A.S.D.Government Degree College for Women
An Autonomous Institution
Jagannaickpur, Kakinada, Andhra Pradesh-533002
Affiliated to Adikavi Nannaya University, Rajamahendravaram

INTERNAL QUALITY ASSURANCE CELL

2.6.1. The institution has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution.

COMPUTER SCIENCE

COURSE OUTCOMES

(2018-23)

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

DEPARTMENT OF COMPUTER SCIENCE

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

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 toper form 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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DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2020-2021

B.Sc.(MPCS) 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) – Semester II

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: 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

6. Understand and Apply Object Oriented features and understand the basics of Java.
7. Develop problem-solving and programming skills using OOP concepts.
8. Apply the concepts of inheritance and to create arrays, strings.
9. Able to demonstrate Exception Handling and Multithreading.
10. 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

4. Apply OOP concepts to solve real time problems.
5. Make use of class, inheritance, interface and packages to develop solutions for complex problems.
6. 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

5. Understand fundamental concepts of Data structures and to design Linked lists.
6. Implement linear data structures stacks, queues.
7. Design non-linear data structures like trees, graphs and implement their operations.
8. 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

4. Implement Linked list and Perform operations on it.
5. Make use of arrays and linked lists to implement Stack and Queues.
6. 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

6. Understand DBMS concepts, data models and Architecture.
7. Understand ER concepts and ER mapping to relational model
8. Improve the database design by normalization.
9. Make use of SQL to retrieve and maintain relational database.
10. 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

4. Design database and ER diagrams for the real world scenarios
5. Understand ER concepts and ER mapping to relational model
6. 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

6. Understand basic concepts of software engineering.
7. Analyse the principles of requirement analysis
8. Create architectural design for a given project.
9. Plan the Project and identify the risk
10. 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

5. Understand basic concepts of software process models.
6. Develop SRS for a real world Project.
7. Analyze the risk related to a project using RMMM plan.
8. 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

6. Write well-structured, easily maintained, standards-compliant, accessible HTML code to design a web page.
7. Design well-structured, easily maintained CSS code to present HTML pages in different ways.
8. Know the basics of java script to perform client side programming
9. Build dynamic web pages using JavaScript.
10. 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

3. Make use of HTML tags to design Web pages.
4. Develop dynamic Web pages

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

Course Code: CSE20310

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

Course Outcomes:

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

5. Demonstrate knowledge of the basic elements and concepts related to distributed system technologies.
6. Demonstrate knowledge of the core architectural aspects of distributed systems.

7. Use and apply important methods in distributed systems to support scalability and fault tolerance;
8. Demonstrate experience in building large-scale distributed applications.

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

Course Code: CSE20310P **No. of Hours/Week: 2**

Course Outcomes:

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

4. Demonstrate Inter-process Communication and Remote Procedure Call in Distributed Systems.
5. Implement Mutual Exclusion in Distributed Systems.
6. Demonstrate Election Algorithm in Distributed Systems.

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

Course Code: CSE20311

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

Course Outcomes:

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

6. Compare the strengths and limitations of cloud computing
7. Identify the architecture, infrastructure and delivery models of cloud computing
8. Apply suitable virtualization concept.
9. Choose the appropriate Cloud Model and approach.
10. Address the core issues of cloud computing such as security, privacy and interoperability.

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

Course Code: CSE20311P **No. of Hours/Week: 2**

Course Outcomes:

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

4. Define & implement Virtualization using different Cloud Vendors
5. Describe steps toper form on demand Application delivery using various Cloud Service Providers
6. Analyse and understand the functioning of different components in Amazon web services.

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DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2021-2022

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

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DEPARTMENT OF COMPUTER SCIENCE

Academic Year 2022-2023

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

6. Understand the fundamentals of C programming.
7. Make use of loops, decision making statements and functions to solve the problem.
8. Implement different Operations on Arrays.
9. Understand Pointers, Structures and Unions.
10. 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

4. Implement programs using fundamental features of C Language.
5. Solve problems with the use of loops, decision making statements and functions.
6. 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

7. Understand fundamental concepts of Data structures and to design Linked lists.
8. Implement linear data structures stacks, queues.
9. Design non-linear data structures like trees, graphs and implement their operations.
10. Compare and Contrast different searching and sorting techniques.
11. Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal
12. 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

7. Implement various operations on arrays
8. Implement Linked list and Perform operations on it.
9. Make use of arrays and linked lists to implement Stack and Queues.
10. Implement various traversals on Trees and Graphs.
11. Implement various shortest path algorithms.
12. 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

6. Understand DBMS concepts, data models and Architecture.
7. Understand ER concepts and ER mapping to relational model
8. Improve the database design by normalization.
9. Make use of SQL to retrieve and maintain relational database.
10. 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

4. Design database and ER diagrams for the real world scenarios
5. Understand ER concepts and ER mapping to relational model
6. 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

6. Understand and Apply Object Oriented features and understand the basics of Java.
7. Develop problem-solving and programming skills using OOP concepts.
8. Apply the concepts of inheritance and to create arrays, strings.
9. Able to demonstrate Exception Handling and Multithreading.
10. 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

4. Apply OOP concepts to solve real time problems.
5. Make use of class, inheritance, interface and packages to develop solutions for complex problems.
6. 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

6. Interpret the basic structure of OS and architectural components.
7. Compare and contrast various Process scheduling algorithms.
8. Analyze various mechanisms of Synchronization and the principles of deadlock.
9. Make use of paging and segmentation in Memory management.
10. 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

4. Implement Process Scheduling and Page Replacement Algorithms.
5. Implement Various File Organization schemes
6. 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.

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