



Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
(Deemed to be University)
Maduravoyal, Chennai - 600 095, Tamilnadu, India.
(As ISO 9001 : 2015 Certified Institution)
University with Special Autonomy Status



FACULTY OF MANAGEMENT STUDIES
MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

SPECIALIZATION

- INFORMATION SYSTEMS

FACULTY OF MANAGEMENT STUDIES
 MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

MMBA22E28

BIG DATA TECHNOLOGY

| | | | | | | |
|--|---|----------|----------|--------------|------------|---------------------|
| MMBA22E28 | CONTROL SYSTEMS | C | L | T/SLr | P/R | T/L/ ETP |
| | Total Contact Hours – 30 | 3 | 3 | 0 | 0 | T |
| | Prerequisite – Degree | | | | | |
| | Course Designed by – Faculty of Management Studies | | | | | |
| OBJECTIVES | | | | | | |
| <ol style="list-style-type: none"> 1. To understand the computational approaches to big data analytics; 2. To understand the various search methods and visualization techniques; 3. To learn to use various techniques for mining data stream; 4. To understand the applications using Map Reduce Concepts. | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | |
| CO1 | The knowledge of computing tools and techniques in the field of Big Data and to identify the challenges in Big Data with respect to IT Industry to | | | | | |
| CO2 | Convert any real world decision making problem to hypothesis and apply suitable statistical testing. | | | | | |
| CO3 | Recognize the key concepts of Hadoop framework | | | | | |
| CO4 | Several key big data technologies used for storage, analysis and manipulation of data | | | | | |
| CO5 | Appreciate the computational software's and techniques for handling big data in business applications and Learn to use HIVE AND HIVEQL, HBASE query tools | | | | | |

| Mapping of Course Outcomes with Program outcomes (Pos) | | | | | | | |
|---|------------|-------------|------------------------------|-----------------------|---------------------------|--|--|
| (3/2/1 indicates strength of correlation) 3-HIGH, 2 -Medium, 1-Low | | | | | | | |
| 1 | COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | |
| 2 | CO1 | 1 | | | 3 | | |
| | CO2 | 2 | 3 | 1 | 3 | 3 | |
| | CO3 | | | | | | |
| | CO4 | | 3 | | 1 | 3 | |
| | CO5 | 3 | | | 3 | | |
| 3 | Category | General (A) | Basic Sciences and Maths (B) | Professional Core (D) | Professional Elective (E) | Project / Seminar / Internship (H) | |
| | | | | | ✓ | | |
| 4 | Approval | | | | | Meeting of Academic Council, June 2022 | |

FACULTY OF MANAGEMENT STUDIES

MBA- Two Year Full Time Program- Curriculum and Syllabus **Program Structure for MBA (Full Time)**

MMBA22E28

BIG DATA TECHNOLOGY

UNIT – I INTRODUCTION TO BIG DATA

6 hours

Introduction – Distributed file system – Big Data and its importance, Four Vs. Drivers for Big data, Big data analytics, Big data applications. Algorithms using map reduce-Challenges of Conventional Systems - Intelligent data analysis – Nature of Data - Analytic Processes and Tools - Analysis vs. reporting.

UNIT – II MINING DATA STREAMS

6 hours

Introduction to Streams Concepts – Stream Data Model and Architecture - Stream Computing - Sampling Data in a Stream – Filtering Streams – Counting Distinct Elements in a Stream – Estimating Moments – Counting Oneness in a Window – Decaying Window - Real time Analytics Platform(RTAP) Applications

UNIT – III HADOOP ARCHITECTURE

6 hours

Big Data – Apache Hadoop and Hadoop Ecosystem – Moving Data in and out of Hadoop – Understanding inputs and outputs of Map Reduce - Data Serialization.

Hadoop Architecture, Hadoop Storage: HDFS, Common Hadoop Shell commands, Anatomy of File Write and Read. Name Node, Secondary Name Node, and Data Node, Hadoop Map Reduce paradigm

UNIT – IV HADOOP ECOSYSTEM AND YARN

6 hours

Hadoop ecosystem components - Schedulers - Fair and Capacity, Hadoop 2.0 New Features Name Node High Availability, HDFS Federation

UNIT – V HIVE AND HIVEQL, HBASE

6 hours

Hive Architecture and Installation, Comparison with Traditional Database, HiveQL – Querying Data - Sorting and Aggregating, Map Reduce Scripts, Joins and Subqueries

TOTAL NO OF PERIODS: 30 HOURS

Reference Books:

