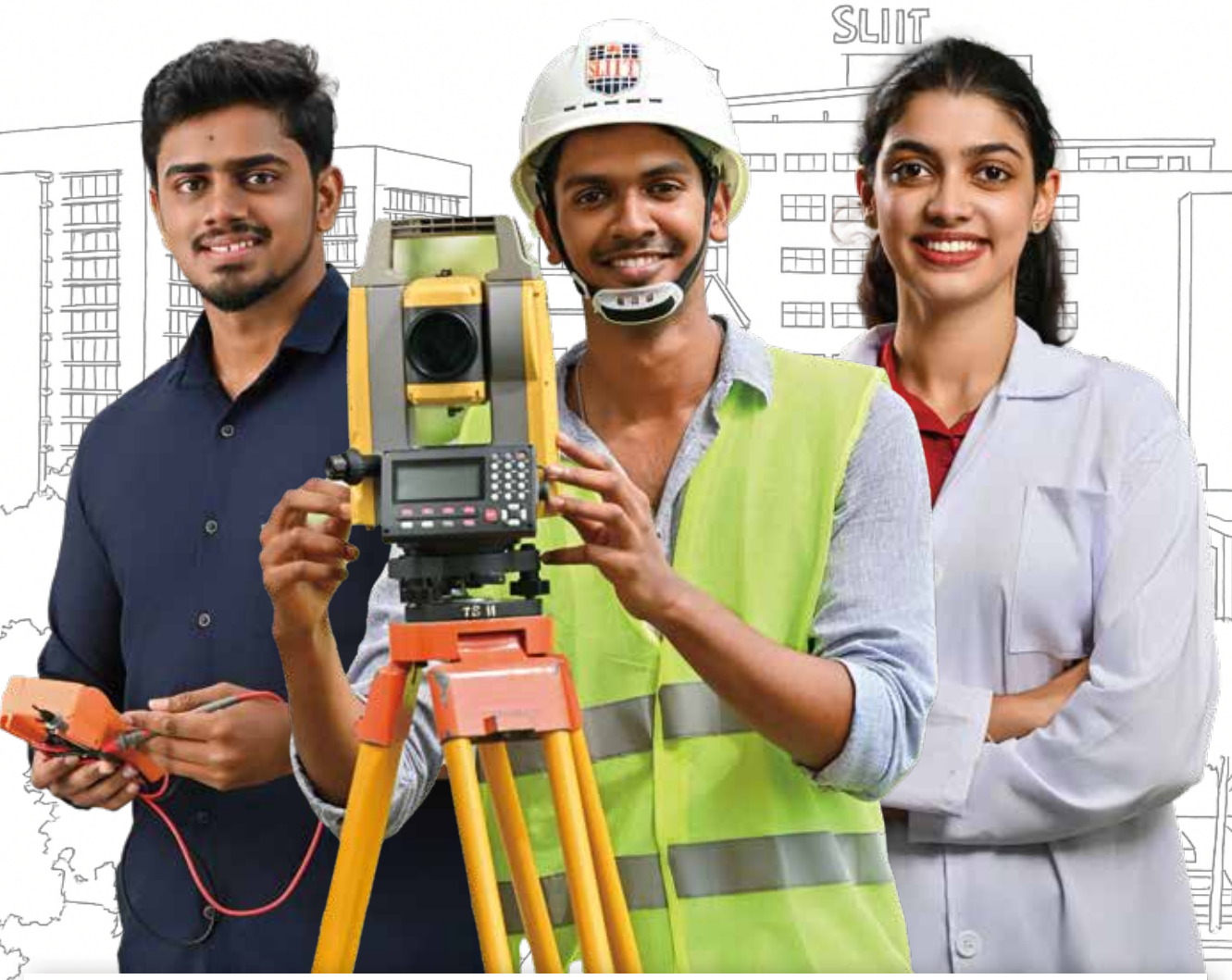
FACULTY OF ENGINEERING

STUDENT GUIDE



COMPUTING | BUSINESS | ENGINEERING | EDUCATION | SCIENCE | QUANTITY SURVEYING | ARCHITECTURE | INTERIOR DESIGN | FASHION

BIOTECHNOLOGY | NURSING | LAW | FINANCIAL MATHEMATICS | PSYCHOLOGY | HOSPITALITY & CULINARY | EVENT MANAGEMENT

SLIIT UNT

THE KNOWLEDGE UNIVERSITY

THE FUTURE AWAITS YOU

The goals and decisions you pursue today will take you to the next level. If your decision is to be “Tomorrow’s Great”, you sholud join SLIIT Uni, a globally recognised Institute

BE SMART. BE WISE

“The Future Awaits you” is determinded by your next level of education in the fields of;

COMPUTING | BUSINESS | ENGINEERING | HUMANITIES AND SCIENCES | ARCHITECTURE

- Scholarships worth over Rs. 50 Million
- A grant of Rs. 120 Million for new scientific research
- Internationally accredited lecture panel
- Educational facilities of international standards

CONTENTS

MESSAGE FROM THE DEAN

PROFESSOR

AYANTHA GOMES

DEAN - FACULTY OF ENGINEERING

The Faculty of Engineering is dedicated to producing top-tier graduates who are highly sought after by industry leaders. The faculty pursues the institute's mission by focusing on excellence in higher learning, research and other professional activities. State-of-the-art facilities of the faculty and the highly qualified academic staff provide an optimal learning environment for students. The faculty boasts over a hundred full-time academic staff including more than 30 PhD holders and an equal number of postgraduate qualified academics. In addition, more than 10 professors from foreign universities through the honorary professor network, and an equal number of lecturers, professors from local universities and practising engineers from the industry support the academic delivery. The Faculty of Engineering comprises five academic departments.

The faculty currently offers four-year Bachelor of Science honours in Engineering degrees in four disciplines, approved by the Ministry of Higher Education, Sri Lanka: Civil Engineering, Electrical and Electronic Engineering, Mechanical Engineering and Materials Engineering. In Mechanical Engineering, the students may opt for the mechatronic specialization, and plans are underway for similar specializations in other disciplines. Furthermore, the Department of Quantity Surveying offers a three-year Bachelor of Science Honours degree in Quantity Surveying in partnership with the Liverpool John Mores (LJMU), UK. The Quantity Surveying degree is RICS, UK accredited and is in the process of obtaining RICS accreditation for its delivery in the faculty. In addition, starting from 2025 the faculty is expected to enroll students for the Bachelor of Science Honours in Quantity Surveying offered by SLIIT. This is the most recently approved degree by the Ministry of Higher Education and is pending gazette notification. All undergraduate programs include compulsory industrial training, providing undergraduates with valuable industry exposure. Due to the highly qualified full-time staff, state-of-the-art resources, and well-developed curricula upgraded with the industry trends and industry exposure, SLIIT Engineering graduates are well prepared to work as practising Engineers as soon as they graduate. The high employment rates of graduates are a testament to this. Additionally, students may seek enrollment in one of our partner universities through articulation agreements. This extensive list includes top-tier institutions such as the University of Queensland, Australia and many more from the UK, USA and other developed countries. The Faculty of Engineering also offers a vibrant undergraduate life for students, with many networking opportunities through societies such as the Institution of Engineers, Sri Lanka (IESL) Student Chapter.

The faculty is committed to producing future leaders, entrepreneurs and all rounders who can thrive under pressure in today's world. The Faculty of Engineering has been granted permission by the Ministry of Higher Education, Sri Lanka to offer research degrees leading to MPhil and PhD. The faculty conducts research in collaboration with state and private sector organizations, both locally and internationally. The faculty has signed several Memoranda of Understanding (MoUs) with renowned institutions, including the Chinese Academy of Sciences. Currently, nearly twenty full-time postgraduate research students are engaged in research related to MPhil and PhD degrees. Moreover, the Faculty of Engineering disseminates the research findings through publications in high-ranking journals and conferences and through its own SLIIT International Conference on Engineering and Technology (SICET) held annually. Faculty also actively participates in numerous National and International competitions, achieving many awards. As a leading higher educational institute in Sri Lanka, SLIIT will play a critical role in educating and developing high-calibre talent, and in attracting and retaining top students, faculty and visionaries across many disciplines.

As Dean of the Faculty of Engineering at SLIIT, I am grateful to our dedicated staff for their continued support in raising standards to new heights and maintaining these high standards in delivering both undergraduate and postgraduate programs. SLIIT is the first and only non-state higher education institute to date in Sri Lanka to obtain recognition from the IESL, for any degree program. Furthermore, I am grateful to the higher management for providing us with excellent educational infrastructure and a university environment to engage in our mission. There has never been a more important time than now to engage and transform the Sri Lankan talent base to look beyond the traditional economic and social boundaries, and Sri Lanka's future will indeed depend on that. The Engineering Faculty of SLIIT is prepared for this timely need in Engineering Education.

SUCCESS STORIES

I personally experienced that the Civil Engineering curriculum at SLIIT is comprehensive and versatile, whichnensures a smooth transition from undergraduate studies to graduate studies. The strong foundation laid by SLIIT helped me to reach great heights in my academic and professional life.

