

Why SLIIT?

Highly qualified, dedicated in house academic staff, professional career focused education, innovative study programmes, outstanding facilities are some of the reasons that make SLIIT the right choice for you. SLIIT ensures its students a learning experience that is a enriching and enlightening.

“The practical based curricula which you gain from this degree will provides you a substantial edge at your employment prospects”.

Our graduates are highly sought after by industry with 90% of computing graduates are finding employment within first four month of graduation.

Engineering at SLIIT

- Opportunity to complete UGC approved highly recognized degree programme
- Competent in-house lecture panel with more than 5000 of collective experience
- Member of the Association of Commonwealth Universities and International Association of Universities (IAU)

Study Experience

With a strong focus on building theoretical and practical based study, the BSc Engineering (Hons) Degree in Mechanical Engineering Specialized in Mechatronic Engineering incorporates the students to gain hand in experience in real time assignments, group projects, and co-curricular activities. The students are required to attend an internship in their vacation period as a part of their degree.

Mechanical Engineering Specialized in Mechatronic Engineering

Mechatronics is the merger of mechanical engineering with smart electronics and is vital to subjects such as industrial automation and robotics. Mechatronics at SLIIT offers opportunities to develop a range of technical skills in digital electronics, drive technologies, mechanics and software.

Duration : 04 Years
Entry : February / September
Location : Malabe
Offered : Weekdays
Examinations : Weekdays

Careers in :

- Manufacturing
- Automation Industry
- Aeronautic Industry
- Power generation and distribution
- Chemical, Telecommunication and Medical Industries

Course Structure

YEAR 01

Semester 01
Engineering Mechanics
Engineering Design and Processes
Electrical Systems
Engineering Mathematics I
English Language Skills I
Introduction to Sustainable Engineering

Semester 02
Engineering Skills Development
Engineering Principles and Communication
Engineering Materials
Engineering Mathematics II
Engineering Programming
English Language Skills II

YEAR 03

Semester 01
Embedded Systems Engineering I
Control Systems
Manufacturing Processes II
Solid Mechanics & Mechanical Design
Fluid Mechanics & Hydraulic Machinery
Humanities II

Semester 02
Power Electronics
Advanced Digital Design
Engineering Management
Law for Engineers
Automation Systems

Entry Requirements

Passes in three subjects in Maths stream including a Credit pass in Maths or Physics 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.

YEAR 02

Semester 01
Foundations of Digital Design
Mechanics of Machines I
Electrical Circuits
Engineering Drawing
Engineering Mathematics III
Microcomputers

Semester 02
Electronic for Mecatronic Engineers
Mechatronic Systems Engineering
Mechatronic Systems Modelling
Thermodynamics
Electromagnetic & Electromechanical Energy Conversion
Manufacturing Processes I
Humanities I
Industrial Training I

YEAR 04

Semester 01
Mechatronic Engineering Project I
Advanced Automation Systems
Production & Operations Management
Industrial Management & Marketing
Power Electronics and Drives
Computer Aided Design and Manufacture
Robotics and Autonomous Systems
Embedded Systems Engineering II
Energy Technology and Sustainability

Semester 02
Mechatronic Engineering Project II
Industrial Engineering
Professional Practice
Computer Vision and Image Processing
Automatic Control II
Object Oriented Programming for Mechatronics Engineers
Automotive Engineering
Neural & Fuzzy Systems
Micro - Mechatronics