1. Boris lublinsky, Kevin t. Smith, Alexey Yakubovich, “Professional Hadoop Solutions”, Wiley, ISBN: 9788126551071, 2015.
2. Chris Eaton, Dirk deroos et al. , “Understanding Big data ”, McGraw Hill, 2012.
3. Tom White, “HADOOP: The definitive Guide” , O Reilly 2012.
4. VigneshPrajapati, “Big Data Analytics with R and Haoop”, Packet Publishing 2013.
5. Tom Plunkett, Brian Macdonald et al, “Oracle Big Data Handbook”, Oracle Press, 2014
6. <http://www.bigdatauniversity.com/>
7. JyLiebowitz, “Big Data and Business analytics”,CRC press, 2013..

FACULTY OF MANAGEMENT STUDIES
MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

MMBA22E29

DATABASE MANAGEMENT SYSTEM

| | | | | | | | |
|---|--|--|----------|----------|--------------|------------|---------------------|
| MMBA22E29 | CONTROL SYSTEMS | | C | L | T/SLr | P/R | T/L/ ETP |
| | Total Contact Hours – 30 | | 3 | 3 | 0 | 0 | T |
| | Prerequisite – Degree | | | | | | |
| | Course Designed by – Faculty of Management Studies | | | | | | |
| OBJECTIVE | | | | | | | |
| The course has been designed to introduce the students with the applications of systems designed to manage the data resources of organizations. | | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | | |
| CO1 | Describe the fundamental elements of relational database management systems and understand the database systems and its applications | | | | | | |
| CO2 | Conceptualize and depict a database system using ER diagram | | | | | | |
| CO3 | Construct queries using relational database and SQL | | | | | | |
| CO4 | Understand the functional dependencies and design database using Normalization. Differentiate the properties for concurrent execution of transactions and learn techniques for controlling the consequences of concurrent data access. | | | | | | |
| CO5 | Ability to gain knowledge and handle all new trending technology in Database Management | | | | | | |

| Mapping of Course Outcomes with Program outcomes (Pos) | | | | | | | |
|--|----------|-------------|------------------------------|-----------------------|---------------------------|--|--|
| (3/2/1 indicates strength of correlation) 3-HIGH, 2 -Medium, 1-Low | | | | | | | |
| 1 | COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | |
| 2 | CO1 | 3 | 2 | 3 | 3 | 3 | |
| | CO2 | | 3 | 2 | | 3 | |
| | CO3 | 3 | | | 2 | | |
| | CO4 | 3 | 3 | 3 | 2 | | |
| | CO5 | 3 | 3 | 2 | | 2 | |
| 3 | Category | General (A) | Basic Sciences and Maths (B) | Professional Core (D) | Professional Elective (E) | Project / Seminar / Internship (H) | |
| | | | | | ✓ | | |
| 4 | Approval | | | | | Meeting of Academic Council, June 2022 | |

FACULTY OF MANAGEMENT STUDIES
MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

MMBA22E30

DECISION SUPPORT SYSTEM

| | | | | | | | |
|--|--|--|----------|----------|--------------|------------|---------------------|
| MMBA22E30 | CONTROL SYSTEMS | | C | L | T/SLr | P/R | T/L/ ETP |
| | Total Contact Hours – 30 | | 3 | 3 | 0 | 0 | T |
| | Prerequisite – Degree | | | | | | |
| | Course Designed by – Faculty of Management Studies | | | | | | |
| OBJECTIVES | | | | | | | |
| <ol style="list-style-type: none"> 1. To understand the concept of Decision support system 2. To gain the basic knowledge on Model Base Management System 3. To understand the Basis of DBMS 4. To get the clear insights on Model Acquisition and Dialog development in decision support system 5. To gain a clear knowledge on Dialogue Management on Decision support system | | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | | |
| CO1 | Knowledge and skills on Basics of DBMS | | | | | | |
| CO2 | Understand the role of importance in Model Languages and its types | | | | | | |
| CO3 | Knowledge on basics of Dialog Management and Decision support System | | | | | | |
| CO4 | Understand the importance of Modeling Languages and developing dialog. | | | | | | |
| CO5 | Capable of developing decision support system. | | | | | | |

