

Program Highlights

Field of Study: Science

Alumni: 7 Graduated batch

Duration: 126 hours of instruction

Eligibility Criteria

1. Should have successfully completed twelve years of schooling in the science stream or equivalent from any university, board, or institution.
2. Should have secured a minimum of the second division.
3. Should have successfully passed the entrance examination conducted by the Institute of Science and Technology (IOST), TU.
4. Complied with all the application procedures.

Year-wise Course Outline

Semester 1

Course Code	Course Title	Credit Hours	Full Marks
CSC109	Introduction to Information Technology	3	100
CSC110	C Programming	3	100
CSC111	Digital Logic	3	100
MTH112	Mathematics I	3	100
PHY113	Physics	3	100
Total		15	500

Semester 2

Course Code	Course Title	Credit Hours	Full Marks
CSC160	Discrete Structure	3	100
CSC161	Object Oriented Programming	3	100
CSC162	Microprocessor	3	100
MTH163	Mathematics II	3	100
STA164	Statistics I	3	100
Total		15	500

Semester 3

Course Code	Course Title	Credit Hours	Full Marks
CSC206	Data Structure and Algorithms	3	100
CSC207	Numerical Method	3	100
CSC208	Computer Architecture	3	100
CSC209	Computer Graphics	3	100
STA210	Statistics II	3	100
Total		15	500

Semester 4

Course Code	Course Title	Credit Hours	Full Marks
CSC257	Theory of Computation	3	100
CSC258	Computer Networks	3	100
CSC259	Operating Systems	3	100
CSC260	Database Management System	3	100
CSC261	Artificial Intelligence	3	100
Total		15	500

Semester 5

Course Code	Course Title	Credit Hours	Full Marks
CSC314	Design and Analysis of Algorithms	3	100
CSC315	System Analysis and Design	3	100
CSC316	Cryptography	3	100
CSC317	Simulation and Modeling	3	100
CSC318	Web Technology	3	100
	Elective I	3	100
Total		18	600

Semester 6

Course Code	Course Title	Credit Hours	Full Marks
CSC364	Software Engineering	3	100

CSC365	Compiler Design and Construction	3	100
CSC366	E-Governance	3	100
CSC367	NET Centric Computing	3	100
CSC368	Technical Writing	3	100
	Elective II	3	100
Total		18	600

Semester 7

Course Code	Course Title	Credit Hours	Full Marks
CSC409	Advanced Java Programming	3	100
CSC410	Data Warehousing and Data Mining	3	100
MGT411	Principles of Management	3	100
CSC412	Project Work	3	100
	Elective III	3	100
Total		15	500

Semester 8

Course Code	Course Title	Credit Hours	Full Marks
CSC461	Advanced Database	3	100
CSC462	Internship	6	200
	Elective IV	3	100
	Elective V	3	100
Total		15	500

Non-Credit Courses (NCC):

- Mobile Application Development
- UI/UX Design
- Web Development
- AWS
- CCNA
- Flutter
- Golang
- IT Essentials
- Linux
- Python
- React

Career Opportunities

Web Developer

Opportunities as a Web Developer include designing, coding, and optimizing web applications. You'll craft user-friendly interfaces, ensure responsive designs, and integrate databases, combining creativity with technical skills to deliver impactful digital solutions.

Project Manager

Combining technical expertise and leadership, Computer Science graduates can manage IT projects, oversee teams, and ensure timely delivery of solutions, bridging communication between stakeholders and developers for efficient and successful outcomes.