RANDULA SENARATHBANDARA

BEng (Hons) in Civil Engineering
PhD Student/Research Assistant University of Manitoba, Canada

My decision to select SLIIT for my BSc degree in Electrical and Electronic Engineering has been a valuable turning point in my life. The vast amount of academic and practical knowledge given over a period of 4 years have been of great help for my successful career journey. Proper guidance offered by the experienced lecture staff have helped me perform outstandingly in the competitive industry and come a long way in a fulfilling career, along with many achievements. My gratitude will always be to the amazing lecturers and the staff for building an accomplished career and helping me to grow into a respected member in the profession.

JANAKA RANATHUNGA

BEng (Hons) in Electrical and Electronic Engineering
Executive Engineer - Autonomation at MAS Active Contourline

Embarking on my PhD journey at Memorial University in Newfoundland, my focus on application of artificial intelligence for autonomous navigation of aerial vehicles traces its roots to the solid foundation laid at SLIIT. Armed with a first-class honors degree in mechanical engineering (mechatronics specialization) I seamlessly transitioned into academia as an assistant lecturer at SLIIT while pursuing my MPhil degree. Reflecting on this transformative period, SLIIT served as the crucible where my academic and research prowess was honed. The dedicated academic panel provided insightful mentorship, guiding me through the intricacies of my chosen fields. State-of-the-art laboratory facilities not only facilitated hands-on learning but also ignited my passion for experimentation. The abundance of research opportunities offered a platform to explore and contribute to cutting-edge developments. Collectively, SLIIT's unwavering support, exceptional facilities, and dynamic research environment were instrumental in shaping my journey, propelling me towards my PhD pursuits, and sculpting the professional I am today.

THAKSHILA THILAKANAYAKE

BEng (Hons) in Mechanical Engineering
Executive Engineer - Autonomation at MAS Active Contourline

ENGINEERING DEGREES

SLIIT is a pioneer in providing education in a multitude of disciplines giving students a great degree of freedom when choosing the right pathway. As such, we at the SLIIT Engineering faculty aim to instil in students the knowledge, skills and attitudes required to work in the industry as practising engineers and quantity surveyors. We are dedicated to educate and train each student to the highest standard and prepare them for employment across many levels. During their undergraduate studies, we provide them with compulsory on-the-job training, which will give them valuable hands-on experience within their respective fields of study. Our highly qualified and experienced full-time academic staff and excellent in-house state-of-the-art laboratory facilities will ensure that the students one day will leave the faculty with the best learning experience.

Our graduates will find that the qualifications they earn at SLIIT are fully recognised and Institute of Engineers Sri Lanka (IESL) conditionally recognized our Civil Engineering degree program and recognition by IESL of the other programs are currently underway. All engineering degrees awarded by SLIIT are approved by Ministry of Education Sri Lanka and University Grants Commission, and our Quantity Surveying programme is offered in collaboration with highly ranked Liverpool John Moores University (LJMU), UK. SLIIT offers first two years of the three year Quantity Surveying programme from Liverpool John Moores University (UK) and the student can fully complete the degree programme while in Sri Lanka. Furthermore, our Engineering undergraduate curricula are prepared according to the Washington Accord Accreditation requirements. Moreover, our Quantity Surveying degree is seeking accreditation by IQSSL and RICS accreditation for the local delivery at SLIIT. SLIIT is also a Member of the Association of Commonwealth Universities and International Association of Universities (IAU).

Apart from more than 10 other partnerships with leading universities in the world, the faculty of Engineering at SLIIT has partnered with the University of Queensland, which is ranked among the top 50 universities in the world, to provide interested students with the opportunity to study the first two years in Sri Lanka and complete the degree while experiencing university life at a topranked university during the final two years. Our programmes are flexible. All our graduates enjoy excellent job prospects in the industry, both local and international. Many have also secured postgraduate opportunities in highly reputed universities around the world - a testimony to the excellent standards we maintain in our programs. Furthermore, the Faculty of Engineering now offers MPhil and PhD programs in Engineering which are approved by the Ministry of Education, Sri Lanka. Students can obtain full or partial scholarships with stipends, on a competitive basis, to follow these programs.

SLIIT BSc ENGINEERING HONOURS DEGREES

Duration : 4 Years
Entry : February / September
Location : Malabe
Offered : Weekdays
Examinations : Weekdays

END OF 2ND YEAR : HIGHER DIPLOMA IN ENGINEERING
END OF 4TH YEAR : BSc ENG HONOURS DEGREE

SPECIALISATIONS

CIVIL ENGINEERING

- Structural Engineering
- Geotechnical Engineering
- Water & Environmental Engineering
- Environmental Engineering
- Transportation Engineering
- Construction Engineering

ELECTRICAL & ELECTRONIC ENGINEERING

- Electronic Engineering
- Communications Engineering
- Electrical Engineering
- Computer Systems Engineering
- Network Engineering

MATERIALS ENGINEERING

- Metal, Polymer, Ceramic industries
- Nanomaterial
- Design and Manufacturing
- Energy
- Research and Development
- Automobile
- Aerospace
- Building and Construction
- Research and Development

MECHANICAL ENGINEERING

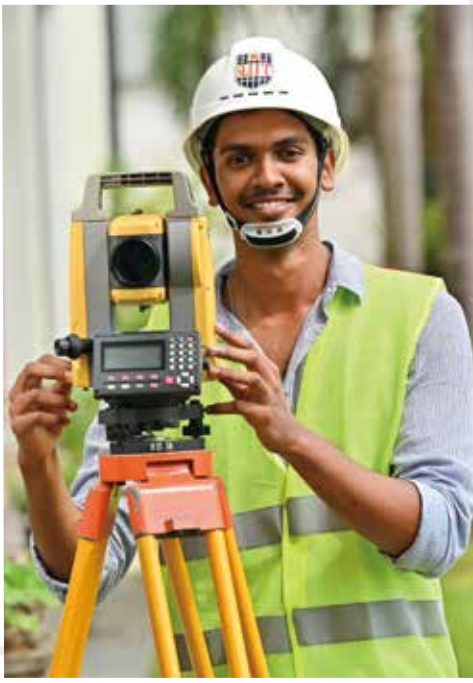
- Mechanics
- Thermodynamics
- Combustion and Energy Systems
- Aerodynamics and Fluid Mechanics
- Design and Manufacturing
- Materials and Structures
- Automobile Engineering
- Automation

MECHANICAL ENGINEERING *(MECHATRONICS SPECIALISATION)*

- Control Engineering
- Electronic Engineering
- Robotics
- Industrial Automation
- Manufacturing Systems

SLIIT FACULTY OF ENGINEERING

CIVIL ENGINEERING



ABOUT THE PROGRAMME

Civil Engineering is a profession that deals with the design, construction and maintenance of physical infrastructure and the built environment. Civil Engineering work includes design, construction, operation and maintenance of buildings, roads, railways, bridges, dams, reservoirs, tunnels, waterways, underground structures, ports, off-shore structures, etc. The Civil Engineering course is an excellent blend of science and engineering fundamentals and essential practical skills. Problem and project-based learning is a key feature of the degree programme. It enhances creative, innovative and team-work skills among students. The Civil Engineering programme at SLIIT includes project work based on laboratory experiments, literature reviews, fieldwork and seminars. Students who follow the Civil Engineering programme undergo six months of compulsory industrial training at the end of their 2nd and 3rd years, split into two periods of three months each.

First year: Developing a foundation in Mathematics, Sciences, Basic Engineering Sciences and practical skills.

Second year: Further expands the knowledge in Mathematics, Sciences, Basic Engineering Sciences and practical skills. Design is a key feature in the second year but with well-defined problems of the main domains of Civil Engineering, namely, Structural, Geotechnical, and Hydraulics.

Third year: The complexity of the modules increases, though still within a somewhat well- to loosely defined framework. In addition to subjects from the main Civil Engineering domains, students are also taught modules from complementary areas such as Transportation Engineering, Environmental Engineering, and Management. During the third year, students also participate in a residential survey camp.

Fourth year: : Students are trained to work on advanced, open-ended design problems, further strengthening their analytical and problem solving skills. They also have the opportunity to gain specialized knowledge in selected domains of Civil Engineering such as Structural, Geotechnical, Hydraulics, and Transportation Engineering through technical electives. In the fourth year, students undertake the Civil Engineering research project and the comprehensive design project, both of which span the full academic year. As the contributions of civil engineers are largely directed toward human society, the modules across all four years are designed and delivered in a manner that ensures students acquire the required practical and soft skills, along with an appreciation of engineering ethics. Students are also given the opportunity to follow Humanities modules in the second and third years.

ENTRY REQUIREMENTS

Advanced Level Results need to be obtained in One & the Same Sitting. The results need to appear in one certificate.

Local A/Ls: Minimum of 2 "C" passes & 1 "S" pass in the Physical Science stream (covering Combined Mathematics, Physics & Chemistry).

Cambridge/Edexcel A/Ls: Minimum of 2 "B" passes & 1 "C" pass (covering Mathematics, Physics & Chemistry).