| Mapping of Course Outcomes with Program outcomes (Pos) | | | | | | | |
|---|------------|-------------|------------------------------|-----------------------|---------------------------|--|--|
| (3/2/1 indicates strength of correlation) 3-HIGH, 2 -Medium, 1-Low | | | | | | | |
| 1 | COs/Pos | PO1 | PO2 | PO3 | PO4 | PO5 | |
| 2 | CO1 | 3 | | 3 | 3 | 2 | |
| | CO2 | 3 | 3 | 3 | 3 | | |
| | CO3 | 3 | | 3 | 3 | 3 | |
| | CO4 | 3 | 3 | 3 | 3 | | |
| | CO5 | 3 | 3 | 3 | 2 | 3 | |
| 3 | Category | General (A) | Basic Sciences and Maths (B) | Professional Core (D) | Professional Elective (E) | Project / Seminar / Internship (H) | |
| | | | | | ✓ | | |
| 4 | Approval | | | | | Meeting of Academic Council, June 2022 | |

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MMBA22E30

DECISION SUPPORT SYSTEM

UNIT –I INTRODUCTION

6 hours

Introduction: Decision concept – Steps – Decision Support System – Components – Characteristics – Classifications and Applications.

UNIT- II MODEL MANAGEMENT

6 hours

Model Management: Model – Modeling Process – Types of Models – Optimization – Simulation – Heuristic: Descriptive – Predictive Model Base – Modeling Languages – Model Directory, Model Base Management System – Model Execution, Integration and Command Processing – Model Packages.

UNIT- III DATA MANAGEMENT SYSTEM

6 hours

Data Management System: Data Base – Sources of Data – Data Directory – Data Structure and Data Base Languages – Query Facility – Data Management System –DBMS as DSS Development Tool.

UNIT- IV DIALOG MANAGEMENT

6 hours

Dialog Management: User Interface – Graphics – Multimedia – Visual Interactive Modeling – Natural language processing – Speech Recognition and Understanding – Issues in User interface.

UNIT –V DEVELOPMENT OF DECISION SUPPORT SYSTEM

6 hours

Development of Decision Support System: Development Process – Software and Hardware; Data Acquisition – Model Acquisition – Dialog development – Integration – Testing and Validation – Training and Implementation.

TOTAL NO. OF PERIODS: 30 HOURS

Reference Books:

1. Janakiraman, V.S. and Sarukesi, Decision Support Systems, 2ndEdition, PHI Learning, 2009.
2. Marakas, G.M., Decision Support Systems in the 21st century, 2ndEdition, PHI Learning, 2009.
3. Sauter, V., Decision Support Systems for Business Intelligence, 2ndEdition, John Wiley and Sons, 2011.
4. Taylor, J., Decision Management Systems: A Practical Guide to Using Business Rules and Predictive Analytics, IBM Press, 2011.
5. Turban, E., Delen, E. and Sharda, R., Decision Support and Business Intelligence Systems, 9thEdition, Pearson, 2011.

FACULTY OF MANAGEMENT STUDIES
MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

MMBA22E31

SYSTEMS ANALYSIS and DESIGN

| | | | | | | | |
|---|---|--|----------|----------|--------------|------------|---------------------|
| MMBA22E31 | CONTROL SYSTEMS | | C | L | T/SLr | P/R | T/L/ ETP |
| | Total Contact Hours – 30 | | 3 | 3 | 0 | 0 | T |
| | Prerequisite – Degree | | | | | | |
| | Course Designed by – Faculty of Management Studies | | | | | | |
| OBJECTIVES | | | | | | | |
| 1. This course is designed to help students to understand the different types of analysis and 2. To know the real application reviews that can be used to give the students a grounding and real practice. | | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | | |
| CO1 | Perform various approaches to systems development. | | | | | | |
| CO2 | Carryout different types of analysis. | | | | | | |
| CO3 | Capable of performing data modeling and analysis. | | | | | | |
| CO4 | Design databases, implementation strategies. | | | | | | |
| CO5 | Enable user friendly system design for easy business operation. | | | | | | |

| Mapping of Course Outcomes with Program outcomes (Pos) | | | | | | | |
|---|------------|-------------|------------------------------|-----------------------|---------------------------|--|--|
| (3/2/1 indicates strength of correlation) 3-HIGH, 2 -Medium, 1-Low | | | | | | | |
| 1 | COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | |
| 2 | CO1 | | 2 | | | | |
| | CO2 | 3 | | | 2 | 3 | |
| | CO3 | | 2 | | | | |
| | CO4 | 2 | | 2 | | 3 | |
| | CO5 | 3 | 3 | 3 | 3 | 3 | |
| 3 | Category | General (A) | Basic Sciences and Maths (B) | Professional Core (D) | Professional Elective (E) | Project / Seminar / Internship (H) | |
| | | | | | ✓ | | |
| 4 | Approval | | | | | Meeting of Academic Council, June 2022 | |

