



PROGRAMME OUTCOME

B.Sc., COMPUTER SCIENCE

- Scientific aptitude will be developed in Students
- Students will acquire basic Practical skills & Technical knowledge along with domain knowledge of different subjects in the Computer Science & humanities stream.
- Students will become employable; Students will be eligible for career opportunities in education field, Industry, or will be able to opt for entrepreneurship.
- Students will possess basic subject knowledge required for higher studies, professional and applied courses.
- Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues.
- Ability to acquire in-depth knowledge of several branches of Computer Science and aligned areas. This Programme helps learners in building a solid foundation for higher studies in Computer Science and applications.
- The skills and knowledge gained leads to proficiency in analytical reasoning, which can be utilized in modelling and solving real life problems.
- Utilize computer programming skills to solve theoretical and applied problems by critical understanding, analysis and synthesis.
- To recognize patterns and to identify essential and relevant aspects of problems.
- Ability to share ideas and insights while seeking and benefitting from knowledge and insight of others.
- Mold the students into responsible citizens in a rapidly changing interdependent society.

தரமாய் கற்று வளமாய் வாழ...!



ST ALPHONSA COLLEGE

OF ARTS AND SCIENCE

An Institution run by the Syro Malabar Catholic Diocese of Thuckalay
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)
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Course Outcomes

COURSE OUTCOME (Academic Year 2023-2024)

I B. Sc. Computer Science

ODD SEMESTER

Sem.	Subject No.	Subject Status	Subjects	Subject Code	Contact Hrs./Week	Credit
	1	Core-1	CC1 - Python Programming	EMCS11	5	5
	4	Elective – I	Discrete Mathematics	EECS11	4	3
	6	Lab I	CC2 – Practical i) Python Programming	EMCSP1	3	3
		Lab II	ii) Office Automation	EMCSP2	2	2
	8	Ability Enhancement Course SEC-1	Office Automation	ESCS11	2	2
	9	Foundation Course FC -	Problem Solving Techniques	EFCS11	2	2
			Total		18	17

COURSE OUTCOME

Subject Code: EMCS11

Subject: Python Programming

Course Outcome		Programme Outcome
C01	Learn the basics of python, Do simple programs on python, Learn how to use an array.	PO1, PO2, PO3, PO4, PO5, PO6
C02	Develop program using selection statement, Work with Looping and jump statements, Do programs on Loops and jump statements.	PO1, PO2, PO3, PO4, PO5, PO6
C03	Concept of function, function arguments, Implementing the concept strings in various application, Significance of Modules, Work with functions, Strings and modules.	PO1, PO2, PO3, PO4, PO5, PO6
C04	Work with List, tuples and dictionary, Write program using list, tuples and dictionary.	PO1, PO2, PO3, PO4, PO5, PO6
C05	Usage of File handlings in python, Concept of reading and writing files, Do programs using files.	PO1, PO2, PO3, PO4, PO5, PO6

Subject Code: EMCSP1

Subject: Python Programming Lab

	Course Outcome
C01	Demonstrate the understanding of syntax and semantics of PYTHON language
C02	Identify the problem and solve using PYTHON programming techniques.
C03	Identify suitable programming constructs for problem solving
C04	Analyze various concepts of PYTHON language to solve the problem in an efficient way.
C05	Develop a PYTHON program for a given problem and test for its correctness

Subject Code: EMCSP2

Subject: Office Automation Lab

	Course Outcome
C01	Know how to solve various problems on discrete mathematics
C02	Use approximation to solve problems
C03	Differentiation and integration concept are applied
C04	Apply, direct methods for solving linear systems
C05	Discrete solution of ordinary problems

Subject Code: EECS11

Subject: Discrete Mathematics

	Course Outcome
C01	Know how to solve various problems on discrete mathematics
C02	Use approximation to solve problems
C03	Differentiation and integration concept are applied
C04	Apply , direct methods for solving linear systems
C05	Discrete solution of ordinary problem

Subject Code: ESCS11

Subject: OFFICE AUTOMATION

	Course Outcome
C01	Understand the basics of computer systems and its components.
C02	Understand and apply the basic concepts of word processing package.
C03	Understand and apply the basic concepts of electronic spreadsheet software.
C04	Understand and apply the basic concepts of database management system.
C05	Understand and create a presentation using PowerPoint tool.

Subject Code: EFCS11

Subject: Problem Solving

Course Outcome		Programme Outcome
C01	Study the basic knowledge of Computers. Analyze the programming languages	P01, P02, P03, P04, P05, P06
C02	Study the data types and arithmetic operations. Know about the algorithms. Develop program using flow chart and pseudocode.	P01, P02, P03, P04,P05, P06
C03	Determine the various operators. Explain about the structures. Illustrate the concept of Loops	P01, P02, P03, P04,P05, P06
C04	Study about Numeric data and character-based data. Analyze about Arrays	P01, P02, P03, P04,P05, P06
C05	Study about Numeric data and character-based data. Analyze about Arrays	P01, P02, P03, P04, P05, P06

COURSE OUTCOME

I B.Sc. Computer Science (Academic Year 2023-2024)

Even Semester

Sem.	Subject No.	Subject Status	Subjects	Subject Code	Contact Hrs./Week	Credit
	1	Core-1	CC3 - Data Structure and Algorithms		5	5
	4	Elective - II	Digital Logic Fundamentals		4	3
	6	Lab I	CC2 - Practical :i) Data Structure and Algorithms		3	3
		Lab II	ii) Web Design		2	2
	8	Ability Enhancement Course SEC-2	Introduction To HTML		2	2
	9	Foundation Course SEC - 3	Understanding Internet		2	2
			Total		18	17

Subject Code:

Subject: Data Structure and Algorithms

Course Outcome		Programme Outcome
C01	Understand the concept of various number systems	PO1,PO6
C02	Understand basic concepts of digital systems	PO2
C03	Describe the storage structures	PO2,PO4
C04	Solve problems using SOP and PoS	PO4,PO6
C05	Apply concepts for simplifications	PO5,PO6

Subject Code:

Subject: Data Structure and Algorithms Lab

Course Outcome		Programme Outcome
C01	Understand basic data structures such as arrays, linked lists, stacks and queues	PO1, PO4,PO5
C02	Describe the hash function and concepts of collision and its resolution methods	PO1,PO3,PO6
C03	Solve problem involving graphs, trees and heaps	PO3,PO4
C04	Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data	PO1,PO5,PO6

Subject Code:

Subject: Introduction to HTML

Course Outcome		Programme Outcome
C01	Understand the concept of various tags	PO1,PO6
C02	Understand basic designing	PO2
C03	Describe the hash function and concepts of tables, designing etc.	PO2,PO4
C04	Solve problem involving style sheets	PO4,PO6
C05	Apply the attributes in designing web pages	PO5,PO6

Subject Code:

Subject: Understanding Internet

Course Outcome		Programme Outcome
C01	Understand the concept of network	PO1,PO6
C02	Understand basic languages	PO2
C03	Describe the security hash function and concepts of security methods	PO2,PO4
C04	Solve problem involving malware	PO4,PO6
C05	Apply Algorithm for secure network	PO5,PO6