implement various regression methods in ML.

COUBC2036C.05: Demonstrate artificial neural networks and SVM using R/Python.

UBC2036D: CRYPTOGRAPHY AND NETWORK SECURITY

Upon successful completion of this course students should be able to:

CO1: Describe the classical encryption techniques.

CO2: Explain the advanced encryption standards.

CO3: Enlist the different Cryptosystems.

CO4: Apply the cryptographic hash functions.

CO5: Discuss the different security methods.

UBC2037: SOFTWARE LAB VI & SEMINAR

Upon successful completion of this course students should be able to:

CO1: Create basic UI in Android Apps using different activities andmultimedia in Android.

CO2: Implement different activities and multimedia in Android.

CO3: Implement SQLite in Android Apps.

CO4: Conduct Literature Survey and acquire information of new developments in IT.

CO5: Develop presentation and communication skill.

CO6: Build confidence for public speaking.

UBC2038: SOFTWARE DEVELOPMENT LAB II (MAIN PROJECT)

Upon successful completion of this course students should be able to:

CO1: Apply Software Engineering techniques in solving real lifeproblems.

CO2: Demonstrate independent learning.

CO3: Demonstrate the ability to locate and use technical information from multiple sources.

CO4: Maintain professional ethics in Software development.

CO5: Demonstrate communication skill.

UBM2040A: CAPITAL MARKET & INVESTMENT MANAGEMENT

Upon successful completion of this course students should be able to:

CO1: Explain the components of Indian Financial System.

CO2: Appreciate the significance of SEBI as a regulatory mechanism in the Indian Capital Market.

CO3: Develop an ability to start micro scale investment in stock market.

CO4: Familarise with different dimensions of derivative trading.

CO5: Explain the functioning of new issue market and identify the majorintermediaries

CO6: Identify the major stock exchanges of India and appreciate the role playedby them in terms of capital raised

UBM2040B: FUNDAMENTALS OF ACCOUNTING

Upon successful completion of this course students should be able to:

CO1: Describe accounting concepts and conventions required for the businessenterprise

CO2: Pass journal entries by understanding the rules of double entry system ofaccounting

CO3: Prepare ledgers which include different types of cash book and balancing ofthe accounts

CO4: Prepare trial balance by understanding the format in order to ensure the arithmetical accuracy

CO5: Create final accounts of the sole proprietorship by understanding the natureof accounts

UEN2030: FILM STUDIES

Upon successful completion of this course students should be able to:

CO1: Develop critical and appreciative skills in film viewing.

CO2: Write reviews and critiques on films.

CO3: Examine the verbal and non-verbal messages in films and how they influence the socio-political-cultural behaviour of people.

CO4: Observe the operation of the sound and color in films.

CO5: Outline the processes of film production, including pre-production, production, and post production.

CO6: Draft research essays in the discipline.

UEC2026: FUNDAMENTALS OF ECONOMICS

CO1: Apply basic concepts of economics of demand and supply.

CO2: To analyze and demonstrate the expenditure pattern of a country.

CO3: To critically evaluate the functioning of financial system.

CO4: To evaluate the planning system and strategies.

UBC2029: INTERNET AND DIGITAL MARKETING

Upon successful completion of this course students should be able to:

CO1: Understand the basic concepts of Internet and Cyber laws.

CO2: Develop web pages using HTML.

CO3: Acquire basics of digital marketing concepts.

CO4: Discuss about the various business drivers in the digital world.

CO5: Familiarize with E-commerce and online tools for marketing.

UMA2030: APPLICABLE MATHEMATICS

Upon successful completion of this course students should be able to:

CO1: Solve quadratic equations.

CO2: Plot points and draw graphs of straight lines.

CO3: Use problem solving techniques for aptitude problems

CO4: Find the derivatives and integrals of functions

CO5: Define outcomes, sample space and events

UBB 2024: BRAND MANAGEMENT

CO1: Demonstrate a fair understanding about key principles of branding.

CO2: Discuss and apply different strategies for promoting brands and types of branding.

CO3: Design and implement brand strategies that consider brand naming, logo and its types.

CO4: Cognize and apply brand positioning strategies.

CO5: Demonstrate and apply knowledge of different brand extension strategies.

USW2021: DEVELOPMENT COMMUNICATION

CO1: Explain basic concepts in development communication

CO2: Demonstrate understanding on theoretical frameworks of development communication

CO3: Apply various communication strategies in practice

CO4: Use various communication techniques for development programmes

CO5: Demonstrate skills in public speaking and organising conferences and seminars

UPE2001: PHYSICAL HEALTH AND LIFE SKILLS EDUCATION

Upon successful completion of this course students should be able to:

CO1: Ability to search appropriate sources of information about physical fitness andits components.

CO2: Suggest set of exercises or activities to maintain or improve efficiency ofdifferent body systems.

CO3: Ability to suggest combination of nutrients and its various sources for balanced diet.

CO4: Application of first aid and its procedure for common injuries.

CO5: Capable to demonstrate and suggest exercises for the prevention and management of hypo-kinetic diseases.

CO6: Habit of Engage in sports and games activities including yoga for better lifeskills.

UPY2043: RENEWABLE ENERGY SOURCES

Upon successful completion of this course students should be able to:

CO1: Describe the details of Solar Thermal energy

CO2: Describe the solar photovoltaic and wind energy

CO3: Describe the geothermal energy and energy from biomass

CO4: Describe the energy from oceans and chemical energy resources

Prerequisites. Course does not require a solid base in physics only qualitative & elementary ideas of the subject are expected from the students.

BACHELOR OF SCIENCE IN MATHEMATICS

PROGRAMME SPECIFIC OUTCOMES:

PSO1: Demonstrate analytical skills in algebra, trigonometry, calculus, graph theory, differential equations, discrete mathematics and utilize spatial visualisation and geometric modelling.

PSO2: Organize and interpret real time data and to make proper decisions.

PSO3: Apply appropriate problem-solving methodologies for the solution and analysis of problems in the domain of Finance and Accounting, Computer Science, Mathematics and Statistics.

PSO4: Demonstrate proficiency in C and Python languages, web technology and networking and communication skills.

PSO5: Enhance employability through linguistic skills, aptitude and logical reasoningskills.

COURSE OUTCOME

COURSE ESSENTIAL ENGLISH FOR UNDER GRADUATES

CO1: Identify the distinct sounds in English words.

CO2: Articulate words and sentences clearly stressing the right syllables.

CO3: Choose the right words while writing/talking about everyday life.

CO4: Write sentences adhering to tense rules.

CO5: Correct common errors such as punctuation and capitalization.

CO6: Use expressions appropriate for various social occasions.

CO7: Identify the key points in a piece of writing.

UMA2001M: MALAYALAM - കഥാസാഹിത്യം

CO1: Understand the literary works. (Poem)

CO2: Evaluate the literary works. (Poem)

CO3: Analyze the literary works. (Poem)

CO4: Create literary contents. (Poem)

CO5: Apply literary criticism. (Poem)

UMA2001H: COMMUNICATION, TRANSLATION AND APPLIED GRAMMAR

CO1: Understand the literary works.

CO2: Evaluate the literary works.

CO3: Analyze the literary works.

CO4: Create literary contents.

CO5: Apply literary criticism.

UMA2001: GERMAN: GRAMMAR AND TRANSLATION (SEEN TEXTS)

CO1: Identify the distinctive sounds in German.

CO2: Articulate words with correct pronunciation.

CO3: Understand basic grammar

CO4: Develop the skills of reading, writing and listening in German

CO5: Ability to translate from German to English with the help of dialogue patterns, conversations, and short texts, written and oral exercises

UMA2002: FOUNDATION OF MATHEMATICS

CO1: Define sets and functions.

CO2: Distinguish between equivalence relations and partial order relations.

CO3: Analyse statements using truth tables.

CO4: Construct different methods of proofs.

CO5: Apply divisibility theory and basic properties of congruence.

UMA2003: BASIC STATISTICS

On completion of this course, successful students will be able to:

CO1: Demonstrate appropriate sampling and data collection processes.

CO2: Calculate measures of central tendency and dispersion.

CO3: Describe the basics of probability theory.

CO4: Compute the probabilities of events using various methods

CO5: Construct index numbers

UMA2004: INTRODUCTION TO COMPUTER

The course should enable the students to

CO1: Understand various computer types.

CO2: Understand the basics of software systems.

CO3: Use basic features available in excel

CO4: Develop power point presentation using MS PowerPoint

UMA 2005: FUNDAMENTALS OF ACCOUNTING

CO1: Identify the objectives and functions of accounting, accounting concepts and conventions required for the business enterprise.

CO2: Develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an organization's accounting records.

CO3: Prepare trial balance by understanding the format in order to ensure the arithmetical accuracy.

CO4: Explain the concept and methods of depreciation.

CO5: Create final accounts of the sole proprietorship by understanding the nature of accounts.

UMA2006: LIFE SKILLS

CO1: To develop communication competence.

CO2: To develop report writing skills.

CO3: To equip them to face interview & group discussion.

CO4: To use critical thinking process.

CO5: To use problem solving skills.

CO6: To understand team dynamics & effectiveness.

CO7: To create an awareness on ethics and human values.

UCE2002: ACADEMIC AND PROFESSIONAL ENGLISH

CO1: Identify the elements of good academic writing

CO2: Select the right vocabulary for an academic essay**.**

CO3: Write effective thesis statements.

CO4: Identify the different strategies employed in shaping an academicessay

CO5: Write brief book reviews

CO6: Write a CVs and cover letters

UMA2007M: MALAYALAM-കഥാസാഹിത്യം

CO1: Understand the literary works. (Short stories)

CO2: Evaluate the literary works. (Short stories)

CO3: Analyze the literary works. (Short stories)

CO4: Create literary contents. (Short stories)

CO5: Apply literary criticism. (Short stories)

UMA2007H: HINDI - POETRY, SHORT STORY AND NOVEL

CO1: Understand the literary works.

CO2: Evaluate the literary works.

CO3: Analyze the literary works.

CO4: Create literary contents.

CO5: Apply literary criticism

UMA2007G: GERMAN - GRAMMAR, TRANSLATION AND COMMUNICATION (SEEN TEXTS)

CO1: Identify grammatical concepts.

CO2: Write sentences adhering to grammatical rules.

CO3: Translate simple texts from German into English.

CO4: Use German in simple conversations.

UMA2008: ANALYTIC GEOMETRY, TRIGONOMETRY AND MATRICES

On completion of this course, successful students will be able to:

CO1: Develop equation of tangent, normal and locus of a point on a conic

CO2: Develop polar equation of a line, circle, tangent and normal to aconic

CO3: Separate into real and imaginary parts of a circular and hyperbolic functions of a Complex variable

CO4: Solve a system of linear equations using different methods

CO5: Identify eigen vectors corresponding to eigen values

CO6: Apply Cayley Hamilton theorem

UMA2009: THEORY OF RANDOM VARIABLES

CO1: Illustrate and formulate probability density functions and distribution functions for random variables.

CO2: Explain the concepts of expectation and describe their properties.

CO3: Measure skewness and kurtosis of distributions.

CO4: Find the correlation between two variables.

CO5: Identify the nature of relationship between two variables through regression analysis.

UMA2010 NETWORKING AND WEB DEVELOPMENT

The course should enable the students to

CO1: Understand basics of www

CO2: Develop basic html pages

CO3: Understand and Implements various styling using css

CO4: Understand basics of web development

UMA2011: BANKING AND COMPUTERIZED ACCOUNTING

CO1: Discuss the Indian Banking system, basic concepts, various innovations and reforms in banking services.

CO2: Construct Bank Reconciliation Statement.

CO3: Understand the basic concepts of Tally ERP- 9.

CO4: Develop practical skills in the application of Tally AccountingPackage.

UMA 2012: COMPUTER FUNDAMENTALS

The course should enable the students to

CO1: Use Google Forms.

CO2: Use Google Slides.

CO3: Use Google Document.

CO4: Tally ERP9 for Beginners

CO5: Equip the students to meet the demand of the industry by introducing them with Tally ERP9.

CO6: Develop practical skills in the application of Tally AccountingPackage.

CO7: Prepare final accounts of a company in Tally ERP.

UMA2014M: MALAYALAM-ദൃശ്യകലാസാഹിത്യം

CO1: Understand the literary works.

CO2: Evaluate the literary works.

CO3: Analyze the literary works.

CO4: Create literary contents.

CO5: Apply literary criticism.

UMA2014H: HINDI-ANCIENT AND MODERN POETRY

CO1: Understand the literary works.

CO2: Evaluate the literary works.

CO3: Analyze the literary works.

CO4: Create literary contents.

CO5: Apply literary criticism.

UMA2014:GERMAN-GRAMMAR, GERMAN HISTORY, SOCIETY AND CULTURE

CO1: Understand the history, society and culture of German speaking countries.

CO2: Appraise Germany before and after the World War II.

CO3: Apply knowledge of grammar.

CO4: Comprehend texts at a higher level.

UMA2015: CALCULUS

After completing this course the learner will be able to

CO1: Find the higher order derivatives of functions.

CO2: Expand functions using Taylor's and Maclaurin's series.

CO3: Find the partial derivatives of functions.

CO4: Calculate area under the given curve, length of the given arc,volume by slicing and rotation about an axis.

CO5: Solve double integrals and triple integrals using suitable substitutions.

UMA2016: PROBABILITY DISTRIBUTIONS

CO1: Create an application of probability models to different contexts.

CO2: Demonstrate the fitting of statistical data.

CO3: Analyze various probability distributions and use for data processing.

CO4: Apply the theorems to the data for statistical testing purpose.

CO5: Apply sampling distributions to data analysis.

UMA2017: PROGRAMMING WITH C LANGUAGE

The course should enable the students to

CO1: Understand and implement c language basic

CO2: Implements various string handling functions.

CO3: Implements various operators of c

CO4: Implements functions using c

CO5: Develop programs with Looping and branching statements.

UMA2018: ADVANCED ACCOUNTING

CO1: Discuss the salient features and nature of Consignment transactions.

CO2: Demonstrate the accounting knowledge in the preparation of branch accounts.

CO3: Explain the basic knowledge of partnership.

CO4: Describe the various forms of reconstitution of partnership.

UMA2019: INDRODUCTION TO INCOME TAX

CO1: Understand different aspects of Income Tax

CO2: Calculate the taxable income of a salaried person

UMA2020M: MALAYALAM-സാഹിത്യരൂപങ്ങൾ

CO1: Understand the literary works.

CO2: Evaluate the literary works.

CO3: Analyze the literary works.

CO4: Create literary contents.

CO5: Apply literary criticism.

UMA2020H: HINDI- HINDI COMMUNICATION TRANSLATION AND APPLIED GRAMMER

CO1: Student will be able to think logically and present ordered arguments, reasoned explanations and communicate them clearly

CO2: Student will be able to work and communicate in Hindi

CO3: Student will be able to analyze the social problems

UMA2020G: GERMAN-GERMAN LITERATURE: SELECTED READINGS -PROSE AND POETRY

CO1: Identify outstanding German writers.

CO2: Evaluate the contribution of well-known German writers to the growth of the German language.

CO3: Aesthetically appreciate works of German literature.

CO4: Use German language with competence and proficiency

UMA2021: VECTOR CALCULUS, THEORY OF EQUATIONS AND NUMERICAL METHODS

After completing this course the learner will be able to

CO1: Calculate the line and surface integrals using fundamental theorem, Green's theorem, Stoke's theorem and Divergence theorem.

CO2: Find partial derivatives, gradients and directional derivatives.

CO3: Find velocity vector, tangent vector, normal vector, torsion and unit binormal vectors.

CO4: Apply theorems regarding roots of an equation to solve polynomial equations.

CO5: Find numerical solutions of algebraic and transcendental equations.

UMA2022: MATHEMATICS FOR COMPETITIVE EXAMINATIONS AND SOFT SKILLS

CO1: Use problem solving techniques for aptitude problems.

CO2: Model and make decisions with mathematical, statistical, and quantitative information.

CO3: Find HCF, LCM, square and square roots, cube and cube roots of numbers and solution of quadratic equations.

CO4: Demonstrate skill in communicating effectively in English.

CO5: Write perfect resumes, and also attend the interviews and participate in group discussions with confidence.

UMA2023: STATISTICAL INFERENCE

After completing this course the learner will be able to:

CO1: Discuss the properties of estimators which are needed for further evaluation of probability models.

CO2: Demonstrate various estimation methods which will help in theproper data manipulation.

CO3: Examine interval estimation.

CO4: Apply various statistical testing procedures in real life problems which are helpful in forecasting and decision making.

CO5: Analyze various practical problems statistically in order to reduceerrors in data interpretation.

UMA2024: PYTHON 3 PROGRAMMING

The course should enable the students to

CO1: Install and Configure Python 3.

CO2: Understand and implement basic python.

CO3: Implements various python data structure.

CO4: Implements various operators of python.

CO5: Develop programs with Looping and branching statements.

UMA 2025: SKILL ENHANCEMENT IN DATA ANALYTICS

CO1: Analyze a real-life problem and prepare a questionnaire.

CO2: Conduct a survey.

CO3: Analyze results.

CO4: Apply statistical methods and draw conclusions.

CO5: Write report in specific format.

UMA2026: MATHEMATICAL ANALYSIS

After completing this course the learner will be able to

CO1: Identify the supremum and infimum of sets, if they exist.

CO2: Find the interior and closure of a set.

CO3: Distinguish between countable and uncountable sets.

CO4: Examine the convergence of real sequences.

CO5: Develop the basic algebraic and geometric properties of the complex numbers.

UMA2027: DIFFERENTIAL EQUATIONS

After completing this course the learner will be able to

CO1: Find the integrating factor to convert an equation into an exact one and solve the equation.

CO2: Solve linear and Bernoulli equation.

CO3: Solve homogeneous linear differential equations.

CO4: Find the power series solution of the equations.

CO5: Solve dx/P + dy/Q + dz/R.

UMA2028: ABSTRACT ALGEBRA

CO1: Analyse finite groups and abelian groups.

CO2: Analyse cyclic groups.

CO3: Distinguish between group isomorphism, automorphism and homomorphism.

CO4: Analyse ring and field.

CO5: Find characteristics of a ring.

UMA2029: ENVIRONMENTAL STUDIES AND HUMANRIGHTS

CO1: Describe how our life-support system is maintained by all the species that make up the bio-sphere, so that they are prepared to sustain biodiversity at all costs.

CO2: They develop observation skills and critical thinking and apply themto the analysis of a problem-infested environment.

CO3: They analyse the principles of ecology and the environmental damage to life supportive elements such as air, land and water on a global scale.

CO4: Demonstrate the relation between Fibonacci numbers and nature.

CO5: Describe the human rights and their applications in Indian context.

UMA2030: APPLICABLE MATHEMATICS

The student will be able to:

CO1: Write ordinary text, mathematical formulae as equations.

CO2: Organize texts using formatting comments.

CO3: Know insertion of symbols and operators in texts .

CO4: Create array, table, header and font.

UMA2032: REAL ANALYSIS

After completing this course the learner will be able to

CO1: Test the behaviour of infinite series as regards to convergence.

CO2: Examine the continuity and uniform continuity of functions.

CO3: Examine the integrability of real bounded functions on intervals.

CO4: Define the integral of a function as a limit of sums.

CO5: Test the convergence of sequence (and series) of functions inintervals.

UMA2033: COMPLEX ANALYSIS

On completion of this course, the students will be able to

CO1: Identify the analytic functions.
CO2: Solve the integrals of complex functions by applying theorems and results.

CO3: Examine the convergence of complex sequence and series.

CO4: Find singular points and their residues.

CO:5 Solve improper integrals.

UMA 2034: DISCRETE MATHEMATICS

On completion of this course, the students will be able to

CO1: Explain the basic concepts of graphs, trees and connectivity

CO2: Find the matrix representation of a given graph

CO3: Demonstrate various results related to tours, paths and cycles

CO4: Discuss different cryptographic systems.

CO5: Explain posets and lattices.

UMA2035: LINEAR ALGEBRA AND METRIC SPACES

CO1: Analyse vector space, its basis and dimension.

CO2: Generate matrix representation of a linear transformation.

CO3: Distinguish between kernel and image of a linear transformation.

CO4: Analyse metric space.

CO5: Analyse complete metric space.

UMA2036A: OPERATIONS RESEARCH

CO1: Understand the significance of OR in Management and Industry.

CO2: Converts real life situations to mathematical models.

CO3: Solve Linear programming problems using graphical method andalgebraic method.

CO4: Apply transportation problem and assignment problem in real lifesituations

CO5: Apply the concept of Game theory in various competitivesituations

UMA2036B: TOPOLOGY

On completion of this course, the students will be able to

CO1: Understand the basic concept of topology and its significance in real life situations.

CO2: Develop precise knowledge about closed sets, limit points and Metric topology.

CO3: Learn the concept of connected spaces in the real line.

CO4: Study the properties of compactness.

UMA 2036 C: THEORY OF COMPUTATION

On completion of this course, the students will be able to

CO1: Understand the basic concept of automata, DFA and NDFA.

CO2: Study the concept of Grammar and its applications.

CO3: Perform operations on Languages and Automata

CO4: Construct Finite automata equivalent to regular expressions

UEN2032: FILM STUDIES

CO1: Develop critical and appreciative skills in film viewing.

CO2: Write reviews and critiques on films.

CO3: Examine the verbal and non-verbal messages in films and how they influencethe socio-political cultural behavior of people.

CO4: Observe the operation of the sound and color in films.

CO5: Outline the processes of film production, including pre-production, production,and post production.

CO6: Draft research essays in the discipline.

UBM2040A: CAPITAL MARKET & INVESTMENT MANAGEMENT

CO1: Explain the components of Indian Financial System.

CO2: Appreciate the significance of SEBI as a regulatory mechanism in the Indian Capital Market.

CO3: Develop an ability to start micro scale investment in stock market.

CO4: Familarize with different dimensions of derivative trading.

CO5: Explain the functioning of new issue market and identify the major intermediaries.

CO6: Identify the major stock exchanges of India and appreciate the role played bythem in terms of capital raised

UBM2040B: OPEN COURSE - FUNDAMENTALS OF ACCOUNTING

CO1: Describe accounting concepts and conventions required for the business enterprise

CO2: Pass journal entries by understanding the rules of double entry system ofaccounting

CO3: Prepare ledgers which include different types of cash book and balancing of theaccounts

CO4: Prepare trial balance by understanding the format in order to ensure thearithmetical accuracy

CO5: Create final accounts of the sole proprietorship by understanding the nature ofaccounts

UEC2027: FUNDAMENTALS OF ECONOMICS

The students will be able to –

CO1: Apply basic concepts of economics of demand and supply.

CO2: To analyze and demonstrate the expenditure pattern of a country

CO3: To critically evaluate the functioning of financial system

CO4: To evaluate the planning system and strategies

UBC2030: INTERNET AND DIGITAL MARKETING

Upon successful completion of this course, students should be able to

CO1: Understand the basic concepts and underlying technologies ofthe Internet.

CO2: Discuss the various services provided by the Internet.

CO3: Analyze the facilities for secure communication and E- Commerce business.

CO4: Develop web pages using HTML.

CO5: Understand the various Cyber Crimes and Cyber Laws.

UMA2030: APPLICABLE MATHEMATICS

After completing this course the student will be able to

CO1: Solve quadratic equations.

CO2: Plot points and draw graphs of straight lines.

CO3: Use problem solving techniques for aptitude problems.

CO4: Find the derivatives and integrals of functions.

CO5: Define outcomes, sample space and events.

UBB2025: BRAND MANAGEMENT

CO1: Demonstrate a fair understanding about key principles of branding.

