

# 2022 FACULTY OF ENGINEERING

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## STUDENT GUIDE

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# 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 Should join SLIIT Higher  
Education, a globally recognised Institute

## BE SMART. BE WISE

"The Next You" is determined 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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[WWW.SLIIT.LK](http://www.sliit.lk)

# 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 from foreign universities in the honorary professor network (HPN), more than 10 lecturers/professors from 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.

**PROFESSOR  
SAMAN  
THILAKASIRI**  
DEAN - FACULTY OF ENGINEERING





# SUCCESS STORIES



As an Engineer, I believe in "Innovation is the key to success". SLIIT opened the door for me to enter the path of design and innovation. From many degree programs offered at SLIIT, I selected the Mechanical Engineering program affiliated with the Curtin University of Australia. This also helped me to become a graduate member of Engineers Australia.

In December 2016, while I was waiting for my final year results, I have joined 3D Concept Studio, a prototyping and innovation-based organization as a Design Engineer. With the successful completion of my degree, I continued to work on new product designs at 3D Concept Studio. And with 100% commitment and the passion to develop new designs, I got promoted as the Engineering Manager at 3D concepts studio in the year 2018. Now I manage projects from idea-phase to final design and the final prototype, helping many individuals and organizations to make their ideas a reality. At 3D concept Studio, we also took the initiative to conduct sessions for the public, students, and corporates

about the 3D Designing and Fabrication. I also got the opportunity to input my knowledge and skills in providing solutions for many industries such as the electronic industry, medical industry, manufacturing industry, etc. I was also able to successfully design and fabricate devices to convert Scuba Gear into CPAP masks for ICU patients and face shields for medical staff to fight the COVID-19 pandemic.

Thinking back, all these opportunities I have received to make the world a better place was thanks to the exposure and strength given to me by SLIIT. Without a doubt, I can say that SLIIT laid a strong foundation for my career as an Engineer.

## YASIRU SENANAYAKE

BEng (Hons) IN MECHANICAL ENGINEERING

**MANAGER ENGINEERING - 3D CONCEPT STUDIO PRIVATE LIMITED**



I developed my earliest passion for academic research when I was an undergraduate student at SLIIT, faculty of Engineering. Guided exposure to develop research skills provided by the experienced lecture panel contributed to build my path of becoming a curious researcher. I graduated with a First Class in BSc (Hons) in Civil Engineering and I received the merit award for academic excellence in the field of Civil Engineering at 2017 convocation. I worked as an Instructor and an Assistant Lecturer at the Department of Civil Engineering of SLIIT after graduation. Currently I am reading for Ph.D. in Civil Engineering at the University of Manitoba, Canada. I recently received Price Graduate Scholarship for Women in Engineering for my academic achievements at the University of Manitoba.

I was the Secretary of Sri Lanka Association of Institute of Civil Engineers (SLAice) Student Chapter in 2015/ 2016 office tenure. I currently serve as the Treasurer for Canadian Water Resources Association (CWRA) Student and Young Professionals Chapter in Winnipeg, Canada.

I personally experienced that Civil Engineering curriculum at SLIIT is comprehensive and versatile which ensured 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

BSc (Hons) in Civil Engineering

**PhD Student/Research Assistant - University of Manitoba, Canada**

# 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' knowledge, skills and attitudes required to work in the industry as practicing 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 recognized. All engineering degrees awarded by SLIIT are approved by the Ministry of Higher Education of Sri Lanka under the Universities Act. Furthermore, our undergraduate curriculum is outcome-based in compliance with the Washington Accord Accreditation through the Institution of Engineers, Sri Lanka (IESL). SLIIT is also a Member of the Association of Commonwealth Universities and International Association of Universities (IAU).

