# MARIAN COLLEGE KUTTIKKANAM

( AUTONOMOUS )

# Typical Illustrations of

# Subject-wise POs-PSOs-COs

# TABLE OF CONTENTS

| Course Code | Course | L | T | P | Credits |
|---|---|---|---|---|---|
| UBC2116 | Virtualization and Cloud (Core Course) | 4 | 0 | 0 | 4 |

CO-PO Mapping

| | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PO1 | 3 | 3 | 3 | 3 | 3 |
| PO2 | 2 | 2 | 2 | 2 | 2 |
| PO3 | 2 | 2 | 2 | 2 | 2 |
| PO4 | 1 | 1 | 1 | 1 | 1 |
| PO5 | 1 | 1 | 1 | 1 | 1 |
| PO6 | 2 | 2 | 2 | 2 | 2 |
| PO7 | 1 | 2 | 1 | 1 | 1 |
| PO8 | 1 | 2 | 2 | 2 | 1 |
| PO9 | 1 | 1 | 1 | 1 | 1 |

CO-PSO Mapping

| | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PSO1 | 3 | 3 | 3 | 3 | 3 |
| PSO2 | 3 | 3 | 3 | 3 | 3 |
| PSO3 | 3 | 3 | 3 | 3 | 3 |
| PSO4 | 3 | 3 | 3 | 3 | 3 |
| PSO5 | 3 | 3 | 3 | 3 | 3 |

COURSE-PO Mapping

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|---|---|---|---|---|---|---|---|---|---|
| | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 |

Course Outcome

| CO1 | Describe the features of parallel and distributed computing application. |
|---|---|
| CO2 | Describe the working of a data center |
| CO3 | Maintain host machine in a virtualization environment |

| CO4 | Learn to choose appropriate cloud platform for deployment of web services |
|-----|--------------------------------------------------------------------------|
| CO5 | Understand the hybrid cloud fundamentals. |

Program Outcome

| PO1 | Domain Knowledge |
|-----|------------------|
| PO2 | Communicative competence |
| PO3 | Proficiency in using Modern Technologies |
| PO4 | Reflective response to ethical and social issues |
| PO5 | Sustainability values |
| PO6 | Critical thinking and Problem Solving |
| PO7 | Entrepreneurship and Leadership |
| PO8 | Team work |
| PO9 | Self-Directed and Lifelong Learning |

Program Specific Outcome

| 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 Code | Course | L | T | P | Credits |
|---|---|---|---|---|---|
| PMM2032A | Securities Analysis and Portfolio Management (Core Course) | 5 | 0 | 0 | 3 |

CO-PO Mapping

|  | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PO1 | 3 | 3 | 3 | 3 | 3 |
| PO2 | 3 | 3 | 3 | 3 | 3 |
| PO3 | 1 | 1 | 1 | 1 | 1 |
| PO4 |  |  |  |  |  |
| PO5 |  |  |  |  |  |
| PO6 | 3 | 3 | 3 | 3 | 3 |
| PO7 | 1 | 1 | 1 | 1 | 1 |
| PO8 | 3 | 3 | 3 | 3 | 3 |
| PO9 | 3 | 3 | 3 | 3 | 3 |

CO-PSO Mapping

|  | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PSO1 | 3 | 3 | 3 | 3 | 3 |
| PSO2 | - | - | - | - | - |
| PSO3 | 2 | 2 | 2 | 2 | 2 |
| PSO4 | - | - | - | - | - |

COURSE-PO Mapping

|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|---|---|---|---|---|---|---|---|---|---|
|  | 3 | 3 | 1 | - | - | 3 | 1 | 3 | 3 |

Course Outcome

| CO1 | Acquire the conceptual understanding of investment, its different avenues and process |
|---|---|
| CO2 | Apply fundamental analysis to estimate the intrinsic value of securities |
| CO3 | Forecasting future price movements of securities by applying appropriate tools of technical analysis |

| CO4 | Construction, analysis and selection of optimal portfolio for investment |
|---|---|
| CO5 | Revise and evaluate the portfolio combining different asset classes which best suits an investor's risk-return profile |

Program Outcome

| PO1 | Domain Knowledge |
|---|---|
| PO2 | Communicative competence |
| PO3 | Proficiency in using Modern Technologies |
| PO4 | Reflective response to ethical and social issues |
| PO5 | Sustainability Values |
| PO6 | Critical thinking and Problem Solving |
| PO7 | Entrepreneurship and Leadership |
| PO8 | Team work |
| PO9 | Self-Directed and Lifelong Learning |

Program Specific Outcome

| PSO1 | Identify and analyze business problems and finding solutions by applying scientific methods. |
|---|---|
| PSO2 | Able to explore business opportunities and translate them into sustainable, ethically responsible and globally competitive business ventures |
| PSO3 | Able to integrate modern technology and professionalism to meet the expectations of modern corporate world. |
| PSO4 | Able to use domain knowledge and ICT enabled teaching technologies to pursue a career in teaching. |

| Course Code | Course | L | T | P | Credits |
|---|---|---|---|---|---|
| UBM2037A | Income Tax | 5 | 0 | 0 | 4 |