CO2: Discuss and apply different strategies for promoting brands and types of branding.

CO3: Design and implement brand strategies that consider brand naming, logo and its types.

CO4: Cognize and apply brand positioning strategies.

CO5: Demonstrate and apply knowledge of different brand extension strategies.

USW2021: OPEN COURSE- DEVELOPMENT COMMUNICATION

After completion of this course student will be able to

CO1: Explain basic concepts in development communication.

CO2: Demonstrate understanding on theoretical frameworks of development communication.

CO3: Apply various communication strategies in practice.

CO4: Use various communication techniques for development programmes.

CO5: Demonstrate skills in public speaking and organising conferences and seminars.

UPE2001: PHYSICAL HEALTH AND LIFE SKILLS EDUCATION

CO1: Ability to search appropriate sources of information about physical fitness andits components.

CO2: Suggest a set of exercises or activities to maintain or improve efficiency ofdifferent body systems.

CO3: Ability to suggest combinations of nutrients and its various sources for balanced diet.

CO4: Application of first aid and its procedure for common injuries.

CO5: Capable to demonstrate and suggest exercises for the prevention and management of hypo-kinetic diseases.

CO6: Habit of Engage in sports and games activities including yoga for better life skills.

UPY2043: RENEWABLE ENERGY SOURCES

After the completion of the course the students shall be able to:

CO1: Describe the details of Solar Thermal energy.

CO2: Describe the solar photovoltaic and wind energy.

CO3: Describe the geothermal energy and energy from biomass.

CO4: Describe the energy from oceans and chemical energy resources.

Pre requisites: Course does not require a solid base in physics only qualitative & elementary ideas of the subject are expected from the students.

BACHELOR OF ECONOMICS

PROGRAMME SPECIFIC OUTCOMES

PSO1: Analyse key economic theories from historic to contemporary period.

PSO2: Evaluate contemporary socio-economic policies.

PSO3: Measure economic variables and formulate contemporary economic models by using appropriate tools.

PSO4: Produce interdisciplinary and integrated economic research papers.

PSO5: Apply professional communication techniques suitable for pursuing higher studies or to be employable at the global level.

COURSE OUTCOME

UCE2001: ESSENTIAL ENGLISH FOR UNDER GRADUATES

The students will be able to

CO1: Identify the distinct sounds in English words.

CO2: Articulate words and sentences clearly stressing the right syllables.

CO3: Choose the right words while writing/talking about everyday life.

CO4: Write sentences adhering to tense rules.

CO5: Correct common errors such as punctuation and capitalization.

CO6: Use expressions appropriate for various social occasions.

CO7: Identify the key points in a piece of writing.

UEC2001: BUSINESS COMMUNICATION

The student will be able to:-

CO1: Analyze and apply the elements and necessary conditions foreffective communication.

CO2: Compose and disseminate essential business letters.

CO3: Analyse and apply communication skills for workplace success

CO4: Analyse and evaluate the use of ICT-enabled communication forordinary business purposes.

CO5: Recognize, articulate and apply ethical principles in variousacademic, professional, social or personal contexts.

UEC2002: AN OUTLINE OF ECONOMIC THOUGHT

After successful completion of the course, students will be able to:

CO1: Sketch and list the chronology of economic events and associated economists.

CO2: Analyse the development of economic theory in its progress ofideas and debates.

CO3: Identify definite historical beginnings of basic economic theories, doctrines and postulates.

CO4: Explain the philosophical background of economic theories and critically evaluate them.

CO5: Identify and explain the key contributions of various economicschools of thought from classical to contemporary.

UEC2003: INTRODUCTORY STATISTICS

After successful completion of the course, the student will be able to:

CO1: Produce appropriate graphical, tabular, and numerical summaries of the distributions of variables in a data set.

CO2: Apply the principles of data collection using various sampling methods and present it meaningfully.

CO3: Apply statistical methods ethically.

CO4: Analyze research questions based on statistical data, draw relevant conclusions under the limitations of particular statistical methods.

CO5: Identify and apply some common probability distributions, and assess if underlying assumptions for the distribution are reasonable

UEC2004: INTRODUCTORY MATHEMATICS

The student will be able to –

CO1: Solve problems using mathematics in unfamiliar settings.

CO2: Analyse slope and slope intercept form.

CO3: Apply graphing of linear and nonlinear functions.

CO4: Solve a system of linear equations using matrices.

CO5: Construct mathematical modeling of real-life situations and solvethem using graphical method.

UEC2005: TECHNICAL COMPETENCIES FOR EXECUTIVES

On completion of the course the students will be able to:-

CO1: Create, Format and Edit MS-Word Document effectively

CO2: Use Tables, Graphs, Insert Table of Content, Merge mailsetc.

CO3: Work on MS-Excel using Formula & Functions, createTables and Charts, Sort Filter data.

CO4: Create and customize Power Point presentations.

UCE2002: ACADEMIC AND PROFESSIONAL ENGLISH

The students will be able to-

CO1: Identify the distinct sounds in English words.

CO2: Articulate words and sentences clearly stressing the right syllables.

CO3: Choose the right words while writing/talking about everyday life.

CO4: Write sentences adhering to tense rules.

CO5: Correct common errors such as punctuation and capitalization.

CO6: Use expressions appropriate for various social occasions.

CO7: Identify the key points in a piece of writing.

UEC2006: RESEARCH METHODOLOGY FOR ECONOMICS

The students will be able to -

CO1: Explain the criteria for a good research and identify good research works.

CO2: Analyse various research approaches and designs employed in social science.

CO3: Evaluate different data collection methods and samplingprocedures.

CO4: Explain various steps involved in data analysis and interpretation.

CO5: List out the steps and procedure involved in carrying out apublishable research work.

UEC2007: INTRODUCTORY MICRO ECONOMICS

The students will be able to –

CO1: Describe the nature of microeconomics

CO2: Explain consumer utility theories graphically

CO3: Illustrate the working of price mechanism

CO4: Describe how firms behave in under various risk scenarios.

CO5: Illustrate how a firm adjust production in accordance with different cost conditions.

UEC2008: INTERMEDIATE STATISTICS

After successful completion of the course, the student will be able to:

CO1: Find averages and advanced measures of probability distributions.

CO2: Formulate statistical hypotheses and test them for durability.

CO3: Test for correlation and regression between the variables of a given model.

UEC2009: INTERMEDIATE MATHEMATICS

The students will be able to use –

CO1: Evaluate limit and continuity of functions.

CO2: Apply rules of differentiation and optimize functions using derivatives.

CO3: Distinguish between exponential and logarithmic functions.

CO4: Evaluate integrals and area between curves using integral calculus.

CO5: Apply rules of partial differentiation and optimize multivariable functions.

UEC2010: Micro Project

CO1: Suggest practical solutions to research issues with application of concepts, principles, theories and processes.

CO2: Entail scientific collection, analysis and interpretation of data to valid conclusions.

CO3: Identify any issue of social and economic relevance in an area, organization, related issues of contemporary relevance or undertake a case study

CO4: Inspect in detail the roots causes of contemporary social and economic issue.

UEC2011: INTERMEDIATE MICRO ECONOMICS

CO1: Describe the working of various factor markets.

CO2: Determine how firms behave in different market situations.

CO3: Formulate strategies in accordance with the changing behaviour of the Competitors.

CO4: Determine profit maximization output in product and factor markets.

UEC2012: INTRODUCTORY MACRO ECONOMICS

The students will be able to–

CO1: Classify the components of national income

CO2: Calculate national income

CO3: Compare various instruments of monetary policy

CO4: Evaluate the problem of unemployment and need for economicgrowth

CO5: Elucidate the functioning of an open economy

UEC2013: MATHEMATICAL ECONOMICS

After successful completion of the course, the student will be able to:

CO1: Solve problems on elasticity and functions using mathematics, Produce and interpret graphs of basic economic functions.

CO2: Optimize practical business/ economic problems of multivariable nature.

CO3: Formulate games out of practical problems and solve them to find optimal strategies.

CO4: Solve logistical contingencies by applying Operations

UEC2014: INTRODUCTORY FINANCIAL ACCOUNTING

CO1: Identify the meaning, nature, objectives and functions of accounting.

CO2: Develop the ability to use accounting concepts, principles and frameworks to analyze and effectively communicate information to a variety of audiences.

CO3: Develop the ability to use the fundamental accounting equation to analyze the effect of business transactions on an organizations accounting records.

CO4: Explain the concept and methods of depreciation.

CO5: Create final accounts of the sole proprietorship by understanding the nature of accounts.

UEC2015: FINANCIAL MARKETS AND INSTITUTIONS

CO1: Identify the components of financial markets

CO2: Explain the operation of different financial markets

CO3: Explain the role of regulatory bodies of the financial markets

CO4: Evaluate and reflect upon relevant policies

UEC2016: ENTREPRENEURIAL SKILL DEVELOPMENT PROGRAMME

On successful completion of the course, the student will be able to

CO1: Assess the commercial viability of new technologies, business opportunities and existing companies

CO2: Plan, organize, and execute a project or new venture with the goal of bringing new products and service to the market

CO3: Write scientific reports and communicate the results in a professional manner.

COUEC2017: AGRICULTURAL ECONOMICS

CO1: Interpret economic theories related to agriculture in the Indian perspective.

CO2: Assess various government policies related to agriculture.

CO3: Explain productivity pattern of Indian agriculture.

CO4: Assess the Indian agriculture sector under various five-year plans.

UEC2018: INTERMEDIATE MACRO ECONOMICS

Students will be able to:

CO1: To describe trade cycle and analyze policy implications

CO2: To assess the working of ISLM model.

CO3: To present various types of investment.

CO4: To differentiate various types of inflation.

CO5: Demonstrate the working of ISLM in open economy- Mundel Fleming model.

UEC2019: FINANCIAL ECONOMICS

Students will be able to

CO1: Distinguish various theories of interest rate.

CO2: Demonstrate the working of financial market.

CO3: Evaluate financial market instability and crisis.

UEC2020: INTERMEDIATE FINANCIAL AND COMPUTERISED ACCOUNTING

CO1: Discuss the salient features and nature of Consignment transactions.

CO2: Demonstrate the accounting knowledge in the preparation of branch accounts.

CO3: Understand the basic concepts of Tally ERP- 9.

CO4: Develop practical skills in the application of Tally Accounting Package.

UEC2021: INTRODUCTORY ECONOMETRICS

After successful completion of the course, the student will be able to:

CO1: Postulate and test hypotheses related to economic issues orproblems.

CO2: Conduct empirical work/research in business and economics based on given data.

CO3: Build economic models and estimate the variables with econometric modeling software.

CO4: Use statistical software to estimate regressions.

UEC2022: ENVIRONMENTAL STUDIES AND HUMAN RIGHTS

CO1: Students recognize that our life-support system is maintained by all the species that make-up the bio-sphere, so that they are prepared to sustain biodiversity at all costs.

CO2: They develop observation skills and critical thinking and apply them to the analysis of a problem-infested environment.

CO3: They analyze the principles of ecology and the environmental damage to life supportive elements such as air, land and water on a global scale.

CO4: They develop a plan to counteract the overall impact of a specific issue, whether local or global, sketching out an effective environment management plan.

CO5: They develop empathy and respect for human rights and their application in Indian context.

UEC2023: THEORY OF PUBLIC ECONOMICS

CO1: Demonstrate theoretical knowledge to analyze and evaluate various public policies.

CO2: Demonstrate familiarity with a range of policy issues and relevant analytical tools.

CO3: Critically discuss key issues in government income and expenditure.

UEC2024: INDIAN ECONOMY PRE-LIBERALIZATION

CO1: Analyze and evaluate the structure of Indian Economy from pre-colonial period to post- independence era.

CO2: Critically analyze and evaluate the achievements of the variousgovernment agricultural policies over time.

CO3: Critically analyze and evaluate the achievements of the variousgovernment industrial policies over time.

CO4: Analyze and evaluate different types of plan adopted in India.

UEC2025: ALTERNATIVE ECONOMICS

The students will be able to –

CO1: Include gender and energy perspectives in economic analysis.

CO2: Evaluate the economic implications of drug addiction and crime.

CO3: Illustrate the economic perspective of family size, marriage and divorce.

CO4: To identify the dying energy sources and polices to save them from extinction.

CO5: To map usage of energy consumption and sketch the efficient ways of

UEC2026: INTERMEDIATE ECONOMETRICS

After successful completion of the course, the student will be able to:

CO1: Conduct empirical work/research in business and economics based on given data.

CO2: Find, test and remedy any error in given econometric models.

CO3: Formulate and solve nonlinear models using statistical software.

CO4: Formulate models to represent dynamic economic problems andsolve them using econometric modeling packages.

UEC2028: INTERNSHIP

Students will be able to -

CO1: Work in relevant industrial setting or academic setting.

CO2: Apply theoretical knowledge into real-life scenario

CO3: Take up research activities and pursue academic interests.

UEC2029: PUBLIC FINANCE IN INDIA

CO1: Demonstrate understanding of the constitutional provisions for fiscal revenue.

CO2: Demonstrate understanding of the constitutional provisions for public expenditure.

CO3: Analyze and evaluate various fiscal policies at the state and national level.

CO4: Analyze different types of taxes.

UEC2030: INTERNATIONAL ECONOMICS

The student will be able to –

CO1: Illustrate how international economic theory has been shaped byreal world events.

CO2: Explain the working of world trade organization.

CO3: Describe the structure of Balance of payment.

CO4: Describe and analyze various kinds of exchange rate.

UEC2031: ECONOMICS OF GROWTH AND DEVELOPMENT

The students will be able to –

CO1: Analyze alternative approaches to promote development.

CO2: Explain major development problems.

CO3: Assess and justify specific policy choices.

CO4: State, analyze and evaluate various theories of development.

CO5: Describe various techniques to measure inequality.

UEC2032: INDIAN ECONOMY POST-LIBERALIZATION

CO1: Analysis Indian economic policies.

CO2: Reflect upon various economic conditions of the Indian economy.

CO3: Illustrate the major constituents of Kerala economy

CO4: Critically analyze and evaluate Indian economic reforms

UEC2033A: ELECTIVE COURSE - ECONOMICS OF SUSTAINABLE DEVELOPMENT

The students will be able to -

CO1: Critically analyze and evaluate different interpretations of sustainable development strategies.

CO2: Evaluate environmental limits to economic growth.

CO3: Synthesize environmental protection and pollution control measures.

UEC2033B: ELECTIVE COURSE HUMAN RESOURCE MANAGEMENT

Students will be able to

CO1: Analyse the relevance, functions and importance of the human resource department of an organization.

CO2: Prepare a model for Human Resource Planning for anorganization.

CO3: Identify the elements of employee performance and for jobsatisfaction.

CO4: Analyse and evaluate the HR policies of an organization.

UEC2033C: ELECTIVE COURSE TRAVEL AND TOURISM MANAGEMENT

Students will be able to

CO1: Analyse the tourism industry as a contributor to the Indian economy.

CO2: Analyse the role of different tourism bodies that aid travel management.

CO3: Provide methods to market different tourism products.

CO4: Analyse the different dimensions of tourism development atthe regional, national and global levels.

UEC2034: PROJECT

CO1: Conceptualize and undertake a research project at the under graduate level.

CO2: Apply the theoretical and technical knowledge acquired to study social, economic and political situations.

CO3: Work in groups for timely completion of similar tasks

CO4: Present the study undertaken in a clear, precise and internationally accepted format.

MASTER OF ARTS IN COMMUNICATION AND MEDIA STUDIES (MCMS)

PROGRAMME SPECIFIC OUTCOMES (PSO)

On the successful completion of the MCMS programme, the students will be able to:

PSO1: Gather and disseminate news through various media like print, radio, television and internet.

PSO2: Create, edit and design content for digital media in a professional environment.

PSO3: Conceive an idea, shoot and edit video-based fictional and non-fictional content, including radio and television commercials for broadcast.

PSO4: Coordinate and manage brand image through effective application of Public Relations and Corporate Communication.

PSO5: Identify and respond to the various legal and ethical issues that concern the field of communication and media studies.

COURSE OUTCOME

PMS2001: INTRODUCTION TO COMMUNICATION

CO1: Differentiate the phases of evolution of human communication.

CO2: Evaluate the process as well as barriers to effective communication.

CO3: Demonstrate the crucial role of nonverbal communication in all communication situations.

CO4: Categorise the different levels of communication.

CO5: Specify the divergent issues in effective communication.

PMS2002: INTRODUCTION TO JOURNALISM

On successful completion of the course, the students will be able to:

CO1: Evaluate the historical and contemporary journalistic practices.

CO2: Evaluate the functions of media.

CO3: Write content for the print media.

CO4: Produce content for the broadcast media.

CO5: Create content for the new media.

PMS2003: PRINT MEDIA JOURNALISM

On successful completion of the course, the students will be able to:

CO1: Demonstrate comprehensive understanding of the different news factors.

CO2: Apply news gathering techniques for print media.

CO3: Attain knowledge to use the technical terms of print media.

CO4: Interpret the print media content.

CO5: Create news content for print media.

PMS2004: MEDIA AND AESTHETICS

On successful completion of the course, the students will be able to:

CO1: Interpret different media designs.

CO2: Apply designing principles in media.

CO3: Evaluate print media designs.

CO4: Evaluate visual media designs.

CO5: Create media designs.

PMS2005A: CREATIVE WRITING FOR MEDIA

On successful completion of the course the student shall be able to:

CO1: Create unique content related to different media platforms.

CO2: Create powerful headlines and captions.

CO3: Create content for different forms of fiction and poetry.

CO4: Create and maintain a blog.

CO5: Create and develop research and editing skills.

PMS2005B: SPORTS JOURNALISM (ELECTIVE)

On successful completion of the course, the students will be able to:

CO1: Evaluate different sports and games.

CO2: Create content based on sports data.

CO3: Write sports content for print media.

CO4: Produce sports content for broadcast media.

CO5: Prepare sports content for the new media.

PMS2005C: SCIENCE AND ENVIRONMENTAL JOURNALISM

On successful completion of the course, the students will be able to:

CO1: Evaluate and create content based on science and environmental journalism.

CO2: Evaluate the different trends in science and environmental journalism.

CO3: Write scientific and environmental content for the print media.

CO4: Produce scientific and environmental content for the broadcast media.

CO5: Create scientific and environmental content for the new media.

PMS2006: PRINT MEDIA PRODUCTIONS (PRACTICAL)

On successful completion of the course, the students will be able to:

CO1: Apply the computer software for editing text and headlining.

CO2: apply software for computer assisted editing and proofreading.

CO3: create textual and visual content for news and features.

CO4: apply software for layout and design.

CO5: create portfolio of photo editing and designing.

PMS2007: PHOTOGRAPHY (PRACTICAL)

On successful completion of the course, the students will be able to:

CO1: Iinterpret the basics of photography.

CO2: Apply the exposure triangle in photography.

CO3: Apply framing and composition.

CO4: Apply the techniques of lighting in photography.

CO5: Create and design a portfolio of work.

PMS2008: TECHNICAL WRITING (NON-CREDIT)

On successful completion of the course, the students will be able to:

CO1: Demonstrate the proficiency in technical writing.

CO2: Apply different types of technical documentation.

CO3: Apply writing skills in different stages of technical writing.

CO4: Apply the principles of technical writing.

CO5: Create content using popular styles and standards.

PMS2009: TELEVISION JOURNALISM

On the completion of this course, the students will be able to:

CO1: Analyse ethical issues in television programmes.

CO2: Evaluate television programmes.

CO3: Create programme ideas for television.

CO4: Create scripts for television programmes.

CO5: Produce news programmes for visual media.

PMS2010: COMMUNICATION RESEARCH

On successful completion of the course, the student will be able to:

CO1: Apply different concepts of research.

CO2: Apply different techniques used for research.

CO3: Analyse different research methodology designs.

CO4: Evaluate research problems.

CO5: Analyse ethical issues of research.

PMS2011: ADVERTISING CONCEPTS AND PRACTICES

On successful completion of the course, the students will be able to:

CO1: Differentiate advertising as a professional marketing tool from publicity.

CO2: Evaluate the role of an advertising agency in the advertising business.

CO3: Critically analyse different TV commercials.

CO4: Evaluate the contribution of Indian advertising.

CO5: Create advertisements based on unique selling proposition (USP).

PMS2012A: INTIMATE JOURNALISM

On successful completion of this course, the student will be able to:

CO1: Evaluate intimate journalistic practices for specialisation.

CO2: Evaluate content using intimate journalistic principles.

CO3: Write intimate journalistic content for print media.

CO4: Produce intimate journalistic content for broadcast media.

CO5: Create intimate journalistic content for new media.

PMS2012B: MAGAZINE JOURNALISM

On successful completion of the course, the students will be able to:

CO1: Apply text, images and design to reflect industry standards.

CO2: Apply the principles of design and layout in magazine production.

CO3: Apply interview and research skills for content creation.

CO4: Create content for general and special interest magazines.

CO5: Create magazines and e-zines.

PMS2012C: EDUCATIONAL COMMUNICATION

On successful completion of the course, the students will be able to:

CO1: Analyse educational content in print and visual media.

CO2: Evaluate visual content for e-learning.

CO3: Create programme ideas for educational content in visual media.

CO4: Create script for e-learning through visual media.

CO5: Create content for educational programmes in new media.

PMS2013: TELEVISION NEWS PRODUCTION (PRACTICAL)

On successful completion of this course the student will be able to:

CO1: Create quality story concepts using their analytical skills.

CO2: Create a prepared script into a coherent television production working in a team.

CO3: Evaluate a variety of approaches to video production to develop critical thinking and self-awareness.

CO4: Apply proficiency in recording and editing for audio-visual productions.

CO5: Apply new techniques in anchoring and compering.

PMS2014: VIDEOGRAPHY AND VIDEO EDITING (PRACTICAL)

On successful completion of the course, the students will be able to:

CO1: apply different production practices in broadcast media, television and multi-camera production.

CO2: create and develop project ideas, and other pre-production materials, and produce an idea as a high-quality finished video product.

CO3: create professional video using lighting and audio recording equipment.

CO4: create and design broadcast packages by incorporating elements of sound, light and voice over.

CO5: produce videos with the help of video editing software.

PMS2015: INTERNSHIP PRACTICE I

On successful completion of the course, the student will be able to:

CO1: Analyse the work atmosphere in a media organization.

CO2: Apply theoretical knowledge to work in a media organisation.

CO3: Evaluate the different departments in a media organisation.

CO4: Create content for a media organisation.

CO5: Create a portfolio of work completed.

PMS2016: NEWS READING AND COMPERING

On successful completion of the course, the student will be able to:

CO1: Apply the skills necessary for research, develop and write news.

CO2: Apply and develop analytical and critical thinking skills for preparing news reading.

CO3: Demonstrate appropriate and credible sources for news stories.

CO4: Apply psychological determinants of effective communication.

CO5: Produce programmes for different TV formats.

PMS2017: RADIO JOURNALISM

On successful completion of the course, the student will be able to:

CO1: Apply the production skills in the preparation and distribution of content.

CO2: Create and present different types of radio programmes.

CO3: Create scripts for different types of radio programmes.

CO4: Create content for general and special interest audiences.

CO5: Create portfolio of radio programmes.

PMS2018: PUBLIC RELATIONS AND CORPORATE COMMUNICATION

On successful completion of the course, the students will be able to:

CO1: Evaluate the management of perceptions of a reputed national company.

CO2: Explain the concept and application of integrated communication in a corporate entity.

CO3: Illustrate a performance as the basis of professional public relations practice.

CO4: Apply crisis management in different situations.

CO5: Analyse the trends and issues in managing change.