Applicants should also pass the Aptitude Test conducted by SLIIT

CAREERS

- Structural Engineer
- Geotechnical Engineer
- Environmental Engineer
- Water Resources Engineer
- Design Engineer/Consulting Engineer
- Contracting Engineer
- Engineering Project Manager
- Building Services Engineer
- Irrigation Engineer
- Coastal Engineer
- Infrastructure Planning Engineer
- Engineering Regulator
- Quality Control and Quality Assurance Engineer
- Marketing Engineer
- Academics and Researcher

Engineers may also establish their own consultancy practices, manufacturing or construction firms, and also be employed internationally.

YEAR ONE

SEMESTER 01

CE1011	Engineering Mechanics	04
ME1010	Engineering Design and Processes	04
EC1021	Electrical Systems	03
MA1302	Engineering Mathematics I	03
EL1202	English Language Skills I	03
CE1912	Introduction to Sustainable Engineering	02

SEMESTER 02

ME1030	Engineering Skills Development	03
ME1040	Engineering Principles and Communication	04
MT1010	Engineering Materials	04
MA1312	Engineering Mathematics II	03
EC1441	Engineering Programming	03
EL1212	English Language Skills II	02

YEAR TWO

SEMESTER 01

CE2011	Structural Analysis I	04
CE2712	Fluid Mechanics	04
CE2021	Properties and Mechanics of Materials	03
CE2211	Civil Engineering Methods	04
MA2302	Engineering Mathematics III	03

SEMESTER 02

CE2812	Geotechnical Engineering I	03
CE2032	Structural Design I	04
CE2042	Structural Analysis II	04
CE2051	Advanced Mechanics of Materials	03
ME2720	Introduction to Thermal Processes	02
	Humanities I	02
CE2911	Industrial Training I	03
CE2940	Civil Engineering Surveying Camp	01

YEAR THREE

SEMESTER 01

CE3012	Structural Analysis III	03
CE3712	Pumps & Open Channel Flow	03
CE3022	Structural Design II	04
CE3811	Geotechnical Engineering II	03
CE3211	Civil Engineering Project and Cost Management	03
	Humanities II	02

SEMESTER 02

CE3611	Environmental Engineering	03
CE3822	Geotechnical Engineering III	03
CE3411	Transportation Engineering	03
CE3231	Project Formulation	03
CE3221	Construction Technology and Methods	03
CE3922	Civil Engineering Seminar	-
CE3911	Industrial Training II	03

YEAR FOUR

SEMESTER 01

CE4211	Comprehensive Design Project I	03
CE4221	Civil Engineering Practice, Quality and Legislation	03
CE4912	Civil Engineering Project I	03
CE4741	Engineering Hydrology	03
2 Elective Modules from the following		
CE4811	Foundation Engineering I	03
CE4411	Traffic Engineering and Planning	03
CE4711	Water Systems & Hydraulic Structures	03
CE4011	Finite Element Methods in Structural Engineering	03
CE4041	Structural Design III	03
CE4611	Environmental Engineering Design	03

SEMESTER 02

CE4921	Sustainble Development in Civil Engineering	03
CE4251	Comprehensive Design Project II	03
CE4931	Civil Engineering Project II	03
CE4261	Construction Project Management	03
2 Elective Modules from the following		
CE4821	Foundation Engineering II	03
CE4421	Pavement Design and Maintenance	03
CE4731	Environmental Hydraulics & Hydrology	03
CE4021	Structural Dynamics and High Rise Buildings	03
CE4031	Advanced Concrete Design	03

* Electives to be chosen with the prior approval of the Acadamic Department

ELECTRICAL & ELECTRONIC ENGINEERING

ABOUT THE PROGRAMME

The BSc Engineering (Hons) in Electrical & Electronic Engineering programme is designed with a strong focus on both theoretical foundations and practical applications. It equips students with essential technical knowledge while providing hands-on experience in real-world environments. The curriculum aims to develop interdisciplinary problem solving skills, social awareness, and the confidence required to produce high-calibre engineers.

Developed in close collaboration with industry experts, the programme ensures that graduates are well-prepared to meet current industry needs. Students also gain the key competencies and professional skills expected in the field, making them highly capable and industry-ready engineers.

First two years: Establish a strong foundation in Mathematics, Sciences, Basic Engineering Sciences, and essential practical skills.

Third year: Emphasizes the application of Electrical and Electronic Engineering principles, exposing students to real-world engineering challenges.

Final year: Focuses on hands-on exposure to industry-level electrical and electronic systems. Students also develop essential soft skills, including technical communication, presentation skills, and non-engineering competencies such as legal, management, and business essentials—aligning with professional engineering requirements. The final-year project module assesses students' research capability, practical competence, and professionalism. In the final year, students may select elective modules from several specialized areas, including:

- Electrical Power Engineering
- Telecommunication
- Data Communication
- Renewable Energy
- Robotics
- Machine Learning
- Internet of Things and Big Data Analytics
- Automation and Process Control, etc.

Students must also complete a mandatory 24-week industrial training programme, conducted in two 12-week sessions at the end of their second and third years.

ENTRY REQUIREMENTS

Advanced Level Results need to be obtained in One & the Same Sitting. The results need to appear in one certificate.

Local A/Ls: Minimum of 2 "C" passes & 1 "S" pass in the Physical Science stream (covering Combined Mathematics, Physics & Chemistry).

Cambridge/Edexcel A/Ls: Minimum of 2 "B" passes & 1 "C" pass (covering Mathematics, Physics & Chemistry).

Applicants should also pass the Aptitude Test conducted by SLIIT.

CAREERS

- Electrical Engineer
- Electronics Engineer
- Power Systems Engineer
- Control Systems Engineer
- Telecommunications Engineer
- Automation Engineer
- Renewable Energy Engineer
- Embedded Systems Engineer

Engineers may also establish their own consultancy practices, manufacturing or construction firms, and also be employed internationally.

YEAR ONE

SEMESTER 01

CE1020	Statics and Hydrostatics	03
EC1022	Electrical Systems	03
MA1111	Engineering Mathematics I	04
ME1050	Introduction to Engineering Design and Communication	04
EL1203	English Language Skills I	03
CE1913	Introduction to Sustainable Engineering	02

SEMESTER 02

EC1450	Fundamentals of Programming	03
MA1121	Engineering Mathematics II	03
MT1010	Engineering Materials	04
ME1031	Engineering Skills Development	03
ME1060	Dynamics	03
EL1213	English Language Skills II	02

YEAR TWO

SEMESTER 01

ME2820	Fluid Mechanics and Thermodynamics	03
EC2093	Foundations of Digital Design	03
EC2203	Electrical Circuits	03
EC2493	Object Oriented Programming	03
EC2132	Microcomputers	03
MA2111	Engineering Mathematics III	03

SEMESTER 02

EC2140	Analogue Electronics	03
EC2113	Signals and Systems	03
EC2220	Electrical Machines and Power Systems	03
EC2731	Data Structures and Algorithms	03
EC2403	Computer Networks	03
MA2121	Engineering Mathematics IV	03
	Humanities I	02
EC2922	Industrial Training I	03

YEAR THREE

SEMESTER 01

EC3250	Electrical Measurements and Instrumentation	03
EC3613	Communication Engineering I	03
EC3503	Control Systems	03
EC3013	Electronic Design	03
EC3193	Electrical Machines and Stability	03
EC3550	Robotics and Controls	03

SEMESTER 02

ME3260	Industrial Project Management	02
ME3250	Engineering Economics	02
EC3203	Engineering Electromagnetics	03
EC3103	Advanced Digital Design	03
EC3033	Power Electronics	03
EC3213	Power Systems Analysis	03
	Humanities II	03
EC3902	Industrial Training II	03

YEAR FOUR

SEMESTER 01

EC4830	Comprehensive Design Project	03
EC4840	Individual Research Project	02
EC4920	Legal Environment in Electrical Engineering	02
EC4930	Entrepreneurship Skills Development	01
ME4112	Industrial Management and Marketing	03
2 Elective Modules from the following *		
EC4650	Communication Engineering II	03
EC4440	Data Communication and Networking	03
EC4710	Embedded Systems Programming	03
EC4483	Computer Vision and Image Processing	03
EC4553	Digital Signal Processing	03
EC4530	Machine Learning	03
EC4213	Electrical Power Transmission and Distribution	03
EC4261	High Voltage Engineering	03

SEMESTER 02

EC4830	Comprehensive Design Project	03
EC4840	Individual Research Project	04
3 Elective Modules from the following *		
EC4220	Power Systems Protection	03
EC4253	Renewable Energy Systems	03
EC4270	Electrical Installations	03
EC4280	Power Electronic Applications and Control	03
EC4450	GPU programming	03
EC4470	Network Management and Performance Evaluation	03
EC4673	Wireless Communications	03
EC4540	Pattern Recognition	03
EC4720	Real Time Embedded Operating Systems	03
EC4560	Automation & Process Control	03