At SLIIT, students will also have the option of pursuing the Engineering programs offered by Curtin University, Australia and the Quantity Surveying programs offered by Liverpool John Moores University (LJMU), UK. Our programmes are flexible: for example, students are able to exit a course if faced with restrictive circumstances and rejoin the programme later (subject to relevant registration procedures). 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 which are approved by the Ministry of Higher 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

## ACADEMIC & PROFESSIONAL RECOGNITION

- Approved by the University Grants Commission under the Universities Act / Ministry of Higher Education in Sri Lanka (MOHE)
- Member of the Association of Commonwealth Universities (ACU)
- Member International Association of Universities (IAU)
- This degree allows students the following options, upon successful completion of the prescribed modules

**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



**FACULTY OF ENGINEERING**



# CIVIL ENGINEERING

The four-year course of studies 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 long vacations of 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

## CIVIL ENGINEERING IS A :

Professional engineering discipline dealing with the design, construction and maintenance of the physical and built environment

Concerned with works such as: buildings, roads, railways, bridges. Dams, reservoirs, tunnels, water ways, underground structures, ports and off – shore structures.

An excellent blend of scientific and engineering fundamentals, and essential practical skills.

Problem and project – based learning is a key feature of the degree programme.

Enhances creative, innovative and team – work skills.

Includes project work based on laboratory experiments, library research, field work and partial assessments completed through seminars.

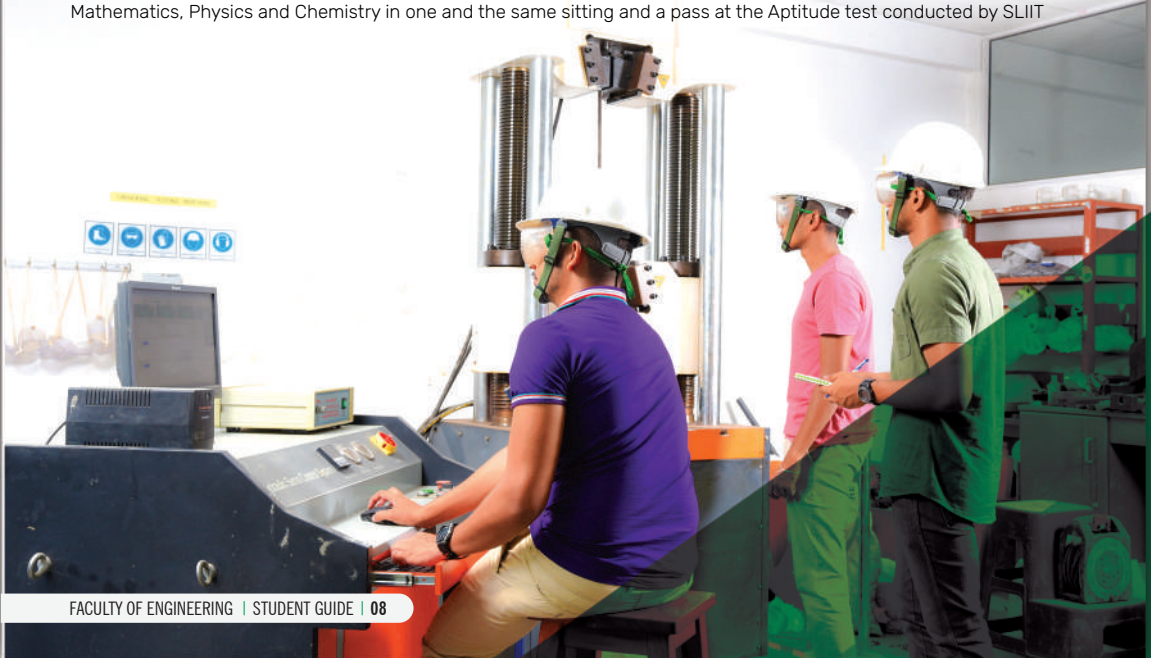
Students also undergo six months of compulsory industrial training at the end of their 2nd and 3rd years respectively, split into two periods of three months each.

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

- Structural Engineering (SE)
- Geotechnical Engineering (GE)
- Environmental Engineering (EE)
- Transportation Engineering (TE)
- Water & Environmental Engineering (WE)
- Construction Engineering (CE)

## 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 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	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

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	Projection 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	Sustainable 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 Academic Department

