

**A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A),
KAKINADA
DEPARTMENT OF COMPUTER SCIENCE
ACADEMIC YEAR 2022-2023**

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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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: WEB INTERFACE DESIGNING TECHNOLOGIES

Course Code: CS205307

No. of Hours/Week: 4

Paper : VI-A

Course Outcomes:

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

1. Understand and appreciate the web architecture and services.
2. Gain knowledge about various components of a website.
3. Demonstrate skills regarding creation of a static website and an interface to dynamic website.
4. Learn how to install word press and gain the knowledge of installing various plugins to use in their websites.

Course: WEB INTERFACE DESIGNING TECHNOLOGIES LAB

Course Code: CS205307P

No. of Hours/Week: 2

Course Outcomes:

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

1. Create a basic website with the help of HTML and CSS.
2. Acquire the skill of installing word press and various plugins of Word press.
3. Create a static website with the help of Word press.
4. Create an interface for a dynamic website.
5. Apply various themes for their websites using Word press.

B.Sc.(MPCS). – Semester V

Course: WEB APPLICATIONS DEVELOPMENT USING PHP & MYSQL

Course Code: CS205308

No. of Hours/Week: 4

Paper : VII-A

Course Outcomes:

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

1. Write simple programs in PHP.
2. Understand how to use regular expressions, handle exceptions, and validate data using PHP.
3. Apply In-Built functions and Create User defined functions in PHP programming.
4. Write PHP scripts to handle HTML forms.
5. Write programs to create dynamic and interactive web based applications using PHP and MYSQL.
6. Know how to use PHP with a MySQL database and can write database driven web pages

Course: WEB APPLICATIONS DEVELOPMENT USING PHP & MYSQL LAB

Course Code: CS205308P

No. of Hours/Week: 2

Course Outcomes:

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

1. Write, debug and implement the Programs by applying concepts and error handling techniques of PHP.
2. Create an interactive and dynamic website.
3. Create a website with reports generated from a database.
4. Write programs to create an interactive website for e-commerce sites like online shopping, etc.

N.N.S. Eswarai
Signature of the HOD
DEPT OF COMPUTER SCIENCE
ASDGOVT DEGREE COLLEGE (M)AUTONOMOUS
KAKINADA

V. N. S.
PRINCIPAL
A.S.D.GOV.T.DEGREE COLLEGE (M)
AUTONOMOUS
KAKINADA