PMS2019: DEVELOPMENT COMMUNICATION

On successful completion of the course, the students will be able to:

CO1: Analyse different perspectives of development.

CO2: Analyse the role of the media as a catalyst to development.

CO3: Demonstrate ability to understand development issues in different countries.

CO4: Analyse case studies of developmental communication campaigns.

CO5: evaluate different perspectives of sustainable development.

PMS2020A: INTERNATIONAL COMMUNICATION

On successful completion of the course, the students will be able to:

CO1: Evaluate the diverse aspects of cross-cultural communication.

CO2: Evaluate the role of dominant news agencies.

CO3: Analyse the contribution of ICTs in sustaining media imperialism.

CO4: Explain media convergence and its impact.

CO5: Evaluate the 'CNN effect' and the 'operation restore hope'.

PMS2020B: EVENT MANAGEMENT

On successful completion of the course, the students will be able to:

CO1: classify the different events that need to be managed

CO2: apply the principles of successful event management

CO3: evaluate the procedures involved in the effective conduct of an event

CO4: develop a set of policies for the better performance of an event

CO5: specify the key decision makers of an event

PMS2021: MULTIMEDIA PRODUCTION (PRACTICAL)

On successful completion of the course, the students will be able to:

CO1: Apply the basic principles of multimedia production.

CO2: Create multimedia content by applying basic designing principles.

CO3: Create images using sophisticated graphical tools.

CO4: Apply specialised individual multimedia design and production skills.

CO5: Design multimedia content by utilizing current technologies.

PMS2022: HEALTH, FOOD AND TRAVEL BLOGS (PRACTICAL)

On successful completion of the course, the students will be able to:

CO1: Analyse health, food and travel blogs.

CO2: Evaluate reliable sources for creating contents.

CO3: Write content for blogs.

CO4: Write scripts and produce vlogs.

CO5: Create blogs in specialised areas.

PMS2023: SOUND DESIGNING (PRACTICAL)

On successful completion of the course, the students will be able to:

CO1: Analyse sound design as both an artistic and technical process.

CO2: Create an original sound design for a short film.

CO3: Record original sound effects, background and voice recordings.

CO4: Analyse the responsibilities of a sound designer.

CO5: Apply basic editing and mixing functions in a digital audio workstation.

PMS2024: INTRODUCTION TO FILM APPRECIATION

On successful completion of the course, the student will be able to:

CO1: Apply the principles of film appreciation for analysing films.

CO2: Analyse the aesthetic elements in a cinema for research purposes.

CO3: Analyse and review films based on theories and principles.

CO4: Write content for print and new media.

CO5: Produce audio-visual programmes for broadcast media.

PMS2025: INTRODUCTION TO FILM STUDIES

On successful completion of the course, the student will be able to:

CO1: Analyse the film theories and movements.

CO2: Evaluate the popular, parallel and regional films.

CO3: Analyse cinema as a text.

CO4: Evaluate current developments of popular cinema in India.

CO5: Evaluate the technological developments of cinema.

PMS2026: MEDIA LAWS AND ETHICS

On successful completion of the course, the students will be able to:

CO1: Analyse and apply principles of media ethics.

CO2: Analyse and apply the rights and liberties of media.

CO3: Evaluate the ethical issues in the field of journalism.

CO4: Write for print media based on media laws and ethics.

CO5: Produce content for broadcast and online media based on media laws and ethics.

PMS2027: FILM THEORIES

On successful completion of the course, the students will be able to:

C01: Evaluate different film theories.

C02: Analyse the conceptualisation of film theories.

C03: Demonstrate ability to relate contemporary realities with evolving theories of cinema.

C04: Evaluate the work of film scholars and theorists.

C05: Evaluate the visual elements of international and national cinema.

PMS2028: SHORT FILM AND DOCUMENTARY PRODUCTION (PRACTICAL)

On successful completion of the course, the students will be able to:

CO1: Apply the principle modes of documentary and short film making.

CO2: Evaluate documentaries and short films.

CO3: Evaluate the different stages in documentary and short film production.

CO4: Apply filmmaking ethics and aesthetics.

CO5: Create a documentary or short film integrating all the elements of production.

PMS2029: DISSERTATION

On successful completion of the course, the students will be able to:

CO1: Develop solid academic base in the topic of research.

CO2: Apply scientific techniques and draw logical conclusions.

CO3: Analyse and synthesise research findings.

CO4: Apply theoretical frameworks to the chosen area of study.

CO5: Critically appraise and interpret existing literature.

PMS2030: COMPREHENSIVE VIVA VOCE

On successful completion of the course, the students will be able to:

CO1: Apply the integrated knowledge gathered from different courses.

CO2: Apply current knowledge about the industry.

CO3: Apply professional standards and ethics.

CO4: Demonstrate professional communication skills.

CO5: Evaluate the progress of oneself.

PMS2031: INTERNSHIP PRACTICE II

On successful completion of the course, the student will be able to:

CO1: Analyse the work atmosphere in a media organisation.

CO2: Apply theoretical knowledge to work in a media organisation.

CO3: Evaluate the different departments in a media organisation.

CO4: Create content for a media organisation.

CO5: Create a portfolio of work completed.

PMS2032: MOOC COURSE

On successful completion of the course, the students will be able to:

CO1: Apply necessary skills to implement acquired professional knowledge.

CO2: Create and deliver MOOC contents.

CO3: Create progressive skills that respond to the dynamic world.

CO4: Create new space for experimentation.

CO5: Evaluate the area of specialisation.

PMS2033: VALUE ADDED COURSE

On successful completion of the course, the students will be able to:

CO1: Evaluate the different performing arts.

CO2: Evaluate the aesthetic elements of performing arts.

CO3: create and produce different art programmes.

CO4: create/perform different art forms.

CO5: create and develop artistic aptitude.

MCOM PGDM

PROGRAMME SPECIFIC OUTCOMES

• Identify and analyze business problems and finding solutions by applying scientific methods.

• Able to explore business opportunities and translate them into sustainable, ethically responsible and globally competitive business ventures.

• Able to integrate modern technology and professionalism to meet the expectations of modern corporate world.

• Able to use domain knowledge and ICT enabled teaching technologies to pursue a career in teaching.

COURSE OUTCOME

PMM2001: ADVANCED CORPORATE ACCOUNTING

CO1: Describe and apply the various Accounting Standards in the preparation of financial Statements of MSME.

CO2: Prepare Financial Statements as per Part I Schedule III Division I of Companies Act 2013.

CO3: Describe and distinguish the conceptual framework of IFRS and Ind AS.

CO4: Prepare Financial Statements as per Part I Schedule III Division II of Companies Act 2013.

CO5: Discuss the concept of Human Resource Accounting and its approaches to its accounting process.

PMM2002: ENTERPRISES, INNOVATIONS AND SMALL BUSINESS MANAGEMENT

CO1: Understand the concepts and framework of small business enterprise.

CO2: Familiarized with managerial aspects of small business.

CO3: Apply theoretical knowledge in setting up and management of small businesses.

CO4: Formulate and implement strategies for sustained growth of small businesses.

CO5: Design innovative business models on existing and emerging business areas.

PMM2003: HUMAN RESOURCE MANAGEMENT

Students should be able to:

CO1: Analyze the nature, scope and objectives of HRM and also to assess the skills for HR professionals.

CO2: Apply scientific techniques for planning, recruitment, selection and training human resources.

CO3: Demonstrate knowledge about theories of motivation and ability to employ appropriate methods of performance appraisal in business organizations.

CO4: Assess and evaluate different leadership styles and theories.

CO5: Identify the importance of discipline in an organization and analyze causes of stress and suggest techniques for management of stress.

PMM2004: RESEARCH METHODOLOGY

CO1: Appreciate and Explain the concepts, methods and process of scientific enquiry for the creation of knowledge and development of theory.

CO2: Identify research problems and prepare research proposal/synopsis.

CO3: Explain the meaning of research design, its types and frame a research design, suitable to the type of problem under study.

CO4: Identify the various sources of data, choose and prepare a suitable data collection instrument such as questionnaire/interview schedule to elicit data required for carrying out research.

CO5: Collect data and analyze it by using appropriate statistical tools in SPSS and interpret the results.

CO6: Prepare a research report in a standard format.

PMM2005: QUANTITATIVE TECHNIQUES

CO1: Describe the basic concepts and uses of quantitative techniques in reporting and decision making in Business.

CO2: Compute and analyze the concepts of normal distributions with real data.

CO3: Apply the sampling techniques for sample selection and calculate the accuracy of the selected data by using parametric tests.

CO4: Calculate the consistency and independence of sample data by using non parametric tests.

CO5: Discuss the business cost reduction methods by using statistical quality control charts.

PMM2007: CURRENT AFFAIRS AND PROFICIENCY IN ENGLISH

CO1: Keep abreast of changes in the economic, social, political and cultural environment.

CO2: Take successfully competitive exams.

CO3: Use proficiency in English language in professional and personal life.

PMM2008: SOFT SKILL DEVELOPMENT FOR PROFESSIONAL EXCELLENCE – 1

CO1: Demonstrate communication skills effectively.

CO2: Gain self-confidence and enhance self esteem.

CO3: Make multi-media presentation effectively before different classes of audience.

CO4: Set individual career goal.

PMM2009: ADVANCED FINANCIAL ACCOUNTING

CO1: Prepare and present final accounts of holding companies.

CO2: Draw up the final accounts of public utility undertakings under Double Account system.

CO3: Maintain books of accounts of specialized types of business.

CO4: Maintain books of accounts of Service Sector organizations.

CO5: Keep abreast of recent innovations in accounting.

PMM2010: CORPORATE STRATEGIC MANAGEMENT

CO1: Deep knowledge about the basic concepts of Strategic Management.

CO2: Evaluate different types of business strategies of companies.

CO3: Capable of formulating and implementing appropriate business strategies in response to dynamic business environment.

CO4: Set vision, mission, goals and objectives for a corporate undertaking.

CO5: Use the concept of strategic evaluation for management and control of organizations.

PMM2011: PRACTICES OF MANAGEMENT AND ORGANISATIONAL BEHAVIOR

CO1: Knowledge about the functions of Management and different schools of management thought.

CO2: Apply the principles of MBO in contemporary business scenario.

CO3: Distinguish between various types of organizational structures and design organizational structure for a new business.

CO4: Apply the knowledge about theories of Organisational Behavior in contemporary business environment.

CO5: Use knowledge about the concept of organizational change and to initiate change in an organization.

PMM2012: FINANCIAL MANAGEMENT PRINCIPLES AND STRATEGIES

CO1: Knowledge about the basic concepts of financial management and ability to compute the time value of money and to design appropriate capital structure for a business.

CO2: Theoretical base in working capital management and competence to determine working capital requirements of a business organization.

CO3: Conceptual clarity about the fundamentals of inventory management and ability to solve practical problems in inventory management.

CO4: Evaluate cash management practices of business firms and suggest measures to overcome shortcomings, if any.

CO5: Appraise dividend theories to advise businesses to formulate dividend policies.

PMM2013: OPERATIONS RESEARCH

CO1: Impart knowledge in concepts, tools and models of operations research.

CO2: Apply and solve real world problems using linear programing models.

CO3: Demonstrate the usage of transportation and assignment models for decision making

CO4: Formulate appropriate strategies using decision theory, game theory and replacement theory under different situations

CO5: Applying CPM and PERT techniques to plan, schedule and control project activities

PMM2016: CURRENT AFFAIRS AND TEACHING APTITUDE

CO1: Keep abreast of changes in the economic, social, political and cultural environment.

CO2: Take successfully competitive exams.

CO3: Demonstrate the teaching aptitude and skills.

CO4: Keep informed about the institutions of higher learning and research in India.

PMM2017: SOFT SKILL DEVELOPMENT FOR PROFESSIONAL EXCELLENCE– II

CO1: Prepare resume.

CO2: Participate in Group Discussions effectively

CO3: Take job interviews confidently

CO4: Manage time systematically and effectively.

PMM2018: CORPORATE GOVERNANCE

CO4: Evaluate the current system of corporate governance prevailing on the basis of various theories and models of and recommendations made by committees on corporate governance

CO4: Explain corporate governance regulations

CO4: Examine the methods and systems to achieve corporate excellence

CO4: Justify the importance of business ethics

CO4: Construct a business model that build corporate image

PMM2019: BUSINESS ENVIRONMENT

CO1: Describe the concept of business environment and the regulatory framework.

CO2: Appraise the contemporary world economic order.

CO3: Evaluate the political and legal environment of business.

CO4: Assess socio-cultural environment, business ethics and CSR

CO5: Assess socio-cultural environment, business ethics and CSR

CO6: Evaluate the impact of international treaties and agreements on business environment India.

PMM2020: DIRECT TAXES – LAW AND PRACTICE

CO1: Able to understand the Income Tax system in India and basic concepts.

CO2: Able to compute income under various heads.

CO3: Apply rules regarding clubbing of income and set off and carry forward of losses.

CO4: Able to apply provisions regarding deductions from gross total income in tax planning.

CO5: Able to compute total income and tax liability of individuals.

PMM2021: COURSE FINANCIAL ANALYSIS AND REPORTING

CO1: Identify accounting information and tools for business decision making.

CO2: Compute and interpret different ratios for business decision making.

CO3: Prepare and present fund flow statement.

CO4: Prepare and present cash flow statement

CO5: Prepare report on financial state of affairs to the stakeholders

PMM2022: INTERNATIONAL FINANCE AND BUSINESS

CO1: Identify and assess the significance of and issues related to international financeand liquidity.

CO2: Evaluate the contemporary international trade scenario and foreign exchangeactivities

CO3: Evaluate theories of international business

CO4: Achieve high level knowledge about various aspects of the internationalmonetary system.

CO5: Gain the capacity to evaluate contemporary international trade treaties

PMM2022: OPERATIONS MANAGEMENT

CO1: Describe the concept of operations management and productivity

CO2: Understand and apply concepts of quantitative and qualitative models in Operations Management.

CO3: Apply skills of modelling, managing and optimizing operations inmanufacturing and service organizations.

CO4: Utilize a variety of quantitative and qualitative methods and tools for managingand improving operations decisions.

CO5: Identify the role and responsibilities of operations managers in different organizational contexts.

PMM2024: CURRENT AFFAIRS AND LOGICAL REASONING

CO1: Keep abreast of changes in the economic, social, political and cultural environment

CO2: Take competitive exams like UGC NET, SET, Bank PO, etc confidently

CO3: Develop a logical bend of mind to solve problems.

PMM2025: SOFT SKILL DEVELOPMENT FOR PROFESSIONAL EXCELLENCE -III

CO1: Develop inter-personal skills.

CO2: Use leadership skills to build team at workplace.

CO3: Identify and evaluate alternative course of actions and select the appropriateone to accomplish the task

PMM2028: ADVANCED COST ACCOUNTING

CO1: Apply principles of marginal costing for business decision making.

CO2: Apply the technique of standard costing for cost control.

CO3: Prepare budgets to monitor and evaluate financial performance.

CO4: Apply the concept of activity-based costing for decision making.

CO5: Assess contemporary Issues and recent developments in cost accounting

PMM2029: TAXATION – ASSESSMENT & PROCEDURES

CO1: Competency to compute taxable income and tax liability of individuals, firms,Association of

CO2: Persons and Body of Individuals in accordance with the provision of the IncomeTax Act.

CO3: Compute the total income and tax liability of companies.

CO4: Knowledge about different types of income tax return and assessment. Knowledge about the

CO5: Income Tax regime in India and provisions of the Income Tax Act regardingmodes of payment of tax.

CO6: Awareness about the provisions of the Income Tax Act regarding survey, searchand seizure, offences and penalties etc.

PMM2030: GOODS AND SERVICES TAX

CO1: Understand the fundamental principles and rationale of indirect tax system withspecial reference to GST.

CO2: Know the "place of supply rules" and applicability of the same under GST.

CO3: Getting familiar with the technology and the flow of return filing under GST.

CO4: Compute the assessable value of transactions related to goods and services. File GST returns.

PMM2031A: FINANCIAL DERIVATIVES AND RISK MANAGEMENT

CO1: Understand theoretical framework of derivatives and able to use derivativeinstruments effectively for hedging risk

CO2: Use different models of pricing to determine the price of forward contract.

CO3: Calculate price of futures contract by using different pricing models

CO4: Use different pricing models to compute the value of options.

CO5: Apply swaps to exploit comparative advantage to obtain low cost borrowing.

PMM2031B: STRATEGIC FINANCIAL MANAGEMENT

CO1: Identify and evaluate business projects using financial management tools.

CO2: Understand the techniques used to analyse investment proposals.

CO3: Assess and measure risks associated with investment proposals.

CO4: Advise prospective investors on various investment opportunities.

CO5: Design appropriate portfolio for investors.

PMM2032A: SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT

CO1: Evaluate various investment avenues

CO2: Carry out a fundamental analysis of to determine the intrinsic value of securities.

CO3: Employ technical analysis to predict future price movements of securities.

CO4: Manage portfolios and make appropriate decision in the area of portfoliomanagement.

CO5: Evaluate and revise the portfolios.

PMM2032B: MANAGEMENT AUDIT AND COST AUDIT

CO1: Understand the basic concepts of cost audit and management audit.

CO2: Maintain cost records as per Generally Accepted Accounting Principles.

CO3: Prepare Cost Audit report in compliance with statutory obligations.

CO4: Evaluate the performance of an organization through cost accounting standards.

CO5: Design appropriate course of action for optimal utilization of scarce resourcesto improve productivity.

PMM2034 CURRENT AFFAIRS AND NUMERICAL ABILITY

CO1: Keep abreast of changes in the economic, social, political and cultural environment

CO2: Take competitive exams like UGC NET, SET, Bank PO, etc. confidently

CO3: Improve numerical skill

CO4: Solve arithmetic problems speed and accuracy

PMM2035: SOFT SKILL DEVELOPMENT FOR PROFESSIONAL EXCELLENCE – IV

CO1: Develop inter-personal skills.

CO2: Use leadership skills to build team at workplace.

CO3: Identify and evaluate alternative course of actions and select the appropriateone to accomplish the task.

CO4: Manage occupational stress

MASTER OF MANAGEMENT AND HOSPITALITY

PROGRAMME SPECIFIC OUTCOMES (PSO)

On completion of the MMH programme the learners will

PSO1: Apply knowledge and skills required for managing different functions in the hospitality and tourism sector*

PSO2: Value the Indian socio-cultural ethos and develop competencies for multinational job assignments in hospitality and tourism.

PSO3: Demonstrate communication and interpersonal skills required for excellence in the hospitality and tourism industry and society at large.

PSO4: Analyse problems and make ethical decisions as upcoming leaders in hospitality and tourism industry.

PSO5: Develop awareness of their strengths and engage their autonomy to enhance their professional skillset and innovation in hospitality and tourism.

COURSE OUTCOME

PMH2001: MANAGEMENT PRINCIPLES AND PRACTICES

After the completion of the course, the students will be able to

CO1: Apply the theories of directing function of management in real life like situations.

CO2: Develop an organization structure ideal for different types of hotels.

CO3: evaluate and compare the different plans (mission, vision, corevalues etc.) of tourism enterprises and analyze its relationship to its core business.

CO4: Formulate appropriate strategies for implementing control systems in output, behavioral and culture & clan control.

CO5: Distinguish various types of hospitality and tourism organizations and its linkages with other businesses.

PMH2002: ADVANCED ENGLISH FOR MANAGERIAL COMMUNICATION

After the completion of the programme the students shall be able to:

CO1: Demonstrate listening skills relevant to business situations.

CO2: Demonstrate the ability to start and sustain oral communication.

CO3: Design and deliver business presentations using multimedia tools.

CO4: Distinguish speeches for different purposes, draft and deliverspeeches to suit particular audiences and purposes.

CO5: Write brief and long messages relevant to business contexts.

PMH2003: RESEARCH METHODS AND QUANTITATIVE TECHNIQUES

After the completion of the course the students will:

CO1: Develop research orientation and soft skills like criticalthinking, logical reasoning, problem solving etc.

CO2: Conduct scientific research in hospitality industry using appropriate methods.

CO3: Apply statistical tools and software for data analysis, interpretation, referencing, etc.

CO4: Produce research articles and theses addressing the problems inthe society.

CO5: Awareness about the importance of research in improving thestandard of living of the people and the nation building.

PMH2004: ACCOUNTING AND FINANCE MANAGEMENT

After completing the course, the students shall be able to:

CO1: To prepare ledger books based business transactions.

CO2: To draft basic financial statements.

CO3: To evaluate the financial performance of a business.

CO4: To apply principles of budgeting in organizational context.

CO5: To apply techniques of management and cost accounting to make sound managerial decisions.

PMH2005: ORGANISATIONAL BEHAVIOUR

Upon completion of this course, the students will be able to

CO1: Analyse individual and group behaviour, and understand the implications of organizational behaviour on the process of management.

CO2: Apply different motivational theories by understanding personality types and comparing motivational strategies used in a variety of organizational settings.

CO3: Evaluate the appropriateness of various leadership styles and conflict management strategies used in organizations.

CO4: Understand how organizational change and culture affect working relationships within organizations.

CO5: Design strategies to manage professional and personal life inhospitality tourism organisations.

PMH2006: PROFESSIONALISM AND LEADERSHIP DEVELOPMENT-I

After completion of the Course the learners will

CO1: Develop conceptual knowledge and hands-on experience of the subject. dealt with in the professional development workshop.

CO2: Demonstrate the ability to apply the knowledge in relevant areas.

CO3: Initiate reflective practices for personal development and apply insights. from training in psychological models and concepts for developing leadership skills.

CO4: Assemble an individualised learner portfolio that show cases one's learning projects, competencies and accomplishments.

PMH2007: VIVA VOCE

The students will be able to

CO1: Illustrate the Integrated understanding of the knowledge gathered from the various courses in the Semester

CO2: Demonstrate current knowledge about the industry

CO3: Assimilate information from different domains and show capability to apply it to managerial decision making.

CO4: Demonstrate professional communication skills.

PMH2008: MANAGERIAL ECONOMICS

After the completion of the programme the students must be able:

CO1: To apply economic reasoning to micro and macroeconomic policy issues in a critical manner

CO2: To evaluate how the price and other determinants influence demand supply situation

CO3: To assess how the production policies of a firm impacts itssurvival and market dominance

CO4: To analyse how the competitive structure of a market impacts the cost revenue strategies of a firm

CO5: To synthesise market reports and justify the macro-economic significance of tourism industry

PMH2009: HUMAN RESOURCE MANAGEMENT

After successful completion of the course, students should be able:

CO1: To analyse the effectiveness of appropriate recruiting & selection methods.

CO2: To design a training program by evaluating training needs, designing a training program, and evaluating training results.

CO3: To properly interpret salary survey data and design a pay structure with appropriate pay grades and pay ranges and to design a viable performance-based pay system.

CO4: To demonstrate knowledge of employee benefit & wellness concepts, and regulations governing employee benefit practices.

CO5: To build a strong analytical, communication, and decision making skills mandatory for an HR professional in the hospitality sector.

PMH2010: OPERATIONS MANAGEMENT-HOTELS AND RESTAURANTS

After the completion of the programme the students must be able:

CO1: Able to develop plan of action for hotel and resort classifications under Ministry of tourism guidelines as a consultant.

CO2: Can replicate hotel check in and checkout procedures forvarious types of situations.

CO3: Can demonstrate hotel room cleaning procedures.

