PG DIPLOMA IN SYSTEMS MANAGEMENT

Non-Semester
(With Effect from the Academic Year 2013-14)

ELIGIBILITY FOR ADMISSION

Candidates who apply for the degree of PG Diploma shall possess the following qualifications.

(a) AGE LIMIT:

There is no upper Age Limit.

(b) QUALIFICATION:

Any Degree

3. DURATION OF THE COURSE

The course will be conducted for one year.

3.1. EXAM: There will be an examination conducted by the University at the end of the year.

3.2. Passing minimum: 50

3.3. MEDIUM OF INSTRUCTION: The Medium of instruction will be English.

Course Profile

| Decision Support System                      |
| Management Information Systems              |
| Information Technology for Management       |
| E-Commerce Technology and Management        |
| Database Management System                  |
| Software Development                        |
| Enterprise Resource Planning                |
PAPER I: DECISION SUPPORT SYSTEMS

Course Objective

The objective of this course is to bring about an understanding of the significance, structural framework and functional performance of decision support systems. It also exposes the students to the relevance of understanding user requirements and the implementation issues.

UNIT I
Decision Concept-steps-Decision Support System-Components-Characteristics-Classification & Application.

UNIT II

UNIT III

UNIT IV

UNIT V

REFERENCES

PAPER II: MANAGEMENT INFORMATION SYSTEM

Objectives: Make the students to understand the interface of the Human Resources function with Operations, Marketing, and Finance functions and to impart knowledge on information systems and its relevance to business decisions.


UNIT V: DSS: DSS models and software: The decision making process - Structured, Semi Structured and Unstructured problems; Managing Information Technology: Managing Information Resources and technologies - Security and Ethical Challenges: IS controls - facility control and procedural control

References
4. Waman S Jawadekar , "Management Information System Text and cases", TMH

PAPER III: INFORMATION TECHNOLOGY FOR MANAGEMENT

Course Objective
This course aims at highlighting the significance of role of information technology in enhancing the managerial performance. It also exposes the students to the technical aspects and business applications of information technology.

UNIT I

UNIT II

UNIT III

UNIT IV

UNIT V

REFERENCE

PAPER IV: E-COMMERCE TECHNOLOGY AND MANAGEMENT

Course Objective
The objective of this course is to enhance the understanding of the students about the technical and managerial aspects of E-Commerce. The scope, significance and technical aspects of database management system. The students are also exposed to the organisational requirements and legal and ethical implications of E-Commerce.
UNIT – I
Electronic commerce and physical commerce - Economic forces – advantages – myths – business models.

UNIT – II
Internet and World Wide Web, internet protocols - FTP, intranet and extranet - cryptography, information publishing technology- basics of web server hardware and software.

UNIT – III

UNIT – IV
E payments - Characteristics of payment of systems, protocols, E-cash, E- cheque - Micro payment systems.

UNIT – V
Legal, Ethics and privacy issues in E-Commerce – Protection needs and methodology – consumer protection - cyber laws - contracts and warranties . Taxation and encryption policies.

REFERENCES

PAPER V: DATABASE MANAGEMENT SYSTEM
Course Objective
This course aims to enable students to understand the scope, significance and technical aspects of database management system. It also exposes the students to the functional implications and the corporate requirements of database management.

UNIT – I
Database and Database Management – characteristics – importance –functions - advantages – Database Management System - evolution – database architecture data organization- file structure and indexing
UNIT – II
Data models- Conceptual design- ER diagram-relationships- normalization -data management and system integration

UNIT – III
Query languages-SQL for data creation, retrieval and manipulation, database transactions, concurrency control, atomicity, recovery, security, backup and recovery, data base administration- client server architecture based RDBMS.

UNIT – IV
Concepts of distributed databases and design, Object oriented databases-object life cycle modeling conceptual design-UML.

UNIT – V
Overview of visual databases and knowledge based databases-conceptual design and business Impacts – Significance of certifications such as Oracle Certified Professional.

REFERENCES

PAPER VI: SOFTWARE DEVELOPMENT

Course Objective
This course aims to enable students to understand the technical process and managerial significance of software development. It also exposes the students to the functional implications and the human factors associated with developing and maintaining software.

UNIT I
UNIT II

UNIT III
Software design – Abstraction – Modularity – Software Architecture – Effective modular design - Cohesion and Coupling – Architectural design – Procedural design – Data flow oriented design – Object Oriented design

UNIT IV

UNIT V
Software Quality Assurance – Review, Walkthrough and inspection- Quality metrics – Software Reliability – testing – Path testing – Control Structures testing – Black Box testing – Integration, Validation and system testing – Reliability models for Software quality - Software Maintenance

REFERENCES

PAPER VII: ENTERPRISE RESOURCE PLANNING

Course Objective
This course aims to enhance the understanding of the students with respect to the conceptual framework and the technological infrastructure of Enterprise Resource Planning. It also aims to expose the students to the implementation issues and future trends associated with ERP.

UNIT – I
Overview of enterprise systems – Evolution - Risks and benefits - Fundamental technology - Issues to be consider in planning design and implementation of cross functional integrated ERP systems.
UNIT – II

UNIT – III

UNIT – IV
Maintenance of ERP- Organizational and Industrial impact - Success and Failure factors of ERP Implementation -case studies.

UNIT – V
Extended ERP systems – Customer Relationship Management – Supply Chain Management - Business Analytics - Future trends in ERP systems-web enabled Wireless technologies

REFERENCES