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 Materials 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.

Materials Engineering

Materials Engineers are the vanguard of discovering the best material solutions for products. From designing the perfect combination of components for an aeroplane wing to developing materials for medical implants, they build the foundations of new technology and groundbreaking progress. The final two years deliver subjects for specializations such as Metallic Material, Polymeric Materials, Ceramic Materials, and Nanomaterials.

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

Careers in :

- Research
- Development
- Operations
- Manufacturing
- Academia
- Management

Course Structure

YEAR 01

Semester 01
Engineering Mechanics
Engineering Design and Processes
Electrical Systems
Engineering Mathematics I
English Language Skills I
Introduction to Renewable Energy
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 02

Semester 01
Structural Analysis I
Fluid Mechanics I
Civil Engineering Materials
Civil Engineering Methods
Engineering Mathematics III

Semester 02
Geotechnical Engineering I
Structural Design
Structural Analysis II
Structural Mechanics
Introduction to Thermal process
Humanities I
Industrial training

YEAR 03

Semester 01
Crystallography & Diffraction Methods
Joining of Materials
Advanced Material Characterisation Techniques
Biomaterials & Biomedical Applications
Humanities II
Metal Processing
Polymer Process & Engineering
Ceramic Processing & Technology
Nanofabrication

Semester 02
Composite Science & Technology
Selection of Materials & Failure Analysis
Engineering Management
Strengthening & Heat Treatment of Metals
Industrial Polymers & Applications
Science & Technology of Glass Ceramics
Nanodevices for Engineering Applications
Industrial Training II

YEAR 04

Semester 01
Material Engineering Project I
Project Management
Modeling & Simulations in Material Processes
Humanities II
Engineering Alloys
Corrosion & Protection
Design & Fabrication of Polymer products
Rubber Technology & Applications
Refractories : Technology & Applications
Hi-Tech & Nanoceramics
Modeling & Simulations in Nanoengineeing
Polymer Nanocomposites & Applications

Semester 02
Material Engineering Project II
Smart Materials & Devices
Cleaner Production & Environmental Sustainability
Material for Engineering Applications
Bionanotechnology

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 (Srilanka / London) in one and the same sitting and a pass at the Aptitude Test conducted by SLIIT.