CO4: will able to suggest menu planning for different occasions in hospitality industry

CO5: explain the process in food and beverage operations and preparation to a potential guest interested in a food and beverage menu

PMH2011: CULTURAL HERITAGE AND TOURISM MANAGEMENT

After completion of the course, the students will:

CO1: Manage tourists/people evaluating the behaviour based on their cultural background

CO2: Apply the guidelines by government/national/international agencies on cultural tourism in local/ regional/ national/ international context.

CO3: Identify potential cultural products and create cultural tourismmodels

CO4: Promote indigenous cultural resources for tourism with focus on sustainability.

CO5: Appreciate gender roles in the hospitality industry.

PMH2012: CORPORATE COMMUNICATION AND PUBLIC RELATIONS

After the completion of the programme the students shall be able to:

CO1: Design campaigns targeting different stakeholders in the hospitality and tourism industry

CO2: Develop content, tools and creatives for Public relations in the age of internet, social media, print and electronic media.

CO3: Demonstrate analytical ability to interpret socio-politico- environmental reality through media data gathering and analysis

CO4: Apply strategies for communicating during times of crisis,transitions and managing issues.

CO5: Apply public relations strategies and techniques of stakeholder Communication.

PMH2013: PROFESSIONALISM AND LEADERSHIP DEVELOPMENT-II

After completion of the Course the learners will

CO1: Develop conceptual knowledge and hands-on experience ofthe subject dealt with in the professional development Workshop.

CO2: Demonstrate the ability to apply the knowledge in relevantareas.

CO3: Initiate reflective practices for personal development andapply insights from training in psychological models and concepts for developing leadership skills.

CO4: Assemble an individualised learner portfolio that showcases one's learning projects, competencies and accomplishments.

PMH2014: INTERNSHIP-I AND PROJECT REPORT

CO1: Apply knowledge and skills in functional areas of Management

CO2: Identify organizational structure and management systems through experiential learning and build relationship with prospective employer

CO3: Recognize strengths and weakness through practical experience and mentoring from the industry experts

CO4: Identify issues and suggest solutions through scientific research in the industry and society

CO5: Build new knowledge and enhance academic scenario through research and publications

PMH2015: Viva Voce

The students will be able to

CO1: Illustrate the Integrated understanding of the knowledge gathered from the various courses in the Semester

CO2: Demonstrate current knowledge about the industry

CO3: Assimilate information from different domains and show capability to apply it to managerial decision making.

CO4: Demonstrate professional communication skills

PMH2016: LEGAL ASPECTS OF BUSINESS

After the completion of the course students will be able to

CO1: Appraise various legal formalities to be complied while discharging business responsibilities in hospitality and tourism

CO2: Understand laws applicable in his/her career after MMH and be a law abiding citizen.

CO3: Grasp the legal implications while dealing with a customer as ahotelier.

CO4: Sensitive about laws relating to employment of people

CO5: Apply legal and contractual obligations in financial transactions as a corporate citizen.

PMH2017: TRAVEL AND TOURISM MANAGEMENT

After the completion of the course, the students shall be able:

CO1: To analyse the multi-disciplinary implications of travel phenomena and travel motivations

CO2: To evaluate the advances in transport to sector to deliver appropriate travel experiences to tourists considering the time cost constraints.

CO3: To acquire necessary tour operation and guiding skills to effectively manage a tourism business

CO4: To develop a detailed itinerary for national and international tour to specific destinations

CO5: To evaluate how business tourism contributes to the regionaleconomy

PMH2018: MARKETING MANAGEMENT

On successful completion of this course, students will be able:

CO1: Understand the marketing mix of hospitality and tourismbusinesses.

CO2: Decide on the segmentation strategy, target and positioning of a hospitality product

CO3: Understand the buyer behaviour and be able to positivelyrespond to customer needs.

CO4: Suggest methods of promotion and pricing of different tourism products.

CO5: Evaluate marketing strategies of tourism enterprises andsuggest solutions and to develop an outline of a marketing plan

PMH2019: CULTURAL TOURISM RESOURCES & PRODUCT DEVELOPMENT

After completion of the course the students will exhibit the following skills:

CO1: Ability to describe about specific cultural products under tangible and intangible cultural resources in India

CO2: Apply standard tools to assess cultural products and evaluateits potential for cultural tourism

CO3: Demonstrate skill to develop cultural resources as cultural tourism resources

CO4: Conduct researches and suggest solutions on the issues in cultural tourism for a better tourism experience.

CO5: Assist local people to use their cultural resources in tourismmarket so as to lift quality of their living

PMH2020: COMMUNICATION COMPETENCIES FOR PROFESSIONAL ADVANCEMENT

CO1: Demonstrate effective employment communication in terms ofwriting and conversing.

CO2: Apply reflective knowledge required for developing personalskills.

CO3: Demonstrate interpersonal communication competence neededin business contexts

CO4: Apply Group Communication Skills for effective leadership

CO5: Become sensitized about the complexities of communication in the globalized world and demonstrate skills required for multi-cultural communication and for managing business meetings.

PMH2021: PROFESSIONALISM AND LEADERSHIP DEVELOPMENT-III

After completion of the Course the learners will

CO1: Develop conceptual knowledge and hands-on experience ofthe subject dealt with in the professional development Workshop.

CO2: Demonstrate the ability to apply the knowledge in relevantareas.

CO3: Initiate reflective practices for personal development andapply insights from training in psychological models and concepts for developing leadership skills.

CO4: Assemble an individualised learner portfolio that showcases one's learning projects, competencies and accomplishments.

PMH2022: INTERNSHIP-II

After the completion of the course the students will be able to:

CO1: Apply knowledge and skills in functional areas of Management

CO2: Identify organizational structure and management systems through experiential learning

CO3: Build relationship and network with prospective employers

CO4: Recognize strengths and weakness through practical experience and mentoring from the industry experts

CO5: Recognize industrial standards through observation and involvement

PMH2023: VIVA VOCE

The students will be able to

CO1: Illustrate the Integrated understanding of the knowledge gathered from the various courses in the Semester

CO2: Demonstrate current knowledge about the industry

CO3: Assimilate information from different domains and show capability to apply it to managerial decision making.

CO4: Demonstrate professional communication skills

PMH2024: INFORMATION TECHNOLOGY AND E-COMMERCE

After the completion of the course students will be able:

CO1: To evaluate the potential role of E- Commerce, PMS and GDS in hospitality and tourism

CO2: To use spreadsheet packages for excel and provide appropriateanalysis

CO3: To be able to configure and use of mail management softwarelike outlook and be able to do mail merge options

CO4: To create a digital marketing plan for an upcoming or existing travel and hospitality business

CO5: To develop basic skills for creating an online business

PMH2025: DESTINATION PLANNING, DEVELOPMENT AND MANAGEMENT

Upon completion of this course, the students will

CO1: To demonstrate the understanding of the process involved in development of plan for destination development

CO2: To develop systems required for management of tourist attractions in a destination

CO3: To demonstrate necessary research skills to analyse various dimensions of tourism

CO4: To critically evaluate the factors leading to formation of image of a destination

CO5: To assess the effectiveness of organisational and administrative mechanisms in promotion of tourism in destinations

PMH2026: STRATEGIC LEADERSHIP AND CHANGE MANAGEMENT

After the completion of the course the students will be able to:

CO1: Understand the relationship between strategic management andleadership in an organizational context.

CO2: Apply management and leadership theory to support organizational direction.

CO3: Understand the impact of leadership styles and how leadership style can be adapted to different situations and to exhibit various leadership skills at various levels of organisation.

CO4: Comprehend the background to organizational strategic changeand issues relating to change in an organization.

CO5: Plan and implement models for ensuring ongoing changes.

PMH2027: ENTREPRENEURSHIP DEVELOPMENT AND PROJECT MANAGEMENT

After completing the course, the students must be able:

CO1: To evaluate the influence of various entrepreneurial competencies on business performance of SMEs and develop frameworks for conducting a typical EDP

CO2: To generate innovative business idea and analyse its potential market and demand feasibility

CO3: To evaluate the various funding options and choose the most suitable one for a given business

CO4: To apply various risk management strategies for anentrepreneurial project

CO5: To create a business plan for an entrepreneurial venture and

identify an inventory of possible entrepreneurial opportunities in contemporary local, regional and national context

PMH2028: INTERNSHIP-III AND PROJECT REPORT

After the completion of the course the students will be able to:

CO1: Apply knowledge and skills in functional areas of Management

CO2: Identify organizational structure and management systems through experiential learning and build relationship with prospective employer

CO3: Recognize strengths and weakness through practical experience and mentoring from the industry experts

CO4: Identify issues and suggest solutions through scientific research in the industry and society

CO5: Build new knowledge and enhance academic scenario throughresearch and publications

PMH2029A: GLOBAL TOURISM GEOGRAPHY

After completing the course, the students will:

CO1: Apply different approaches to study tourism geography

CO2: Read, interpret, and generate maps and other geographic representations (latitude, longitude, flying time calculations as well as extract, analyse, and present information from a spatial perspective)

CO3: Locate and identify the countries, main cities and physicalfeatures of the world with particular emphasis on Europe, America, Middle East, Asia and Africa

CO4: Identify key tourism attractions from an international and global dimension with reference to its spatial, social, cultural, legal, political,labour and economic aspects.

CO5: Conduct local/ regional/ national/ international tours.

PMH2029B: OPERATIONS MANAGEMENT FOR HOSPITALITY AND TOURISM

CO1: To empower students to meet challenges and contingencies in managing hospitality business

CO2: To comprehend the hotel sales process and be able todistinguish different scenario.

CO3: To suggest unit level different marketing options for hospitality business.

CO4: To create appropriate F & B sales strategies for business queries.

CO5: to be familiar to the complexity and processes involved in apossible

career in purchase and stores of hospitality and tourism.

PMH2029C: EVENT MANAGEMENT

CO1: Apply the basic elements of events management.

CO2: Analyze the steps to execute an event.

CO3: Recognize the significance of Meeting Incentives Conferences and Exhibitions to the economy.

CO4: Illustrate the nuances of marketing and promotion of events.

CO5: Assess the importance of trade fairs and trade fair destinations.

PMH2029D: AIRFARES AND AIRLINES MANAGEMENT

CO1: Recognize the structure and dynamics of Airlines industry.

CO2: develop a fundamental idea of how passengers are handled in the airport during arrival and departure.

CO3: Design various types of airline itineraries.

CO4: Analyze the process and procedures involved in issuance ofairline tickets

CO5: Estimate the airfares for passengers travelling to domestic andinternational destinations

PMH2029E: BUSINESS ENVIRONMENT AND CORPORATE ETHICS

CO1: To analyze of the broader socio-political and economic environment within which they will operate as managers

CO2: To evaluate the interaction between the economy, polity, society and ethical practices in historical perspective

CO3: To design strategies based on internal and external factors as well as institutions and policies, influencing business.

CO4: Appraise the need and importance if corporate governanceand business ethics.

PMH2029F: FINANCE AND REVENUE MANAGEMENT

CO1: To apply various revenue management techniques for a hospitality business.

CO2: To scientifically estimate the demand for a hospitality andtourism business.

CO3: To prepare various budgets and estimate the key performance indicators for hotel business.

CO4: To methodically identify the pricing strategies for various hospitality services and products.

CO5: To estimate the requirement of working capital for a hospitality establishment.

PMH2030: FIELDTRIP AND LEARNING REPORT

CO1: Prepare tour itinerary for national and international destinations.

CO2: Organize and manage tour operations.

CO3: Analyze the relationship between industries and travel.

CO4: Work as team player in organizations and the society.

CO5: Express entrepreneurial skills suitable for hospitality sector.

PMH2031: COMPREHENSIVE VIVA VOCE

CO1: Illustrate the integrated understanding of the knowledge gathered from the various courses in the program.

CO2: Demonstration a wide gamut of current knowledge about the industry.

CO3: Assimilate information from different domains and show

capability to apply it to managerial decision making.

CO4: Demonstrate professional communication skills.

PMH2032: INTERNSHIP –IV (AUDITED)

CO1: Apply knowledge and skills in functional areas of management

CO2: Identify organizational structure and management systems through experiential learning and build relationship with prospective employe.r

CO3: Recognize professional strengths and build on them through

practical experience and mentoring from the industry experts

CO4: Make a headway towards right career choices by earning relevant industry experience.

PHYSICS

PROGRAMME SPECIFIC OUTCOMES: (PSOs)

PSO1: Demonstrate proficiency in problem-solving techniques using the computation techniques.

PSO2: Develop the fundamental theories, concepts and applications in different basic areas of chemistry.

PSO3: Ability to apply fundamentals of electronics in various domains of electronic systems.

PSO4: Understand the diverse applications of various fields of applied science and carry the knowledge and applications of basic sciences to community.

PSO5: Develop in depth knowledge in specialization area Quantum Nanostructures/Flexible Electronics.

PSO6: Develop communication skills for reporting the results in journals and oral presentation.

COURSE OUTCOME

IPH2001: MECHANICS

CO1: Apply particle dynamics, conservation laws and the theories of collisions.

CO2: Discuss inverse square law of force and central force motion.

CO3: Explain the harmonic motion, different types of oscillators.

CO4: Explain the material properties like elasticity and fluid dynamics.

CO5: Identify the basics of classical mechanics.

IPH2002: THERMAL PHYSICS

CO1: Explain laws of thermodynamics zeroth law, first law and second low

CO2: Explain the concept of ideal gas, heat engine.

CO3: Explain the concepts based on entropy and Maxwell's equations.

CO4: Define the basics of statistical formulations.

IPH2003: BASIC ELECTRONICS

CO1: Explain the fundamentals of diodes, circuits and its applications.

CO2: Explain the basics of transistor properties, biasing and circuit design.

CO3: Apply the theory and working of amplifiers and oscillator circuits.

CO4: Explain the principle, working and application of devices like Field Effect Transistor, Uni Junction Transistor and operational amplifiers.

CO5: Illustrate the Amplitude Modulation and Frequency Modulation and demodulation.

IPH2009: RELATIVITY, WAVES AND OPTICS

CO1: Explain the preliminary concepts of different frame of references.

CO2: Explain the basic concepts of relativity.

CO3: Illustrate the superposition of oscillations.

CO4: Explain the nature of travelling waves and stationary waves.

CO5: Explain the details of geometrical optics and optical components.

IPH2010: BASIC ELECTRODYNAMICS

CO1: Explain the electrostatic fields and potentials of physical systems and electric properties of matter.

CO2: Explain the properties of electric steady current and different network theorems.

CO3: Calculate the magneto static field associated with a steady current.

CO4: Explain the magnetic properties of matter.

CO5: Differentiate Laplace's equation, method of images.

CO6: Distinguish the properties of electromagnetic induction and time dependent fields.

CO7: Explain the properties of time dependent electric circuits.

CO8: Explain the Maxwell's equations and electromagnetic waves.

IPH2018: MATHEMATICAL PHYSICS

CO1: Discuss the solution of first and second order differential equations.

CO2: Demonstrate the skills of modelling physical problems in terms of differential equations.

CO3: Describe the theoretical framework of the existence and uniqueness of solutions.

CO4: Describe the behavior non linear systems and its stability.

CO5: Solve numerically initial value problems described by differential equations.

IPH2019: CLASSICAL ELECTRODYNAMICS

CO1: Explain the properties of electromagnetic waves, interaction in a medium and at interface.

CO2: Understand the details relativistic electrodynamics.

CO3: Able to explain the properties and behavior of different sources of radiation.

CO4: Explain the properties of wave guide, transmission line and guided wave.

IPH2020: MODERN OPTICS

CO1: Analyze the details of interference and interferometry.

CO2: Analyze the details of Fresnel's and Fraunhofer diffraction and its applications.

CO3: Explain the polarization of light and associated properties.

CO4: Explain the coherence nature of optical sources.

CO5: Illustrate matrix method for the analysis of optical systems.

IPH2028: MATHEMATICAL PHYSICS – II

CO1: Demonstrate the method of power series to solve differential equations

CO2: Discuss the properties of special function

CO3: Understand various partial differential equations in physics and their solutions.

CO4: Demonstrate the skills in applying the methods of Fourier series and Laplace transforms.

CO5: Understand the variational problem and Euler's equation and its applications in physics.

IPH2029: BASIC QUANTUM MECHANICS

CO1: Analyze the development of quantum mechanics.

CO2: Explain the basics and postulates of quantum mechanics.

CO3: Interpret Schrodinger equation and harmonic oscillators.

CO4: Observe the application of quantum mechanics.

Prerequisites: Student should have essential knowledge of Algebra, Calculus and Newtonian Mechanics.

IPH2037: MATHEMATICAL PHYSICS – III

CO1: Define complex numbers and their properties.

CO2: Describe the fundamental properties of analytical functions.

CO3: Demonstrate the skills in applying contour integrals.

CO4: Demonstrate skills in applying Taylor and Laurent series.

CO5: Demonstrate the skills in applying residue theorem.

Prerequisites : Basic knowledge in mathematics, complex variables.

IPH2038: SOLID STATE PHYSICS

CO1: Explain the basic idea bout crystal structures and X-ray diffraction.

CO2: Identify theories of inter-atomic forces and thermal properties in metals.

CO3: Explain the free electron model, Bloch's theorem & energy bands and theory of semiconductors.

CO4: Explain the dielectric&magnetic properties of materials and superconductivity.

Prerequisites: Basic concepts of Quantum Mechanics and basic mathematics.

IPH2039: ATOMIC AND MOLECULAR PHYSICS

CO1: Explain the early developments of different atom models and atomic spectra.

CO2: Explain the concept of molecular structure.

CO3: Explain the origin and properties of molecular spectra.

CO4: Illustrate the theory of Raman Spectroscopy

CO5: Illustrate Nuclear Magnetic Resonance and Electronic Spin Resonance spectroscopy and its instrumentation.

Prerequisites: Basics courses in Mathematics and Quantum mechanics

IPH2046: MATHEMATICAL PHYSICS – IV

CO1: Discuss basic properties of matrices and linear transformation.

CO2:Determine eigen values and eigen vectors and its applications.

CO3: Understand the definition of tensors and their properties.

CO4: Demonstrate skills in describing four vectors in special relativity.

CO5: Describe basic framework of tensor calculus and general relativity.

Prerequisites : Basic knowledge in mathematics, algebra

IPH2047: NUCLEAR AND PARTICLE PHYSICS

CO1: Understand the interior of nucleus and interaction between nucleons.

CO2: Explain the theory of radioactivity.

CO3: Understand the interaction of radiation with matter.

CO4: Explain the fundamentals of particle accelerator and nuclear energy.

CO5: Explain on particle physics.

Prerequisites: Basic mathematics and quantum mechanics.

IPH2048: CLASSICAL MECHANICS

CO1: Explain Hamiltonian mechanics, variational principle and Lagrange's equations.

CO2: Apply small oscillations and rigid body dynamics.

CO3: Explain Canonical Transformations, Hamilton-Jacobi theory and central force problems

CO4: Illustrate Fluid dynamics

Prerequisites: Basic knowledge in mathematics and physics

IPH2055: ADVANCED ELECTRONICS

CO1: Studies the fundamentals of Op amp and properties & effect of negative feedback.

CO2: Studies the various applications of Op amp and circuits.

CO3: Studies the properties of different transducers and devices using it.

Prerequisites: Basic knowledge in mathematics, electronics and physics.

IPH2056: STATISTICAL MECHANICS

CO1: Understand the foundations of statistical mechanics.

CO2: Explain the classification of identical particles and Maxwell distribution.

CO3: Illustrate the Planck distribution and quantum statistics.

CO4: Explain the characteristics of Phase transitions, fluctuations and interacting systems.

IPH2057: ADVANCED QUANTUM MECHANICS

CO1: Explain the basic mathematical tools of Quantum Mechanics

CO2: Explain the theoretical frame work of quantum mechanics

CO3: Illustrate the angular momenta and its addition.

CO4: Describe the necessity of approximation methods and time independent techniques.

IPH2058: CONDENSED MATTER PHYSICS

CO1: Illustrate crystal structure and symmetry.

CO2: Explain free electron theory, band theory of materials.

CO3: Illustrate imperfections and dislocations in crystals.

CO4: Explain Lattice dynamics of solid and magnetic properties of solids.

CO5: Explain details of nanomaterials.

Prerequisites : Basic knowledge inmathematics , physics and solid state physics

IPH2062: MATHEMATICAL PHYSICS – V

CO1: Understanding of advanced methods of solution of differential equations.

CO2: Demonstrate the skills in applying the concepts of special functions.

CO3: Describe partial differential equation in physics and their solutions.

CO4: Demonstrate skills in formulating integral equations and their solutions.

CO5: Describe the properties of probability distributions apply statistical tools

IPH2063: ADVANCED ATOMIC AND MOLECULAR PHYSICS

CO1: Explain the theory atomic spectroscopy.

CO2: Explain the theory and application of microwave and IR spectroscopy.

CO3: Explain the theory and instrumentation of Raman spectroscopy and Electronic Spectroscopy of molecules.

CO4: Explain the theory and instrumentation of ESR and Mossbauer Spectroscopy.

IPH2064: ADVANCED QUANTUM MECHANICS - II

CO1: Explain the principles of time dependent perturbations.

CO2: Explain the phenomena of scattering in quantum mechanical view.

CO3: Explain relativistic formulations of quantum mechanics.

CO4: Explain the second quantization principles.

IPH2065: ASTRONOMY AND ASTROPHYSICS

CO1: Observe different constellations and classify stars accordingly.

CO2: Explain the basics of seasonal changes.

CO3: Interpret the fundamental equations in stellar evolution.

CO4: Analyze basic theories of formation of solar system.

CO5: Discuss criterion, formation and evolution of stellar objects.

CO6: Understand basics of Milky Way and other extra galactic systems.

IPH2006: PHYSICS LAB- MECHANICS AND THERMAL PHYSICS

CO1: Demonstrate experiments in mechanics, solid material properties, fluids, thermal Physics, thermal properties.

IPH2013: PHYSICS LAB - WAVES, OPTICS, ELECTRICITY & MAGNETISM

CO1: Demonstrate experiments of sound, waves and Optics & Electricity, magnetism and electrical circuits.

IPH2021: PHYSICS LAB- COMPUTATIONAL PHYSICS LAB – I

CO1: Apply the mathematical concepts to formulate a computational problem.

CO2: Demonstrate skills in writing computer programs, executing it and interpreting the results.

IPH2022: PHYSICS LAB- ELECTRONICS, MODERN OPTICS AND ELECTRODYNAMICS

CO1: Demonstrate experiments using semiconducting diodes, transistors, ICs 555, 741 and demonstrate experiments of optics and electromagnetic waves.

IPH2030: PHYSICS LAB- COMPUTATIONAL PHYSICS LAB – II

CO1: Apply the mathematical concepts to formulate a computational problem.

CO2: Demonstrate skills in writing computer programs, executing it and interpreting the results.

IPH2031: PHYSICS LAB - MECHANICS AND BASIC QUANTUM MECHANICS

CO1: Demonstrate experiments in Mechanics, modern physics and basic concepts of quantum mechanics.

IPH2040: PHYSICS LAB- COMPUTATIONAL PHYSICS LAB – III

CO1: Apply the mathematical concepts to formulate a computational problem.

CO2: Demonstrate skills in writing computer programs, executing it and interpreting the results.

IPH2041: PHYSICS LAB- SOLID STATE PHYSICS AND ATOMIC & MOLECULARPHYSICS

CO1: Demonstrate experiments in solid state physics, semiconductors, conductors, insulators, atomic and molecular spectroscopy.

IPH2049: PHYSICS LAB- COMPUTATIONAL PHYSICS LAB – IV

CO1: Apply the mathematical concepts to formulate a computational problem.

CO2: Demonstrate skills in writing computer programs, executing it and interpreting the results.