FACULTY OF MANAGEMENT STUDIES
 MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

MMBA22E32

ARTIFICIAL INTELLIGENCE

| | | | | | | | |
|--|--|--|----------|----------|--------------|------------|---------------------|
| MMBA22E32 | CONTROL SYSTEMS | | C | L | T/SLr | P/R | T/L/ ETP |
| | Total Contact Hours – 30 | | 3 | 3 | 0 | 0 | T |
| | Prerequisite – Degree | | | | | | |
| | Course Designed by – Faculty of Management Studies | | | | | | |
| OBJECTIVES | | | | | | | |
| <ol style="list-style-type: none"> 1. To get the clear insights on concept of Artificial Intelligence 2. To understand the problem-solving method in Artificial Intelligence 3. To gain the knowledge-on-knowledge representation in Artificial Intelligence 4. To focus on software architecture 5. To gain the knowledge on AI Applications | | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | | |
| CO1 | Develop the skills on Artificial Intelligence. | | | | | | |
| CO2 | Knowledge and skills on Alpha-Beta Pruning and Constraint Satisfaction. | | | | | | |
| CO3 | Understand the Basics of Software Architecture in Artificial Intelligence. | | | | | | |
| CO4 | Knowledge on Architecture for intelligent agent and the roles. | | | | | | |
| CO5 | Develop the basic skills on AI Applications. | | | | | | |

| Mapping of Course Outcomes with Program outcomes (Pos) | | | | | | |
|---|------------|--|---------------------------------|--------------------------|------------------------------|--|
| (3/2/1 indicates strength of correlation) 3-HIGH, 2 -Medium, 1-Low | | | | | | |
| 1 | COs/Pos | PO1 | PO2 | PO3 | PO4 | PO5 |
| 2 | CO1 | 3 | 3 | 2 | 3 | 3 |
| | CO2 | 3 | 3 | 3 | 3 | |
| | CO3 | 3 | 3 | 3 | 2 | 3 |
| | CO4 | 3 | 3 | 3 | 2 | 3 |
| | CO5 | 3 | 3 | 3 | 1 | 3 |
| 3 | Category | General (A) | Basic Sciences and Maths (B) | Professional Core (D) | Professional Elective (E) | Project / Seminar / Internship (H) |
| | | | | | ✓ | |
| 4 | Approval | Meeting of Academic Council, June 2022 | | | | |

FACULTY OF MANAGEMENT STUDIES

MBA- Two Year Full Time Program- Curriculum and Syllabus Program Structure for MBA (Full Time)

MMBA22E32

ARTIFICIAL INTELLIGENCE

UNIT- I INTRODUCTION

6 hours

Introduction: Definition - Future of Artificial Intelligence – Characteristics of Intelligent Agents– Typical Intelligent Agents – Problem Solving Approach to Typical AI problems.

UNIT- II PROBLEM SOLVING METHODS

6 hours

Problem solving Methods — Search Strategies- Uninformed — Informed — Heuristics — Local Search Algorithms and Optimization Problems — Constraint Satisfaction Problems — Constraint Propagation — Backtracking Search — Game Playing — Optimal Decisions in Games — Alpha-Beta Pruning.

UNIT -III KNOWLEDGE REPRESENTATION

6 hours

First Order Predicate Logic — Unification — Forward Chaining-Backward Chaining — Resolution — Knowledge Representation - Events — Mental Events and Mental Objects.

UNIT- IV SOFTWARE ARCHITECTURE

6 hours

Architecture for Intelligent Agents — Agent Communication — Negotiation and Bargaining — Argumentation among Agents — Trust and Reputation in Multi-agent systems.

UNIT -V AI APPLICATIONS

6 hours

AI applications — Language Models — Information Retrieval- Information Extraction — Natural Language Processing - Machine Translation — Speech Recognition — Robot — Hardware — Perception — Planning — Moving.