# ELECTRICAL & ELECTRONIC ENGINEERING

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

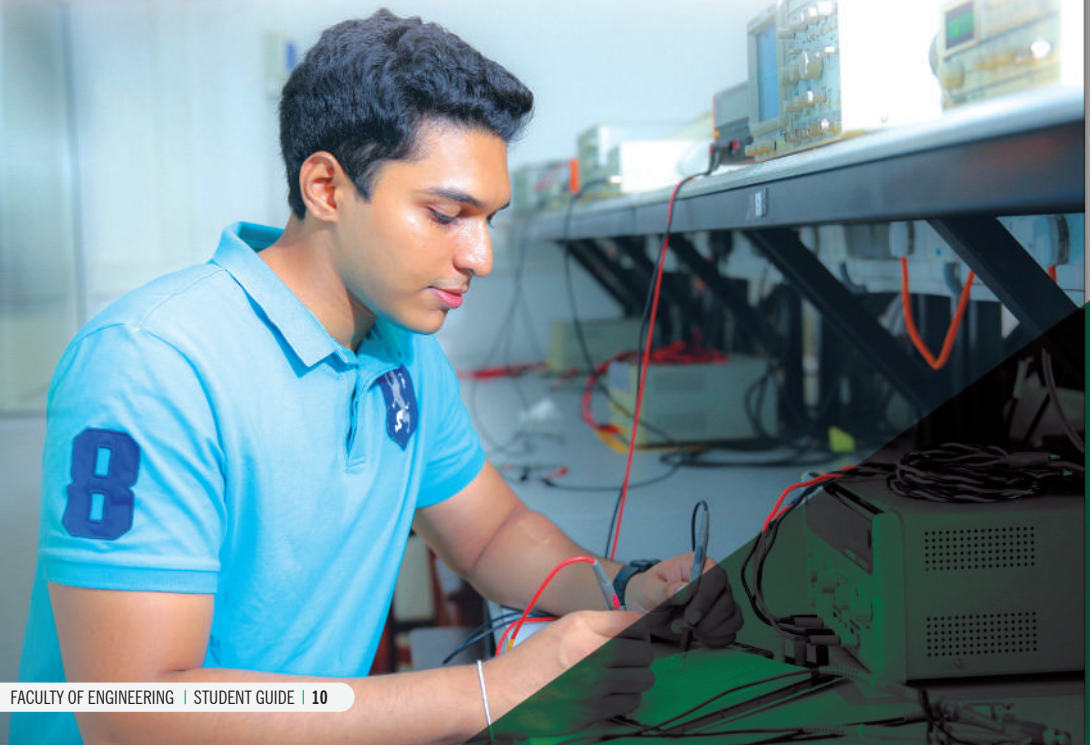
## STUDENTS MAY ALSO USE THE FINAL YEAR TO PURSUE SPECIALISED OPTIONS IN:

- 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 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

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
Two Electives	
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
Three Electives	
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

*\* Electives to be chosen with the prior approval of the Academic 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.

## Mechanical Design Specialisation

There is a growing demand for materials engineers who can design products making the best use of materials. The Mechanical Design specialisation is aimed at producing materials engineers who are also equipped with design skills

## CAREER OPPORTUNITIES

- Materials Engineer
- Polymer Engineer
- Composite Engineer
- Materials Processing Engineer
- Failure Analysis Engineer
- Corrosion Engineer
- Materials Performance Engineer
- Metallurgist
- 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
- Magnetic Materials
- Energy Materials
- Electronic Materials
- Materials modelling
- High Temperature Materials
- Bio – 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 (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	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

CE2721	Fluid Mechanics and Thermodynamics	04
ME2011	Mechanics of Solids I	03
MT2020	Metals & Alloys	03
MA2302	Engineering Mathematics III	03
ME2021	Mechanics of Machines I	04
MT2010	Material structure and defects	04

## 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 II	04
MT3010	Plastics & Rubber	03
ME3100	Manufacturing Processes II	03
MT3030	Construction & Building Materials	03
ME3041	Mechanics of Machines II	04
MT3020	Phase transformation and Kinetics	04
CE3910	Humanities II	

## SEMESTER 02

MT3040	Corrosion Engineering	03
MT3050	Nanomaterials & Nanotechnology	03
ME3081	Engineering Management	03
ME3091	Law for Engineers	03
MT3070	Welding & Joining Processes	03
ME3052	Mechanical Design II	03
MT3060	Composite Materials	03
MT3080	Industrial Training II	04

## YEAR FOUR SEMESTER 01

MT4010	Materials 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
ME 4081	Computer-aided design and manufacture	03
ME 4050	Computer-aided engineering	03