IPH2050: PHYSICS LAB- CLASSICAL MECHANICS AND NUCLEAR PHYSICS

CO1: Demonstrate experiments using GM counter and verification of problems in nuclear physics by numerical techniques and demonstrate experiments mechanics and computational analysis of mechanical systems.

.

IPH2059: PHYSICS LAB- ADVANCED ELECTRONICS

CO1: Demonstrate experiments using transistors, ICs and simulation of electronic circuits.

IPH2060: PHYSICS LAB- STATISTICAL MECHANICS LAB (SIMULATIONS)

CO1: Demonstrate simulations of statistical systems.

IPH2066: PHYSICS LAB- CONDENSED MATTER PHYSICS

CO1: Demonstrate experiments in solid state physics.

IPH2067: PHYSICS LAB- QUANTUM MECHANICS (SIMULATIONS)

CO1: Demonstrate simulations of quantum mechanical systems and principles.

IPH2051A: FLEXIBLE ELECTRONICS

CO1: Categorize the printed electronics and its possibilities in the industry.

CO2: Explain varies flexible electronics products and its challenges.

CO3: Establish about different derivatives in the process and methods used in flexible electronics.

CO4: Describe the opportunities of various flexible electronics applications and products.

IPH2052A: PHYSICS LAB- FLEXIBLE ELECTRONICS

CO1: Develop characterization of optoelectronic devices.

CO2: Design and perform fabrication of energy saving/efficient flexible lamp devices.

CO3: Characteristics of printed diodes.

CO4:Characteristics of printed capacitors.

CO5: Characteristics of photovoltaic cells

CO6:Characteristics of photodiode

CO7: Characterization of Organic Light Emitting Diode

CO8:Characterization of inverted solar cell

CO9: Energy efficency circuit design

C010:ESFL tooling and blending

IPH2051B: NANOSCIENCE AND NANOTECHNOLOGY

CO1: Develop the basics of nanomaterials.

CO2: Illustrate the synthesis of zero, one, two dimensional nanomaterials.

CO3: Illustrate the electronic and photonic application of nanomaterials.

CO4: Illustrate the nanomaterial characterization techniques.

Prerequisites: Basic physics, mathematics and chemistry.

IPH2052B: PHYSICS LAB- NANOMATERIALS

CO1: Report characterization of nanomaterials.

CO2: Design characterization of nanomaterials.

CO3: Determination of lattice parameters using X-power defraction for cubic systems.

CO4: Determination of lattice strain and particle size from X-power defraction.

CO5: Preparation of nanoparticles by Sol Gel method.

CO6: Preparation of nanoparticles embedded polymers: Optical properties

CO7: Preparation of thin film by chemical bath deposition: Optical properties.

CO8: Dip coating: Preparation of multilayer films

CO9: Optical properties of thin films prepared by Physical Vapour Deposition.

CO10: Any two equivalent experiments.

IPH2069A: QUANTUM HETEROSTRUCTURES

CO1: Describe the structure and properties of semiconductor heterostructures.

CO2: Apply quantum mechanical ideas to construct band structure.

CO3: Describe the electronic structure of low dimensional systems.

CO4: Illustrate the background information for studying quantum transport.

IPH2070A: TRANSPORT IN NANOSTRUCTURES

CO1: Describe the physics of modern nano electronic devices.

CO2: Discuss in detail the transport properties of mesoscopic systems.

CO3: Prepare the student to use advanced computational tools in nanoelectronics.

CO4: Prepare the student to understand the research works in this area.

IPH2071A: NANO-OPTICS AND NANOPHOTONICS

CO1: Explain the optical properties of nanao-structures.

CO2: Explain detailed study of emerging areas like photonic crystals and Plasmonics

CO3: Develop skills needed to apply computational methods for designing Nano-optical structures.

CO4.Illustrate the research work in Nano photonics

IPH2072A: PHYSICS LAB- SYNTHESIS AND CHARACTERIZATION OF NANOMATERIALS

CO1: Report characterization of nanomaterials.

CO2: Design characterization of nanomaterials.

IPH2073A: PHYSICS LAB- NANOSTRUCTURES LAB: 54, CREDIT: 1

CO: To learn the skills needed to solve essential practical problems at research level using computational method.

IPH2074: PROJECT

CO1: Develop the depth of knowledge in Physics.

CO2: Evaluate an independent research project.

CO3: Focus the knowledge of contemporary issues in their chosen field of research.

CO4: Produce an ability to present and defend their research work to a panel of experts.

IPH2004: MATHEMATICS- I

CO1: Explain basic matrix properties, operations, and to solve applications in physical systems.

CO2: Solve problems in differential calculus and its applications.

CO3: Apply partial derivatives.

CO4: Explain application of trigonometric functions and series.

IPH20011: MATHEMATICS- II

CO1: Explain the properties of integral calculus and its applications.

CO2: Illustrate the properties of integrals and use integrals to solve problems in physics.

CO3: Explain the properties and applications of double and triple integrals.

CO4: Illustrate the periodic functions using Fourier series.

IPH2023: MATHEMATICS- III

CO1: Apply vector valued functions in the application of physics.

CO2: Apply integrals in physics related applications.

CO3: Explain the properties of analytic geometry and use analytic geometry in physical systems.

CO4: Explain the abstract algebraic functions.

IPH2042: MATHEMATICS- IV

CO1: Explain ordinary differential equation and use it in physics problems.

CO2: Illustrate the properties and application of special functions.

CO3: Explain the properties of partial differential equation and solve problems using it.

CO4: Explain the function of complex numbers and its applications.

IPH2005: CHEMISTRY - I

CO1: Understand the structure of the atom, chemical bonding and intermolecular forces such as hydrogen bonding.

CO2: Explain the periodic properties of atoms and the concept of chemical equilibrium.

CO3: Illustrate the basic principles of analytical chemistry including various laboratory operations for qualitative and quantitative analysis, methods of separation and purification,an reporting of analytical data.

CO4: Understand various chromatographic techniques.

IPH2012: CHEMISTRY - II

CO1: Understand the fundamental concepts in organic chemistry and structure of organic molecules.

CO2: Explain various types of organic reactions and their mechanisms in brief.

CO3: Understand stereochemistry and conformation of some simple organic molecules.

CO4: Familiarize with natural and synthetic polymers, biodegradability and environmental hazards.

IPH2024: CHEMISTRY – III

CO1: Explain solid state chemistry including symmetry, crystal structure, magnetic, conductivity and optical properties of solids.

CO2: Understand chemistry of the liquid state, colligative properties and properties of liquid crystals Explain the behaviour of gases and gas laws.

CO3: Illustrate surface phenomena such as adsorption and properties & applications of colloids.

CO4: Explain phase equilibria, distribution law and its applications.

IPH2032: CHEMISTRY - IV

CO1: Understand principle and applications of various spectroscopic methods such as rotational, infrared, visible and infrared spectroscopy.

CO2: Explain first, second and third laws of thermodynamics including their significance.

CO3: Explain fundamental concepts of kinetics, catalysis and photochemistry.

CO4: Understand principles of electrochemistry including conductance in solutions, conductometric titrations, galvanic cells, fuel cells, emf measurementsand potentiometric titrations.

IPH2014: CHEMISTRY LAB- I

CO1: Perform quantitative analysis using volumetric estimations.

CO2: Carry out characterization of organic compounds using physical and chemical methods.

IPH2033: CHEMISTRY LAB- II

CO1: Do chemical characterization of substances using various physico-chemical parameters such as viscosity, Critical Solution Temperature, Standard Temperature, Transition Temperature, heat of solution etc.

CO2: Perform various instrumental techniques such as potentiometry, conductometry and colorimetry.

ICE2001: ENGLISH LANGUAGE SKILLS – I

CO1: Identify the distinct sounds in English words.

CO2: Choose the right words while writing/talking about everyday life.

CO3: Use expressions appropriate for various social occasions.

CO4: Articulate words and sentences clearly stressing the right syllables.

ICC2002: ENGLISH LANGUAGE SKILLS- II

CO1: Write sentences adhering to tense rules.

CO2: Correct common errors such as punctuation and capitalization.

CO3: Identify the key points in a piece of writing.

CO4: Write profile and cover letters.

IPH2015: ENVIRONMENTAL SCIENCE

CO1: Illustrate the importance of ecosystems, biodiversity and its conservation.

CO2: Illustrate the details of environmental pollution, social issues and the environment.

CO3: Illustrate different types of non-renewable and renewable energy sources solar energy.

IPH2034: RESEARCH METHODOLOGY IN SCIENCE

CO1: Explain the history of science, philosophy of science and scientific facts.

CO2: Explain the meaning of research, design, development and analysis of research.

CO3: Define hypothesis and research methods.

CO4: Do to data collection, sampling and statistical analysis

CO5: Prepare scientific reports, journal papers and project proposals.

CO6: Explain the environmental and ethical impacts, plagiarism citation and acknowledgement

IPH2043: HUMAN RIGHTS

CO1: Analyze the development of human rights and different human right act in UN.

CO2: Analyze the human rights in Indian scenario

CO3: Analyze the and impact of environment and human rights.

CO4: Analyze the Conservation of natural resources and human rights.

IPH2007: LATEX PROGRAMMING

CO1: Write ordinary text, mathematical formulae as equations.

CO2: Organize texts using formatting.

CO3: Illustrate insertion of symbols and operators in texts.

CO4: Create array, table, header, font bibliography.

IPH2008: Programming in Python-I

CO1: Understand the structure of a python program and how it works.

CO2: Understand the basic control structures.

CO3: Apply the structure of a python program and how it works, basic control structures.

IPH2016: LIFE INSPIRING SKILLS

CO1: Develop communication competency and report writing skills.

CO2: Practice interview & group discussion.

CO3: Develop critical thinking process and problem solving skills.

CO4: Formulate better team dynamics, ethics and human values.

IPH2017: PROGRAMMING IN PYTHON-II

CO1: Demonstrate how Python can handle U data using statistical methods.

CO2: Describe how set theory operations can be done using python.

CO3: Perform representative task in practice.

CO4: Apply the structure of a python program and handle data using statistical methods, set theory, operations.

IPH2025A: SUMMER PROJECT - I

CO1: Identification of research/industrial/academic problem, preparation of methodology of work, time bound planning.

CO2: Report the use of sophisticated instrumentation/software and enhance academic scenario through practical experience.

CO3: Develop the ability to analysis data collection, interpretation of observation and capability to make inferences.

CO4: Develop new knowledge and experience to contribute in the startup programs.

IPH2026: YOGA EXERCISES FOR SOUND HEALTH

CO1: Apply idea about yoga.

CO2: Illustrate limits and methods in five aspects: Food, Work, Sleep, Sex and Thought.

CO3: Practice a whole body exercise and Kayakalpa.

CO4: Practice different Pranayam and Mudras.

IPH2027: MACHINE LEARNING USING PYTHON - I

CO1: Understand the general features of machine learning.

CO2: Understand how python tools necessary for numeric, visualization and manipulation of data.

CO3: Apply the general features of machine learning, python tools necessary for numeric, visualization and manipulation of data.

IPH2035: HEALTH & EMERGENCY CARE

CO1: Understand the importance of physical activities on health.

CO2: Observe and identify different types of injuries.

CO3: Able to do different life saving first aids like 1. CPR, 2. Heimlich Maneuver.

IPH2036: MACHINE LEARNING USING PYTHON - II

CO1: Apply Scikit-lear dataset

CO2: Describe how linear and polynomial reuression is performed.

CO3: Perform representative computational task in practice.

CO4: Apply the general features of machine learning, linear and polynomial regression is performed.

IPH2025B: SUMMER PROJECT - II

After the completion of the course the students shall be able to:

CO1: Identification of research/industrial/academic problem, preparation of methodology of work time bound planning.

CO2: Report the use of sophisticated instrumentation/software and enhance academic scenario through practical experience.

CO3: Develop the ability to analysis data collection, interpretation of observation and capability to make inferences

CO4: Develop new knowledge and experience to contribute in the startup programs.

IPH2044: FOUNDATION COURSE IN REASONING

After the completion of course students will be able to:

CO1: Develop proficiency in formulating and solving problems in diverse fields.

CO2: Develop the logical reasoning ability of students.

CO3: Develop the arithmetic reasoning ability of students.

CO4: Develop the verbal reasoning ability of students.

CO5: Improves the non-verbal reasoning ability of students.

IPH2045: MACHINE LEARNING USING PYTHON - III

After the completion of the course the students shall be able to:

CO1: Describe classification problem.

CO2: Understand Classification using support vector machines.

CO3: Apply Classification using support vector machines.

IPH2053: PLANT PROPAGATION

After the completion of the course students will be able to:

CO1: Identify and asses the quality of different types of soils.

CO2: Develop an understanding of propagation techniques.

CO3: Practice different types of artificial propagation techniques like layering, grafting and budding.

IPH2054: MACHINE LEARNING USING PYTHON - IV

After the completion of the course the students shall be able to:

CO1: Apply classification using K-means.

CO2: Describe Unsupervised learning using K-means.

CO3: Perform typical computational task related to the units practically.

CO4: Apply Classification using support vector machines.

IPH2025C: SUMMER PROJECT - III

After the completion of the course the students shall be able to:

CO1: Identification of research/industrial/academic problem, preparation of methodology of work, time bound planning.

CO2: Report the use of sophisticated instrumentation/software and enhance academic scenario through practical experience.

CO3: Develop the ability to analysis data collection, interpretation of observation and capability to make inferences.

CO4: Develop new knowledge and experience to contribute in the start-up programs.

IPH2061: OBSERVATIONAL ASTRONOMY

After the completion of the course students will be able to:

CO1: Visualize an idea about astronomy and optical telescopes.

CO2: Visualize an idea about celestial objects like Stars, Galaxies and the Universe.

CO3: Visualize the evolution of universe.

CO4: Practice to identify different planets, stars and constellations.

IPH2068: FINISHING SCHOOL

After the completion of course students will be able to:

CO1: Develop the capacity to confidently face interviews, GD and secure placements in reputed companies.

CO2: Develop the essential professional skills that will help students to lead a successful career.

BACHELOR OF COMMERCE

PROGRAM SPECIFIC OUTCOME

Program Specific Outcomes (PSOs) are statements that describe what the graduates of a specific program should be able to do. The following are the (PSOs) of B Com program of Marian College Kuttikkanam (Autonomous):

PSO1: Apply the knowledge of Generally Accepted Accounting Principles, standards, practices, legalities and methods in the preparation of accounts and statements under the three branches of accounting, viz Financial accounting, Cost Accounting and Management Accounting.

PSO2: Apply statutory regulations and ethical standards relevant for a business organization for ensuring legal and ethical compliance while discharging duties as an administrator and a responsible citizen of the nation.

PSO3: Create and present business plans that articulate and apply the knowledge of financial, personal, marketing and operational dimensions of an organization, thus demonstratingentrepreneurial talents and expertise.

PSO4: Demonstrate the ability to use technologies relevant in the Micro and Macro business environment.

PSO5: Use the acquired research skills for collecting, analyzing and interpreting the data for presenting the information as a guide for the different stakeholders in their decision making.

PSO6: Demonstrate communication and life skill competencies necessary to succeed in personal and professional life.

COURSE OUTCOME

UCE2001 ENGLISH I - ESSENTIAL ENGLISH FOR UNDER GRADUATES

CO1: Identify the distinct sounds in English words.

CO2: Articulate words and sentences clearly stressing the right syllables.

CO3: Choose the right words while writing/talking about everyday life.

CO4: Write sentences adhering to tense rules.

CO5: Correct common errors such as punctuation and capitalization

CO6: Use expressions appropriate for various social occasions.

CO7: Identify the key points in a piece of writing.

UCE2001H: HINDI I– POETRY & COMMUNICATIVE HINDI

CO1: Understand the literary works.

CO2: Evaluate the literary works

CO3: Apply the literary works.

CO4: Create literary contents.

CO5: Apply literary criticism.

UBM2001: MALAYALAM I- കവിതാസാഹിത്യം

CO1: Understand the literary works.

CO2: Evaluate the literary works

CO3: Analyze the literary works.

CO4: Create literary contents.

CO5: Apply literary criticism.

UBM2001: GERMAN I- Introductory German for Business People

CO1: Familiarizes with the German alphabets and pronunciation.

CO2: Apply the basic grammar and vocabulary of German Language.

CO3: Use common skills of German language, namely reading, writing, listening and speaking.

CO4: Communicate in the target language.

CO5: Use German Language in specific contexts of business life.

UBM2001S: SYRIAC 1

CO1: Appreciate the world of Syriac literature and its influence on the generations of people throughout the history.

CO2: Explain the contributions of the Syriac poets and thinkers to the humanity.

CO3: Read, write and translate Syriac texts.

CO4: Analyze the Semitic method of intercultural dialogue.

CO5: Identify the Syriac words in Malayalam.

CO6: Use Syriac for communication with the members of the Semitic religions.

UBM2002: BUSINESS ECONOMICS

CO1: Describe the concepts and theories of micro and macroeconomics.

CO2: Appreciate the role of managerial economist in decision making context.

CO3: Analyze the different concepts of utility that support managers in taking decisions.

CO4: Apply the long run and short run production functions in business.

CO5: Evaluate the cost and profit determination under different market structures prevailing in Indian context.

FINANCIAL ACCOUNTING

CO1: Explain the conceptual framework of accounting through the qualitativecharacteristics of financial statements.

CO2: Apply the double entry system in recording business transactions and events.

CO3: Preparation of financial statements of sole proprietors.

CO4: Prepare the consignment accounts and joint venture accounts.

CO5: Calculate average due date for settling various negotiable instruments used in the business.

UBM2004: BUSINESS LAW

CO1: Draft/create a contract which satisfy all the essential elements of a valid contract.

CO2: Evaluate the legal principles behind performance and discharge of contract.

CO3: Compare and contrast the special contracts like contract of indemnity, guarantee, pledge and bailment.

CO4: Analyze the rules related to creation of contract of agency and validity of agency contract.

CO5: Distinguish between sale and agreement to sell and analyze the legal principles of contract of sale.

UBM2005: BUSINESS MANAGEMENT AND ENTREPRENUERSHIP

CO1: Explain the history and concept of management and solve corporate problems by applying management principles.

CO2: Analyze the management functions of an organization and evaluate the organizational decisions with consideration of the external environmental aspects of business.

CO3: Analyze the business organizational structures and culture and design a suitable structure according to the nature of the business.

CO4: Develop a start-up business plan.

CO5: Synthesis the personal and professional ethics in accounting and business.

UCE2001: ENGLISH II - ACADEMIC AND PROFESSIONAL ENGLISH

CO1: Identify the elements of good academic writing.

CO2: Select the right vocabulary for an academic.

CO3: Write effective thesis statements.

CO4: Identify the different strategies employed in shaping an academic essay.

CO5: Write brief book reviews.

CO6: Write a CVs and cover letters.

UBM2010H: HINDI II - PROSE & APPLIED HINDI

CO1: Evaluate the literary works.

CO2: Apply the literary works.

CO3: Create literary contents.

CO4: Apply literary criticism.

UBM2010M: MALAYALAM II – കഥയും നോവലും

CO1: Evaluate the literary works.

CO2: Analyze the literary works.

CO3: Create literary contents.

CO4: Apply literary criticism.

UBM2010G: GERMAN II

CO1: Familiarize with the German alphabets and pronunciation.

CO2: Acquire the basic grammar and vocabulary of German Language.

CO3: Develop the common skills of German language, namely reading, writing, listening and speaking.

CO4: Communicate in the target language.

CO5: German Language in specific contexts of business life.

UBM2010S: SYRIAC II

CO1: Appreciate the world of Syriac literature and its influence on the generations of people throughout the history.

UBM2010S: SYRIAC II

CO1: Appreciate the world of Syriac literature and its influence on the generations of people throughout the history.

CO2: Apprehend the contributions of the Syriac poets and thinkers to the humanity.

CO3: Read, write and translate Syriac texts.

CO4: Analyze the Semitic method of intercultural dialogue.

CO5: Identify the Syriac words in Malayalam.

CO6: Dialogue with the members of the Semitic religions.

CO7: Reveal interest in higher studies in Syriac and related fields with the aim of teaching and acquiring leadership positions in the society.

UBM2011: BUSINESS STATISTICS

CO1: Describe the basic concepts and uses of statistics in reporting and decision making in business.

CO2: Calculate and interpret different measures of central tendency.

UBM2011: BUSINESS STATISTICS

CO1: Describe the basic concepts and uses of statistics in reporting and decision making in business.

CO2: Calculate and interpret different measures of central tendency.

CO3: Calculate the various measures of dispersion and interpret the results.

CO4: Calculate moments, kurtosis and skewness and judge how far the data can be relied upon.

CO5: Compute, analyze and interpret correlation and regression with real data.

UBM2012: BANKING LAW AND PRACTICE

CO1: Discuss the origin, types and practices of various banking systems in India.

CO2: Describe the various services rendered by retail banking

CO3: Illustrate the various negotiable instrument, loan and advances, and mortgages including the procedure to be followed.

CO4: Use alternative service channels for banking transaction.

CO5: Prepare final accounts of banking companies by applying provisions of Banking Regulation Act 1949.

UBM2013: CORPORATE LAW

CO1: Explain the different steps in the process of formation of companies and differentiate the various types of companies.

CO2: Discuss the law relating to issue and buy back of shares and debentures.

CO3: Evaluate the compliance of legal rules relating to company management and the conduct of company meetings.

CO4: Evaluate and differentiate various modes of winding up of a company.

CO5: Create a Partnership deed and differentiate partnerships and limited liability Partnerships.

UBM2014: FINANCIAL REPORTING I

CO1: Prepare cash flow statements (AS3 and Ind AS7), comparative statement and common size statement for evaluating the performance of companies.

CO2: Calculate the various accounting ratios and interpret the results.

CO3: Describe and distinguish the International Financial Reporting Standards and Ind AS.

CO4: Apply Ind AS for the preparation of financial statements as per Companies Act 2013.

CO5: Apply revenue recognition principles with respect to revenues and expenses under specific situation.

UCE2003 COURSE: ENGLISH III – RETRIEVED TREASURES: A SELECTION FROM LITERATURE

CO1: Demonstrate critical faculties and insights.

CO2: analyze conflict as a pivotal point in a work of fiction.

CO3: Discover the values underlying in literary texts

CO4: Explain the theme of a piece of literature.

CO5: Reproduce the plot in their own words.

UBM2017: QUANTITATIVE TECHNIQUES

CO1: Illustrate the basic concepts of set theory with practical examples.

CO2: Calculate probability of occurrence of an event using the various theorems of probability and appreciate the role of probability estimation in reducing uncertainty in business decision making.

CO3: Apply permutation and combination for the purpose of arranging and selecting different objects.

CO4: Describe the concept of Normal, Poisson and Binomial distribution.

CO5: Construct different types of index numbers using appropriate methods and also do time series analysis for calculating trend and doing prediction.

CO6: Apply the various methods of interpolation and extrapolation for estimating missing values.

UBM2018: FINANCIAL MANAGEMENT

CO1: Explain the nature and objectives of financial management and apply the concept of time value of money in financing decisions.

CO2: Compute the minimum rate of return that a company must earn on its investment and advice the management in choosing the right investment avenue.

CO3: Design an optimum capital structure for a business organization based on capital structure theories.

CO4: Assessment of different types of risks using different risk management tools and techniques for risk reduction.

CO5: Develop a suitable dividend policy for a business organization based ondividend theories.

UBM2019: FINANCIAL REPORTING – II

CO1: Discuss the various Accounting Standards in the Financial Statements of Corporate entities.