CO-PO Mapping

|  | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PO1 | 3 | 3 | 3 | 3 | 3 |
| PO2 | 3 | 3 | 2 | 2 | 3 |
| PO3 | 1 | 2 | 3 | 3 | 3 |
| PO4 | 3 | 2 | 1 | 1 | 2 |
| PO5 | 1 | 1 | 1 | 1 | 1 |
| PO6 | 2 | 3 | 3 | 3 | 3 |
| PO7 | 2 | 2 | 2 | 2 | 3 |
| PO8 | 1 | 2 | 2 | 1 | 2 |
| PO9 | 3 | 3 | 3 | 3 | 3 |

CO-PSO Mapping

|  | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PSO1 | 3 | 3 | 3 | 3 | 3 |
| PSO2 | 3 | 3 | 3 | 2 | 1 |
| PSO3 | 1 | 2 | 1 | 2 | 2 |
| PSO4 | 1 | 2 | 3 | 2 | 2 |
| PSO5 | 1 | 2 | 2 | 3 | 2 |
| PSO6 | 2 | 3 | 3 | 3 | 3 |

COURSE-PO Mapping

|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|---|---|---|---|---|---|---|---|---|---|
|  | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 |

Course Outcome

| CO1 | 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 the provisions of Section 5 & 6 of Income Tax Act 1961 |
|-----|---|
| CO3 | CO3. Assess the salary income of an individual assesses according to Section 15 – 17 |
| CO4 | CO4. Assess the Income from House Property as per Section 22 -27 |
| CO5 | CO5. Assess the Profits & Gains of Business and Profession as per Section 28 - 44 |

Program Outcome

| PO1 | Domain Knowledge |
|-----|---|
| PO2 | Communicative competence |
| PO3 | Proficiency in using Modern Technologies |
| PO4 | Reflective response to ethical and social issues |
| PO5 | Sustainability values |
| PO6 | Critical thinking and Problem Solving |
| PO7 | Entrepreneurship and Leadership |
| PO8 | Team work |
| PO9 | Self-Directed and Lifelong Learning |

Program Specific Outcome

| PSO1 | Apply knowledge of generally accepted accounting principles (GAAP), standards and management accounting in business organizations; |
|------|---|
| PSO2 | Apply relevant statutory regulations and ethical standards in situations commonly faced by managers and identify the impacts of business actions on stakeholders; |
| PSO3 | Create and present business plans that articulate and apply the knowledge of financial, operational, organizational, market, and sales knowledge thus, demonstrating entrepreneurial skills; |
| PSO4 | Demonstrate the ability to use technologies relevant in the Micro and Macro business environment; |
| PSO5 | Demonstrate professional research skills by finding, interpreting and guiding stakeholders in the context of business practices; |

| | |
|---|---|
| PSO6 | Demonstrate communication and life skill competencies necessary to succeed in personal and professional life. |

| Course Code | Course | L | T | P | Credits |
|---|---|---|---|---|---|
| UMA2027 | Differential Equations (Core Course) | 6 | 0 | 0 | 5 |

CO-PO Mapping

| | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PO1 | 3 | 3 | 3 | 3 | 3 |
| PO2 | 2 | 1 | 1 | 1 | 1 |
| PO3 | | | | | 1 |
| PO4 | | | | | |
| PO5 | | | | | |
| PO6 | 3 | 3 | 3 | 3 | 2 |
| PO7 | | | | | |
| PO8 | 2 | 2 | 2 | 2 | 2 |
| PO9 | 2 | 2 | 3 | 3 | 2 |

CO-PSO Mapping

| | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PSO1 | 3 | 3 | 3 | 3 | 3 |
| PSO2 | - | - | - | - | - |
| PSO3 | 2 | 2 | 2 | 2 | 2 |
| PSO4 | - | - | - | - | - |
| PSO5 | 2 | 1 | 1 | 1 | 2 |

COURSE-PO Mapping

| PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|---|---|---|---|---|---|---|---|---|
| 3 | 2 | 1 | - | - | 3 | - | 2 | 3 |

Course Outcome

| CO1 | Demonstrate the method of solving exact differential equations |
|---|---|
| CO2 | Solve first order ordinary differential equations |
| CO3 | Solve higher order homogeneous linear differential equations |

| CO4 | Solve higher order non homogeneous linear differential equations. |
|-----|-----------------------------------------------------------------|
| CO5 | Solve the equation of the form dx/P = dy/Q = dz/R |

Program Outcome

| PO1 | Domain Knowledge |
|-----|------------------|
| PO2 | Communicative competence |
| PO3 | Proficiency in using Modern Technologies |
| PO4 | Reflective response to ethical and social issues |
| PO5 | Sustainability values |
| PO6 | Critical thinking and Problem Solving |
| PO7 | Entrepreneurship and Leadership |
| PO8 | Team work |
| PO9 | Self-Directed and Lifelong Learning |