## SEMESTER 02

MT4080	Materials 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
ME4160	Product Design	03
ME4140	Design for Manufacture	03

•Electives to be chosen with the prior approval of the Academic 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
  - Design and Manufacturing
  - Industrial Engineer
  - University Lecturer
  - Automobile Engineer
  - Maintenance Engineer
  - Thermal Engineer
  - Entrepreneur
  - Researcher
- Mechanical Engineering is a pioneering and broadest field of Engineering and presently diversified into several specialities.
  - 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 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	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

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 Humanities I	03
Industrial Training Part 1		
ME2911	Industrial Training I	

## YEAR THREE

### SEMESTER 01

ME3011	Thermal Engineering Processes	03
ME3100	Manufacturing Processes II	03
ME3031	Mechanics of Solids II	04
ME3041	Mechanics of Machines II Humanities II	04

### 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 Part 2		
ME3911	Industrial Training II	

## YEAR FOUR

### SEMESTER 01

ME4010	Mechanical Engineering Project I	04
ME4071	Production and Operations Management	03
ME4111	Industrial Management and Marketing	03
3 Elective Modules from the following:		
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

ME4120	Mechanical Engineering Project II	04
ME4131	Professional Practice	03
ME4181	Industrial Engineering	03
3 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
ME4220	Automotive Engineering	03

*\* Electives to be chosen with the prior approval of the Academic 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 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 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	Engineering Mechanics	04
ME1010	Engineering Design and Processes	04
EC1021	Electrical Systems	03
MA1302	Engineering Mathematics I	03
EL1202	English Language Skills I	02
CE1912	Introduction to Sustainable Engineering	02

### SEMESTER 02

ME1030	Engineering Skills Development	03
ME1040	Engineering Principles and Communication	04
MT1010	Materials Engineering	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 Conversion	03
ME2620	Manufacturing Technology	03
ME2650	Mechatronics Design Project II	03
	Humanities I	
	Industrial Training I	

## YEAR THREE

### SEMESTER 01

ME3520	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	
ME3911	Industrial Training II	

## YEAR FOUR

### SEMESTER 01

ME4560	Mechatronic Engineering Project I	04
ME4521	Advanced Automation Systems	03
ME4071	Production and Operations Management	03
ME4111	Industrial Management and Marketing	03
EC4012	Power Electronics and Drives	03
ME 4541	Robotics and Autonomous Systems	03
ME 4630	Artificial Intelligence and Machine Learning	03
ME 4650	Industrial Machine Vision	03
EC4432	Embedded Systems Engineering II	03
ME4091	Energy Technology and Sustainability	03

### SEMESTER 02

ME4590	Mechatronic Engineering Project II	04
ME4181	Industrial Engineering	03
ME4131	Professional Practice	03
EC4482	Computer Vision and Image Processing	03
ME4150	Automatic Control II	03
ME 4550	Object Oriented programming for Mechatronics Engineers	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 Academic 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.

<i>Duration</i>	: 3 Years
<i>Entry</i>	: January / June
<i>Location</i>	: Malabe
<i>Offshore</i>	: Weekdays / Weekend
<i>Examinations</i>	: Weekdays / Weekend

## ENTRY REQUIREMENTS

- GCE Advanced Level (Any Stream ) - 3 simple passes (Local Curriculum)
- Minimum 3 "D" passes (Cambridge / Edexcel curriculum)
- "C" Pass for Mathematics and English at GCE Ordinary Level
- A pass in the Aptitude Test conducted by SLIIT



## YEAR ONE SEMESTER 01

QS1511	Construction Technology 1	04
QS1521	Science and Material	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 Application for Quantity Surveying II	04

## YEAR TWO SEMESTER 01

QS 2531	Construction Technology 2	04
QS 2721	Construction Project Management	04
QS 2550	Land Surveying	02
QS 2111	Advanced Measurement and Contract Administration	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	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 Academic Department*

# INTERNATIONAL DEGREE PROGRAMMES TO COMPLETE AT SLIIT



Curtin University

## BEng (Hons) CIVIL & CONSTRUCTION ENGINEERING

**CRICOS CODE: 072467B**

Civil engineers design and construct infrastructure such as bridges, roads, harbours, highways, dams, irrigation and water supplies, hydro-electric projects, tall buildings and other large structures. As our built environment becomes increasingly complicated, ambitious construction projects can only be completed by teams of people with different skills. The civil engineer is important in this process.