CO2: Prepare financial statements of corporate entities as per Schedule III (Division I & II) of Companies Act 2013 in accordance with AS (2006 Rules) & Ind AS.

CO3: Illustrate the recognition requirements of IND AS 103 – Business Combinations on acquisition of Parent -Subsidiary.

CO4: Prepare and present the consolidated financial statement in the prescribed format.

CO5: Prepare an integrated report using both qualiltative and quantitative data to present an overall view of the corporate entity.

UBM2020: MANAGING BUSINESS PROCESSES

CO1: Discuss business process management, metrics management, process mapping techniques, business process outsourcing and its implementation.

CO2: Appreciate the importance of quality management practices in BPS.

CO3: Explain various problem-solving techniques relevant in business processmanagement.

CO4: Describe the various business process improvement methods.

CO5: Discuss the various operational, information and strategic risks and how to mitigate the same.

UBM2021A: GOODS AND SERVICES TAX – CONCEPTS AND PRACTICES

CO1: Describe the structure of GST and define the basic concepts of GST in India.

CO2: Determine the tax liability of a supplier by suitably applying the provisions of GST in relation to the place, time and value of supply money.

CO3: Advice on GST registration, amendment, cancellation and revocation including its procedures.

CO4: File different types of GST returns based on suitable assessment procedure under GST rules and regulations.

CO5: Advice on GST payment, appeals and revisions.

UBM2021B: BASICS OF CO-OPERATION

CO1: Discuss the history and different aspects of cooperation.

CO2: Compare cooperation with other economic systems and evaluate cooperation as an institution and as an enterprise.

CO3: Explain and contrast the cooperative principles and values.

CO4: Discuss the cooperative structure and its governance in India.

CO5: Critically evaluate the cooperative movements across the world.

UBM2021C: DATA ANALYTICS – PROGRAMMING FOR ANALYTICS

CO1: Describe Data Models, Data Independence and Data Views and build custom Entity Relationship Diagrams based on different problem sets.

CO2: Use of Structured Query Language to perform DBMS related tasks and implement relational data query.

CO3: Perform several tasks with regards to Data Analytics, Visualization, Data Manipulation using SAS programming.

CO4: Implement Python Programming with regards to Descriptive Statistics Employ and use Python packages and functions to deploy analytical Systems/programs.

CO5: Implement Data structures, Import statement, Packages and Inbuilt Functions in R Language.

UCE2004: ENGLISH IV – THE WORLD WE LIVE IN: A SELECTION OF WRITINGS ON SOMEVITAL ISSUES

CO1: Explain how ideas like nationalism and patriotism are viewed andunderstood by different people.

CO2: Identify the forces threatening democracy and secularism in the world.

CO3: Recognize the problems faced by the weak and the marginalized.

CO4: Debate the role of human intervention in environmental degradation.

CO5: Illustrate the achievements possible when the state and its citizens worksingle-mindedly towards a goal.

UBM2026: RESEARCH METHODOLOGY

CO1 Appreciate the concepts, methods and process of scientific enquiry for the creation of knowledge and development of theory

CO2. Identify research problems and prepare research proposal/synopsis

CO3. Explain research design, its types and frame a research design, suitable to the type of problem under study

CO4. Identify the various sources of data, choose and prepare a suitable data collection Instrument such as / schedule to elicit data required for carrying out research.

CO5. Collect and analyze data by using appropriate statistical tools in SPSS and interpret the results

CO6. Prepare a research report in a standard format.

UBM2027 MARKETING MANAGEMENT

CO1: Critically evaluate the marketing environment and market segmentation strategies relevant for a business.

CO2: Create a marketing mix and justify the same in terms of its contribution to companies' growth and development.

CO3: Implement a marketing campaign to communicate and promote products/services.

CO4: Apply the concepts and theories of consumer behaviour to predict buying behavior of products/services.

CO5: Conduct a market research study using scientific methods to find answers to a relevant marketing research questions.

UBM2028: AUDIT AND ASSURANC

CO1: Examine different concepts of audit and prepare an audit plan that integrates risk assessment and understanding of business entity/environment.

CO2: Evaluate the internal control system in a given organization and suggest how auditors should record internal control systems.

CO3: Prepare an audit report based on audit evidences collected as per the audit procedure.

CO4: Audit the accounts of a limited company using redacted accounting data provided.

CO5. Appreciate the relevance of corporate governance and discuss the concepts of corporate governance including its regulatory framework.

UBM2029: PRINCIPLES AND PRACTICES OF INSURANCE

CO1: Explain the concepts of risks and insurance including its principles and types.

CO2: Discuss the concepts life insurance, annuity and group insurance.

CO3: Discuss non-life insurance concepts, providers, underwriting process & policy servicing process. Also calculate insurance claims for property & casualty insurance.

CO4: Discuss the concepts of health insurance and how it works on individual and group health insurance.

CO5: Advice on a retirement plan based on the available retirement services and plans.

UBM2030A ADVANCED FINANCIAL MANAGEMENT

CO1: Discuss working capital management and estimate working capital requirement of a firm.

CO2: Identify and apply the suitable techniques of cash management, receivables management and inventory management in real situations.

CO3: Apply the suitable methods for business valuation and use suitable investment appraisal techniques for investment decisions.

CO4: Advice on special investment decisions.

CO5: Calculate different types of leverage and evaluate the impact of various combinations of operating leverage and financial leverage on business performance.

UBM2030B CO-OPERATIVE MANAGEMENT AND ADMINISTRATION

CO1: Describe concept and structure of co-operative management.

CO2: Identify the issues/problems faced by the cooperative sector and suggest measures to solve such issues.

CO3: Explain the administrative set up of cooperative departments and powers of registrars.

CO4: Appreciate the need and importance of cooperative education and training

CO5: Critically evaluate the management and working of major cooperative organizations and institutions.

UBM2030C: DATA ANALYTICS - BUSINESS STATISTICS WITH R PROGRAMMING

CO1: Install, Use, Code using R Programming Language in R Studio IDE toperform basic tasks on Vectors, Matrices and Data frames.

CO2: Describe and Discuss the key terminology, concepts, tools and techniques used in Statistical Analysis.

CO3: Define and Calculate the Probability that an event will occur. Understand and Implement Probability Distributions to solve problems involving them.

CO4: Conduct and interpret a variety of Hypothesis tests to aid Decision-making.

CO5: Understand, Analyze, Interpret Correlation, use Simple Regression Models to Analyze the underlying relationships between the variables.

UBM2031: RESEARCH PROJECT AND VIVA VOCE

CO1: Identify research problems and prepare research proposal/synopsis.

CO2: Identify the various sources of data, choose and prepare a suitable data collection Instrument such as / schedule to elicit data required for carrying out research.

CO3: Collect and analyze data by using appropriate statistical tools in SPSS and interpret the results.

CO4: Prepare a research report in a standard format.

UBM2033: ENVIRONMENTAL MANAGEMENT AND HUMAN RIGHTS

CO1: Appreciate the fact that our life-support system is maintained by all the species that make-up the bio-sphere and they are all prepared to sustain biodiversity atall costs.

CO2: Demonstrate observation skills and critical thinking and apply them to theanalysis of a problem-infested environment.

CO3: Analyze the principles of ecology and the environmental damage to life-supportive elements such as air, land and water on a global scale.

CO4: Develop a plan to counteract the overall impact of a specific issue, whether local or global, sketching out an effective environment management plan.

CO5: Develop empathy and respect for human rights and their application in Indian context.

UBM2034: CAPITAL MARKET AND FINANCIAL SERVICES

CO1: Explain the financial system and its components.

CO2: Discuss the different types of securities and derivatives dealt with in capital market.

CO3: Open a demit account and demonstrate the competency to trade in stock market.

CO4: Explain the different dimensions of investment banking.

CO5: Evaluate mutual fund, hedge fund and private equity and suggest the appropriate one in such way that the risk is least for an investor.

UBM2035: COST ACCOUNTING

CO1: Discuss and classify the various elements of cost.

CO2: Prepare stock ledger/account and determine the various stock levels.

CO3: Calculate remuneration and incentives under different wages systems

CO4: Illustrate the methods of allocation, apportionment and absorption of overheads for the purpose of cost ascertainment.

CO5: Prepare cost sheet/statement and integrated accounts for entities engaged in the production of goods and rendering of services.

UBM2036: PERFORMANCE MANAGEMENT

CO1: Ascertain the cost of different service industries using operating costing method.

CO2: Calculate the cost of a product or service using life cycle costing and activity-based costing.

CO3: Apply the marginal costing principles for short term decision making.

CO4: Evaluate the financial and non-financial indicators to judge the performanceof a business unit and suggest method/measures to improve the performance indicated.

CO5: Discuss the behavioral considerations that can affect the performance of a business unit and suggest ways to manage it.

UBM2037A: INCOME TAX LAW AND PRACTICE

CO1: Explain the history and structure of direct tax law of the country including the basic concept of Income Tax Act 1961.

CO2: Determine the residential status and incidence of tax by applying theprovisions of Section 5 & 6.

CO3: Assess the salary income of an individual assesses according to Section 15 –17.

CO4: Assess the Income from House Property as per Section 22 -27.

CO5: Assess the Profits & Gains of Business and Profession as per Section 28 – 44.

UBM2037B:CO-OPERATIVE LEGAL SYSTEMS

CO1: Explain the evolution of cooperative legislation in India and in Kerala.

CO2: Create Co-operative society under Kerala Co-operative Societies Act.

CO3: Critically evaluate the provisions relating to the management of cooperatives society as per KCS Act, 1969.

CO4: Apply the provision in the KCS Act, 1969 to settle disputes.

CO5: Explain the procedure for winding up and dissolution of cooperative societies

UBM2037C DATA ANALYTICS – MULTIVARIATE DATA ANALYSIS

CO1: Implement Techniques of Multivariate Data Summary, Exploratory Data Analysis and Dimensionality Reduction.

CO2: Apply different Data Cleansing Methods such as Outlier Removal, Missing Values Treatment involving Multivariate Data.

CO3: Apply and Deploy Logistic Regression Models and present the findings using Classification Matrices, ROC Curves.

CO4: Discuss and Describe Time Series, its Components, Forecasting based on different Smoothing Techniques.

CO5: Implement Univariate Time Series Models, Perform several tests such as AD Fuller, KPSS, Parameter Significance.

UBM2043: CORPORATE ACCOUNTING

CO1: Journalese the redemption of Preference Shares, buy- back of shares andunderwriting of shares.

CO2: Compute profit prior to the incorporation of a company.

CO3: Prepare the accounts of companies for amalgamation in the nature of merger and purchase. Also prepare the accounts reflecting internal reconstruction ofa company.

CO4: Prepare the final accounts of life insurance and general insurance companies.

CO5: Prepare the liquidator's final statements of account in the liquidation process

UBM2044: ADVANCED FINANCIAL ACCOUNTING

CO1: Explain the departmental accounting procedure and prepare the departmental accounts using the appropriate method.

CO2: Solve the accounting problems arising out of admission, retirement, death and amalgamation of partnership firms.

CO3: Prepare branch accounts using different methods and solve accounting problems involving foreign currency translation in case of foreign branches.

CO4: Solve accounting problems relating to hire purchase and differentiate between hire purchase and installment payment.

CO5: Prepare the income and expenditure account from receipts and payments account of Non-Profit organizations.

UBM2045: APPLIED COST ACCOUNTING

CO1: Prepare a cost sheet for determining the cost for a job and batch.

CO2: Ascertain the cost of a contract, progress payment, retention money, value of work certified, cost of work not certified and notional or estimated profit from a contract.

CO3: Prepare process account to determine the cost of a given process and apportion the joint costs to joint products and to buy products.

CO4: Compute and interpet variances related to material, labour and overheads.

CO5: Prepare fixed and flexible budgets

UBM2046:INFORMATION TECHNOLOGY IN BUSINESS

CO1: Appreciate and use of information technology in business and accounting.

CO2: Explain various types of e-commerce websites and evaluate the current challenges and issues in e-commerce by assessing the various cybercrimes and IT acts associated.

CO3: Design an Ecommerce websites and its promotion through digital marketing.

CO4: Illustrate the usage and application in the selection of modern businessanalytics tools, which can be used in business development.

CO5: Discuss the latest accounting and ERP software's used in business.

MUBM2047A: INCOME TAX – ASSESSMENT AND PROCEDURE

CO1: Assess short term and long-term capital gain using the provisions under sections 45 – 55 of Income Tax Act 1961.

CO2: Compute income from other sources by applying the provisions undersections 56 – 59 of Income Tax Act.

CO3. Compute Gross Total Income of an individual asceses by aggregating income under five heads and by clubbing of incomes, carry forward and set off losses.

CO4: Compute Total Income and tax liability as per the provisions of the income tax Act and suggest the ways through which tax liability can reduced by claiming deductions u/s 80C to 80U.

CO5: Explain different types of assessment and file the appropriate return of income its the stipulated time period.

CO6: Discuss how income tax administration is done under the income tax Act.

NUBM2047B: CO-OPERATIVE ACCOUNTING

CO1: Discuss the meaning, importance and special features of cooperative accounting.

CO2: Discuss the various sources of fund available to cooperative societies.

CO3: Prepare trial balance of cooperative bank and other cooperative societies

CO4: Prepare final accounts of cooperative bank, and other cooperative societies

CO5: Appreciate the importance of audit in cooperative societies and banks.

UBM2047C:DATA ANALYTICS – DATA MINING WITH R

CO1: Implement and Analyze Decision Trees Algorithms based on Classification and Regression Techniques.

CO2: Interpret Dendrograms, Implement, Analyze and Evaluate Clustering Algorithms, Nearest Neighbor Models, Linkage, Cluster Profiling.

CO3: Discuss the fundamental theory and concepts of Neural Networks, Implement NN Paradigms and use proper Activation Functions.

CO4: Implement and Deploy Support Vectors, Understand Separable/Non-Separable Case, Kernel Trick in SVMs.

CO5: Describe and Discuss Market Basket Algorithm, Understand and Use Association Rules, priority Algorithm to find frequent item sets.

UBM2006: ICT SKILLS FOR LEARNING TYPE: WORKSHOP COURSE CODE

CO1: Apply the techniques of using search tools more effectively to locate appropriate sources

CO2: Apply Presentation Software Applicants to create large group presentations, self-running slide shows and other types of slide-based presentation.

UBM2007: BUSINESS STARTUPS AND INCUBATION

CO1: Discuss the possibilities and challenges in starting a new enterprise.

CO2: Discuss the sources of finance including incubators in the field and establish initial contacts with such providers of funds

CO3: Describe the essential skills and knowledge in starting and running small business enterprise.

CO4: Appreciate the need to become an entrepreneur and realize the value of entrepreneurship that can contribute nation building.

CO5: Appreciate the status of being independent, creative and love challenges as way to self-organization.

UBM2016 : INTERNATIONAL ACCOUNTING SYSTEM: UBM2016

CO1: Compare and contrast accounting standards of US, UK and India.

CO2: Prepare general ledger accounts, bank reconciliation, tax accounts, finalaccounts and various reports.

CO3: Explain latest trends in F&A Technology.

CO4: Anlayze operating model of business process services and discuss its future and challenges.

UBM2025A: LIFE SKILL COMPETENCY – HOME CHEF CODE

CO1: Demonstrate a knowledge and understanding of food commodities, soup/starter, Indian bread, main course & dessert.

CO2: Apply principles of sanitation and personal hygiene in kitchen.

CO3: Identify and use basic kitchen utensils and professional equipment in a safe and productive manner.

CO4: Create an awareness of segregation and disposal of waste in the kitchen.

UBM2025B: LIFE SKILL COMPETENCY – HOME DECOR CODE

CO1: Recognize the elements and principles of design and their applications.

CO2: Achieve a healthier and more aesthetically pleasing environment for the students in their home.

CO3: Define and classify accessories. analyze the importance, selection and arrangement of accessories in relation to background.

CO4: Distinguish the types of decorative styles. Criticize the application of colour and light for various rooms.

UBM2025C: LIFE SKILL COMPETENCY – HOME GARDENER CODE

CO1: Appreciate the need for having a Kitchen Garden at home for self-sufficiency and overall health of family members.

CO2: Apply the knowledge acquired for designing and setting up a modern kitchen Garden next to their home that meet their daily household requirements such asvegetables, fruits, etc.

CO3: Demonstrate the skills in the upkeep and maintenance of Kitchen Garden by adopting scientifically proven technologies/methods including that of fertilization, irrigation, pest control etc.

UBM2025D: LIFE SKILL COMPETENCY – HOME TOOLS, REPAIR & CARPENTER CODE

CO1: Familiarize with some basic home tool concepts and comprehend the possible challenges and barriers in day-to-day life.

CO2: Identify general hazards associated with hand and portable home power tool use, and the safety practices for protecting against these hazards.

CO3: Familiarize with basic vehicle complaints and repairs and make them independently handle household requirements and to enhance competenceand confidence in personal and professional life.

CO4: Familiarize with some basic mechanical, electrical and plumbing concepts and sensitize the different kinds of labour and how to value it.

CO5: Familiarize with building components, construction equipment, carpentry tools and electrical systems.

CO6: Identify and adhere to established health and safety practices that apply tospecific job sites.

UBM2025E: LIFE SKILL COMPETENCY – HOME MOUNT CODE

CO1: Know the basics of mountaineering.

CO2: Understand the Importance of mountaineering.

CO3: Use mountaineering skills in day-to-day life.

CO4: Get Hands on training in different equipment.

UBM2009: ORIENTATION FOR PROFESSIONAL QUALIFICATIONS – FOUNDATION

CO1: Identify various career opportunities available to accounting professional in India and abroad.

CO2: Explain the minimum qualification required for joining different professional programmes and the procedure for applying for the programme.

CO3: Demonstrate foundation level knowledge regarding the professional qualification such as CA (INDIA), CMA (INDIA), ACCA (UK) and CIMA (UK)

UBM2024: ORIENTATION FOR PROFESSIONAL QUALIFICATIONS- INTERMEDIATE

CO1: Identify the syllabus content, expected outcomes, exam pattern, exam fees of different professional accounting courses offered at the intermediate level by professional bodies [CA/CMA (INDIA), ACCA (UK) and CIMA (UK)]

UBM2042: ORIENTATION FOR PROFESSIONAL QUALIFICATIONS

CO1: Identify the syllabus content, expected outcomes, exam pattern, exam fees of different professional accounting courses offered at the intermediate level by professional bodies [CA/CMA (INDIA), ACCA (UK) and CIMA (UK)

UBM2015: HEALTH AND PHYSICAL FITNESS

CO1: Discuss the importance of physical education and physical fitness.

CO2: Appreciate and participate in the physical activities and games and play leads to wholesome development of the students.

UBM2032: CAMPUS TO CORPORATE TRANSITION

CO1: Prepare bio data/CV along with suitable covering letter to apply for a job inreputed companies.

CO2: Demonstrate professional level skills, attitudes, values and ethics demanded bythe industry.

CO3: Identifying and choosing the right job according to one's own aptitude, tasteand preference.

CO4: Confidently face the competitive examinations, GD an interview for theselection of candidates for interview

UBM2040: DIPLOMA IN SUPPLY CHAIN MANGEMENT

CO1: Discuss the types of businesses, BPSs, Outsourcing and supply chain management.

CO2: Explain the concept of sourcing and procurement practices in supply chain management.

CO3: Discuss how to execute, compile/amend a contract in supply chain management.

CO4: Explain after market service requirement in supply chain management

CO5: Critically analyze sales order management of a company and suggest measure to improve it.

CO6: Explain master data management in supply chain management process.

CO7: Evaluate logistics and fleet management of a supply chain company and suggest ways through which it can be improved through technology.

CO8: Discuss warehouse and inventory management required for logistics and supply chain Management of a Company.

UEN2032: FILM STUDIES

CO1: Develop critical and appreciative skills in film viewing.

CO2: Write reviews and critiques on films**.**

CO3: Examine the verbal and non-verbal messages in films and how they influencethe socio-political-cultural behavior of people.

CO4: Observe the operation of the sound and color in films.

CO5: Outline the processes of film production, including pre-production, production,and post production.

CO6: Draft research essays in the discipline.

UBM2038A: CAPITAL MARKET & INVESTMENT

CO1: Explain the components of Indian Financial System.

CO2: Appreciate the significance of SEBI as a regulatory mechanism in the Indian..

CO3: Capital Market.

CO4: Develop an ability to start micro scale investment in stock market

CO5: Familiarize with different dimensions of derivative trading.

CO6: Explain the functioning of new issue market and identify the major intermediaries.

CO7: Identify the major stock exchanges of India and appreciate the role played bythem in terms of capital raised.

UBM2038B: FUNDAMENTALS OF ACCOUNTING

CO1: Describe Accounting Concepts And Conventions Required For The BusinessEnterprise.

CO2: Pass Journal Entries by Understanding the Rules of Double Entry System of Accounting.

CO3: Prepare Ledgers, Which Include Different Types of Cash Book and BalancingOf the Accounts.

CO4: Prepare Trial Balance by Understanding the Format In Order To Ensure the Arithmetical Accuracy.

CO5: Create Final Accounts of the Sole Proprietorship by Understanding the Nature of Accounts.

UEC2027: FUNDAMENTALS OF ECONOMICS

CO1: Apply basic concepts of economics of demand and supply. **CO2**: Analyze and demonstrate the expenditure pattern of a country.

CO 3: Critically evaluate the functioning of financial system.

CO4: Evaluate the planning system and strategies.

CO5: Apply basic concepts of economics of demand and supply.

UBC2029: INTERNET AND DIGITAL MARKETING

CO1: Understand the basic concepts of Internet and Cyber laws.

CO2: Develop web pages using HTML.

CO3: Acquire basics of digital marketing concepts.

CO4: Discuss about the various business drivers in the digital world.

CO5: .Familiarize with E-commerce and online tools for marketing.

UMA2030: APPLICABLE MATHEMATICS

CO1: Solve quadratic equations.

CO2: Plot points and draw graphs of straight lines.

CO3: Use problem solving techniques for aptitude

problems.

CO4: .Find the derivatives and integration of functions

CO5: .Define outcomes, sample space and events

UBB2025: BRAND MANAGEMENT

CO1: Demonstrate a fair understanding about key principles of branding.

CO2: Discuss and apply different strategies for promoting brands and types of branding.

CO3: Design and implement brand strategies that consider brand naming, logo andits types.

CO4: Cognize and apply brand positioning strategies.

CO5: Demonstrate and apply knowledge of different brand extension strategies.

UBB2025: BRAND MANAGEMENT

CO1: Demonstrate a fair understanding about key principles of branding.

CO2: Discuss and apply different strategies for promoting brands and types of branding.

CO3: Design and implement brand strategies that consider brand naming, logo andits types.

CO4: Cognize and apply brand positioning strategies.

CO5: Demonstrate and apply knowledge of different brand extension strategies.

USW2021: DEVELOPMENT COMMUNICATION

CO1: Explain basic concepts in development communication.

CO2: Demonstrate understanding on theoretical frameworks of development communication.

CO3: Apply various communication strategies in practice.

CO4: Use various communication techniques for development programmes.

CO5: Demonstrate skills in public speaking and organising conferences and seminars.

UPE2001: PHYSICAL HEALTH AND LIFE SKILLS EDUCATION

CO1: Ability to search appropriate sources of information about physical fitness andits components.

CO2: Suggest set of exercises or activities to maintain or improve efficiency ofdifferent body systems.

CO3: Ability to suggest combination of nutrients and its various sources for balanceddiet.

CO4: Application of first aid and its procedure for common injuries.

CO5: Capable to demonstrate and suggest exercises for the prevention andmanagement of hypo-kinetic diseases.