TOTAL NO. OF PERIODS: 30 HOURS

Reference Books:

1. Stuart Russel and Peter Norvig, “Artificial intelligence: A Modern Approach’, Fourth Edition, Pearson Education, 2020.
2. Dan W.Patterson, “Introduction to AI and ES’, Pearson Education, 2007.
3. Kevin Night, Elaine Rich, and Nair B, “Artificial Intelligence’, McGraw Hill, 2008.
4. PatrikH, Winston,, “Artificial Intelligence’, Third edition, Pearson Edition, 2006.
5. Deepak Khemani, “Artificial Intelligence”, Tata McGraw Hill Education, 2013.
6. Artificial Intelligence by Example Develop machine intelligence from scratch using real artificial intelligence use cases-by Dennis Rothman, 2018.

FACULTY OF MANAGEMENT STUDIES
MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

MMBA22E33 SOFTWARE QUALITY AND PROJECT MANAGEMENT

| | | | | | | | |
|---|---|--|----------|----------|--------------|------------|---------------------|
| MMBA22E33 | CONTROL SYSTEMS | | C | L | T/SLr | P/R | T/L/ ETP |
| | Total Contact Hours – 30 | | 3 | 3 | 0 | 0 | T |
| | Prerequisite – Degree | | | | | | |
| | Course Designed by – Faculty of Management Studies | | | | | | |
| OBJECTIVES | | | | | | | |
| <ol style="list-style-type: none"> 1. To understand project management cycle in software development; 2. To study various project estimation and quality models in software development; 3. To understand the various quality management tools in software project management and 4. To study the various ISO Tools implemented for software quality assurance. | | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | | |
| CO1 | Develop the basic skills in project planning in software. | | | | | | |
| CO2 | Understand the Basic Software Models used in Project Management | | | | | | |
| CO3 | Apply various models to ensure software quality. | | | | | | |
| CO4 | Understand the basics about Agile and Lean Management Process. | | | | | | |
| CO5 | Knowledge on cost estimation and ISO Tools. | | | | | | |

| Mapping of Course Outcomes with Program outcomes (Pos) | | | | | | |
|---|------------|--|---------------------------------|--------------------------|------------------------------|--|
| (3/2/1 indicates strength of correlation) 3-HIGH, 2 -Medium, 1-Low | | | | | | |
| 1 | COs/Pos | PO1 | PO2 | PO3 | PO4 | PO5 |
| 2 | CO1 | 3 | 3 | 3 | 3 | 2 |
| | CO2 | 3 | 3 | 3 | 3 | 2 |
| | CO3 | 3 | 3 | 3 | 3 | 2 |
| | CO4 | 3 | 3 | 2 | 3 | 3 |
| | CO5 | 3 | | 3 | 3 | |
| 3 | Category | General (A) | Basic Sciences and Maths (B) | Professional Core (D) | Professional Elective (E) | Project / Seminar / Internship (H) |
| | | | | | ✓ | |
| 4 | Approval | Meeting of Academic Council, June 2022 | | | | |

FACULTY OF MANAGEMENT STUDIES

MBA- Two Year Full Time Program- Curriculum and Syllabus

Program Structure for MBA (Full Time)

MMBA22E33

SOFTWARE QUALITY AND PROJECT MANAGEMENT

UNIT – I SOFTWARE QUALITY

6 hours

Software quality - The place of software quality in project planning - Importance of software quality - Defining software quality - Practical software quality measures - Quality Management Systems.

UNIT – II SOFTWARE MODELS

6 hours

Software Quality Models – Mc-Calls Models - Applying seven basic quality tools in software development - Measuring Quality – COQUAMO - Lean software development.

UNIT – III SOFTWARE QUALITY ASSURANCE

6 hours

Software Reliability models - Rayleigh model - Weibull model - Defect removal effectiveness - Quality standards - ISO 9000 models and standards for process improvement - ISO/IEC 9126-1 to 9126-4.

UNIT – IV INTRODUCTION ABOUT SOFTWARE PROJECTS

6 hours

Software Projects - Projects Planning - Process models – Waterfall – RAD - V-Spiral - Incremental – Prototyping – Agile - Project Tracking.

UNIT- V SOFTWARE PROJECT ESTIMATION

6 hours

Effort and Cost Estimation - Expert Judgment, LOC, Function Points, Extended Function Points, Feature Points, Object Points, COCOMO-81 - COCOMO-II - Risk Management.

TOTAL NO. OF PERIODS: 30 HOURS

Reference Books:

1. Software Project Management, Bob Hughes, Mike
2. Effective Software Project Management, Robert K. Wysocki, Wiley
3. Roger S. Pressman, Software Engineering A Practitioners Approach, McGraw Hill International Edition, New Delhi, 8th Edition, 2014
4. Stephen Kan, Metrics and Models in Software Quality Engineering, Pearson Education Asia, 8th Impression 2009.