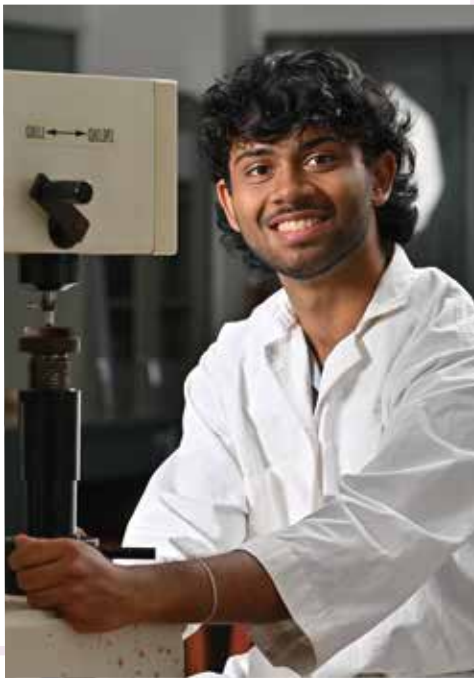
4th year 1st semester subject baskets:

Basket 01	Basket 02	Basket 03
EC4650 Communication Engineering II (E)	EC4710 Embedded Systems Programming (E)	EC4213 Electrical Power Transmission and Distribution (E)
EC4440 Data Communication and Networking (E)	EC4483 Computer Vision and Image Processing (E)	EC4261 High Voltage Engineering (E)
EC4553 Digital Signal Processing (E)	EC4530 Machine Learning (E)	-

4th year 2nd semester subject baskets:

Basket 01	Basket 02	Basket 03
EC4220 Power Systems Protection (E)	EC4470 Network Management and Performance Evaluation (E)	EC4560 Automation & Process Control (E)
EC4270 Electrical Installations (E)	EC4673 Wireless Communications (E)	-
EC4280 Power Electronic Applications and Control (E)	EC4450 Internet of Things and Big Data Analytics (E)	-
EC4253 Renewable Energy Systems (E)	-	-

MATERIALS ENGINEERING



ABOUT THE PROGRAMME

Materials Engineering has played such an important role in the development of society that many of the modern advancements would not have been possible without it. New materials have been developed all the time which has helped develop new products and produce novel technologies to improve almost every aspect of human life. Materials engineers provide material solutions for engineering problems. They study the structure, properties and behaviour of materials, develop processes for manufacture and explore new ways to recycle and dispose of products.

Materials engineers examine how material properties depend on the microscopic structure and apply their expertise to select the most suitable materials for a product. Materials Engineering is a truly interdisciplinary field of study combining many specialisations such as Chemistry, Physics, Mathematics and Engineering. The honours degree being offered covers all key areas of Materials Engineering to prepare graduates for the competitive global economy and open doors to exciting career opportunities. The programme is delivered by highly qualified lecturers and is supporte by tutorials, laboratory work, projects, field visits and an industrial training programme.

First year: Developing a foundation in Mathematics, Sciences, Basic Engineering Sciences and practical skills.

Second year: In addition to expanding on Mathematics and Engineering subjects, core Materials Engineering modules are introduced.

Third and Fourth Years: A more focused Materials Engineering curriculum is followed, with the option of selecting highly specialised modules in the 4th year. A comprehensive materials related project is undertaken in the same year.

ENTRY REQUIREMENTS

Advanced Level Results need to be obtained in One & the Same Sitting. The results need to appear in one certificate.

Local A/Ls: Minimum of 2 "C" passes & 1 "S" pass in the Physical Science stream (covering Combined Mathematics, Physics & Chemistry).

Cambridge/Edexcel A/Ls: Minimum of 2 "B" passes & 1 "C" pass (covering Mathematics, Physics & Chemistry).

Applicants should also pass the Aptitude Test conducted by SLIIT

CAREERS

- Materials Engineer
- Metallurgist
- Polymer Engineer
- Ceramic Engineer
- Composite Engineer
- Materials Development Engineer
- Materials Processing Engineer
- Research and Development Engineer
- Failure Analysis Engineer
- Quality Assurance Engineer
- Semiconductor Processing Engineer
- Materials Performance Engineer
- Corrosion Engineer
- Materials Design Engineer
- Academics and Researcher

Engineers may also establish their own consultancy practices, manufacturing or construction firms, and also be employed internationally.

YEAR ONE

SEMESTER 01

CE1011	Engineering Mechanics	04
ME1010	Engineering Design & Processes	04
EC1021	Electrical Systems	03
MA1302	Engineering Mathematics I	03
EL1202	English Language Skills I	03
CE1912	Introduction to Sustainable Engineering	02

SEMESTER 02

ME1030	Engineering Skills Development	03
ME1040	Engineering Principles & Communication	04
MT1010	Engineering Materials	04
MA1312	Engineering Mathematics II	03
EC1441	Engineering Programming	03
EL1212	English Language Skills II	02

YEAR TWO

SEMESTER 01

ME2030	Manufacturing Processes 1	03
MT2040	Ceramics Engineering	03
MT2050	Chemical Thermodynamics & Phase Equilibria	03
MT2060	Material Processing	03
MT2070	Material Characterization Techniques	03
CE3910	Humanities I	
MT2080	Industrial Training 1	

SEMESTER 02

ME2030	Manufacturing Processes I	03
MT2040	Ceramics Engineering	03
MT2060	Material Processing	03
MT2070	Material Characterisation Techniques	03
ME2051	Mechanical Design I	03
MT2050	Chemical thermodynamics and phase equilibria	04
CE3910	Humanities I	
MT2080	Industrial Training I	

YEAR THREE

SEMESTER 01

ME3031	Mechanics of Solids 11	04
MT3010	Plastic & Rubber	03
ME3100	Manufacturing Processes 11	03
MT3020	Phase Transformation & Kinetics	03
MT3030	Construction & Building Materials	03
CE3910	Humanities 11	

SEMESTER 02

MT3040	Corrosion Engineering	03
MT3050	Nanomaterials and Nanotechnology	03
ME3081	Engineering Management	03
MT3060	Composite Materials	03
ME3091	Law of Engineers	03
MT3070	Welding & Joining Processes	03
MT3080	Industrial Training II	03

YEAR FOUR

SEMESTER 01

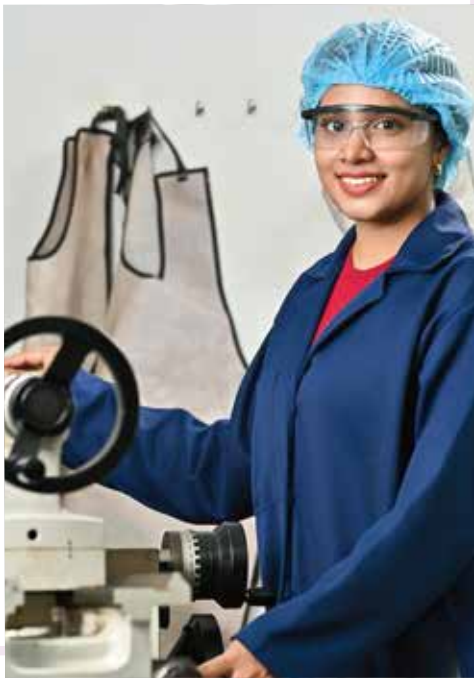
MT4010	Material Engineering Project I	04
ME4111	Industrial Management & Marketing	03
3 Elective Modules from following:		
MT4030	Advanced Engineering Materials	03
MT4050	Materials Modelling	03
MT4060	Surface Engineering	03
MT4070	Magnetic Materials	03
ME4091	Energy Technology and Sustainability	03

SEMESTER 02

MT4080	Material Engineering Project II	04
MT4090	Material Application & Design	03
MT4100	Recycling & Sustainable Materials	03
2 Elective Modules from following:		
MT4110	High temperature Materials	03
MT4120	Advanced Manufacturing Processes	03
MT4130	Energy Materials	03
MT4140	Bio-Materials	03
MT4150	Electronic Materials	03

**Electives to be chosen with the prior approval of the Acadamic Department*
**Available only for Materials Engineering with Mechanical Design option*
**Not available for Materials Engineering with Mechanical Design option*

MECHANICAL ENGINEERING



ABOUT THE PROGRAMME

Mechanical Engineering is the study and development of machines and systems that have useful applications. Mechanical engineers apply the principles and problem solving techniques of engineering from design to manufacture and marketplace for any product or solution. Mechanical Engineering involves systems that use principles of motion, energy, and force ensuring the designs to function safely, efficiently, and reliably at a competitive cost. It is a highly diversified field of Engineering. It involves areas such as mechanics, thermodynamics, combustion and energy systems, aerodynamics and fluid mechanics, design and manufacturing and mechatronics.

The Mechanical Engineering degree has a set of state-of-the-art subjects intended to provide the required knowledge and hands-on skills. The degree programme includes lectures, labs, engineering design work and projects. The Mechanical Engineering curriculum has been designed in consultation with industry and academic experts in the field. Hence, the graduates could pursue careers in both academia and industry.

First year: Provides a foundation in Mathematics, Sciences, Basic Engineering Sciences and practical skills.

Second year: Provides the mathematical background together with core engineering subjects with an introduction to Mechatronics. After the 2nd year, students will undergo industrial training to see how Engineering is applied in the industry.

Third year: Students will further specialise in Mechatronics and Mechanical Engineering subjects. After the 3rd year, students will undergo their second industrial training.