CO6: Habit of Engage in sports and games activities including yoga for better lifeskills.

UPY2043: RENEWABLE ENERGY SOURCES

CO1: Describe the details of Solar Thermal energy.

CO2: Describe the solar photovoltaic and wind energy.

CO3: Describe the geothermal energy and energy from biomass.

CO4: Describe the energy from oceans and chemical energy resources.

MASTER OF SOCIAL WORK

PROGRAMME SPECIFIC OUTCOMES OF MSW PROGRAMME

PSO1: Demonstrate ethical and professional behaviour in social work practice.

PSO2: Engage diversity and difference and respond to different contexts of practice.

PSO3: Engage in research-based practice and practice-based research.

PSO4: Demonstrate the skills of assessment, intervention, and evaluation in social work practice in engaging with Individuals, Families, Groups, Organizations, andCommunities.

PSO5: Apply critical thinking to analyse, formulate and advocate for policies that advance human rights, social, economic, and environmental justice.

COURSE OUTCOME

PSW2001: INTRODUCTION TO SOCIAL WORK AND HUMAN SERVICE

CO1: Critically evaluate the shift from social service to professional social work.

CO2: Assess the appropriate methods of social work in respect to the context of practice.

CO3: Demonstrate social work practice adherence to principles, values and code of ethics as elicited in Global Social Work Statement of Ethical Principles.

CO4: Compare and contrast the philosophical understanding of social work profession.

CO5: Distinguish the various fields of professional social work.

PSW2003: SOCIOLOGY AND POLITICAL ECONOMY FOR SOCIAL WORK PRACTICE

CO1: Develop one's own sociological imagination and apply it to societalissues.

CO2: Evaluate the contemporary social problems and the causes that produce these problems.

CO3: Analyse various social phenomena through the lens of different sociological theoretical perspectives.

CO4: Analyse societal and policy level problems using theories of political economy.

CO5: Assess the economic issues and suggest adequate Social Work interventions in addressing it.

PSW 2004: SOCIAL WORK PRACTICE WITH INDIVIDUALS, FAMILIES AND GROUPS

CO1: Demonstrate ethical and professional behaviours based upon principles and values of the helping process in working with individuals, families and groups..

CO2: Articulate and apply core practice theories to case assessment and planning.

CO3: Effectively and collaboratively employ evidence-based interventions to meet client system needs.

CO4: Evaluate the outcomes of the practice of working with individuals, families and groups.

CO5: Demonstrate skills in professional, accurate and effective written and oral communication appropriate to the practice setting.

PSW2005: SOCIAL WORK PRACTICE WITH COMMUNITIES AND ORGANIZATIONS; AND SOCIAL PSYCHOLOGY

CO1: Assess community needs and community organisation process for mezzo social work practice.

CO2: Critically analyse organisation structure of any community based human service organisation in social work practice.

CO3: Appraise the models for community organisation in mezzo social work practice.

CO4: Apply theories of social psychology in the community organisation process as required.

CO5: Develop and design strategies and plan for program implementation for social change.

PSW2007: INTRODUCTION TO MACRO SOCIAL WORK PRACTICE: SOCIAL POLICY, SOCIAL JUSTICE, AND INTERNATIONAL SOCIAL WORK

CO1: Identify social work practice at macro level and apply generalist practice with organisations and communities.

CO2: Perform social action method of social work intervention for macro level structural changes.

CO3: Apply various strategies such as Public Interest Litigation, Right to Information and other techniques relevant to social action.

CO4: Execute social advocacy practice and design policy level intervention plans on local, national and global levels in different fields of social work practice.

CO5: Employ the theoretical and ethical underpinnings and approaches to international social work while practicing social work in diverse global contexts.

PSW2008: SOCIAL WORK RESEARCH

CO1: Design quantitative, qualitative, or mixed methods original research projects independently and ethically, using appropriate methods.

CO2: Construct tools of data collection and Collect data using appropriate methods and instruments.

CO3: Analyse qualitative and quantitative data using suitable data analysis methods and softwares (NVivo/Dedoose and SPSS) and discuss the results.

CO4: Use social work research as a method of social work practice.

CO5: Report/disseminate research findings systematically and effectively in the academic community and to stakeholders in society.

PSW2009: ADMINISTRATION OF HUMAN SERVICE ORGANIZATIONS AND CSR

CO1: Integrate theories, knowledge, skills and values of human services into the operation of human service organizations in a manner that demonstrates flexible thinking.

CO2: Apply decision-making, problem-solving skills and critical thinking to the administration of the human services organization.

CO3: Administer human service organizations in diverse environments in a pluralistic society in a manner that reflects respect for our multicultural world.

CO4: Do marketing of human service organization and its services in social work

CO5: Administer CSR (Corporate Social Responsibility) projects for the sustainable development of the society.

PSW2010: ABNORMAL PSYCHOLOGY

CO1: Use of appropriate theories in social work practice in mental health practice.

CO2: Formulate cases of major psychiatric disorders in clinical social work practice.

CO3: Effectively diagnose psychiatric cases during clinical social work practice.

CO4: Demonstrate ethical and professional behaviour in mental health field.

CO5: Practice in multidisciplinary teams in different mental health care settings.

PSW2011: SOCIAL LEGISLATION AND HUMAN RIGHTS

CO1: Apply legal knowledge to complex problem situations and offer potential solutions within a simulated professional context.

CO2: Apply tools and systems of social defense for advocacy to bring sustainable social change.

CO3: Critically assess the social construction of laws in relation to particular social groups in the context of social justice.

CO4: Appraise the approaches and structures of organisations and networks that advocate human rights and/or are involved in issues of social justice.

CO5: Apply human right based social work interventions to the various practice domains of the profession.

PSW2013 THEORIES AND FRAMEWORKS FOR SOCIAL WORK PRACTICE

CO1: Critically analyze the role of theory in social work practice

CO2: Evaluate the paradigms that influence social work practice

CO3: Apply the theoretical frameworks and epistemologies that guide the practice of

social work in practice at various practice.

CO4: Critically analyze the practice of social work in any fields from a theoretical background

CO5: Create paradigms for specific fields of practice

PSW2014: PARTICIPATORY PROGRAMME PLANNING AND MANAGEMENT

CO1: Develop a participatory framework in undertaking development activities.

CO2: Critically appraise the participatory framework approach by the Government and NGOs.

CO3: Plan and implement projects in a participatory way in social work practice for addressing the developmental needs/solving the problems of a community.

CO4: Effectively use the various techniques and tools of evaluation such as PERT (Program Evaluation Review Technique), CPM (Cost per Mile), GERT (Graphical Evaluation and Review Technique), LOB (Line of business), etc.

CO5: Develop project proposals for Social Work Practice.

PSW2015: INTEGRATED SOCIAL WORK PRACTICE WITH DIVERSE CATEGORIES OF PEOPLE

CO1: Choose the appropriate programmes and services related to child development.

CO2: Demonstrate the various skills of social work in the field of youth development.

CO3: Use the appropriate legislative measures and programmes in the field of women development.

CO4: Apply the basic theories and assessment of gerontological social work.

CO5: Discover the various forms of disability and sketch the available services for the rehabilitation.

PSW2016: DEVELOPMENT SOCIAL WORK –URBAN AND RURAL DEVELOPMENT

CO1: Write a thematic report on the history of development discourse.

CO2: Apply basic concepts and terminologies used by development professionals in the context of social work practice in community development.

CO3: Formulate action plans to address the central development problems globally and locally.

CO4: Prepare and evaluative document on development policies within national and international policy frameworks.

CO5: Critically appraise on rural and urban community development programmes in India.

PSW2017: PSYCHOPATHOLOGY FOR SOCIAL WORK PRACTICE

CO1: Demonstrate ethical and professional behaviour in clinical settings.

CO2: Take psychiatric case history, mental status examination, psychopathology in a psychiatric social work setting.

CO3: Conduct psychosocial diagnosis in mental disorders.

CO4: Analyse the stigma and burden arising from mental illness in the family of people with mental illness.

CO5: Perform the roles of mental health social worker in mental health setting.

PSW2019: ENVIRONMENT AND DISASTER MANAGEMENT

CO1: Identify the natural environment and its interrelatedness with human activities.

CO2: Assess the need for environmental conservation for a sustainable future.

CO3: Prepare an action plan to solve the emerging environmental social issues.

CO4: Implement the prepared action plan to combat an environmental social issue in a given community/ disaster management plan for a given Disaster situation in a community.

CO5: Evaluate the action plan implemented on the ground.

PSW2020: SOCIAL WORK PRACTICE IN THE FIELD OF HEALTH

CO1: Demonstrate competency in the use of specific models in community health settings.

CO2: Apply relevant intervention strategies to achieve desired outcomes in social work health care practice.

CO3: Apply social work ethical practice principles, values and advocacy strategies for addressing health disparity issues and problems that socialworkers confront across the health care continuum.

CO4: Assess the enjoyment of human rights by various client population suchas children, persons with disabilities, Third Gender etc.

CO5: Practice in interdisciplinary teams in different health care settings.

PSW2021: GENDER AND DEVELOPMENT

CO1: Evaluate the intersections between gender and other social and cultural identities, including, but not limited to, race, ethnicity, national origin, religion, class and sexuality.

CO2: Reflect the ways in which societal institutions and power structures impact the material realities of different genders.

CO3: Incorporate feminist theoretical perspectives in problem solving related to gender issues.

CO4: Build connections between global, regional, and local issues, and their relationship to different gender experiences and to human rights.

CO5: Critically engage with contemporary scholarship on gender and development.

PSW2022: SOCIAL WORK PRACTICE IN THE FIELD OF MENTAL HEALTH

CO1: Critically evaluate central, state and local mental health policies impacting the delivery of community mental health services and programmes.

CO2: Explain the causes of behavioral disorders and mental illness and their impact on individuals, families and the society.

CO3: Demonstrate knowledge about the mental health theories and how they are linked to mental health related laws and practice applications.

CO4: Develop step by step framework for assessment, planning, and intervention in mental and behavioral disorders.

CO5: Examine the issues of differential treatment in mental healthcare; including reference to access and utilization rate by the population-at risk, culturally and socially diverse families.

PSW2023: RESEARCH PROJECT

CO1: Design quantitative, qualitative, or mixed methods original research projects independently and ethically, using appropriate methods in social work practice.

CO2: Construct appropriate tools for data collection and collect data.

CO3: Apply appropriate statistical methods and tests to analyse research data using data analysing computer softwares.

CO4: Effectively use social work research as a method for social work practice. **CO5:** Report/disseminate research findings systematically and effectively in theacademic community and to stakeholders in society.

PSW2026: COMPREHENSIVE VIVA VOCE

CO1: Demonstrate ethical and professional behaviour in practice.

CO2: Engage diversity and difference and respond to different contexts of practice.

CO3: Engage in research-based practice and practice based research.

CO4: Apply the knowledge and skills in the helping process in working with Individuals, families, groups, communities and organizations.

CO5: Apply critical thinking to analyse, formulate and advocate for policies that advance human rights, social, economic and environmental justice.

PSW2006: FIELD PRACTICUM - I

CO1: Create 'belief bonding' to effectively engage with the service users in the community.

CO2: Critically evaluate the power structure in the community and appreciate formal and informal power structures in the community.

CO3: Identify the needs and resources in the community with appropriate service users in different context of social work practice.

CO4: Differentiate between social service (voluntarism) and social work practice.

CO5: Develop critical understanding about rural community and working with the community.

PSW2012 FIELD PRACTICUM - II

CO1: Demonstrate social work engagement skills in the community.

CO2: Identify the needs of a community and prioritize the needs.

CO3: Organize communities for a cause/programme to address the community need/issue.

CO4: Demonstrate skills in writing reflective reports about the social work engagement.

CO5: Apply skills in community casework (Micro Practice).

PSW2018: FIELD PRACTICUM – III

CO1: Assess and restructure the organizational structure, administration and functioning of social work agency for effective functioning.

CO2: Practice social work (shadowing) at micro level in their respective field. **CO3:** Practice social work (shadowing) at mezzo level in their respective field. **CO4:** Use research for improving the well being of the people.

CO5: Develop a project proposal for the agency.

PSW2024: FIELD PRACTICUM – IV

CO1: Differentiate the social work organizations work culture based on the handson experience (Study Tour).

CO2: Use communication media as a tool for social work.

CO3: Practice social work (shadowing) at micro level in their respective field.

CO4: Practice social work (shadowing) at mezzo level in their respective field.

CO5: Analyse and make suggestions and/or intervene for improving social welfare programmes of government on policy-legislation particularly in their practice setting.

PSW2025: FIELD PRACTICUM – V

CO1: Take-up job responsibilities related to social work.

CO2: Practice all the methods and skills in social work profession.

CO3: Integrate the theoretical concepts into practice level.

CO4: Demonstrate Ethical and Professional Behaviours in social work practice invarious settings and in working with diverse populations.

CO5: Work in their interest areas within the framework of their field electives.

MASTER OF COMPUTER APPLICATION

PROGRAMME SPECIFIC OUTCOME:

Programme Specific Outcomes (PSO) are statements that describe what the graduates of a specific Programme should be able to do

PSO1: Ability to incorporate standard practices and technological advancements in software development life cycle.

PSO2: Expertise in providing optimized algorithmic solutions

PSO3: Expertise in recent technologies like SMAC (Social, Mobile, Analytics, Cloud), Machine Learning and IOT.

PSO4: Demonstrate skills in ideation, innovation and commercialization of IT products and service.

PMC2001: INTRODUCTION TO PYTHON PROGRAMMING

Upon successful completion of this course, students should be able to:

CO1: Enumerate generic data types and control structures in Python and write simple programs.

CO2: Write functions encompassing different operations on Python Lists,Dictionaries and Tuples.

CO3: Apply object-oriented features, file handling methods and exception handling techniques to Python programs.

CO4: Compare different GUI frameworks and build applications having GUI and database.

CO5: Develop web applications using Django framework.

PMC2002: DATABASE MANAGEMENT SYSTEMS

Upon successful completion of this course, students should be able to:

CO1: Design a database system using appropriate tools like UML (Unified Modeling Language), ER Diagram.

CO2: Compare physical and logical database design.

CO3: Use data manipulation language to query, update and manage a database, Implement DML to perform database management.

CO4: Design a normalized database using database normalization concepts.

CO5: Describe essential DBMS concepts such as database security, integrity,Concurrency, distributed database.

PMC2003: SOFTWARE ENGINEERING

Upon successful completion of this course, students should be able to:

CO1: Describe software process models.

CO2: Identify software requirements engineering activities.

CO3: Develop the skills necessary for software design.

CO4: Describe software-testing strategies.

CO5: Enumerate different software estimation and project schedulingtechniques.

PMC2004: INTRODUCTION TO DATA SCIENCE

Upon successful completion of this course, students should be able to:

CO1: Illustrate the components and functionalities of data mining systems.

CO2: Draw a three tier data warehousing architecture.

CO3: Prepare a dataset for building models.

CO4: Compare the various data mining algorithms.

CO5: Implement Models to explore data.

PMC2005: NETWORKING AND SYSTEM ADMINISTRATION

Upon successful completion of this course, students should be able to:

CO1: Describe basic network architecture and protocols.

CO2: Manage User accounts and files and practice basic backup and restore filesystem.

CO3: Configure SSH.

CO4: Manage SELinux .

CO5: Configure SELinux and Yum.

PMC2006: ENTREPRENEURSHIP AND INNOVATIONS

Upon successful completion of this course, students should be able to:

CO1: Describe the concept of Entrepreneurship.

CO2: Identify and develop Entrepreneurship talents.

CO3: Identify Innovation and generate innovative business ideas in IT.

CO4: Recognize Digital Marketing techniques .

CO5: Demonstrate Presentation Skills.

CO6: Demonstrate effective communication Skills with special preference to Business communication.

PMC2007: PROGRAMMING LAB IN PYTHON

Upon successful completion of this course, students should be able to:

CO1: Develop simple python Programs using basic syntax.

CO2: Develop python programs using python packages.

CO3: Demonstrate simple python programs using Database.

CO4: Demonstrate IDE Jupyter.

PMC2008: MINI PROJECT - I

Upon successful completion of this course, students should be able to:

CO1: Gather the requirements of the project.

CO2: Model the solution using UML.

CO3: Implement the solution using appropriate technology.

CO4: Verify and validate the solution.

PMC2009: DOMAIN EXPERTISE WORKSHOP I

Upon successful completion of this course, students should be able to:

CO1: Build expertise in a particular domain like tourism, hospital etc.

CO2: Interact with clients in their location.

CO3: Gather and document requirements in a professional manner.

PMC2010: PROGRAMMING IN JAVA

Upon successful completion of this course, students should be able to:

CO1: Develop simple Java Programs with arrays, operators and controlstatements.

CO2: Construct programs featuring Classes, Methods, Object creation and initialization.

CO3: Implement Object oriented features like Abstraction, Inheritance & Polymorphism.

CO4: Handle Exceptions and perform IO operations.

CO5: Develop GUIs using frameworks like AWT, SWING and JAVA FX.

CO6: Develop programs with multiple threads and address concurrency issues.

PMC2011: INTERNET TECHNOLOGY AND DATA COMMUNICATION

Upon successful completion of this course, students should be able to:

CO1: Describe the basic concept of Data Transmission in various Generations.

CO2: Familiarize with various networking hardware.

CO3: Describe various networking protocols.

CO4: Familiarize various application protocols.

CO5: Describe the characteristics of multimedia transmission.

PMC2012: DATA STRUCTURE AND ANALYSIS OF ALGORITHMS

Upon successful completion of this course, students should be able to:

CO1: Analyze worst case-running times of algorithms using asymptotic analysis.

CO2: Describe tree and linked list operations.

CO3: Summarize sorting and searching techniques.

CO4: Describe and synthesize the Divide and Conquer, Dynamic Programmingand Greedy paradigms and explain when an algorithmic design situation calls for it.

CO5: Compare between deterministic and non-deterministic algorithms.

PMC2013 - MACHINE LEARNING

Upon successful completion of this course, students should be able to:

CO1: Analyze the basic concept of Machine Learning.

CO2: Implement Data Preprocessing in Python.

CO3: Implement various classification algorithms in Python.

CO4: Implement various regression methods in ML.

CO5: Demonstrate Artificial Neural Networks using Python.

PMC2014: CLOUD COMPUTING

Upon successful completion of this course, students should be able to

CO1: Analyse the basic concepts of cloud computing.

CO2: Compare the various cloud implementations and migration techniques.

CO3: Evaluate various industrial applications of cloud computing.

CO4: Detect security challenges and assess preventive measures in cloud computing.

CO5: Demonstrate live case studies and implement private cloud.

PMC2015: PRESENTATION AND COMMUNICATION SKILLS

Upon successful completion of this course, students should be able to:

CO1: Demonstrate Group Discussions and Debating Skills.

CO2: Demonstrate Self-confidence and positive approach towards life.

PMC2016: PROGRAMMING LAB IN JAVA

Upon successful completion of this course, students should be able to:

CO1: Develop simple Java Programs with arrays, operators and control statements.

CO2: Construct programs featuring Classes, Methods, Object creation andinitialization.

CO3: Implement Object oriented features like Abstraction, Inheritance & Polymorphism.

CO4: Handle Exceptions and perform IO operations.

CO5: Develop GUIs using frameworks like AWT, SWING and JAVA FX.

CO6: Develop programs with multiple threads and address concurrency issues.

PMC2017: MINI PROJECT - II AND PROJECT PRESENTATION

Upon successful completion of this course, students should be able to:

CO1: Write a Software Requirement Specification.

CO2: Design classes for the required specifications.

CO3: Implement solutions for the required specification.

CO4: Test the software.

CO5: Present the project work in front of an audience.

PMC2018 - SOCIAL INITIATIVES

Upon successful completion of this course, students should be able to:

CO1: Identify an area of intervention in the local community.

CO2: Plan, organize and conduct supporting activities needed for intervention.

CO3: Develop skills required to work in a team.

PMC2019: OPERATIONS RESEARCH

Upon successful completion of this course, students should be able to:

CO1: Translate a real-world problem into a mathematical formulation.

CO2: Demonstrate the ability to optimize with tools from linear programming,probability, statistics, simulation, game theory, Queuing Theory etc. in contexts involving uncertainty and scarce or expensive resources.

CO3: Formulate and solve mathematical model (linear programming problem)by applying the concept of simplex method and its extensions.

CO4: Identify the resources required for a project, generate a plan, and work schedule.

CO5: Apply project management tools like CPM/PERT that ensures successful completion of projects.

PMC2020: ARTIFICIAL INTELLIGENCE

Upon successful completion of this course, students should be able to

CO1: Formulate an AI problem by listing its environment tasks.

CO2: Choose a learning method for a given situation.

CO3: Demonstrate multilayer neural networks.

CO4: Describe the working principle of Natural Language Processing.

CO5: Implement face recognition algorithms in OpenCV.

PMC2020: ARTIFICIAL INTELLIGENCE

Upon successful completion of this course, students should be able to

CO1: Formulate an AI problem by listing its environment tasks.

CO2: Choose a learning method for a given situation.

CO3: Demonstrate multilayer neural networks.

CO4: Describe the working principle of Natural Language Processing.

CO5: Implement face recognition algorithms in OpenCV.

PMC2021A: BIG DATA ANALYTICS

Upon successful completion of this course, students should be able to:

CO1: Detect big Data and various analytical platforms.

CO2: Choose the components of Hadoop ecosystem.

CO3: Choose the algorithms to perform classification.

CO4: Compare and evaluate various clustering methods.

CO5: Implement various data visualization techniques.

PMC2021B: CONFIGURATION MANAGEMENT AUTOMATION

Upon successful completion of this course, students should be able to:

CO1: Describe Configuration Management.

CO2: Describe different types of automation tools.

CO3: Implement Ansible Playbooks.

CO4: Automate System Administration tasks.

PMC2021C: MOBILE APPLICATION DEVELOPMENT

Upon successful completion of this course, students should be able to:

CO1: Describe the Android architecture and basic workflow of building an Android application.

CO2: Construct GUI layouts with various UI elements and activity life cycle.

CO3: Develop apps containing fragments, background tasks and databasestorage.

CO4: Build apps containing media playback and geo features.

CO5: Leverage the Firebase cloud storage features in the app design and publish the app in the Google Play Store.

PMC2022A: DATA ANALYTICS WITH R

Upon successful completion of this course, students should be able to:

CO1: Configure R environment for development of application.

CO2: Develop functional applications using R scripting.

CO3: Develop application, which processes CSV files.

CO4: Develop application with visualization.

CO5 Apply basic statistical operation using R.

PMC2022B: NETWORK AND INFORMATION SECURITY

Upon successful completion of this course, students should be able to:

CO1: Evaluate the security threats in modern computer era.

CO2: Define and identify firewall and network filtering.

CO3: List and recognize various VPN.

CO4: Identify different technique of sandboxing.

CO5: Distinguish various ethical hacking and testing procedures.

PMC2022C: WEB PROGRAMMING USING PHP

Upon successful completion of this course, students should be able to:

CO1: Analyze the basic concepts of internet technology.

CO2: Develop a website using html, JavaScript and CSS.

CO3: Read, write and execute PHP programs.

CO4: Develop PHP programs with database connectivity.

CO5: Develop PHP application using a framework.

PMC2023: MINI PROJECT- III

Upon successful completion of this course, students should be able to:

CO1: Gather the requirements of the project.

CO2: Model the solution using UML.

CO3: Implement the solution using appropriate technology.

CO4: Verify and validate the solution.

PMC2024: INTERNSHIP

Upon successful completion of this course, students should be able to:

CO1: Obtain experience working as a professional Developer.

