SUBBALAKSHMI LAKSHMIPATHY COLLEGE OFSCIENCE

An Autonomous Institution

(Affiliated to Madurai Kamaraj University & Re-Accredited with B+ Grade by NAAC)

T.V.R. NAGAR, ARUPPUKOTTAI ROAD, MADURAI-22



Program Outcomes, Program Specific Outcomes & Course Outcomes

B.Sc Computer Science (Security System Specialization)

Batch: 2019 -2020

Department of Computer Science

Programme Code: CS1002

ProgrammeCode : CS1002

ACADEMIC YEAR 2019-2020

(BATCH 2019 -2022)

Programme Outcomes (PO)

The Programme Outcomes of the B.Sc Computer Science (Security System Specialization) degree are

- To attract young minds to the potentially rich & employable field of computer Science & SecuritySystems.
- ii. To Train & Equip the students by providing highest quality education and professional experience to meet the requirement of the Industrial standards and excel in their career.
- iii. To develop skills in the fields of Software Development & Cyber Security, which enable the students to take up employment in Indian & globalmarket.
- iv. To provide a strong foundation to pursue Post Graduation Programme in Computer Science/Applications.

Programme Specific Outcomes (PSO)

The Programme Specific Outcomes of the B.Sc Computer Science (Security System Specialization) degree are to make the graduates to become

- i. SoftwareDeveloper.
- ii. WebProgrammer.
- iii. Mobile ApplicationDeveloper
- iv. Cyber SecurityProfessional.

SEMESTER - I

Semester : I Batch : 2019-2022

Subject code :19CS103 Subject : Programming in C

Internal Marks : 25 External Marks : 75

Part : III [CORE] Credits : 4

Course Outcomes:

This subject will enable the students to

CO1: Understand the basic programming structure (K2)

CO2: Implementing arrays (K3)

CO3: Applying functions in structure (K3)

CO4: Compare pointers and arrays (K3)

CO5: Build and design programs using files (K3)

I B.Sc Computer Science (Security System Specialization)

Semester : I Batch : 2019-2022

Subject code : 19CS104 Subject : Computer Organization

Internal Marks : 25 External Marks : 75

Part : III [CORE] Credits : 4

Course Outcomes:

This subject will enable the students to

CO1: Understand the basic structure of computer (K2)

CO2: Demonstrate I/O devices and its functionalities (K2)

CO3: Illustrate Memory System (K2)

CO4: Summarize the Number System and Arithmetic Operations (K2)

CO5: Make use of processing unit (K3)

Semester : I Batch : 2019-2022

Subject code : 19CS106 Subject : Secure Programming using C – Lab

Internal Marks : 25 External Marks : 75

Part : III [Core Practical] Credits : 4

Course Outcomes:

This subject will enable the students to

CO1: Understand input and output statements (K3)

CO2: Apply Conditional statements (K3)

CO3: Build Applications using Functions and Structures (K3)

CO4: Experiment with pointers and files (K3)

CO5: Interpret Encryption and Decryption techniques.(K2)

I B.Sc Computer Science (Security System Specialization)

Semester : I Batch : 2019-2022

Subject code : 19CS107 Subject : Office Automation & HTML Lab

Internal Marks : 25 External Marks : 75

Part : III [Core Practical] Credits : 3

Course Outcomes:

By the end of this semester, the student will be able to

CO1: Build various types of documentations (K3)

CO2: Utilize formulas and graphs for data manipulation (K3)

CO3: Create presentation with animation (K6)

CO4: Construct relations and query extraction (K3)

CO5: Design static Web pages (K6)

Semester : I Batch : 2019-2022

Subject code :19VE109 Subject : Value Education

Internal : 25(Practical) External : 75(Theory)

Part : IV Credits : 2

Course outcomes:

The student will be able to

CO1: Inculcate significance of value education (K3)

CO2: Infer value education for nation building (K2)

CO3: Understand human rights with Indian constitution (K2)

CO4: Learn moral values, ethics and good manners (K1)

CO5: Realize religious values and yoga (K1)

SEMESTER - II

Semester : II Batch : 2019-2022

Subject code :19CS203 Subject : Object OrientedProgramming with C++

Internal Marks : 25 External Marks : 75
Part : III [CORE] Credits : 4

Course Outcomes:

This subject will enable the students to

CO1: Understand OOPs Concepts (K3)

CO2: Interpret Classes and Objects (K2)

CO3: Relate concepts of polymorphism

(K1) CO4: Infer the Inheritance and its

types (K2) CO5: Make use of files(K3)

I B.Sc Computer Science (Security System Specialization)

Semester : II Batch : 2019-2022

Subject code :19CS204 Subject : Operating System

Internal Marks : 25 External Marks : 75

Part : III [CORE] Credits : 4

Course Outcomes:

This subject will enable the students to

CO1: Define Operating System structure (K1)

CO2: Demonstrate Process Management (K2)

CO3: Show Process coordination with synchronization and deadlocks (K2)

CO4: Explain Memory Management (K2)

CO5: Outline of Storage Management (K2)

Semester : II Batch : 2019-2022

Subject code :19CS206 Subject : Object Oriented

Programming with C++ Lab

Internal Marks : 40 External Marks : 60

Part : III [CORE Credits : 4

PRACTICAL]

Course Outcomes:

This subject will enable the students to CO1: Apply classes and objects(K3)

CO2: Experiment with Polymorphism (K3)

CO3: Experiment with constructors and destructors (K3)

CO4: Build Applications using types of inheritance (K3)