Program Specific Outcome

| PSO1 | Demonstrate analytical skills in Algebra, Trigonometry, Calculus, Graph theory, Differential equations, Discrete Mathematics and utilize spatial visualization 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 reasoning skills. |

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| Course Code | Course | L | T | P | Credits |
|---|---|---|---|---|---|
| UBB2024 | Business Research Methods (Core Course) | 6 | 0 | 0 | 4 |

CO-PO Mapping

|  | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PO1 | 3 | 3 | 3 | 3 | 3 |
| PO2 | 3 | 3 | 2 | 2 | 3 |
| PO3 | 1 | 3 | 3 | 2 | 2 |
| PO4 | 1 | 3 | 2 | 2 | 3 |
| PO5 | 3 | 3 | 1 | 1 | 3 |
| PO6 | 3 | 3 | 3 | 3 | 3 |
| PO7 | 1 | 3 | 1 | 1 | 3 |
| PO8 | 3 | 3 | 3 | 2 | 2 |
| PO9 | 3 | 3 | 3 | 3 | 3 |

CO-PSO Mapping

|  | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PSO1 | 3 | 3 | 3 | 3 | 3 |
| PSO2 | 1 | 3 | 3 | 1 | 3 |
| PSO3 | 1 | 3 | 1 | 1 | 3 |
| PSO4 | 1 | 2 | 1 | 1 | 3 |

COURSE-PO Mapping

|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|---|---|---|---|---|---|---|---|---|---|
|  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

Course Outcome

| CO1 | Discuss and apply various approaches and methodologies in research |
|---|---|
| CO2 | Distil an identified research problem into a succinct research problem (or problem) and articulate this into a comprehensive research brief for investigation by a research team locally or internationally |

| CO3 | Construct and document an appropriate research design. Including argumentation for data collection and analysis methods/techniques |
|-----|---|
| CO4 | Cognize and apply the major types of research designs |
| CO5 | Understand the ethical issues associated with the conduct of research, and be able to formulate and present effective research reports |

Program Outcome

| PO1 | Domain Knowledge |
|-----|---|
| PO2 | Communicative competence |
| PO3 | Proficiency in using Modern Technologies |
| PO4 | Reflective response to ethical and social issues |
| PO5 | Sustainability values |
| PO6 | Critical thinking and Problem Solving |
| PO7 | Entrepreneurship and Leadership |
| PO8 | Team work |
| PO9 | Self-Directed and Lifelong Learning |

Program Specific Outcome

| 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 |

## Marian College Kuttikkanam Autonomous

| Course Code | Course | L | T | P | Credits |
|---|---|---|---|---|---|
| USW2112 | Management Concepts and Skills for Social Work Practice (Complementary Course) | 4 | 0 | 0 | 4 |

CO-PO Mapping

| | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PO1 | 3 | 3 | 3 | 3 | 3 |
| PO2 | 3 | 3 | 3 | 3 | 3 |
| PO3 | 2 | 3 | 3 | 2 | 2 |
| PO4 | 3 | 2 | 3 | 3 | 3 |
| PO5 | 3 | 3 | 3 | 3 | 3 |
| PO6 | 3 | 3 | 3 | 3 | 3 |
| PO7 | 3 | 3 | 3 | 3 | 3 |
| PO8 | 3 | 2 | 3 | 3 | 3 |
| PO9 | 3 | 3 | 3 | 3 | 3 |

CO-PSO Mapping

| | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|---|---|---|---|---|
| PSO1 | 3 | 3 | 3 | 3 | 3 |
| PSO2 | 3 | 3 | 3 | 3 | 3 |
| PSO3 | 3 | 3 | 3 | 2 | 3 |
| PSO4 | 3 | 3 | 3 | 3 | 3 |
| PSO5 | 3 | 3 | 3 | 3 | 3 |

COURSE-PO Mapping

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 |
|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

Course Outcome

| CO1 | Integrate management concepts in social work practice |
|---|---|
| CO2 | Utilize skills and techniques in the process of human resource management |
| CO3 | Apply organizational behavior and its dimensions into Social Work practice |

| CO4 | Integrate motivational concepts into working in an organization |
|-----|----------------------------------------------------------------|
| CO5 | Demonstrate the role of manager in social work practice |

Program Outcome

| PO1 | Domain Knowledge |
|-----|------------------|
| PO2 | Communicative competence |
| PO3 | Proficiency in using Modern Technologies |
| PO4 | Reflective response to ethical and social issues |
| PO5 | Sustainability values |
| PO6 | Critical thinking and Problem Solving |
| PO7 | Entrepreneurship and Leadership |
| PO8 | Team work |
| PO9 | Self-Directed and Lifelong Learning |

Program Specific Outcome

| PSO1 | Demonstrate ethical and professional behavior 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, and Communities. |
| PSO5 | Apply critical thinking to analyses, formulate and advocate for policies that advance human rights, social, economic, and environmental justice |