

**A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A),
KAKINADA
DEPARTMENT OF COMPUTER SCIENCE
ACADEMIC YEAR 2019-2020**

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 SPECIFIC 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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DEPARTMENT OF COMPUTER SCIENCE

ACADEMIC YEAR 2019-2020

B.Sc.(MPCS) COURSE OUTCOMES

Semester - I

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) Semester-II

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) –Semester - III

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) – Semester IV

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) – Semester V

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) –Semester V

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) – Semester VI
Course: WEB TECHNOLOGIES
Elective - C**

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 pages

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

Course Code: CSE19310

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;
4. Demonstrate experience in building large-scale distributed applications.

Course: DISTRIBUTED SYSTEMS LAB
Cluster 1: Elective – B-1

Course Code: CSE19310P

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) – Semester VI
Course: CLOUD COMPUTING
Cluster 1: Elective – B-2

Course Code: CSE19311

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: CSE19311P

No. of Hours/Week: 2

Course Outcomes:

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

1. Define & implement Virtualization using different Cloud Vendors
2. Describe steps to perform on demand Application delivery using various Cloud Service Providers
3. Analyse and understand the functioning of different components in Amazon web services.

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