A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), KAKINADA

DEPARTMENT OF COMPUTER SCIENCE
ACADEMIC YEAR 2018-2019

B.Sc.(MPCS) PROGRAMME OUTCOMES

PO1. Graduates will acquire adequate knowledge and leadership skills for a successful career

PO2. Graduates will cooperate with each other to solve problems with creative thinking

PO3. Graduates will acquire practical skills- plan & execute experimental techniques independently as well as to analyse & interpret data.

PO4. Graduates will effectively be able to manage resources, time, will be able to learn independently and develop critical thinking.

PO5. Graduates will accomplish ability to communicate effectively and able to understand ethical responsibility. They also acquire adequate knowledge to use information & communication technology.

PO6. Graduates will carry on to learn and to adapt in a world of constantly evolving technology.

B.Sc.(MPCS) PROGRAMME SPCIFIC OUTCOMES

PSO1. To understand the importance of Mathematics in learning Physics and Computer Science and vice – versa.

PSO2. To understand the inter – relationship between mathematics and computer science with regard to algorithms, computations and excel calculations, data presentation and data analysis.

PSO3. To understand the inter – relationship between Physics and Computer Science in the design and architecture of computers.

PSO4. To apply the knowledge of Mathematics and Computer Science in solving problems in real life situations.

PSO5. To create employment opportunities in interdisciplinary areas such as data analyst, statistician, computer – assisted instrument operator etc.

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ACADEMIC YEAR 2018-2019

B.Sc.(MPCS) COURSE OUTCOMES

B.Sc.(MPCS) – I Year I Semester
Course: Computer Fundamentals & Photoshop

Course Code: CS1304   **No. of Hours/Week: 4**
Paper : I
Course Outcomes:
At the end of the course the student will be able to

1. Understand the vocabulary of key terms related to the computer and able to identify the components of a personal computer system.
2. Identify the working principles of input and output devices and basics of different types of memories.
3. Work with the Photoshop workspace
4. Make use of Photoshop tools to modify and adjust images.
5. Create new layers; perform other basic layer functions and usage of filters.

Course: PHOTOSHOP LAB
Course Code: CS1304P   **No. of Hours/Week: 2**
Course Outcomes:
At the end of the course the student will be able to

1. Work with the Photoshop workspace
2. Navigate images, resize and crop images
3. Create new layers and perform other basic layer functions
4. Transform images and make various colour corrections
5. Use various retouching and repairing techniques to correct images using layer masks, filters and blending modes

B.Sc.(MPCS) – I Year II SEMESTER
Course: PROGRAMMING IN C
Course Code: CS2304   **No. of Hours/Week: 4**
Paper : II
Course Outcomes:
At the end of the course the student will be able to

1. Understand the fundamentals of C programming.
2. Make use of loops, decision making statements and functions to solve the problem.
3. Implement different Operations on Arrays.
4. Understand Pointers, Structures and Unions.
5. Implement File Operations for a given application using C file handling functions.

Course: PROGRAMMING IN C LAB

Course Code:CS2304P   **No. of Hours/Week: 2**
Course Outcomes:
At the end of the course the student will be able to

1. Implement programs using fundamental features of C Language.
2. Solve problems with the use of loops, decision making statements and functions.
3. Implement programs performing various Operations on Arrays.

B.Sc.(MPCS) – II Year III Semester
Course : OBJECT ORIENTED PROGRAMMING USING JAVA

Course Code: CS3304   **No. of Hours/Week: 4**
Paper : III

Course Outcomes:
At the end of the course the student will be able to

1. Understand and Apply Object Oriented features and understand the basics of Java.
2. Develop problem-solving and programming skills using OOP concepts.
3. Apply the concepts of inheritance and to create arrays, strings.
4. Able to demonstrate Exception Handling and Multithreading.
5. Develop efficient Java applets and applications using OOP concepts.

Course: OBJECT ORIENTED PROGRAMMING USING JAVA LAB

Course Code: CS3304P   **No. of Hours/Week: 2**
Course Outcomes:
At the end of the course the student will be able to

1. Apply OOP concepts to solve real time problems.
2. Make use of class, inheritance, interface and packages to develop solutions for complex problems.
3. Build java applications using Exception handling and Threads.

B.Sc.(MPCS) – II Year IV Semester
Course: DATA STRUCTURES

Course Code:CS4304   **No. of Hours/Week: 4**
Paper : IV
Course Outcomes:
At the end of the course the student will be able to

1. Understand fundamental concepts of Data structures and to design Linked lists.
2. Implement linear data structures stacks, queues.
3. Design non-linear data structures like trees, graphs and implement their operations.
4. Compare and Contrast different searching and sorting techniques.