Fourth year: Students will further specialise in the area of Mechatronics. They will also learn about the engineering profession, management and marketing. A comprehensive research project will be undertaken by the students to apply the knowledge they acquired during the course.

ENTRY REQUIREMENTS

Advanced Level Results need to be obtained in One & the Same Sitting. The results need to appear in one certificate.

Local A/Ls: Minimum of 2 "C" passes & 1 "S" pass in the Physical Science stream (covering Combined Mathematics, Physics & Chemistry).

Cambridge/Edexcel A/Ls: Minimum of 2 "B" passes & 1 "C" pass (covering Mathematics, Physics & Chemistry).

Applicants should also pass the Aptitude Test conducted by SLIIT

CAREERS

- Mechanical Engineer
- Automobile Engineer
- Automation Engineer
- Maintenance Engineer
- Design and Manufacturing
- Thermal Engineer
- Industrial Engineer
- Entrepreneur
- Academic
- Research and Development Engineer

Engineers may also establish their own consultancy practices, manufacturing or construction firms, and also be employed internationally.

YEAR ONE

SEMESTER 01

CE1011	Engineering Mechanics	04
ME1010	Engineering Design and Processes	04
EC1021	Electrical Systems	03
MA1302	Engineering Mathematics I	03
EL1200	English Language Skills I	03
CE1912	Introduction to Sustainable Engineering	02

SEMESTER 02

ME1030	Engineering Skills Development	03
ME1040	Engineering Principles and Communication	04
MT1010	Engineering Materials	04
MA1312	Engineering Mathematics II	03
EC1441	Engineering Programming	03
EL1212	English Language Skills II	02

YEAR TWO

SEMESTER 01

ME2011	Mechanics of Solids I	03
CE2712	Fluid Mechanics I	04
ME2021	Mechanics of Machines I	04
ME2031	Engineering Drawing	04
MA2302	Engineering Mathematics III	03

SEMESTER 02

ME2041	Thermodynamics	03
ME2051	Mechanical Design I	03
ME2100	Manufacturing Processes I	03
ME2170	Electrical Plant	03
ME2081	Engineering Sustainable Development	03
	Humanities I	
Industrial Training 1		
ME2911	Industrial Training I	

YEAR THREE

SEMESTER 01

ME3012	Thermal Engineering Processes	03
ME3100	Manufacturing Processes II	03
ME3031	Mechanics of Solids II	04
ME3041	Mechanics of Machines II	04
	Humanities II	

SEMESTER 02

ME3052	Mechanical Design II	03
ME3061	Fluid Flow Modelling	03
ME3020	Automatic Control I	03
ME3640	Mechatronics Systems	03
ME3081	Engineering Management	03
ME3091	Law for Engineers	03
Industrial training II		
ME3911	Industrial Training II	

YEAR FOUR

SEMESTER 01

ME4250	Mechanical Engineering Research Project	03
ME4300	Comprehensive Design Project	03
ME4071	Production and Operations Management	03
ME4132	Professional Practice	02
2 Elective Modules from the following:		
ME4111	Industrial Management and Marketing	03
ME4021	Advanced Engineering Materials	03
ME4030	Vibration	03
ME4050	Computer Aided Engineering	03
ME4081	Computer Aided Design and Manufacture	03
ME4091	Energy Technology and Sustainability	03
ME4101	Refrigeration and Air Conditioning	03

SEMESTER 02

ME4250	Mechanical Engineering Research Project	03
ME4300	Comprehensive Design Project	03
ME4181	Industrial Engineering	03
ME4220	Automotive Engineering	03
2 Elective Modules from the following:		
ME4140	Design for Manufacturing	03
ME4150	Automatic Control II	03
ME4160	Product Design	03
ME4170	Noise	03
ME4190	Advanced Manufacturing Processes	03
ME4201	Energy Conservation & Management	03
ME4210	Fluid Power Systems and Machinery	03

** Electives to be chosen with the prior approval of the Acadamic Department*

MECHANICAL ENGINEERING

(MECHATRONICS SPECIALISATION)

ABOUT THE PROGRAMME

Mechatronics is the synergistic integration of mechanics, electronics and computer engineering towards developing automated products and systems. Mechatronic engineers provide solutions to robotics, automated manufacturing, smart products and other contemporary engineering problems. It is a very modern and emerging area of Engineering. Through mechatronics, students gain specialised knowledge of robotics, industrial automation, sensors, instrumentation, control systems and artificial intelligence. Mechatronic engineers possess a broad multidisciplinary knowledge of engineering, together with hands-on skills to implement such systems. The Mechatronics specialisation in Mechanical Engineering has a set of state-of-the-art subjects intended to provide the required knowledge and hands-on skills. The degree programme includes lectures, labs, engineering design work and projects. The Mechatronics curriculum has been designed in consultation with the industry and academic experts in the field. Hence, the graduates could pursue careers in both academia and industry.

First year: Provides a foundation in Mathematics, Sciences, Basic Engineering Sciences and practical skills.

Second year: Provides the mathematical background together with core engineering subjects with an introduction to Mechatronics. After the 2nd year, students will undergo industrial training to see how engineering is applied in the industry.

Third year: Students will further specialise in Mechatronics and Mechanical Engineering subjects. After the 3rd year, students will undergo their second industrial training.

Fourth year: Students will further specialise in the area of Mechatronics. They will also learn about the engineering profession, management and marketing. A comprehensive research project will be undertaken by the students to apply the knowledge they acquired during the course.

ENTRY REQUIREMENTS

Advanced Level Results need to be obtained in One & the Same Sitting. The results need to appear in one certificate.

Local A/Ls: Minimum of 2 "C" passes & 1 "S" pass in the Physical Science stream (covering Combined Mathematics, Physics & Chemistry).

Cambridge/Edexcel A/Ls: Minimum of 2 "B" passes & 1 "C" pass (covering Mathematics, Physics & Chemistry).

Applicants should also pass the Aptitude Test conducted by SLIIT

CAREERS

- Mechanical Engineer
- Robotics Engineer
- Electronics Design Engineer
- Automation Engineer
- Instrumentation Engineer
- Control Systems Engineer
- Data Scientist/Big Data Analyst
- Software Engineer
- Entrepreneur
- Academic
- Research and Development

Engineers may also establish their own consultancy practices, manufacturing or construction firms, and also be employed internationally.

YEAR ONE

SEMESTER 01

CE1011	Engineering Mechanics	04
ME1010	Engineering Design and Processes	04
EC1021	Electrical Systems	03
MA1302	Engineering Mathematics I	03
EL1200	English Language Skills I	03
CE1912	Introduction to Sustainable Engineering	02

SEMESTER 02

ME1030	Engineering Skills Development	03
ME1040	Engineering Principles and Communication	04
MT1010	Engineering Materials	04
MA1312	Engineering Mathematics II	03
EC1441	Engineering Programming	03
EL1212	English Language Skills II	02

YEAR TWO

SEMESTER 01

EC2092	Foundations of Digital Design	03
ME2021	Mechanics of Machines I	04
EC2202	Electrical Circuits	03
ME2680	Computer Aided Drawing	03
MA2302	Engineering Mathematics III	03
ME2610	Mechatronics Design Project I	03

SEMESTER 02

ME2510	Electronics for Mechatronic Engineers	03
ME2541	Mechatronic Systems Engineering	03
ME2041	Thermodynamics	03
EC2212	Electromagnetic and Electromechanical Energy Convers	03
ME2620	Manufacturing Technology	03
ME2650	Mechatronics Design Project II	03
	Humanities I	
ME2911	Industrial Training I	03

YEAR THREE

SEMESTER 01

ME3512	Embedded Systems Engineering	03
ME3620	Control Systems	03
ME3660	Computer Aided Design and Manufacture	03
ME3531	Solid Mechanics and Mechanical Design	03
ME3110	Fluid Mechanics and Hydraulic Machinery	03
ME3580	Automation Systems	03
	Humanities II	

SEMESTER 02

EC3032	Power Electronics	03
EC3102	Advanced Digital Design	03
ME3081	Engineering Management	03
ME3091	Law for Engineers	03
ME3571	Mechatronic Systems Modelling	03
ME3610	Design of Mechatronic Systems	03
ME3911	Industrial Training II	

YEAR FOUR

SEMESTER 01

ME4500	Mechatronics Research Project	03
ME4600	Comprehensive Design Project	03
ME4521	Advanced Automation Systems	03
ME4071	Production and Operations Management	03
ME4132	Professional Practice	02
2 Elective Modules from the following:		
ME4111	Industrial Management and Marketing	03
EC4012	Power Electronics and Drives	03
ME4630	Artificial Intelligence and Machine Learning	03
ME4650	Industrial Machine Vision	03
EC4432	Embedded Systems Engineering II	03
ME4091	Energy Technology and Sustainability	03

SEMESTER 02

ME4500	Mechatronics Research Project	03
ME4600	Comprehensive Design Project	03
ME4181	Industrial Engineering	03
2 Elective Modules from the following:		
ME4541	Robotics and Autonomous Systems	03
ME4150	Automatic Control II	03
ME4550	Object Oreinted programming for Mechatronics Engineer	03
ME4220	Automotive Engineering	03
ME4670	Advanced Topics in Mechatronics Engineering	03
ME4570	Micro-Mechatronics	03

* Electives to be chosen with the prior approval of the Acadamic Department

BSC (HONS) IN QUANTITY SURVEYING

ABOUT THE PROGRAMME

The four-year study programme offers a comprehensive blend of theoretical and practical learning, covering subject areas such as measurement, estimating and costing, cost management, procurement, contract administration, construction law, construction technology, project management, sustainability and environmental practices, digital quantity surveying, and building information modelling. The programme is delivered by a distinguished team of academics and industry professionals, including qualified quantity surveyors, engineers, and other specialist lecturers who bring real-world expertise into the classroom. The UGC-approved SLIIT degree in Quantity Surveying equips graduates with the competencies required for diverse professional pathways within the construction industry. The qualification also provides eligibility for postgraduate studies in fields such as quantity surveying, construction project management, procurement and contract management, and dispute resolution.

