

Symbiosis University of Applied Sciences

Ordinance No. 5 of 2016

SCHOOL OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

The School of Computer Science & Information Technology will offer a range of Certificate, Diploma and Degree programmes in line with the industry requirement. The curriculum has been designed in consultation with the industry to ensure that the students are job ready and employable on completion of the course from the University. Each course within the programme is modular and credit based. Learning outcomes and skill competency levels expected from students have been clearly define. Duration of the program shall be four years and validity shall be seven years or as defined by the concerned regulatory body from time to time.

The Programme structure allows multi-entry & multi-exit facility to students. The policy for multi-entry & exit shall be prescribed by the statutory bodies of the University from time to time.

Vertical mobility will be provided from certificate to degree programs to provide career progression from one job role to the next. The students will have the option to accumulate and transfer credits to relevant programs of the University over a period of time. The policy for Credit Banking and Transfer will be prescribed by the University from time to time.

Teaching learning will focus on hands on practical training. The learning will organized to integrate practical training into day to day lectures. Teaching learning methods for all the programs shall include class room teaching, assignment, viva voce, lab work, skill training, seminar, project work, summer training, internships, industrial semesters, field work, presentation, group discussion etc.

Evaluation methodology will comprise combination of formative and summative assessments.

An important component of evaluation system shall be the skill assessment of students. For each module, within the program there shall be a skill set clearly defined. The students will be required to master that skill to move to the next level.

Programmes offered by the School of Computer Science & Information Technology sector are:-

S. No	Name of Programme
1.	B. Tech in Computer Science & Information Technology
2.	a) Certificate in SAP b) Certificate in ORACLE Certification c) Certificate in CISCO & (CCNA) d) Certificate in Data Warehousing & Business Intelligence e) Certificate in Analytics & Social Media f) Certificate in Big Data & Hadoop g) Certificate in IOT h) Certificate in Mobile T&T i) Certificate in Cloud Computing j) Certificate in Requirement Analysis & Testing Practices

Program Objective of B. Tech in Computer Science & Information Technology

The B. Tech in Computer Science and Information Technology has been mapped to the job roles in demand in the IT sector. The first 2 semesters are common and comprise of basic subjects such as Mathematics, Statistics Basic Electronics and Digital Electronics and Logic circuits, with inclusion of Domain stream specific course subjects subsequently. The first two years build a strong foundation of Computer fundamentals, Operating Systems, Computer Architecture and Design, Algorithms, Programming languages and databases etc. It also starts building an understanding of the domain of choice. After two semesters, there are four semesters which cover advanced Computer subjects and advanced domain concepts. The First 6 semesters also include laboratory modules. Semesters 7 & 8 include live project on the domain of choice. Students are also given a flavour of Software Quality Engineering, SDLC, Requirements Management, Project Management, Mobile telephony and Infrastructure Management which have become key subjects in large IT project engagements. The syllabus also includes subjects of contemporary Mainframe technologies, and emerging ones such as Internet of Things, Cloud, Social Media and Analytics. Overall the course is structured in a way to give a well-rounded knowledge and practical training to the student on which he can build further and become a valuable contributor in the professional world.