Course: DATA STRUCTURES USING JAVA LAB

Course Code: CS4304P   **No. of Hours/Week: 2**

Course Outcomes:

At the end of the course the student will be able to

1. Implement Linked list and Perform operations on it.
2. Make use of arrays and linked lists to implement Stack and Queues.
3. Implement various traversals on Trees and Graphs.

B.Sc.(MPCS). – III Year V Semester
Course: DATA BASE MANAGEMENT SYSTEMS

Course Code : CS5307   **No. of Hours/Week: 3**

Paper : V

Course Outcomes:

At the end of the course the student will be able to

1. Understand DBMS concepts, data models and Architecture.
2. Understand ER concepts and ER mapping to relational model
3. Improve the database design by normalization.
4. Make use of SQL to retrieve and maintain relational database.
5. Illustrate various constructs in PL/SQL.

Course: DATA BASE MANAGEMENT SYSTEMS LAB

Course Code : CS5307P   **No. of Hours/Week: 2**

Course Outcomes:

At the end of the course the student will be able to

1. Design database and ER diagrams for the real world scenarios
2. Understand ER concepts and ER mapping to relational model
3. Make use of SQL and PL/SQL to efficiently retrieve and maintain relational database.

B.Sc.(MPCS) – III Year V Semester
Course: Software Engineering

Course Code : CS5308   **No. of Hours/Week: 3**

Paper : VI

Course Outcomes:

At the end of the course the student will be able to

1. Understand basic concepts of software engineering.
2. Analyse the principles of requirement analysis
3. Create architectural design for a given project.
4. Plan the Project and identify the risk
5. Apply different testing techniques

Course: SOFTWARE ENGINEERING LAB

Course Code : CS5308P   **No. of Hours/Week: 2**

Paper : VI

Course Outcomes:
At the end of the course the student will be able to

1. Understand basic concepts of software process models.
2. Develop SRS for a real world Project.
3. Analyze the risk related to a project using RMMM plan.
4. Design various test cases for a real world scenario.

B.Sc.(MPCS). – III YEAR VI SEMESTER
Course: Elective-C: Web Technologies

Course Code : CS6304

Paper : VII   **No. of Hours/Week: 3**

Course Outcomes:
At the end of the course the student will be able to

1. Write well-structured, easily maintained, standards-compliant, accessible HTML code to design a web page.
2. Design well-structured, easily maintained CSS code to present HTML pages in different ways.
3. Know the basics of java script to perform client side programming
4. Build dynamic web pages using JavaScript.
5. Create XML documents used to share data on the World Wide Web

Course: WEB TECHNOLOGIES LAB
Elective – C

Course Code : CS6304P   **No. of Hours/Week: 2**

Course Outcomes:
At the end of the course the student will be able to

1. Make use of HTML tags to design Web pages.
2. Develop dynamic Web page

B.Sc.(MPCS) III YEAR VI SEMESTER
Cluster 2 Paper-VIII : Elective –B-1
Course: Distributed Systems

Course Code : CSE18310

Paper : VIII   **No. of Hours/Week: 3**

Course Outcomes:
At the end of the course the student will be able to

1. Demonstrate knowledge of the basic elements and concepts related to distributed system technologies.
2. Demonstrate knowledge of the core architectural aspects of distributed systems.
3. Use and apply important methods in distributed systems to support scalability and fault tolerance;
   Demonstrate experience in building large-scale distributed applications.

Course: DISTRIBUTED SYSTEMS LAB

Course Code : CSE18310P   **No. of Hours/Week: 2**

Course Outcomes:
At the end of the course the student will be able to

1. Demonstrate Inter-process Communication and Remote Procedure Call in Distributed Systems.
2. Implement Mutual Exclusion in Distributed Systems.
3. Demonstrate Election Algorithm in Distributed Systems.

B.Sc.(MPCS) III YEAR VI SEMESTER
(Cluster 2) Paper-VIII : Elective –B-2
Course: Cloud Computing

Course Code : CSE183111

Paper : VIII   **No. of Hours/Week: 3**

Course Outcomes:
At the end of the course the student will be able to

1. Compare the strengths and limitations of cloud computing
2. Identify the architecture, infrastructure and delivery models of cloud computing
3. Apply suitable virtualization concept.
4. Choose the appropriate Cloud Model and approach.
5. Address the core issues of cloud computing such as security, privacy and interoperability.

Course: CLOUD COMPUTING LAB
Cluster 1: Elective – B-2

Course Code : CSE18311P   **No. of Hours/Week: 2**

Course Outcomes:
At the end of the course the student will be able to

1. Define & implementVirtualization usingdifferent Cloud Vendors
2. Describe steps toperform on demandApplication deliveryusing various Cloud Service Providers
3. Analyze and understand the functioning of different components in Amazon web services.

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