CO5: Interpret files and templates (K2)

I B.Sc Computer Science (Security System Specialization)

Semester : II Batch : 2019-2022 Subject code :19CS207 Subject : Linux Lab

Internal Marks : 40 External Marks : 60

Part : III [Core Practical] Credits : 3

Course Outcomes:

This subject will enable the students to

CO1: Apply file manipulation commands (K3)

CO2: Demonstrate utility commands (K2)

CO3: Illustrate pipes and filter commands (K2)

CO4: Outline process commands(K2)

CO5: Make use of shell scripts for various applications (K3)

Semester : II Batch : 2019-2022

Subject code : 19ES210 Subject : Environmental Studies

Internal : 25 marks External : 75 marks

Part : IV Credits : 2

Course Outcomes:

The Student will be able to

CO1: Understand the significances of Multidisciplinary nature of environmental studies (K1)

CO2: Inculcate the concept of Natural resources and its associated problems (K2)

CO3: Understand the concept of Environmental Pollution and its preventive measures (K2)

CO4: Relate the Social Issues (K2)

CO5: Build the Legal Awareness (K3)

SEMESTER – III

II B.Sc COMPUTER SCIENCE (SECURITY SYSTEM SPECIALIZATION)

Semester : III Batch : 2019-2022

Course code : 19CS301 Course Name : Java Programming

Internal Marks : 25 External Marks : 75

Part : III [CORE] Credits : 4

Course Outcomes:

This course will enable the students to

CO1: Demonstrate the basic concepts in Java Programming (K2)

CO2: Illustrate the real time implementation of classes and methods (K2)

CO3: Build the concept of inheritance, interfaces and packages (K3)

CO4: Interpret the importance of Multithreading and Exception handling (K5)

CO5: Develop a GUI based interface using applets, AWT and swing (K6)

II B.Sc Computer Science (Security System Specialization)

Semester : III Batch : 2019-2022

Course code : 19CS302 Course Name :Computer Networks &

Cryptography

Internal Marks : 25 External Marks : 75

Part : III [CORE] Credits : 4

Course Outcomes:

This course will enable the students to

CO1: Summarize the fundamentals of networks and reference models (K2)

CO2: Demonstrate the transmission media in physical layer (K2)

CO3: Apply the concept of network security& cryptography (K3)

CO4: Experiment with block cipher algorithms (K3)

CO5: Apply public key cryptography algorithms in security systems (K3)

Semester : III Batch : 2019-2022

Course code : 19CS303 Course Name : Data Structures

Internal Marks : 25 External Marks : 75

Part : III [Elective I] Credits : 4

Course Outcomes:

This course will enable the students to

CO1: Analyze the abstract properties of various data structures. (K4)

CO2: Demonstrate the various operations on Stacks and Queues. (K2)

CO3: Determine the different techniques of Sorting and Searching. (K5)

CO4: Design the implementation of Linked Lists with its operations. (K6)

CO5: Discuss the functionalities of Tree structure and its applications. (K6)

II B.Sc Computer Science (Security System Specialization)

Semester : III Batch : 2019-2022

Course code : 19CS304 Course Name : Client Server Computing

Internal Marks : 25 External Marks : 75

Part : III [Elective II] Credits : 4

Course Outcomes:

This Course will enable the students to

CO1: Get the knowledge on Client / Server Concepts (K2).

CO2: Understand various components of client / server Applications (K2).

CO3: Know the benefits and requirements of Client server technology (K2).

CO4: Gain the knowledge about different types of servers (K2).

CO5: Understand the concepts of development & deployment of networks (K2).

Semester : III Batch : 2019-2022

Course code : 19CS305 Course Name : Secure Programming using Java Lab

Internal Marks : 40 External Marks : 60

Part : III [Core Practical] Credits : 3

Course Outcomes:

This course will enable the students to

CO1: Examine the fundamentals of programming such as variables, conditional and iterative execution, methods (K4)

CO2: Interpret the fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries (K5)

CO3: Analyze the importance of inheritance, packages and interfaces (K4)

CO4: Build the concepts of multithreading and exception handling (K6)

CO5:Develop a GUI application using applet, AWT and swing (K6)

II B.Sc Computer Science (Security System Specialization)

Semester : III Batch : 2019-2022

Course code : 19CS306 Course Name : DHTML Lab

Internal Marks : 25 External Marks : 75

Part : IV [Skill Based Practical] Credits : 2

Course Outcomes:

This course will enable the students to

CO1: Experiment the fundamentals of web designing (K3)

CO2: Inspect CSS properties, attributes and styles for web designing (K4)

CO3: Evaluate dynamic web applications using scripts (K5)

CO4: Assess with objects in Java script (K5)

CO5: Create web applications using cookies in Java script (K6)

II B.Sc COMPUTER SCIENCE(SECURITY SYSTEM SPECIALIZATION)

Semester : III Batch : 2019-2022

Course code : 19CS307 Course Name : Office Automation Lab-I

Internal Marks : 25 External Marks : 75

Part : IV [Non Major Credits : 2

Elective – I]

Course Outcomes:

This course will enable the students to

CO1: Determine the use of table, shapes, smart art, clip art in MS-Word document (K5)

CO2: Build a newspaper using bullets, numbering, borders, drop cap in MS-Word document (**K6**)

CO3: Create certificates, pamphlets using templates in the MS-Word document (**K6**)

CO4: Analyze the student marks using the functions of MS-Excel (K4)

CO5: Analyze the data using sorting, filtering, functions & charts in MS-Excel (K4)