CO2: Apply your technical knowledge to a real-life situation.

CO3: Work with other professionals related to your industry.

CO4: Increase your technical, interpersonal and communication skills.

CO5: Observe interactions of engineers with other professional groups.

CO6: Witness the functioning and organization of business and companies.

PMC2025: DOMAIN EXPERTISE WORKSHOP II

Upon successful completion of this course, students should be able to:

CO1: Build expertise in a particular domain like tourism, hospital etc.

CO2: Interact with clients in their location.

CO3: Gather and document requirements in a professional manner.

PMC2026: INNOVATIVE INITIATIVES

Upon successful completion of this course, students should be able to:

CO1: Integrate the technological and industrial knowledge into the curriculum.

CO2: Reflect on experiences of creativity and innovation at work.

CO3: Experience the ethical side of paper publishing, international certification, live.

PMC2027: FAMILIARISING OPEN-SOURCE SOFTWARE

Upon successful completion of this course, students should be able to:

CO1: Install, customize and perform different administrative tasks on Learning Management System.

CO2: Install, customize and perform various administrative tasks on Content Management System.

CO3: Install, customize and perform various administrative tasks on Library Management System.

CO4: Perform basic operations on a source configuration management tool.

PMC2028: COMPETENCY ENHANCEMENT TRAINING

Upon successful completion of this course, students should be able to:

CO1: Understand, analyze and solve various mathematical problems and thereby improve their problem-solving skills.

CO2: Demonstrate verbal and non-verbal reasoning problem solving skills.

CO3: Improve technical aptitude on C, C++, Data structures, etc.

CO4: Demonstrate entrepreneurship skills.

PMC2028: COMPETENCY ENHANCEMENT TRAINING

Upon successful completion of this course, students should be able to:

CO1: Understand, analyze and solve various mathematical problems and thereby improve their problem-solving skills.

CO2: Demonstrate verbal and non-verbal reasoning problem solving skills.

CO3: Improve technical aptitude on C, C++, Data structures, etc.

CO4: Demonstrate entrepreneurship skills.

PMC2029: DOMAIN EXPERTISE WORKSHOP III

Upon successful completion of this course, students should be able to:

CO1: Build expertise in a particular domain like tourism, hospital etc.

CO2: Interact with clients in their location.

CO3: Gather and document requirements in a professional manner.

PMC2030: MAIN PROJECT

Upon successful completion of this course, students should be able to:

CO1: Gather and document (SRS) the requirement of use case.

CO2: Model the application using UML.

CO3: Design the data store layout.

CO4: Implement solution using suitable tools and technologies.

CO5: Validate and verify the solution.

PMC2031: VIVA VOCE

Upon successful completion of this course, students should be able to:

CO1: Assess themselves regarding knowledge gained during program.

CO2: Face a prospective technical interview.

BACHELOR OF ARTS IN ENGLISH

PROGRAMME SPECIFIC OUTCOMES

On successful completion of BA Program in English Literature, Communication and Journalism (BA Communicative English), the learners will be able to:

PSO1: Demonstrate global competencies in listening, speaking, reading, writing and thinking skills in English.

PSO2: Analyze the literary merits of the works of major authors of every literary period.

PSO3: Apply communication skills relevant to professions like Journalism, Public Relations and Visual Media.

PSO4: Apply Information and Communication Technology (ICT) in Media to enhance their verbal, written and digital communication skills.

PSO5: Evaluate socio-cultural realities around them through the literature and theory they have learned.

COURSE OUTCOME

UEN2001: HISTORY OF ENGLISH LITERATURE (PART I)

On completion of the course, the students will be able to:

CO1: Demonstrate a basic historical knowledge ranging over time, space, and cultures that includes an understanding of change and continuity over time.

CO2: Exemplify how literature influences the social and political history of eachperiod.

CO3: Compare English Literature of one period with that of another.

CO4: Describe how the religious, social and political history of England influencesthe English writers from 6th to 18th centuries.

CO5: Understand salient literary trends and movements from Anglo Saxon period to18th century.

UEN2002: A MOSAIC OF PROSE

On completion of the course, the students will be able to:

CO1: Differentiate and relate different varieties of prose.

CO2: Create a prose composition employing the strategies of a specified genre.

CO3: Evaluate the various political, environmental, social, historical and culturalaspects associated with the literary texts.

CO4: Analyse literary prose texts critically.

CO5: Demonstrate an independent appreciation of the given prose text.

UEN2003: LITERARY STUDIES: A METHODOLOGY

On completion of the course, the students will be able to

CO1: Sketch the emergence of literature as a specific discipline within the humanities.

CO2: Apply the tenets of literary theory in the analysis of texts.

CO3: Explain the shift towards contextual-political critiques of literary studies.

CO4: Identify the questions raised by Cultural Studies and Feminism(s).

CO5: Analyse the issues of subalternity and regionality in the literary domain.

UEN2004: INTRODUCTION TO JOURNALISM AND COMMUNICATION

On completion of the course, the students will be able to

CO1: Understand the advancement of journalistic practices.

CO2: Understand the basic concepts and terminologies in journalism.

CO3: Analyse traditional and modern journalism practices.

CO4: Understand the evolution and development of human communication.

CO5: Analyze types of communication.

UEN2005: PUBLIC RELATIONS

On completion of the course, the students will be able to

CO1: Evaluate and manage perceptions of the public regarding an organization.

CO2: Develop public relation strategies.

CO3: Apply crisis communication methods.

CO4: Analyse public relation campaigns in different fields.

CO5: Understand the theoretical aspects of public relations.

UEN2006: REMEDIAL ENGLISH GRAMMAR

On completion of the course, the students will be able to

CO1: Use grammatically acceptable English in speech and writing.

CO2: Identify and rectify the common errors in speech and writing.

CO3: Understand various sentence structures and punctuation rules.

UEN2007: INTRODUCTION TO THE STUDY OF LITERATURE

Course Outcomes: On completion of the course, the students will be able to:

CO1: Identify different types of poetry and analyze stanza forms.

CO2: Differentiate between different types of drama and identify the dramaticdevices in a given play.

CO3: Understand the characteristics of different types of prose and explain thesignificance of each.

UEN2008: BASIC SKILLS IN COMMUNICATION

On completion of the course, the students will be able to

CO1: Demonstrate knowledge of the International Phonetic Alphabet and be able to perform phonetic experiments.

CO2: Analyze the key aspects of English phonetics, including prosodic features.

CO3: Demonstrate listening strategies appropriate to various situations.

UEN2009: HISTORY OF ENGLISH LITERATURE (PART II)

On completion of the course, the students will be able to

CO1: Delineate major writers and their works in chronological order.

CO2: Analyse how the religious, social and political history of England influences the English writers from the 19th to the 21st centuries.

CO3: Discuss how literature influences the social and political history of each period.

CO4: Classify all major literary genres.

CO5: Compare English Literature of one period with that of another.

UEN2010: FICTION

On completion of the course, the students will be able to

CO1: Distinguish between different genres of popular fiction.

CO2: Identify, interpret, compare and contrast specific character types from various genres.

CO3: Analyze the themes and the setting of a fictional work.

CO4: Interpret textual meaning and evaluate how the meaning is achieved throughthe aspects of plot, setting, these, characters, etc.

CO5: Examine the historical, political and cultural influences in literature.

UEN2011: BROADCAST JOURNALISM

On completion of the course, the students will be able to:

CO1: Describe the different writing styles and the varieties of technologies used forprogram production.

CO2: Design and create broadcast packages by incorporating elements of sound,interviews and voice-over.

CO3: Write in the broadcast style in compliance with the ethical and practicalprinciples.

CO4: Explain and appraise the story structure and the elements of news shows.

CO5: Describe the fundamental and advanced concepts and practices of variousbroadcast media.

UEN2012: PRINT MEDIA: REPORTING, WRITING AND EDITING

Course Outcomes: On completion of the course, the students will be able to

CO1: Create news, copy and feature stories.

CO2: Illustrate different styles of news writing.

CO3: Differentiate and explain various forms of reporting.

CO4: Communicate to mass audience in writing.

CO5: Summarize the operations, functions and duties of the editorial department.

CO6: Develop interviewing skills, improved listening and observational skills.

UEN2013: PHOTOGRAPHY

Course Outcomes: On completion of the course, the students will be able to

CO1: Understand the parts of a camera.

CO2: Learn how to operate a camera and click photographs.

CO3: Distinguish between different types of lenses.

CO4: Identify various types of lights and their applications.

CO5: Explain the different rules of photography.

CO6: Identify various types of lights and their applications.

CO7: Explain the different rules of photography.

UEN2014: LIFE SKILLS

On completion of the course, the students will be able to

CO1: Identify the differences between 'education for life' and 'education for living.

CO2: Identify the intellectual skills that help earn living and

interpersonal skills/psycho-social competencies.

CO3: Distinguish between expressions of emotions and management of emotions.

CO4: Analyse the turmoil resulting from entangled relationships and ensuing

frommedia and peer pressure.

CO5: Review and summarize the implications of psychological maturity and

social responsibility.

UEN2015: INDIAN WRITING IN ENGLISH

On completion of the course, the students will be able to

CO1: Classify the major genres in Indian Writing in English.

CO2: Analyze and appreciate the unique features of Indian Writing in English.

CO3: Evaluate the nationalistic and postcolonial aspects of Indian Writing in English.

CO4: Evaluate the major class/caste issues in the context of Indian Literature.

CO5: Analyse the use of myth in Indian Writing in English and its

contemporaryrelevance.

UEN2015: INDIAN WRITING IN ENGLISH

On completion of the course, the students will be able to

CO1: Classify the major genres in Indian Writing in English.

CO2: Analyze and appreciate the unique features of Indian Writing in English.

CO3: Evaluate the nationalistic and postcolonial aspects of Indian Writing in English.

CO4: Evaluate the major class/caste issues in the context of Indian Literature.

CO5: Analyse the use of myth in Indian Writing in English and its contemporaryrelevance.

UEN2016: POETRY

On completion of the course, the students will be able to

CO1: Differentiate the various elements and types of poetry.

CO2: Specify and interpret the figurative language used in poems.

CO3: Examine the prosody employed by poets.

CO4: Develop an understanding of the representation of poetry in various historicperiods and cultures.

CO5: Appreciate and critique poetry as a literary art form.

UEN2017: LANGUAGE AND LINGUISTICS

On completion of the course, the students will be able to

CO1: Explain the functions of the major organs involved in speech production and demonstrate how they are involved in articulating phonemes.

CO2: Distinguish between phonetic and phonemic transcriptions and apply their knowledge of the phonemes to speak globally intelligible English in a neutralaccent.

CO3: Analyze and examine the growth, change and development process of Englishlanguage.

CO4: Formulate the basic ideas of English Language Teaching (ELT) and recognizethe relationship between Second Language Acquisition and learning.

CO5: Identify the different methodologies and various approaches used in TeachingEnglish to Speakers of Other Languages (TESOL), Teaching English as a Foreign Language (TEFL) and Teaching English as a Second Language (TESL).

UEN2018: RESEARCH METHODOLOGY, ACADEMIC AND PROFESSIONAL WRITING

On completion of the course, the students will be able to

CO1: Understand the basic framework of the process of research and develop anaptitude for research.

CO2: Analyse and synthesize information from authentic academic sources.

CO3: Analyse and synthesize information from authentic academic sources.

CO4: Write book reviews, abstracts and short conference papers.

CO5: Apply the techniques of academic and professional writing in their articles.

CO6: Use MLA format in documenting sources and preparing works cited list.

UEN2019: ADVERTISING

Course Outcomes: On completion of the course, the students will be able to

CO1: Critically evaluate different types of advertisements.

CO2: Examine the role of various media in the marketing process.

CO3: Examine the social and ethical issues surrounding an advertisement.

CO4: Develop their writing skills and produce various copy texts.

CO5: Describe the current developments and problems in the field of advertising.

UEN2020: INTRODUCTION TO DESIGNING ON COMPUTERS

On completion of the course, the students will be able to

CO1: Edit and design images.

CO2: Understand and explain the tools in a designing software.

CO3: Judge and classify designs on the basis of technical quality.

CO4: Design a newsletter on a computer.

CO5: Understand and explain the differences between raster and vector.

UEN2021: COMPARATIVE LITERATURE

On completion of the course, the students will be able to:

CO1: Develop strategies and methodologies in the study of literatures in comparison.

CO2: Demonstrate knowledge in the major components of Comparative Literature.

CO3: Undertake a methodological investigation of problems involving more thanone literature so that he/she may acquire a broader sense of literary history and tradition.

CO4: Critically analyse literary texts in the broader perspective of World Literature.

CO5: Compare literary texts from different historical and literary backgrounds.

UEN2022: DRAMA

Department of Communicative English

CO1: Analyze the history of theatre, with particular attention to the evolution ofstylistic and aesthetic trends.

CO2: Compare and contrast various schools and forms of drama.

CO3: Examine the use of theatrical devices.

CO4: Represent and enact a play, or part of it, written by a native or foreign dramatist.

CO5: Assess the verbal and visual language of drama.

UEN2023: CREATIVE AND TECHNICAL WRITING

On completion of the course, the students will be able to

CO1: Recognize imagination as the shaping force of creative writing.

CO2: Analyze and select Geoff Petty's six-phase model, called ICEDIP, as the beststrategy for successful creative writing.

CO3: Practice their creative voice in nonfiction such as biographical and autobiographical essays, feature articles, travel writing and diaries.

CO4: Create fictional writing in the form of short stories, short crime fiction and novelettes, as well as short lyrics and sonnets, script writing for one-act plays,radio plays and sitcoms.

CO5: Create digital and technical writings such as content writing, blogging andscript writing.

UEN2024: DIGITAL MEDIA AND SOCIETY

On completion of the course, the students will be able to:

CO1: Analyze and evaluate the impact of digital media on society.

CO2: Use digital media effectively when campaigning for a social cause.

CO3: Distinguish between positive and negative uses of digital media.

CO4: Arrange digital media uprisings chronologically.

CO5: Deconstruct and explain internet metaphors.

UEN2025: ICT FOR COMMUNICATIVE ENGLISH (PRACTICE)

On completion of the course, the students will be able to

CO1: Prepare an MS word document based on formatting guidelines.

CO2: Create a blog, customize it and publish posts based on a theme of their choice.

CO3: Use various Google Drive Apps to collaborate online.

CO4: Design a poster with an image editing tool.

CO5: Create a short video and publish it on YouTube.

UEN2026: KNOW THE PEOPLE AROUND YOU AND THEIR LIVES

On completion of the course, the students will be able to

CO1: Illustrate different ways in which social responsibility can be undertaken.

CO2: Develop skills to break an issue into various modules and resolve themeffectively.

CO3: Conduct independent research and generate relevant reports.

UEN2027: LITERARY CRITICISM AND THEORY

On completion of the course, the students will be able to

CO1: Explain the nature of literary criticism based on classical Greek paradigms.

CO2: Analyze the historical development of criticism.

CO3: Define literary theory and criticism.

CO4: Develop an aptitude for critical analysis of literary works.

CO5: Produce interpretations of literary works in the light of various critical approaches.

CO6: Compare and contrast the major trends in literary theory in the 20th century.

UEN2028: POSTCOLONIAL LITERATURE

On completion of the course, the students will be able to

CO1: Explain the key concepts of Postcolonial theory.

CO2: Evaluate the common features that characterize writings from differentcountries.

CO3: Develop the skill to apply postcolonial theories in interpreting a text.

CO4: Examine how Postcolonial writers respond to social and ethical issues.

CO5: Discuss how a literary text represent various aspects of colonial oppression.

UEN2029: ENGLISH FOR FORMAL OCCASIONS (PRACTICE)

On completion of the course, the students will be able to

CO1: Deliver a good speech.

CO2: Do anchoring, comparing and emceeing for formal programmes.

CO3: Demonstrate their good communication skills in a job interview.

CO4: Effectively participate in a group discussion.

CO5: Organize and conduct a formal meeting.

UEN2029: ENGLISH FOR FORMAL OCCASIONS (PRACTICE)

On completion of the course, the students will be able to

CO1: Deliver a good speech.

CO2: Do anchoring, comparing and emceeing for formal programmes.

CO3: Demonstrate their good communication skills in a job interview.

CO4: Effectively participate in a group discussion.

CO5: Organize and conduct a formal meeting.

UEN2030: MEDIA LAWS AND ETHICS

On completion of the course, the students will be able to

CO1: Evaluate the ethical issues in the field of journalism.

CO2: Analyze the relevance and the need for control on media contents in Indiansociety.

CO3: Explain the principles of journalistic ethics and the significance of ethical andresponsible journalism.

CO4: Explain different media laws and their recent amendments.

CO5: Evaluate how media laws differ across platforms and media.

UEN2031: ENVIRONMENTAL STUDIES AND HUMAN RIGHTS THROUGHLITERATURE

On completion of the course, the students will be able to

CO1: Recognize that our life-support system is maintained by all the species thatmake-up the biosphere, so that they are prepared to sustain biodiversity at allcosts.

CO2: Develop observation skills and critical thinking and apply them to the analysisof a problem-infested environment.

CO3: Analyze the principles of ecology and the environmental damage to life-supportive elements such as air, land and water on a global scale.

CO4: Develop a plan to counteract the overall impact of a specific issue, whetherlocal or global, sketching out an effective environment management plan.

CO5: Develop empathy and respect for human rights and their application in Indiancontext.

UEN2032: FILM STUDIES

On completion of the course, the students will be able to

CO1: Define MoJo and shed clarity on the concept.

CO2: Conceptualize, shoot and edit mobile videos on socially pressing themes.

CO3: Publish mobile video on social media platforms.

CO4: Recall viral videos from the past.

CO5: Distinguish newsworthy and non-newsworthy occurrences.

UEN2034: CULTURE AND CINEMA

On completion of the course, the students will be able to

CO1: Evaluate Culture as a construct and the debates related to it.

CO2: Examine the key concepts in culture and cinema and judge how they influencesociety.

CO3: Identify the major genres of film and its basic terminology.

CO4: Demonstrate a critical attitude towards reading and understanding aspects of culture.

CO5: Analyze, write and discuss cinema as a cultural artifact and discern theideological processes at work.

CO6: Interpret literature in art/cinema and vice versa through the close study ofadaptations.

UEN2035: DALIT WRITING

On completion of the course, the students will be able to

CO1: Identify the unique features of Dalit writing.

CO2: Discuss the development of Dalit Literature.

CO3: Analyse common themes occurring in Dalit Literature.

CO4: Develop a sensitive and compassionate approach to Dalit life, experiences andissues.

CO5: Identify role models belonging to Dalit class who have impacted the world.

UEN2036: GENDER PERSPECTIVES IN LITERATURE

On completion of the course, the students will be able to

CO1: Formulate how class, race and gender influence literature.

CO2: Analyze the diverse spectrum of gender and identify the concerns of the same.

CO3: Justify the need for feminism and recognize the need to move from womenspecific issues to gender specific ones.

CO4: Examine the biases in the portrayal and construction of gender and patriarchalnorms.

CO5: Evaluate their idea of gender roles and demonstrate an educated sensibility inconcepts regarding sex and gender.

UEN2037: DEVELOPMENT COMMUNICATION

On completion of the course, the students will be able to

CO1: Demonstrate competency in human relational interaction.

CO2: Assess the impact of culture on communication.

CO3: Draft research essays in the discipline.

CO4: Apply effective human communication in developmental activities.

CO5: Design and develop ICT materials.

CO6: Experiment in social marketing and social advertising.

UEN2038: INTERNSHIP

On completion of the course, the students will be able to

CO1: Draft stories for a newspaper.

CO2: Differentiate between features stories and news articles.

CO3: Summarize events and newsworthy instances.

CO4: Evaluate the difference between Journalism theory and practice.

CO5: Create newsletters and magazines.

UEN2032: FILM STUDIES

CO1: Develop critical and appreciative skills in film viewing.

CO2: Write reviews and critiques on films.

CO3: Examine the verbal and non-verbal messages in films and how they influencethe socio-political-cultural behavior of people.

CO4: Observe the operation of sound and color in films.

CO5: Outline the processes of film production, including pre-production, production,and postproduction.

CO6: Draft research essays in the discipline.

UBM2038A: CAPITAL MARKET & INVESTMENT MANAGEMENT

Explain the components of Indian Financial System

CO1: Appreciate the significance of SEBI as a regulatory mechanism in the IndianCapital Market.

CO2: Develop an ability to start micro scale investment in stock market.

CO3: Familiarize with different dimensions of derivative trading.

CO4: Explain the functioning of new issue market and identify the majorintermediaries.

CO5: Identify the major stock exchanges of India and appreciate the role played bythem in terms of capital raised.

UBM2038B: FUNDAMENTALS OF ACCOUNTING

CO1: Describe accounting concepts and conventions required for the business.enterprise.

CO2: Pass journal entries by understanding the rules of double entry system ofaccounting.

CO3: Prepare ledgers, which include different types of cashbook and balancing of the accounts.

CO4: Prepare trial balance by understanding the format in order to ensure thearithmetical accuracy.

CO5: Create final accounts of the sole proprietorship by understanding the nature ofaccounts.

UEC2027: COURSE: FUNDAMENTALS OF ECONOMICS

CO1: Apply basic concepts of economics of demand and supply.

CO2: Analyze and demonstrate the expenditure pattern of a country.

CO3: Critically evaluate the functioning of financial system.

CO4: Evaluate the planning system and strategies.

CO5: Apply basic concepts of economics of demand and supply.

UBC2030: INTERNET AND DIGITAL MARKETING

CO1: Understand the basic concepts of Internet and Cyber laws.

CO2: Develop web pages using HTML.

CO3: Acquire basics of digital marketing concepts.

CO4: Discuss about the various business drivers in the digital world.

CO5: Familiarize with E-commerce and online tools for marketing.

UMA2030: APPLICABLE MATHEMATICS

CO1: Solve quadratic equations.

CO2: Plot points and draw graphs of straight lines.

CO3: Use problem solving techniques for aptitude problems.

CO4: Find the derivatives and integration of functions.

CO5: Define outcomes, sample space and events.

UBB2024: BRAND MANAGEMENT

CO1: Demonstrate a fair understanding about key principles of branding.

CO2: Discuss and apply different strategies for promoting brands and types ofbranding.

CO3: Design and implement brand strategies that consider brand naming, logo and its types.

CO4: Cognize and apply brand positioning strategies.

CO5: Demonstrate and apply knowledge of different brand extension strategies.

USW2021: DEVELOPMENT COMMUNICATION

CO1: Explain basic concepts in development communication.

CO2: Demonstrate understanding on theoretical frameworks of developmentcommunication.

CO3: Apply various communication strategies in practice.

CO4: Use various communication techniques for development program.

CO5: Demonstrate skills in public speaking and organizing conferences and seminars.

UPE2001: PHYSICAL HEALTH AND LIFE SKILLS EDUCATION

CO1: Ability to search appropriate sources of information about physical fitness and its components.

CO2: Suggest set of exercises or activities to maintain or improve efficiency ofdifferent body systems.

CO3: Ability to suggest combination of nutrients and its various sources for balanceddiet.

CO4: .Application of first aid and its procedure for common injuries.

CO5: Capable to demonstrate and suggest exercises for the prevention andmanagement of hypo-kinetic diseases.

CO6: Habit of Engage in sports and games activities including yoga for better lifeskills.

UPY2043: RENEWABLE ENERGY SOURCES

CO1: Describe the details of Solar Thermal energy.

CO2: Describe the solar photovoltaic and wind energy.

CO3: Describe the geothermal energy and energy from biomass.

CO4: Describe the energy from oceans and chemical energy resources.