In this degree you will learn to apply your basic engineering knowledge to structural analysis and design, materials, geotechnical engineering, construction engineering, hydraulics and professional practice. In your final year you will consolidate these engineering skills to the level of an engineering graduate. Speciality options include the environment, transport, public health or advanced structural design.

## BEng (Hons) ELECTRICAL & ELECTRONIC ENGINEERING

**CRICOS CODE: 072467B**

Electronic engineering is one of the fastest growing technology area internationally, and job opportunities in this field abound. With the rapid progress of the information society, the role of electronic communication and embedded systems (Internet of Things or IoT) is becoming even more crucial to increase industry efficiency and competitiveness.

In this specialisation you will learn about the theoretical and practical aspects of modern digital, electronic and communication systems. You will study power generation and distribution, electrical machines, electronics and power quality, as well as renewable energy sources, alternative fuel systems and future energy infrastructures. In your final year of study, you will undertake a major research or design project.

## BEng (Hons) MECHANICAL ENGINEERING

**CRICOS CODE: 072467B**

Mechanical engineers analyse and develop technological systems that involve motion. They help society to harness the energy and forces that exist in nature. This course is designed to provide you with learning and skill development opportunities with hands-on experience. You will learn how to apply your knowledge and skills to invent or develop solutions to a wide range of exciting and challenging problems in industry.

You will appreciate the applicability of the multidisciplinary problem-solving skills of a mechanical engineer across areas of science and wide spectrum of engineering endeavours that extends all the way to biomedical engineering. In your final year you will undertake an individual design or research project.

## BEng (Hons) MECHATRONIC ENGINEERING

**CRICOS CODE: 072467B**

Mechatronic engineers work at a interface of mechanical devices and electronic control systems. With ever-increasing reach of robotics and autonomous systems, mechatronics engineers are found in diverse industries including aerospace, agriculture, biotechnology mining and energy resources. As the number of industries that are innovating through digital Technologies grows, so do the opportunities for mechatronic engineers. Rapid advances in automation applications - Such as self-driving vehicles and mine sites automation - are driving an increased need for mechatronic engineers with expertise in Mechanical, electronic and computer systems engineering.

As a mechatronic engineering student, you will develop Sound theoretical knowledge in the key disciplines of mechanics, electronics, computer systems and control. you will apply this knowledge and develop practical skills through a series of projects on topics including mobile robot communications and automation, pneumatic automation systems and machine control.

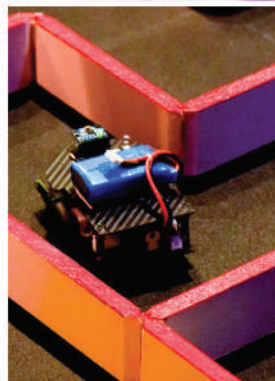


# ROBOFEST



ROBOFEST is the annual robotic competition which involves one of the most important academic aspects of the Department of Electrical and Electronic Engineering of Sri Lanka Institute of Information Technology. The main goal of SLIIT ROBOFEST is to inspire and give the future minds the opportunity in designing, building and adapting to the new technologies with the advancements and evolutions of the world of robotics enhancing their theoretical and practical knowledge. The competition was initiated in the year of 2010 where the participants were limited to the students of SLIIT and afterwards it was expanded under 3 categories; School, University and Open, opening up the opportunities for anyone who is interested in the competition to participate.

Having more than 130 school registrations and more than 50 university registrations for the last year's competition reflected the interest of the young inventors as well as the enthusiasm of the industrial personnel towards the world of robotics during the past few years. This year, the department of Electrical and Electronic Engineering of Faculty of Engineering of SLIIT proudly organizes the Robofest 2020 for the 11th consecutive year, with standards of an international level competition. Similar to the years before, ROBOFEST 2020 is organized focusing on all the students in schools and undergraduates around the country, paving the path for them to follow their passion where the students are allowed to compete in teams of 5 members, giving all the registrants the exposure and the chance to show their talents and potential on the day of the competition, opening up the door for them to achieve international levels.