ENTRY REQUIREMENTS

Advanced Level Results need to be obtained in One & the Same Sitting. The results need to appear in one certificate.

Local A/Ls: Minimum of 3 "S" passes for 1 subject mentioned under Category A and 2 subjects mentioned under Category B:
Category A – Combined Mathematics, Higher Mathematics
Category B – Accounting, Economics, Business Studies, Business Statistics, Physics, Chemistry or ICT AND "C" passes for O/L Mathematics & English and a "S" pass for O/L Science.

Cambridge/Edexcel A/Ls: Minimum of 3 "D" passes for 1 subject mentioned under Category A and 2 subjects mentioned under Category B:

Category A – Mathematics, Further Mathematics
Category B – Accounting, Economics, Business Studies, Physics, Chemistry or Information Technology/Computer Science
AND "C" passes for O/L Mathematics & English and a "D" pass for O/L Science (or equivalent subject).

CAREERS

- Quantity Surveyor
- Contract Administrator
- Construction Economist
- Estimator
- Cost Manager
- Contract Manager
- Commercial Manager
- Procurement Specialist
- Project Manager
- Claim Consultant
- Adjudicator, Arbitrator, Mediator
- BIM Manager/Coordinator
- Carbon Accountant
- Expert Witness
- Sustainability Advisor
- Technical Auditor
- Development Appraiser
- Value Manager
- Risk Manager
- Green Assessor
- Academic and Researcher

YEAR ONE

SEMESTER 01	QS1600	Mathematics and Statistics 1	02
	QS1400	Construction Technology 1	04
	QS1410	Construction Drawing	03
	QS1420	Science and Materials	03
	QS1900	Communication Skills 1	02
SEMESTER 02	QS1300	Digital Quantity Surveying 1	02
	QS1800	Introduction to Law	04
	QS1430	Structures	04
	QS1100	Measuremen	03
	QS1610	Management and Finance 1	03
	QS1910	Communication Skills 2	02

YEAR TWO

SEMESTER 01	QS2620	Economics 1	02
	QS2630	Construction Project Management	04
	QS2440	Land Surveying	02
	QS2450	Construction Technology 2	04
	QS2110	Advanced Measurement	04
SEMESTER 02			
	QS2460	Specification Writing	03
	QS2810	Contract Administration	03
	QS2310	Digital Quantity Surveying 2	03
	QS2470	Building Services	03
	QS2200	Construction Procurement	03
	QS2000	Industrial Training 1	03

YEAR THREE

SEMESTER 01	QS3820	Construction Contract Law	04
	QS3480	Infrastructure Technology	04
	QS3050	Collaborative Interdisciplinary Project	03
	QS3650	Economics 2	04
	QS3210	Tendering and Pricing	03
SEMESTER 02			
	QS3220	Industrial Project Management	03
	QS3660	Engineering Economics	03
	QS3120	Engineering Electromagnetics	03
	QS3670	Advanced Digital Design	03
	QS3680	Power Electronics	03
	QS3010	Industrial Training 2	03

YEAR FOUR

SEMESTER 01	QS4320	Digital Integration	04
	QS4690	Development Economics and Project Financing	03
	QS4020	Research Methods 1	03
	QS4030	Research Project	06
SEMESTER 02	4040	Research Methods 2	02
	QS4030	Research Project	06
	QS4130	Civil Engineering Measuremen	03
	QS4700	Professional Practice and Entrepreneurship	02

BSC (HONS) IN QUANTITY SURVEYING - LJMU, UK

LIVERPOOL JOHN MOORES UNIVERSITY

ABOUT THE PROGRAMME

The study programme will cover subject areas ranging from measurement, estimating and costing, cost management, contract administration, contract law, construction technology, project management, building information modelling and quantity surveying practice. The teaching staff will consist of experienced academics and professional quantity surveyors, engineers, and other high-calibre subject specialists.

The LJMU degree in Quantity Surveying will open up many other professional avenues for graduates. This degree will also allow entry to Masters programmes in areas such as contracts and dispute resolution, procurement advising and consultation, and project management.

WHY CHOOSE

- The Course is Accredited by Royal Institution of Chartered Surveyors (RICS)
- Industry-relevant curriculum designed to prepare students for careers worldwide.

ENTRY REQUIREMENTS

Local A/Ls: Minimum of 3 "S" passes in the Physical Science stream & a "C" pass for O/L English, OR minimum of 3 "S" passes in the Biological Science/Commerce/Engineering Technology stream, "B" pass for O/L Mathematics & a "C" pass for O/L English.

Cambridge/Edexcel A/Ls: Minimum of 3 "D" passes in the Mathematics stream (subjects equivalent to the Physical Science Stream in Local A/Ls) & a "C" pass for O/L English, OR minimum of 3 "D" passes in the Biology/Commerce stream, "B" pass for O/L Mathematics & a "C" pass for O/L English.

Successful Completion of a Foundation Programme accepted by SLIIT.

Applicants should also pass the Aptitude Test conducted by SLIIT.

CAREERS

- Quantity Surveyor
- Contract Administrator
- Construction Economist
- Estimator
- Cost Manager
- Contract Manager
- Commercial Manager
- Procurement Specialist
- Project Manager
- Claim Consultant
- Adjudicator, Arbitrator, Mediator
- BIM Manager/Coordinator
- Carbon Accountant
- Expert Witness
- Sustainability Advisor
- Technical Auditor
- Development Appraiser
- Value Manager
- Risk Manager
- Green Assessor
- Academic and Researcher

YEAR ONE

SEMESTER 01

QS1511	Construction Technology 1	04
QS1521	Science And Materials	04
MA1101	Mathematics for Quantity Surveyors	02
QS1910	Communication Skills I	02
QS1451	Construction Drawing	03

SEMESTER 02

QS1811	Introduction To Law	04
QS1121	Measurement and Costing	04
QS1920	Communication Skills II	02
QS1711	Management Theory And Practice	04
QS1490	IT Applications for Quantity Surveying II	04

YEAR TWO

SEMESTER 01

QS2111	Advanced Measurement And Contract Administration	04
QS2531	Construction Technology 2	04
QS2550	Land Surveying	02
QS 2111	Advanced Measurement and Contract Administration	04

SEMESTER 02

QS2211	Construction Procurement	04
QS2311	Collaborative Interdisciplinary Project 2	02
QS2411	Research Methods	02
QS2441	Specification Writing	02
QS2821	Construction Contract Law	04
QS2940	Industrial Training I	05

YEAR THREE

SEMESTER 01

6537 BESL	Contract and Procurement Strategies	20
6539 BESL	Project Economics and Management	20
6536 BESL	Advanced Quantity surveying Project	10

SEMESTER 02

6535 BESL	Research Project	30
6538 BESL	Engineering Measurement	20
6540 BESL	Business Management and Entrepreneurship	20

** Electives to be chosen with the prior approval of the Acadamic Department*

INTERNATIONAL DEGREE PROGRAMMES TO COMPLETE AT SLIIT

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

BACHELOR OF ENGINEERING (Hons)

ABOUT THE PROGRAMME

With your major in Civil Engineering, you will focus on the areas of Infrastructure design, planning, development, construction and maintenance. Students will be able to apply their knowledge through practical work experience and an exciting final year research project that will give them hands-on industry experience. Work as a qualified Professional Civil Engineer in the areas of Design, Development Construction and Management in a wide range of fields, including Structures, Transportation, Water Supply and Treatment, and Infrastructure.

BACHELOR OF ENGINEERING (Hons) ELECTRICAL

ABOUT THE PROGRAMME

The Bachelor of Engineering Honors Electrical programme gives students the opportunity to get hands-on with a range of advanced technologies - including automated test equipment, embedded real-time controllers, sensors, and the Internet of Things. As Electrical Engineering professional students get to focus on interpreting requirements and designing and implanting engineering solutions which optimise social, environmental, and economic sustainable outcomes over the full lifetime of the engineering product or project.

BACHELOR OF ENGINEERING (Hons) MECHANICAL

ABOUT THE PROGRAMME

The Bachelor of Engineering (Hons) Mechanical degree offer students the fundamental skills of design, innovation, and systems improvement. After students graduate, their professional skills will allow them to work with some of the country's biggest corporations as a Professional Engineer in the automotive, aeronautical, industrial, domestic or transportation industries in modern mechanical technology, systems, or specialist sales.

BACHELOR OF ENGINEERING (Hons) MECHATRONIC

ABOUT THE PROGRAMME

Mechatronic engineers are highly sought after for roles involving artificial intelligence systems, robotics, automated industrial machinery and avionics. Mechatronic engineers are expected to play a significant role in the fourth industrial revolution. In mechatronic engineering you'll explore concepts and practical applications in areas including artificial intelligence, signal and systems theory, and control theory. This knowledge will also be integrated with computer science as you learn how mechanical and electrical components work together.

ENTRY REQUIREMENTS

Minimum of two "C" passes and one "S" pass in GCE Advanced Level (Local) in the Physical Science Stream (Combined Mathematics, Physics and Chemistry) in one and the same sitting and a pass in the Aptitude test conducted by SLIIT OR Minimum of two "B" passes and one "C" pass in GCE Advanced Level (Cambridge or Edexcel) covering Mathematics, Physics and Chemistry in one and the same sitting and pass the Aptitude test conducted by SLIIT.

SLIIT ROBOFEST

ROBOFEST is an annual robotics competition organized by the Faculty of Engineering at the Sri Lanka Institute of Information Technology (SLIIT). The competition's journey began in 2010, when it was exclusively open to SLIIT students. In 2011, the event expanded its horizons, inviting students from across the nation to participate in school, undergraduate, and open categories. By 2012, the platform had become accessible to students from all corners of Sri Lanka.

The most recent event in 2025 was an inclusive gathering, welcoming students from schools and universities throughout Sri Lanka and even extending its reach to industrial professionals eager to showcase their local innovations. The remarkable interest displayed by students from across the country underscores the profound impact ROBOFEST has made on young minds over the years, forging a new path into the world of robotics.

The School Category Champion of ROBOFEST 2025 was Storm-Tech from Sumedha College, Gampaha. The second and third places were secured by Prime-X and K-bot, both representing D Cube Robotics School, Gampaha. In the University Category, the RASIP CAP Team from the University of Moratuwa claimed first place, while Decker
from SLIIT and Ketha Karuwo from the University of Moratuwa were awarded first and second runners-up, respectively. A major highlight of ROBOFEST 2025 was the introduction of Sri Lanka's first-ever autonomous drone competition, marking a significant milestone in the country's robotics landscape. The XFLY Drone Team from the University of Moratuwa made history as the inaugural champions of this pioneering division. ROBOFEST continues its mission of empowering school students and undergraduates by providing a premier platform to design, build, and engage with cutting-edge robotics technologies. The competition ensures that every participant has the opportunity to shine, innovate, and showcase their talents on a national stage.

SICET

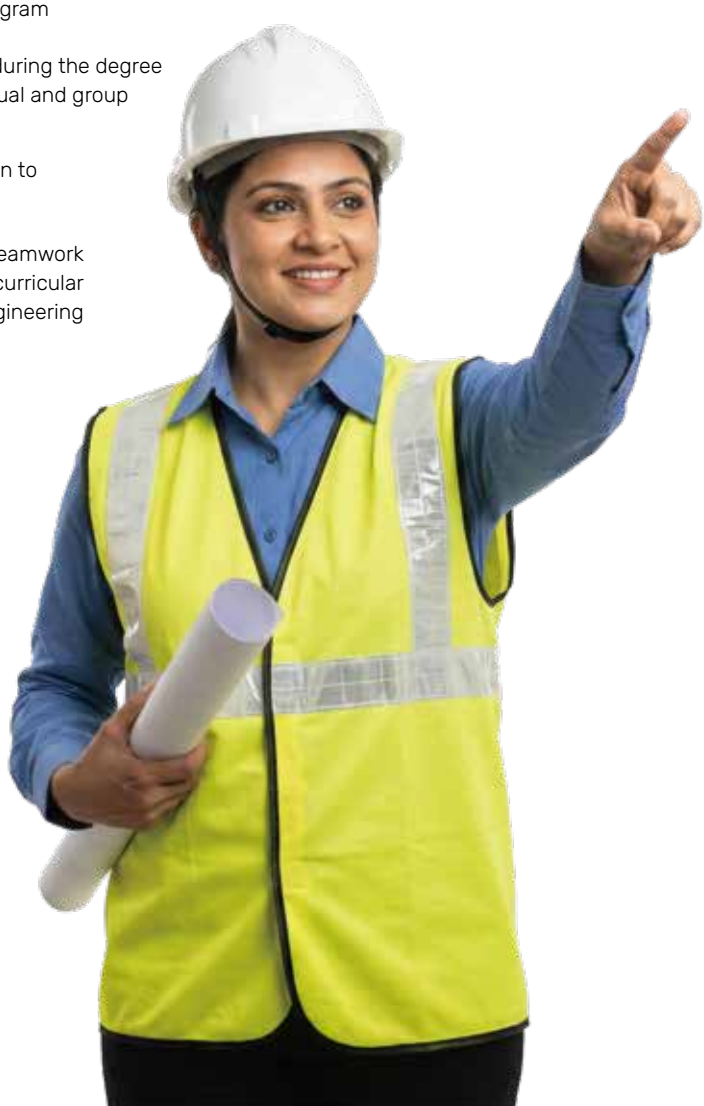
The SLIIT International Conference on Engineering and Technology (SICET), organised by the Faculty of Engineering, continued to strengthen its standing as a leading national and regional forum for advancing research, innovation, and multidisciplinary knowledge exchange in engineering and technology. SICET 2025 brought together a dynamic community of academics, student researchers, industry experts, and global partners, further expanding its reach and impact. Held from 9th to 12th September 2025 at SLIIT Malabe, the conference was preceded by an array of pre-conference workshops conducted online, on-site, and in hybrid formats. The inauguration ceremony, hosted at Marino Beach Hotel, Colombo, was a key highlight of the event. The ceremony was graced by Mr. Pradeep Saputhanthri, the Secretary to the Prime Ministeras the Chief Guest, with Professor Saman Seneweera, the Chairman of the National Science Foundation attending as the Guest of Honour. The conference also featured two distinguished keynote speakers, Prof. Sofiene Affes (INRS, Canada) and Prof. Andrey Koucheryavy (Saint Petersburg State University of Telecommunications, Russia), whose insightful addresses enriched the academic discourse and set an inspiring tone for the event.

SICET 2025 showcased twelve specialised technical tracks, offering comprehensive coverage of contemporary and emerging engineering fields including smart cities, sustainable infrastructure, renewable energy, robotics, biomedical engineering, telecommunication systems, artificial intelligence, and data-driven engineering. A significant enhancement this year was the introduction of the Industry Connect Track, providing industry practitioners with a dedicated platform to share innovations, case studies, and practical engineering solutions, further strengthening academia and industry collaboration. The conference attracted strong participation from local and international universities, with numerous high-quality peer-reviewed research papers presented. Selected papers are earmarked for publication in internationally indexed proceedings, enhancing the global visibility of research contributions. SICET 2025 also celebrated excellence through Best Paper Awards, Student Research Awards, and the continued SLIIT Engineering Excellence Awards, recognising outstanding achievements from both academia and industry.

Overall, SICET 2025 successfully advanced its mission of fostering cutting edge research, encouraging interdisciplinary engagement, and promoting innovation-driven thinking within the engineering community. The event continues to reinforce SLIIT's leadership in engineering education and research while contributing meaningfully to national and global conversations on technology, sustainability, and future-oriented engineering practice.

FACULTY OF ENGINEERING UNIQUE SELLING PROPOSITING

- Well-experienced, highly-qualified, full-time academic staff including 4 Professors & 28 lecturers with PhDs
- State-of-the-art laboratory and studio facilities in-house to conduct all undergraduate degree programs
- Well funded research program with permission to grant postgraduate research degrees leading upto MPhil and PhD
- Transition to university life through the Engineering First Year unit (EFY)
- Curricula prepared in line with the Outcome Based Education (OBE) system, targeting local and foreign accreditations of degrees
- Curricula also developed in consultation with relevant industries to produce more finely-tuned graduates suited to both local and foreign landscapes
- Received accreditation by Engineers Australia (EA) for Curtin degrees
- Awaiting RICS accreditation of the QS degree program
- Well-rounded graduates with industry exposure during the degree through industrial training, industry visits, individual and group research and design projects
- Engineers graduate with essential skills in addition to engineering skills
- Cultivating leadership, communication skills, teamwork and ethics through various projects and extracurricular activities such as SLIIT's Got Talent, Young Engineering Expo Esala Pandol, RoboFest, etc.



HEADS OF DEPARTMENTS

DR. JANAKA PERERA

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DR. RUWAN CHANDRASENA

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PROF. MIGARA LIYANAGE

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DR. MUDITH KARUNARATNE

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BSc Eng (Moratuwa), PhD (Cambridge)

MR. TILANKA WIJESINGHE

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BSc (Hons) QS, PG Dip. (Proj. Mgt.), A.I.Q.S.SL

ACADEMIC STAFF

Prof.	P. I. A. Gomes	BSc Eng(Hons) (Moratuwa), MSc (Moratuwa), PhD (Saitama, Japan)	Dean
Dr.	G. Tharmarajah	BSc (Moratuwa), PhD (QUB, UK)	Associate Dean
Prof.	M. H. Liyanage	BSc Eng (Hons) (Peradeniya), MEng (AIT, Thailand), PhD (Newfoundland, Canada)	Head/Mechanical Engineering
Prof.	A. L. G. Seneviratne	Beng (Hons) (QMUL), PhD (QMUL, UK)	Senior Lecturer (HG)
Dr.	S.A.M Karunaratne	BSc Eng (Hons) (Moratuwa), PhD (Cambridge, UK)	Head/Materials Engineering
Mr.	T. Wijesinghe	BSc (Hons) QS (Moratuwa), PG Dip (Moratuwa)	Senior Lecturer & Head/Dept. QS
Mr.	A. Martin	-	Head - Industrial Training Division
Prof.	H. S. C. Perera	BSc (Hons) (Moratuwa), MSc , PhD (AIT, Thailand)	Senior Professor
Prof.	E. C. Kulasekere	BSc (Moratuwa), MSc (Miami, USA), PhD (Miami, USA)	Professor
Prof.	S. C. S. Karunaratne	BSc (Moratuwa), M.Eng, (Saitama, Japan), PhD (Saitama, Japan)	Professor
Prof.	P.K.W. Abeygunawardhana	BSc Eng (Hons) (Moratuwa), MSc (Keio,Japan), PhD (Keio Japan)	Professor
Prof.	J.A.D.N. Kumara	PhD (UCD, Ireland) , MSc(EMU,Cyprus), BSc (DUET,Pakistan)	Professor
Prof.	S.D.G.S.P.Gunawardane	PhD.(MuIT, Japan)	Professor (On Contract)
Prof.	U. G. A. Puswewala	BSc.(Moratuwa) , M. Eng (AIT,Thailand), PhD (University of Manitoba,Canada)	Professor (On Contract)
Prof.	W.P.S. Dias	PhD (Nottingham)	Professor (on Contract)
Prof.	R. P. N. U. Amarasinghe	BSc. Eng (Moratuwa), MSc. Eng (TU, Thailand) , PhD (KSU, USA)	Associate Professor
Dr.	M. A. L. P. Malasinghe	M.Eng (Hons) (Nottingham, UK), MSc (Moratuwa), PhD	Senior Lecturer (HG)
Dr.	H. Y. Weeratunge	PhD (Australia)	Assistant Professor
Dr.	R.E.Wijesinghe	PhD (Kyungpook National, South Korea) BSc. (Kyungpook National, South Korea)	Assistant Professor
Dr.	R.P.Thilakumara	BSc (Hons) (Moratuwa), PhD (Bristol, Uk)	Senior Lecturer (HG)
Dr.	S. V. T. J. Perera	BSc Eng(Hons) (Moratuwa), Mphil (Moratuwa), PhD (Saitama, Japan)	Senior Lecturer (HG)
Dr.	A.P.N. Somaratna	BSc Eng (Peradeniya), MSc (Illinois, USA), PhD (Illinois, USA), C.Eng, MIE (SL)	Senior Lecturer(HG)
Dr.	W.K. Wimalsiri	BSc Eng (Hons) (Moratuwa), PhD (New Castle UT, Uk)	Senior Lecturer (HG)
Dr.	P.D. Dharmaratne	BSc.(Peradeniya), MEng.(Moratuwa), PhD.(Moratuwa)	Senior Lecturer (HG)
Dr.	R. M. P. S. Bandara	PhD (Moratuwa) M.Eng (Moratuwa) BSc (Honours) (Moratuwa)	Senior Lecturer (HG)
Dr.	N.P Miguntanna	PhD (Australia) BSc (Honors) (Peradeniya)	Senior Lecturer (HG)
Dr.	H.M.C.C. Somarathna	PhD (National University, Malaysia) BSc Eng (Hons) (Moratuwa)	Senior Lecturer (HG)
Mr.	S. S. Wanniarachchi	BSc . Eng (Moratuwa), MPhil (Moratuwa)	Senior Lecturer
Ms.	G. L. Fernando	BSc (Peradeniya), MEng (Moratuwa)	Senior Lecturer
Mr.	H.M.G.M. Herath	BSc Eng (Moratuwa), MBA (J'pura)	Senior Lecturer
Ms.	W.M.C.L.K. Wijekoon	BSc (Hons) QS (Moratuwa), MBA (Moratuwa)	Senior Lecturer
Mr.	R. P. H. S. Bandara	BSc Eng (Moratuwa), MBA (Moratuwa), MSc (Moratuwa)	Senior Lecturer

ACADEMIC STAFF

Mr.	L.M.L.K.B.Lindamulla	BScEng (Peradeniya), MScEng (Peradeniya), PhD (RMIT,Australia, Peradeniya)	Senior Lecturer
Mr.	P. W. Sarath	Bsc (Moratuwa)	Senior Academic Fellow
Mr.	K. P. G. C. D. Sucharitharatna	BSc (Hons) (SLIIT), MSc (SHU, UK)	Lecturer
Ms.	T. D. Amarasooriya	BSc (Southeast Missouri, USA)	Lecturer
Ms.	G. H. S. P De Silva	BSc (Hons) QS (Salford, UK), MSc in CLDR (Moratuwa)	Lecturer
Mr.	P. Coomasaru	PGD (Colombo), MBS (Colombo)	Lecturer
Ms.	K.A.N. Gunarathna	BSc (Hons) QS (Moratuwa), MA (Colombo)	Lecturer
Mr.	H G G K Rangajeewa	BSc Eng (Moratuwa), MBA (Moratuwa)	Academic Fellow
Ms.	T.G.Jathunga	BSc (SLIIT)	Lecturer (Tenure Track)
Ms.	P.A.C.B.Allis	BSc (Hons) QS (Moratuwa), Dip In Arbitration	Lecturer (Tenure Track)
Ms.	B. K. C. Perera	BSc.(Hons) (Quantity Surveying)	Lecturer (Tenure Track)
Mr.	W.A.N.D.Wedasingha	BSc.(Hons)(SLIIT)	Lecturer (Tenure Track)
Mr.	K. V. D Vidurapriya	Bsc (Hons) (SLIIT)	Lecturer (Tenure Track)
Ms.	M. D. D. Perera	Beng (Hons) (SLIIT) , MPhil (SLIIT)	Lecturer (Tenure Track)
Mr.	P.W.U.S.Perera	Bsc (Hons) (Moratuwa)	Lecturer (Tenure Track)
Mr	K. D. M. Perera	Bsc (Hons) (Moratuwa), MEng (Canada)	Lecturer (Tenure Track)
Ms.	R.Kotambage	Bsc (Ruhuna)	Lecturer (Tenure Track)
Ms.	S Ganesh	M.Phil (SLIIT) BSc (SLIIT)	Lecturer (Tenure Track)
Mr.	J.M.S.M. Jayasekara	Bsc Eng (Hons) (SLIIT)	Lecturer (Tenure Track)
Mr.	M.S.U.Fernando	M.Eng (Hons) (Moratuwa), BSc (SLIIT)	Lecturer (Tenure Track)
Mr.	F. Weerakkody	-	Visiting Consultant
Mr.	S. Thimothies	-	Visiting Academic
Mr.	K Amaraweera	-	Consultant Professor
Mr.	N. Jayamaha	-	Training Engineer

BSc HONOURS GRADES AND REQUIREMENTS

GRADING SYSTEM

SLIIT uses 12 grades in assessing student performance. These are A+, A, A-, B+, B, B-, C+, C, C-, D+, D and E. To obtain a pass in a subject, a student must score a grade 'C' or above. The value of each grade and definition of student performance is shown below.

GRADE	GRADE PTS.	MARKS RANGE
A+	4.00	90 - 100
A	4.00	80 - 89
A-	3.70	75 - 79
B+	3.30	70 - 74
B	3.00	65 - 69
B-	2.70	60 - 64
C+	2.30	55 - 59
C	2.00	45 - 54
C-	1.70	40 - 44
D+	1.30	35 - 39
D	1.00	30 - 34
E	0.00	00 - 29

GRADE POINT AVERAGE (GPA) PER SEMESTER

The GPA is computed by dividing the sum of the products of the number of credits for each course followed and the grade points earned for that course by a student, by the total number of credits for the courses followed during the semester by that student.

CLASS ATTENDANCE

Regular attendance is expected from all students. 80% attendance is necessary as a minimum requirement to sit examinations. Inability to attend classes and/or examinations must be brought to the notice of the Manager of Student Affairs immediately.

WEIGHTED GRADE POINT AVERAGE (WGPA)

FACULTY	Y1	Y2	Y3	Y4
FOC	0	20%	30%	50%
FOB	10%	20%	30%	40%
FOE				

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"The Institute reserves to itself the right to effect, at any time during the course of programmes, amendments to the curriculum of its programmes to meet emerging needs of the industry/business and/or in response to the requirements of professional and accreditation bodies."

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