

MANNAR THIRUMALAI NAICKER COLLEGE (Autonomous)

(An Autonomous Institution Affiliated to Madurai Kamaraj University) (Accredited with "A" Grade by NAAC) Pasumalai, Madurai -625004

<u>V & VI SEMESTER - COURSE OUTCOMES</u> <u>SCIENCE</u>

B.Sc., COMPUTER SCIENCE

18UCSC51

COMPUTER NETWORKS

COURSE OUTCOMES:

On the successful completion of the course, learners should be able to

- CO1: Explain about building blocks of Computer Networks, components and transmission media.
- CO2: Demonstrate the functionalities and protocols in the layers of ISO/OSI network model.
- CO3: Make use of data link layer protocols in Error detection and correction
- **CO4:** Classify the routing protocols and analyze how to assign the IP addresses for the given network
- **CO5:** Justify how digital signatures are used to provide authentication

18UCSC52 RELATIONAL DATABASE MANAGEMENT SYSTEM

COURSE OUTCOMES

On successful completion of the course, the learners should be able to

- CO1: Explain the structure and model of the relational database system.
- CO2: Make a study of SQL and Relational database design.
- **CO3:** Analyze different information about the organization requiring an electronic database and translate them to user requirements.
- CO4: Interpret knowledge in transaction processing with relational database design.
- **CO5:** Create and populate a RDBMS for a real life application, with constraints, keys using SQL.

18UCSCP5 RELATIONAL DATABASE MANAGEMENT LAB

Course Outcomes: On successful completion of the course, the learners should be able to:

CO1: Write the basic database language commands to create simple database.

CO2: Apply PL/SQL for processing database.

CO3: Analyze the database using queries to retrieve records.

CO4: Evaluate the importance of queries and procedures to create real world applications.

CO5: Develop solutions using database concepts for real time requirements.

18UCSE51 OPERATING SYSTEM

Course Outcomes

On successful completion of the course, the learners will be able to

CO1: Define Operating System, its components and Goals, basic concepts, structure and functions of operating systems

CO2: Explain the mutual exclusion primitives, semaphores and concurrent programming.

CO3: Implement processor scheduling, deadlock prevention and avoidance for a given scenario.

CO4: Compare contiguous vs noncontiguous memory allocation and fixed and variable partition multiprogramming

CO5: Analyze the necessity of Disk Scheduling and various file systems.

18UCSE52

DATA MINING

Course Outcomes:

On successful completion of the course, the learners should be able to,

CO1: Know the data mining principles, techniques and discover the knowledge imbibed in the

high dimensional system.

CO2: Study algorithms for finding the hidden interesting patterns in data in real life.

CO3: Expose the students to the concepts of Data warehousing Architecture, implementation and analyze the various models.

CO4: Prepare evaluation criteria for classification methods and clustering

CO5: Study the overview of Web mining, Text mining and Big DataMining Tools and develop

application tools

18UCSE53 SYSTEM SOFTWARE

Course Outcomes:

On successful completion of the course, the learners should be able to:

- **CO1:** Describe the various machine architectures and explain the function of assemblers, loader and linkers, Macroprocessors, Compilers and DBMS
- CO2: Make use of the features of dependent and independent software
- CO3: Focus the algorithm and data structures of assemblers, loader, compilers
- CO4: Interpret the code using analysis and optimization techniques
- CO5: Imagine an editor that use high level source code and parse the data

18UCSE54

CRYPTOGRAPHY AND NETWORK SECURITY

Course Outcomes:

On successful completion of the course, the learners should be able to:

- **CO1:** Understand the concept of Symmetric key and Asymmetric key cryptography
- CO2: Apply the symmetric-key ciphers and asymmetric key ciphers to encrypt data
- **CO3:** Analyze the different crypto systems in asymmetric key cryptography for data authentications

CO4: Evaluate the various digital signature schemes to check the user authentication

CO5: Compose secure data exchange between sender and receiver by using message integrity and message authentication

18UCSE55

ARTIFICIAL INTELLIGENCE

COURSE OUTCOMES

On Successful Completion of this Course, the learners are able to

- CO1 Describe the concept of Artificial Intelligence.
- CO2 Analyze the search techniques and knowledge representation.
- **CO3** Demonstrate knowledge of the building blocks of AI as presented in terms of intelligent agents.
- **CO4** Acquire knowledge to solve problems in areas ranging from optimization problems to text analytics.

CO5 Learn the purpose of heuristic search techniques and design AI machine and enveloping applications for real world problems.

18UCSE56 INTERNET OF THINGS

Course Outcomes:

On Successful Completion of this Course, the learners should be able to

CO1: Describe and explain about IoT, Physical and Logical design of IoT, IoT levels, domain

specific IoTs

CO2: Determine physical and logical design of IoT

CO3: Compare Physical and Logical IoT, different levels and domain specific IoTs

CO4: Conclude the importance of IoT, Physical and Logical IoT, IoT levels, domain specific IoTs

CO5: Design and develop Physical and Logical IoT, IoT deployment templates

18UCSSP5

LINUX LAB

Course Outcomes:

On successful completion of this Lab the student will be able to

CO1: Know the student setup users and groups, Configure user defaults, logins and user profiles.

