SOFTWARE ENGINEERING

Software engineering is the discipline of designing, creating and maintaining software by applying technologies and practices from computer science, project management, engineering, application domains, interface design, digital asset management and other fields.

CAREER OPPORTUNITIES

- Software Engineers
- Mobile Application Developers
- Full Stack Developers
- UI/UX Engineers
- System Analysts

ENTRY REQUIREMENTS

Passes in three subjects (in any subject stream) at the G.C.E. Advanced Level Examination (Sri Lanka / London) in one and the same sitting, and a pass at the Aptitude Test conducted by SLIIT. To progress from second year semester one to second year semester two of the program, a student must pass all the modules up to the second year semester 01 and maintain a minimum CGPA of 2.7.

YEAR ONE
SEMESTER 01

IT1120	Introduction to Programming	04
IE1030	Data Communication Networks	04
IT1130	Mathematics for Computing	04
IT1140	Fundamentals of Computing	03

SEMESTER 02

IT1160	Discrete Mathematics	04
IT1170	Data Structures and Algorithms	04
SE1010	Software Engineering	04
IT1150	Technical Writing	04

YEAR TWO
SEMESTER 01

IT2120	Probability and Statistics	04
SE2010	Object Oriented Programming	04
IT2130	Operating Systems & Sys Admin	04
IT2140	Databases	04

SEMESTER 02

IT2011	Artificial Intelligence & Machine Learning	04
IT2150	IT Project	04
SE2020	Web and Mobile Technologies	04
IT2160	Professional Skills	04

YEAR THREE
SEMESTER 01

IT3120	Industry Economics & Management	04
SE3090	Software Engineering Frameworks	04
SE3100	Architecture based Development	04
SE3110	Quality Managment in Software Engineering	04

SEMESTER 02

IT3190	Industry Training	08
SE3120	Distributed Systems	04
SE3130	User Experience Research & Design	04
IT3160	Research Methods	04

YEAR FOUR
SEMESTER 01

IT4200	Research Project - I	04
SE4070	Secure Software Development	04
SE4080	Cloud Native Development	04
SE4100	Deep Learning	04
SE4090	Mobile Application Design & Development	04

SEMESTER 02

IT4200	Research Project - II	08
SE4110	Current Trends in Software Engineering	04
SE4120	Enterprise Application Development	04
SE4140	Big Data & Data Analytics	04
SE4130	Parallel Computing	04

* Electives to be chosen with prior approval