FACULTY OF MANAGEMENT STUDIES
 MBA- Two Year Full Time Program- Curriculum and Syllabus
Program Structure for MBA (Full Time)

MMBA22E34

ENTERPRISE RESOURCE PLANNING

| | | | | | | |
|--|--|----------|----------|--------------|------------|---------------------|
| MMBA22E34 | CONTROL SYSTEMS | C | L | T/SLr | P/R | T/L/ ETP |
| | Total Contact Hours – 30 | 3 | 3 | 0 | 0 | T |
| | Prerequisite - Degree | | | | | |
| | Course Designed by – Faculty of Management Studies | | | | | |
| OBJECTIVES | | | | | | |
| <ol style="list-style-type: none"> 1. This course is designed to help students understand issues affecting ERP systems and ERP implementation; 2. Real application reviews will be used to give the students a grounding and real practice; 3. To exhibit the theoretical aspects of Enterprise Resource Planning and 4. To provide practical implication on ERP Suite implementation. | | | | | | |
| COURSE OUTCOMES (COs) | | | | | | |
| CO1 | Knowledge of risk and benefits associated with Enterprise Resource Planning. | | | | | |
| CO2 | Knowledge or ERP solutions and functional modules. | | | | | |
| CO3 | Exposure to the implementation environment. | | | | | |
| CO4 | Understanding of post implementation impact and maintenance of ERP. | | | | | |
| CO5 | Knowledge of emerging trends on ERP. | | | | | |

| Mapping of Course Outcomes with Program outcomes (Pos) | | | | | | | |
|--|----------|-------------|------------------------------|-----------------------|---------------------------|--|--|
| (3/2/1 indicates strength of correlation) 3-HIGH, 2 -Medium, 1-Low | | | | | | | |
| 1 | COs/POs | PO1 | PO2 | PO3 | PO4 | PO5 | |
| 2 | CO1 | 2 | 2 | 3 | 3 | 3 | |
| | CO2 | | 2 | 2 | | 3 | |
| | CO3 | 3 | | | 2 | | |
| | CO4 | 3 | 3 | 2 | 3 | 2 | |
| | CO5 | 2 | 3 | 2 | | 2 | |
| 3 | Category | General (A) | Basic Sciences and Maths (B) | Professional Core (D) | Professional Elective (E) | Project / Seminar / Internship (H) | |
| | | | | | ✓ | | |
| 4 | Approval | | | | | Meeting of Academic Council, June 2022 | |

FACULTY OF MANAGEMENT STUDIES

MBA- Two Year Full Time Program- Curriculum and Syllabus Program Structure for MBA (Full Time)

MMBA22E34

ENTERPRISE RESOURCE PLANNING

UNIT- I INTRODUCTION

6 hours

Overview of enterprise systems – Evolution - Risks and benefits - Fundamental technology - Warehouse Management.

UNIT- II ERP SOLUTIONS AND FUNCTIONAL MODULES

6 hours

Overview of ERP software solutions – BPR - Project management - Functional modules -Organizational data - Master data and document flow.

UNIT- III ERP IMPLEMENTATION

6 hours

Planning Evaluation and selection of ERP systems - Implementation life cycle - ERP implementation - Methodology and Frame work- Training – Data Migration - People Organization in implementation Consultants - Vendors and Employees.

UNIT- IV POST IMPLEMENTATION

6 hours

Maintenance of ERP - Organizational and Industrial impact - Success and Failure factors of ERP Implementation.

UNIT V EMERGING TRENDS ON ERP

6 hours

Extended ERP systems and ERP add-ons – CRM – SCM - Business analytics - Future trends in ERP systems-Web enabled - Wireless technologies - Cloud computing and augmented reality.

TOTAL NO. OF PERIODS: 30 HOURS

Reference Books:

1. Alexis Leon, ERP demystified, second Edition Tata McGraw-Hill, 2008.
2. Simha R. Magal , Jeffrey Word, Integrated Business processes with ERP systems, John Wiley and Sons, 2012.
3. Jagan Nathan Vaman, ERP in Practice, Tata McGraw-Hill, 2008
4. Alexis Leon, Enterprise Resource Planning, second edition, Tata McGraw-Hill, 2008.
5. MahadeoJaiswal and Ganesh Vanapalli, ERP Macmillan India, 2009
6. Vinod Kumar Grag and N.K. Venkitakrishnan, ERP- Concepts and Practice, Prentice Hall of India, 2006.