CO2: Effectively use the UNIX/Linux system to accomplish typical personal, office, technical, and software development tasks.

CO3: Identify and use UNIX/Linux utilities to create and manage simple file processing operations, organize directory structures with appropriate security, and develop shell scripts to perform more complex tasks.

18UCSC61

C# AND.NET PROGRAMMING

COURSE OUTCOMES

On successful completion of this course, the learners should be able to

CO1 Represent the insights of the Internet programming

CO2 Demonstrate design and implement complete application over the web

CO3ConnectMS.NET framework developed by Microsoft.

CO4 Evaluate the usage of recent platforms like C#, XML, and ASP.Net which is used in the development of web applications

CO5 Defend the deployment and the security in the .NET framework.

18UCSCP6 C# AND.NET PROGRAMMING LAB

Course Outcomes:

On successful completion of the course, the learners should be able to:

CO1: How to use C# and Visual Studio 2010 to build .NET Framework applications

CO2: Explain the purpose of the .NET Framework.

CO3: Apply the syntax of basic C# programming constructs.

CO4: Modify the given type of value to another type using boxing and unboxing techniques.

CO5: Conclude and call methods in a C# application using catch, handle and throw exceptions.

18UCSPR1 PROJECT AND VIVA – VOCE

Course Outcomes

- **CO1** The Project Lab is one that involves practical work for understanding and solving problems in the field of computing.
- CO2 Students will select individually Commercial or Technical Project based on Application Development Technologies.
- CO3 With the known technologies they can develop the software

18UCSE61

SOFTWARE ENGINEERING

Course Outcomes:

On successful completion of the course, the learners should be able to:

CO1: Explain about software engineering life cycle and process model in software development.

CO2: Prepare the SRS, Design document, Project plan of a given software system.

- **CO3:** Apply Project Management and Requirement analysis, Principles to S/W project development.
- CO4: Analyze the cost estimate and problem complexity using various estimation techniques
- **CO5:** Assess SQA in software project through various testing strategies with quality management.

18UCSE62 SOFTWARE PROJECT MANAGEMENT

COURSE OUTCOMES:

On successful completion of this course, the learners should be able to:

CO1: Define the methods used to evaluate and select projects for investment of funds.

CO2: Elaborate knowledge on the principles and techniques of software project management.

CO3: Prepare organization behavior and general management techniques used for project.

CO4: Organize test case design and types of testing.

CO5: Evaluate the levels of testing.

18UCSE63 MOBILE COMPUTING

Course Outcomes:

On successful completion of the course, students will be able to

- CO1: Describe the Architecture, Application and Services of Mobile Computing.
- CO2: Build an Application Based on the User Requirements.
- **CO3**: Select Appropriate Framework for Developing Applications based on the Problem Requirements.
- CO4: Explains the importance of Emerging Technologies, GPRS, CDMA and 3G, Security

Issues.

CO5: Design and Develop Mobile Applications for Societal and Environmental IT Problems.

18UCSE64 CLOUD COMPUTING

Course Outcomes

On successful completion of this course, the learners should be able to

- **CO1:** Define Cloud Computing and its types
- CO2: Explain the architecture of cloud computing
- CO3: Make use of Virtualization Techniques
- CO4: Analyze the different Google applications
- **CO5:** Propose the various applications in the Cloud

18UCSE65 BIOMETRICS

Course Objective:

On successful completion of this course, the learners should be able to,

CO1: Relate the security infrastructure in the industry and generally in information

sensitive environments.

CO2: Show the brief functioning of biometric system.

CO3: Describe the different types of biometric and their accuracy.

- CO4: Analyze the awareness of privacy issues for end users and for students.
- **CO5**: Develop the likelihood that biometric technologies, when deployed, will be as protective of personal and informational privacy as possible.

18UCSE66

NEURAL NETWORKS

Course Outcomes:

On successful completion of the course, the learners should be able to:

CO1: Know the basics of biological Neural Network and its types.

CO2: Attain the capability to apply the algorithms and techniques of neural network in real life

problem domains

CO3: Categorize the different types of neural networks and its architecture.

CO4: Predict human behavior in social web and related communities.

CO5: Construct solution for fuzzy network and Patterns Recognition Applications

18UCSSP6 PYTHON PROGRAMMING LAB

COURSE OUTCOMES:

On successful completion of the course, the learners should be able to

CO1 Recall the basics of declaration of variables, statements and expressions

- CO2 Develop the program using branching and looping statements
- CO3 Interpret the logic into code using Recursion, Function and Module
- CO4 Examine the logical skill of python program using exception
- CO5 Create a new modules and interfaces implementing the concept of each vowel