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

DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC YEAR 2021-2022

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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COURSE OUTCOMES

B.Sc.(MPCS) – Semester-I

Course: PROBLEM SOLVING IN C

Course Code: CS201304 **No. of Hours/Week: 4**

Paper : I

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: PROBLEM SOLVING IN C

Course Code: CS201304P **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 Semester

Course: DATA STRUCTURES USING C

Course Code: CS202304 **No. of Hours/Week: 4**

Paper : II

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.
5. Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal
6. Design and develop programs using various data structures

Course: DATA STRUCTURES USING C LAB

Course Code: CS202304P **No. of Hours/Week: 2**

Course Outcomes:

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

1. Implement various operations on arrays
2. Implement Linked list and Perform operations on it.
3. Make use of arrays and linked lists to implement Stack and Queues.
4. Implement various traversals on Trees and Graphs.
5. Implement various shortest path algorithms.
6. Implement various searching and sorting techniques.

B.Sc.(MPCS). – Semester III
Course: DATA BASE MANAGEMENT SYSTEM

Course Code : CS203304 **No. of Hours/Week: 4**

Paper : III

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 : CS203304P **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) – Semester IV
Course: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

Course Code: CS204307 **No. of Hours/Week: 4**

Paper : IV

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: CS204307P **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) – Semester IV
Course: OPERATING SYSTEMS

Course Code: CS204308 **No. of Hours/Week: 4**

Paper : V

Course Outcomes:

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

1. Interpret the basic structure of OS and architectural components.
2. Compare and contrast various Process scheduling algorithms.
3. Analyze various mechanisms of Synchronization and the principles of deadlock.
4. Make use of paging and segmentation in Memory management.
5. Discuss the issues related to file system interface, implementation and disk management.

Course: OPERATING SYSTEMS LAB USING C/JAVA

Course Code: CS204308P **No. of Hours/Week: 2**

Course Outcomes:

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

1. Implement Process Scheduling and Page Replacement Algorithms.
2. Implement Various File Organization schemes
3. Implement Deadlock Avoidance and prevention algorithms

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

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

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) – Semester V
Course: SOFTWARE ENGINEERING

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

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 : VII

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) – Semester VI
Course: WEB TECHNOLOGIES
Elective - C

Course Code : CS6304 **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

B.Sc.(MPCS) – Semester VI
Course: DISTRIBUTED SYSTEMS
Cluster 1: Elective – B-1

Course Code: CSE21310 **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;
4. Demonstrate experience in building large-scale distributed applications.

B.Sc.(MPCS) – Semester VI
Course: CLOUD COMPUTING
Cluster 1: Elective – B-2

Course Code: CSE21311

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: CSE21311P **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

N.N.S. Eswari
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DEPT OF COMPUTER SCIENCE
ASDGOVT DEGREE COLLEGE (W) AUTONOMOUS
KAKINADA

PRINCIPAL
A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA