



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



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## MESSAGE FROM THE DEAN

At the Faculty of Engineering, we aim to produce world class graduates readily employable in industry. The faculty pursues the institute's mission by focusing on excellence in higher learning, research and other professional activities in engineering. A new engineering complex with state-of-the art facilities is available for students to achieve high level of learning experience under the guidance of more than hundred highly qualified fulltime academic staff consisting of more than 29 PhD holders and 20 more with postgraduate qualifications. Furthermore, the in-house academic staff is assisted in the delivery of undergraduate programs by more than 10 professors form foreign universities in the honorary professor network (HPN), more than 10 lecturers/professors form local universities and the industry experts.

The Faculty of Engineering comprises of five academic departments. The faculty at present offers Ministry of Higher Education, Sri Lanka approved four year Bachelor of Science of Engineering Degrees in four disciplines; Electrical and Electronic Engineering, Civil Engineering, Mechanical Engineering and Materials Engineering. Under these four major disciplines, we offer over eight specializations, including the specialization in Mechatronic Engineering. Further, the Department of Quantity Surveying in the Faculty of Engineering offers the highly recognized three year Bachelor of Science Honours degree in Quantity Surveying in partnership with the Liverpool John Mores (LJMU), UK. The Quantity Surveying degree we offer is RISC accredited in UK and we are in the process of getting the RICS accreditation for our delivery in the Faculty as well.

We are very proud of the fact that we possess in-house state-of-the-art laboratory facilities to conduct all undergraduate degree programs offered by us. All our undergraduate programs have compulsory in-built industrial training within their respective fields of study and they get the industry exposure while pursuing the undergraduate degrees in the faculty. Due to the highly qualified full time staff, state-of-the-art resources, well developed curricular upgraded with the industry trends and the industry exposure, we have witnessed that large number of our undergraduates find local and foreign job opportunities within a short period of their graduation.

Apart from the above stated undergraduate degrees, we were granted permission by the Ministry of Higher Education, Sri Lanka to offer research degrees leading to MPhil and PhD. We carry out research in collaboration with state institutions, local industry, international institutions and foreign industry. Close to twenty fulltime postgraduate research students are currently engaged in their research work seeking the aforementioned postgraduate research degrees. Moreover, the Faculty of Engineering disseminates the research findings through publications in high rank journals and conferences, and through its own SLLIT International Conference on Engineering and Technology (SICET 2022).

As a leading higher educational institute in Sri Lanka, SLIIT will play a critical role in educating and developing high talent, and in attracting and retaining good local and international students, faculty and visionaries across its many disciplines. As the Dean of the Faculty of Engineering of SLIIT, I am grateful to all our staff for their continued support in raising our standards to greater heights, and maintaining that high standards in delivering both undergraduate and postgraduate degrees. Furthermore, I am grateful to our parent institution, SLIIT, for providing us with necessary resources, excellent educational infrastructure and university environment to engage in our mission. There has never been a more important stage to engage and transform the talent base that can look beyond the traditional economic and social boundaries, and Sri Lanka's future will indeed depend on that.







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**

CCESS STORIES

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



NGINEERING 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 (LIMU), 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



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The four-year course of study leading to the degree of BSc Engineering (Hons) in Civil Engineering is carefully designed to maintain a judicious balance between theoretical foundations and practical applications. Students will be exposed to a rigorous academic programme and at the same time they will be provided ample opportunities to gain hands on experience in well-equipped laboratories and during exciting field excursions. They will also be able to acquire valuable real life engineering experience through industrial internships during the second and the third years of study.

#### **CAREER OPPORTUNITIES**

- Civil and/or Environmental Engineering Consulting Firms
- Construction Engineering Organizations in Private and Public Sectors
- Specialist Subcontractors
- Provincial Engineering Organizations
- Municipalities and Local Government Organizations
- Research and Development Institutes
- Government and Regulatory Authorities
- Building Information Modeling Organisations
- Civil engineering companies with computer/IT applications Remote Sensing, Earth Observation & GIS organisations

#### **CIVIL ENGINEERING IS A :**

- Is the engineering discipline that deals with the sustainable design and construction of the built environment that includes infrastructure such as buildings, roads, tunnels, reservoirs, harbours, etc.
- · Also studies the natural environment at regional and global scales
- · Is a discipline that has a good blend of fundamental knowledge and applications
- · Enhances creative, innovative, and team working skills
- Degree at SLIIT is a rigorous academic program with opportunities to gain hands-on experience in well-equipped laboratories and through exciting field and desk assignments
- Students undergo six months of compulsory industrial training at the end of their 2nd and 3rd years respectively, split into two periods of three months each

#### STUDENTS MAY ALSO USE THE FINAL YEAR TO PURSUE SPECIALISED OPTIONS IN:

- Structural Engineering
- Geotechnical Engineering
- Transportation Engineering
- Water & Environmental Engineering -
- Digital tools and IT

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

Construction Engineering

YEAR ONE SEMESTER 01	CE1020 EC1022 MA1112 ME1050 CE1913 EL1203	Statics & Hydrostatics Electrical Systems Algebra Introduction to Engineering Principles, Design & Communications Introduction to Sustainable Engineering English Language Skills I	03 03 04 04 02 03
SEMESTER 02	ME1060 ME1031 EC1450 MT1011 MA1122 EL1213	Dynamics Engineering Skills Development Fundamentals of Programming Engineering Materials Calculus English Language Skills II	03 03 03 04 04 02
YEAR TWO	CE2011	Structural Analysis I Eluid Machanics	04
SEMESTER 01	CE2021 CE2211 MA2302	Properties and Mechanics of Materials Civil Engineering Methods Engineering Mathematics III	03 04 03
SEMESTER 02	CE2812 CE2032 CE2042 CE2051 ME2720 CE2911 CE2940	Geotechnical Engineering I Structural Design I Structural Analysis II Advanced Mechanics of Materials Introduction to Thermal Processes Humanities I Industrial Training I Civil Engineering Surveying Camp	03 04 03 02 02 03 01
YEAR THREE	CE3012	Structural Analysis III Pumps & Open Chappel Flow	03
SEMESTER 01	CE3022 CE3811 CE3211	Structural Design II Geotechnical Engineering II Civil Engineering Project and Cost Management Humanities II	04 03 03 02
SEMESTER 02	CE3611 CE3822 CE3411 CE3420 CE3231 CE3221 CE3222	Environmental Engineering Geotechnical Engineering III Transportation Engineering Highway Engineering Projection Formulation Construction Technology and Methods Civil Engineering Seminar	03 03 02 02 03 03
	CE3911	Industrial Training II	03
YEAR FOUR SEMESTER 01	CE4211 CE4221 CE4912 CE4711 2 Elective M CE4813 CE4411 CE4011 CE4011 CE4041 CE4050	Comprehensive Design Project 1 Civil Engineering Project 1 Engineering Project 1 Engineering Hydrology lodules from the following Advanced Foundation Engineering Traffic Engineering and Planning Water Systems & Hydraulic Structures Finite Element Methods in Structural Engineering Structural Design III Environmental Engineering Design Applied Machine Learning and Artifical Intelligenece in Civil Engineering	03 03 03 03 03 03 03 03 03 03 03
SEMESTER 02	CE4921 CE4251 CE4251 2 Elective M CE4261 2 Elective M CE4413 CE4731 CE4021 CE4021 CE4021 CE4040 CE4830 CE4721	Sustainble Development in Civil Engineering Comprehensive Design Project II Civil Engineering Project II Construction Project Management Iodules from the following Pavement Design Environmental Hydraulics & Hydrology Structural Dynamics and High Rise Buildings Advanced Concrete Design Sensors for Civil Engineering Applications Slope Stability and Design of Earth Retaining Systems Remote Sensing and Geographic Information Systems	03 03 02 03 03 03 03 03 03 03 03 03

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

# ELECTRICAL & ELECTRONIC

With a strong focus on building theoretical and practical based study, the BSc Engineering Honours in Electrical & Electronic Engineering provides appropriate technical knowledge in Electrical & Electronic Engineering including hands on experience in practical scenarios. The course is structured also to gain interdisciplinary problem solving skills, social awareness and confidence required to build outstanding high caliber engineers. The curriculum of BSc Engineering Honours in Electrical & Electronic Engineering is developed in close consultation with the industry,

so that the graduates are well suited with the demands of the industry. The students will also gain the essential skills expected in the industry.

#### **CAREER OPPORTUNITIES**

- Electronic
- Telecommunication
- Electrical Power
- Data Communication
- Networking

#### STUDENTS MAY ALSO USE THE FINAL YEAR TO PURSUE SPECIALISED OPTIONS IN:

- Electronic Engineering (EN)
- Communications Engineering (CE)
- Electrical Engineering (EE)
- Computer Systems Engineering (CS)
- Network Engineering (NE)

Students also undergo a compulsory 24 weeks industrial training at the end of their 2nd and 3rd years respectively, split into 12 weeks each.

#### ENTRY REQUIREMENTS

Minimum two "C" passes and one "S" pass in G.C.E. A/L (Sri Lanka) in the Physical Science Stream (Combined Mathematics, Physics and Chemistry) in one and the same sitting or minimum two "B" passes and one "C" pass in G.C.E A/L Cambridge or Edexcel covering Mathematics, Physics and Chemistry in one and the same sitting, and pass the Aptitude Test conducted by SLIIT.



YEAR ONE SEMESTER 01	CE1020 EC1022 MA1111 ME1050 EL1203 CE1913	Statics and Hydrostatics Electrical Systems Engineering Mathematics I Introduction to Engineering Design and Communication English Language Skills I Introduction to Sustainable Engineering	03 03 04 04 03 02
SEMESTER 02	EC1450 MA1121 MT1010 ME1031 ME1060 EL1213	Fundamentals of Programming Engineering Mathematics II Engineering Materials Engineering Skills Development Dynamics English Language Skills II	03 03 04 03 03 02
YEAR TWO	ME2821 EC2093	Fluid Mechanics and Thermodynamics Foundations of Digital Design	03 03
SEMESTER 01	EC2203 EC2493 EC2132 MA2111	Electrical Circuits Object Oriented Programming Microcomputers Engineering Mathematics III	03 03 03 03
SEMESTER 02	EC2140 EC2113 EC2220 EC2731 EC2403 MA2121 Humanities Industrial Tr	Analogue Electronics Signals and Systems Electrical Machines and Power Systems Data Structures and Algorithms Computer Networks Engineering Mathematics IV I 2 aining I	03 03 03 03 03 03
YEAR THREE	EC3250 FC3613	Electrical Measurements and Instrumentation	03 03
SEMESTER 01	EC3503 EC3013 EC3193 EC3550	Control Systems Electronic Design Electrical Machines and Stability Robotics and Controls	03 03 03 03
SEMESTER 02	ME3260 ME3250 EC3203 EC3103 EC3033 EC3213 Humanities Industrial Tr	Industrial Project Management Engineering Economics Engineering Electromagnetics Advanced Digital Design Power Electronics Power Systems Analysis II 03 aining Part 2	02 03 03 03 03
YEAR FOUR SEMESTER 01	EC4830 EC4840 EC4920 EC4930 ME4112 EC4650 EC4440 EC4710 EC4483 EC4553 EC4553 EC4553 EC4530 EC4213 EC4261	Comprehensive Design Project Individual Research Project Legal Environment in Electrical Engineering Entrepreneurship Skills Development Industrial Management and Marketing Communication Engineering II Data Communication and Networking Embedded Systems Programming Computer Vision and Image Processing Digital Signal Processing Machine Learning Electrical Power Transmission and Distribution High Voltage Engineering	03 02 01 03 03 03 03 03 03 03 03 03 03 03
SEMESTER 02	EC4040 4 Elective M EC4462 EC4031 EC4212 EC4231 EC4552 EC4241 EC4471 EC4482 EC4502 EC4502 EC4502 EC4541 EC4541 EC4542 EC4562 EC4562 EC4562	Electronic Engineering Project lodules from the following * Computer Structures Medical Electronics Electronagnetic Propagation Digital Signal Processing Introduction to Smart Grid Control Information Theory & Error Control Coding Computer Vision & Image Processing Neural & Fuzzy Systems Instrumentation & Control Industrial Automation & Process Control Network Management & Security Internet Technologies Distributed Computing Wireless Communications Renewable Energy Systems	04 03 03 03 03 03 03 03 03 03 03 03 03 03

 $^{\ast}$  Electives to be chosen with the prior approval of the Acadamic Department

## MATERIALS ENGINEERING

Materials Engineers are the vanguards 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.

#### CAREER OPPORTUNITIES

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

#### STUDENTS MAY ALSO USE THE FINAL YEAR TO PURSUE SPECIALISED OPTIONS IN:

- Advanced Engineering Materials -
- High Temperature Materials Bio – Materials
- Magnetic Materials **Energy Materials**
- Electronic Materials

Students undergo a compulsory industrial training programme of 6-month duration at the end of their 2nd & 3rd years respectively, split into 3 months each.

#### ENTRY REQUIREMENTS

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





YEAR ONE SEMESTER 01	CE1011 ME1010 EC1021 MA1302 EL1202 CE1912	Engineering Mechanics Engineering Design & Processes Electrical Systems Engineering Mathematics I English Language Skills I Introduction to Sustainable Engineering	04 04 03 03 03 02
SEMESTER 02	ME1030 ME1040 MT1010 MA1312 EC1441 EL1212	Engineering Skills Development Engineering Principles & Communication Engineering Mathematics II Engineering Mathematics II Engineering Programming English Language Skills II	03 04 03 03 02
YEAR TWO SEMESTER 01	CE2721 ME2011 MT2020 MA2302 ME2021 MT2010	Fluid Mechanics and Thermodynamics Mechanics of Solids I Metals & Alloys Engineering Mathematics III Mechanics of Machines I Material structure and defects	04 03 03 04 04
SEMESTER 02	ME2030 MT2040 MT2060 MT2070 ME2051 MT2050 CE3910 MT2080	Manufacturing Processes I Ceramics Engineering Material Processing Material Characterisation Techniques Mechanical Design I Chemical thermodynamics and phase equilibria Humanities I Industrial Training I	03 03 03 03 03 03 04
YEAR THREE SEMESTER 01	ME3031 MT3010 ME3100 MT3030 ME3041 MT3020 CE3910	Mechanics of Solids II Plastics & Rubber Manufacturing Processes II Construction & Building Materials Mechanics of Machines II Phase transformation and Kinetics Humanities II	04 03 03 03 04 04
SEMESTER 02	MT3040 MT3050 ME3081 ME3091 MT3070 ME3052 MT3060 MT3080	Corrosion Engineering Nanomaterials & Nanotechnology Engineering Management Law for Engineers Welding & Joining Processes Mechanical Design II Composite Materials Industrial Training II	03 03 03 03 03 03 04
YEAR FOUR	MT4010 MF4111	Materials Engineering Project 1 Industrial Management & Marketing	04 03
SEMESTER 01	3 Elective Me MT4030 MT4050 MT4060 MT4070 ME4091 ME 4081 ME 4050	adules from following: Advanced Engineering Materials Materials Modelling Surface Engineering Magnetic Materials Energy Technology and Sustainability Computer-aided design and manufacture Computer-aided engineering	03 03 03 03 03 03 03 03
SEMESTER 02	MT4080 MT4090 MT4100 2 Elective Mr MT4110 MT4120 MT4130 MT4140 MT4140 MT4140 MT4160 ME4160 ME4140	Materials Engineering Project II Material Application & Design Recycling & Sustainable Materials Jolules from following: High Temperature Materials Advanced Manufacturing Processes Energy Materials Bio-Materials Electronic Materials Product Design Design for Manufacture	04 03 03 03 03 03 03 03 03 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

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 program includes lectures, labs, engineering design work and projects. The Mechanical 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.

#### CAREER OPPORTUNITIES

- Mechanical Engineer
  - Automation Engineer
  - Maintenance Engineer Design and Manufacturing
    - Thermal Engineer Entrepreneur
- Industrial Engineer University Lecturer
- Researcher
- Mechanical Engineering is a pioneering and broadest field of Engineering and presently diversified into several specialities.

Automobile Engineer

- The Mechanical Engineering undergraduate degree typically begins with basic introductory Engineering courses.
- Once students begin to focus on their major they can expect to find courses in design, manufacturing, mechanics, thermodynamics, and materials.
- Graduates of a Mechanical Engineering program will have both academic and lab experience with projects in the various disciplines that apply directly to Mechanical Engineering.

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



YEAR ONE SEMESTER 01	CE1011 ME1010 EC1021 MA1302 EL1200 CE1912	Engineering Mechanics Engineering Design & Processes Electrical Systems Engineering Mathematics I English Language Skills I Introduction to Sustainable Engineering	04 03 03 03 02
SEMESTER 02	ME1030 ME1040 MT1010 MA1312 EC1441 EL1212	Engineering Skills Development Engineering Principles & Communication Engineering Mathematics II Engineering Mathematics II Engineering Programming English Language Skills II	03 04 03 03 02
YEAR TWO SEMESTER 01	ME2011 CE2712 ME2021 ME2031 MA2302	Mechanics of Solids I Fluid Mechanics I Mechanics of Machines I Engineering Drawing Engineering Mathematics III	03 04 04 04 03
SEMESTER 02	ME2041 ME2051 ME2100 ME2170 ME2081 Industrial Tr ME2911	Thermodynamics Mechanical Design I Manufacturing Processes I Electrical Plant Engineering Sustainable Development Humanities I aining 1 Industrial Training I	03 03 03 03 03 03
YEAR THREE SEMESTER 01	ME3012 ME3100 ME3031 ME3041	Thermal Engineering Processes Manufacturing Processes II Mechanics of Solids II Mechanics of Machines II Humanities II	03 03 04 04
SEMESTER 02	ME3052 ME3061 ME3020 ME3640 ME3081 ME3091 Industrial Tr ME3911	Mechanical Design II Fluid Flow Modelling Automatic Control I Mechatronics Systems Engineering Management Law for Engineers aining 2 Industrial Training II	03 03 03 03 03 03
YEAR FOUR	ME4250 ME4300	Mechanical Engineering Research Project Comprehensive Desian Project	03 03
SEMESTER 01	ME4071 ME4132 2 Elective M	Production and Operations Management Professional Practice onlues from the following:	03 02
	ME4111 ME4021 ME4030 ME4050 ME4050 ME4081 ME4091 ME4101	Industrial Management and Marketing Advanced Engineering Materials Vibration Computer Aided Design and Manufacture Energy Technology and Sustainability Refrigeration and Air Conditioning	03 03 03 03 03 03 03
SEMESTER 02	ME4250 ME4300 ME4181 ME4220 2 Elective M ME4140 ME4150 ME4150 ME4170 ME4170 ME4190 ME4201 ME4210	Mechanical Engineering Research Project Comprehensive Design Project Industrial Engineering Automotive Engineering odules from the following: Design for Manufacturing Automatic Control II Product Design Noise Advanced Manufacturing Processes Energy Conservation & Management Fluid Power Systems and Machinery	03 03 03 03 03 03 03 03 03 03 03

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



### MECHANICAL ENGINEERING (MECHATRONICS SPECIALISATION)

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 a specialized knowledge on robotics, industrial automation, sensors, instrumentation, control systems and artificial intelligence. Mechatronic engineers possess a broad multidisciplinary knowledge in engineering together with hands on skills to implement such systems.

Mechatronics Specialization in Mechanical Engineering has a set of state-of-the-art subjects intended to provide the required knowledge and hands-on skills. The degree program 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.

#### CAREER OPPORTUNITIES

- Mechanical Engineer
- Electronics Design Engineer
- Instrumentation Engineer
- Data Scientist/Big Data Analyst
- Entrepreneur
- Researcher

- Robotics Engineer
- Automation Engineer
- Control Systems Engineer
  Software Engineer
  University Lecturer

- ENTRY REOUIREMENTS

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



YEAR ONE SEMESTER 01	CE1011 ME1010 EC1021 MA1302 EL1200 CE1912	Engineering Mechanics Engineering Design and Processes Electrical Systems Engineering Mathematics I English Language Skills I Introduction to Sustainable Engineering	04 04 03 03 03 02
SEMESTER 02	ME1030 ME1040 MT1010 MA1312 EC1441 EL1212	Engineering Skills Development Engineering Principles and Communication Engineering Materials Engineering Mathematics II Engineering Programming English Language Skills II	03 04 04 03 03 02
YEAR TWO	EC2092	Foundations of Digital Design	03
SEMESTER 01	EC2202 ME2680	Mechanics of Machines ( Electrical Circuits Computer Aided Drawing	04 03 03
	MA2302 ME2610	Engineering Mathematics III Mechatronics Design Project I	03 03
SEMESTER 02	ME2510 ME2541 ME2041 EC2212 ME2620 ME2650 ME2911	Electronics for Mechatronic Engineers Mechatronic Systems Engineering Thermodynamics Electromagnetic and Electromechanical Energy Conversion Manufacturing Technology Mechatronics Design Project II Humanities I Industrial Training I	03 03 03 03 03 03 03
YEAR THREE SEMESTER 01	ME3512 ME3620 ME3660 ME3531 ME3110 ME3580	Embedded Systems Engineering Control Systems Computer Aided Design and Manufacture Solid Mechanics and Mechanical Design Fluid Mechanics and Hydraulic Machinery Automation Systems	03 03 03 03 03 03
SEMESTER 02	EC3032 EC3102 ME3081 ME3091 ME3571 ME3610 ME3911	Power Electronics Advanced Digital Design Engineering Management Law for Engineers Mechatronic Systems Modelling Design of Mechatronic Systems Industrial Training II	03 03 03 03 03 03 03
YEAR FOUR SEMESTER 01	ME4500 ME4600 ME4521 ME4071 ME4132 2 Elective M ME4111 EC4012 ME 4630 ME 4630 EC4432 ME4091	Mechatronics Research Project Comprehensive Design Project Advanced Automation Systems Production and Operations Management Professional Practice todules from the following: Industrial Management and Marketing Power Electronics and Drives Artificial Intelligence and Machine Learning Industrial Machine Vision Embedded Systems Engineering II Energy Technology and Sustainability	03 03 03 03 02 03 03 03 03 03 03 03 03
SEMESTER 02	ME4500 ME4400 ME4181 2 Elective N ME 4541 ME4150 ME4550 ME4220 ME4570 ME4570	Mechatronics Research Project Comprehensive Design Project Industrial Engineering Modules from the following: Robotics and Autonomous Systems Automatic Control II Object Oreinted programming for Mechatronics Engineers Automotive Engineering Advanced Topics in Mechatronics Engineering Micro-Mechatronics	03 03 03 03 03 03 03 03 03 03 03
	* Electives	to be chosen with the prior approval of the Acadamic Department	

## QUANTITY SURVEYING

The study programme will cover subject areas ranging from measurement, estimating and costing, cost management, contract administration, project management and quantity surveying practice. The teaching staff consist of experienced academic and professional Quantity Surveyors, Engineers, and other highcalibre 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 Negotiation, Procurement Advising and Consultation, Arbitration, Cost Controlling, Cost Planning and Project Management.

#### **CAREER OPPORTUNITIES**

The Quantity Surveying programme being nested at the Faculty of Engineering of SLIIT, offer students a unique chance to collaborate with other professionals involved in the construction field such as Engineers and Architects, for an overall understanding of the building process and project experience.

:	3 Years
:	January / June
:	Malabe
:	Weekdays / Weekend
:	Weekdays / Weekend
	: : : :

#### ENTRY REQUIREMENTS

Minimum 3 'S' passes in G.C.E A/L (Sri Lanka) or a minimum 3 'D' passes in G.C.E A/L Cambridge or Edexcel from Physical Science stream in one sitting AND Compulsory 'C' pass for English at GCE 0/L (Sri Lanka/ Edexcel / Cambridge) and a pass at the Aptitude Test conducted by SLIIT

#### or

Minimum 3 "S" passes in G.C.E A/L (Sri Lanka) or a minimum 3 'D' passes in G.C.E A/L Cambridge or Edexcel from Biological Science/ Commerce Stream/ Engineering Technology stream in one sitting AND Compulsory 'B' pass for Mathematics and 'C' pass for English at GCE O/L (Sri Lanka/ Edexcel/ Cambridge) and a pass at the Aptitude Test conducted by SLIIT.



YEAR ONE SEMESTER 01	QS1511 QS1521 MA1101 QS1910 QS1451	Construction Technology 1 Science and Material Mathematics for Quantity Surveyors Communication Skills I Construction Drawing	04 04 02 02 03
SEMESTER 02	QS1811	Introduction to Law	04
	QS1121	Measurement and Costing	04
	QS1920	Communicati on Skills II	02
	QS1711	Management Theory and Practice	04
	QS1490	IT Application for Quantity Surveying II	04
YEAR TWO SEMESTER 01	QS 2531 QS 2721 QS 2550 QS 2111	Construction Technology 2 Construction Project Management Land Surveying Advanced Measurement and Contract Administration	04 04 02 04
SEMESTER 02	QS 2211	Construction Procurement	04
	QS2311	Collaborative Interdisciplinary Project 2	02
	QS2411	Research Methods	03
	QS2441	Specification Writing	02
	QS 2821	Construction Contract Law	04
	QS2940	Industrial Training I	05
YEAR THREE SEMESTER 01	6537 BESL 6539 BESL 6536 BESL	Contract and Procurement Strategies Project Economics and Management Advanced Quantity surveying Project	20 20 10
SEMESTER 02	6535 BESL	Research Project	30
	6538 BESL	Engineering Measurement	20
	6540 BESL	Business Management and Entrepreneurship	20

 $^{\ast}$  Electives to be chosen with the prior approval of the Acadamic Department





#### **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.













ROBOFEST is an annual robotics competition organized by the Department of Electrical & Electronics Engineering at the Sri Lanka Institute of Information Technology. The competition's journey began in 2010 when it was exclusively open to students of the Sri Lanka Institute of Information Technology. In 2011, the event expanded its horizons, inviting students from across the nation to participate school, undergraduate, and open competitions. By ROBOFEST 2012, the platform was accessible to school pupils and undergraduates from all corners of Sri Lanka. The most recent event, ROBOFEST 2023, was an inclusive gathering, welcoming students from schools and universities throughout Sri Lanka. It even extended its reach to industrial professionals eager to showcase their local innovations. The remarkable interest displayed 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 for ROBOFEST 2023 was Microbolt group from Nalanda College, while in the University Category, the Champions were Warlocks from University of Moratuwa, ROBOFEST's mission is to provide school and undergraduate students with a platform to design, build, and acquaint themselves with cutting-edge technologies in the realm of robotics. This competition offers every student the opportunity to shine and showcase their talents on the grand stage



















The SLIIT International Conference on Engineering and Technology 2023 (SICET 2023) was set to offer a unique platform for participants to discuss emerging trends in the fields of Engineering, and its allied branches. Organised by the Faculty of Engineering, SICET 2023 was held in hybrid mode, with both physical and online sessions. Held for the second consecutive year, SICET 2023 aims to foster a multidisciplinary approach to engaging innovation and research as well as provide a unique opportunity for academics, student researchers as well as industry member to showcase their pioneering ideas. Participants can also interact with peers from a wide spectrum of engineering disciplines. SICET 2023 theme was 'Sustainability in Engineering and Technology' and compared to last year they have enhanced the content and have organised pre-conference workshops for industry participants. The committee also invited our own academics, MSc students and PhD students, as well as the final year research students in addition, to other research organisations (local & foreign) and industry (local & foreign) organisations to participate in the event. Therefore, this conference provided the unique platform for academics, student researchers as well as industry members to showcase their pioneering ideas and to interact with peers from a wide spectrum of engineering disciplines







FACULTY OF ENGINEERING | STUDENT GUIDE | 22

### 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

### **PROF. AYANTHA GOMES**

HEAD, DEPARTMENT OF CIVIL ENGINEERING BSc (Eng) Hons (Moratuwa), MSc (Moratuwa), PhD (Saitama University, Japan) CEng, MIE(SL)



### DR. LASANTHA SENEVIRATNE

**HEAD, DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING** Ph.D. (QMUL, UK), B.Eng (Hons)



### **PROF. MIGARA LIYANAGE**

HEAD, DEPARTMENT OF MECHANICAL ENGINEERING BSc Eng (Peradeniya), MEng (Thailand), PhD (Canada), P.Eng



## **DR. MUDITH KARUNARATNE**

HEAD, DEPARTMENT OF MATERIALS ENGINEERING BSc Eng (Moratuwa), PhD (Cambridge)



## **MR. TILANKA WIJESINGHE**

HEAD, DEPARTMENT OF QUANTITY SURVEYING BSc (Hons) QS, PG Dip. (Proj. Mgt.), A.I.Q.S.SL

ACADEMIC STAFF

Prof.	H. S. Thilakasiri	BSC.Eng(Hons) (Moratuwa), MSC (Lond, UK), PhD (USF, USA)	Dean / Senior Professor
Dr.	G. Tharmarajah	BSc (Moratuwa), PhD (QUB, UK)	Associate Dean/
Prof.	P. I. A. Gomes	BSc Eng(Hons) (Moratuwa), MSc (Moratuwa), PhD (Saitama, Japan)	Head/Civil Engineering
Prof.	M. H. Liyanage	BSc Eng (Hons) (Peradeniya), MEng (AIT, Thailand), PhD (Newfoundland, Canada)	Head/Mechanical Engineering
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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 Divisio
Prof.	H. S. C. Perera	BSc (Hons) (Moratuwa), MSc , PhD (AIT, Thailand)	Senior Professor
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Mr.	R. P. H. S. Bandara	BSc Eng (Moratuwa), MBA (Moratuwa), MSc (Moratuwa)	Senior Lecturer

TITITITI'			
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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

#### **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
А	4.00	80 - 89
A-	3.70	75 - 79
B+	3.30	70 - 74
В	3.00	65 - 69
B-	2.70	60 - 64
C+	2.30	55 - 59
С	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.





Embark on your pathway to greatness with our extensive degree programme options at SLIIT. Please follow the application guidelines below.

#### **Option 01:** Apply Online : apply.sliit.lk

**Option 02:** Download the application form apply.sliit.lk Send the duly filled application form to Manager Student Enrollment, SLIIT, New Kandy Road, Malabe

**Option 03:** Obtain the application form from any of our campuses or centres

**Option 04:** Call our hotline for further information



"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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#### CAMPUSES:

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Tel: +94 11 754 4801 Fax: +94 11 241 3901

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 SLIIT METROPOLITAN CAMPUS Boc Merchant Tower #28, St Michael's Road, Colombo 03.

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• SLIIT KURUNEGALA CENTRE No. 8th, Dambulla RD Kurunegala.

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• KANDY UNI KENGALLA, KUNDASALE, Kandy.

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• SLIIT MATARA CENTRE No. 24, 5TH Floor, E.H.Cooray Building, Anagarika Dharmapala Mawatha, Matara.

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