# FACULTY OF ENGINEERING UNIQUE SELLING PROPOSING

- 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.

## CAREER OPPORTUNITIES INCLUDE

- Civil Engineers, Highway Engineers and Environmental Engineers in design, construction and planning
- Electrical and Electronics Engineers in Computer Systems Engineering, Electrical Engineering, and Robotics & Automation
- Mechanical and Mechatronics engineers in design, fabrication and operations
- Materials engineers in design, manufacturing and Nano-materials
- Quantity Surveyors
- Managerial positions

## HEADS OF DEPARTMENTS



### PROF. AYANTHA GOMES

**HEAD, DEPARTMENT OF CIVIL ENGINEERING**

BSc (Eng) Hons (Moratuwa), MSc (Moratuwa), PhD (Saitama University, Japan)



### DR. NIMSIRI ABHAYASINGHE

**HEAD, DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING**

BSc. Eng (Moratuwa), MSc (Moratuwa), PhD (Curtin), MIEEE



### 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.	Saman Thilakasiri	BSc Eng(Hons) (Moratuwa), MSc (Lond. UK), PhD (USF, USA)	Dean
Prof.	Ernest Chulantha Kulasekere	BSc (Moratuwa), MSc (Miami, USA), PhD (Miami, USA)	Associate Dean/Professor
Dr.	Dr. Nimsiri Abhayasinghe	BSc. Eng. (Moratuwa), MSc. (Moratuwa), PhD (Australia)	Head/Electrical & Computer Engineering
Prof.	Migara Liyanage	BSc Eng (Hons) (Peradeniya), MEng (AIT, Thailand) PhD (Newfoundland, Canada)	Head/Associate Professor
Dr.	Dr. Mudith Karunaratne	BSc Eng (Hons) (Moratuwa), PhD (Cambridge, UK)	Head/Senior Lecturer (HG)
Prof.	Ishan Gomes	BSc Eng(Hons) (Moratuwa), MSc (Moratuwa) PhD (Saitama, Japan)	Head/Professor
Dr.	Wimal Siri	BSc Eng (Hons) (Moratuwa), PhD (New Castle UT, UK)	Head/Senior Lecturer (HG)
Mr.	Mr. Charith Sucharitharathna	BSc (Hons) (SLIIT), MSc (SHU, UK)	Lecturer
Dr.	Dr. Rohana Thilakumara	BSc (Hons) (Moratuwa), PhD (Bristol, UK)	Senior Lecturer(HG)
Dr.	Dr. Lasantha Seneviratne	Beng (Hons) (QMUL), PhD (QMUL, UK)	Senior Lecturer(HG)
Dr.	Dr. Lakmini Malasinghe	M.Eng (Hons) (Nottingham, UK), MSc (Moratuwa), PhD	Senior Lecturer (Higher Grade)
Prof.	Prof. Sunil Perera	BSc (Hons) (Moratuwa), MSc, PhD (AIT, Thailand)	Senior Professor
Dr.	Gobithas Tharmarajah	BSc (Moratuwa), PhD (QUB, UK)	Senior Lecturer(HG)
Ms.	Subashini De Silva	Beng (Hons) (SHU, UK), MSc (Colombo)	Lecturer
Prof.	Shiromi Karunaratne	BSc (Moratuwa), M.Eng. (Saitama, Japan), PhD (Saitama, Japan)	Professor
Prof.	Niranga Amarasinghe	BSc. Eng (Moratuwa), MSc. Eng (TU, Thailand) , PhD (KSU, USA)	Associate Professor
Ms.	Chamanthi Rodrigo	B.Eng (Hons) (Wolverhampton, UK), MSc (SHU, UK)	Lecturer
Dr.	Samantha Wijewardane	BSc (Moratuwa), MEng (Moratuwa), PhD (South Florida, USA)	Senior Lecturer(HG)
Mr.	Susantha Wanniarachchi	BSc Eng (Moratuwa), Mphil (Moratuwa)	Senior Lecturer
Ms.	Gayashika Fernando	BSc (Peradeniya), MEng (Moratuwa)	Senior Lecturer
Dr.	Thilanka Perera	BSc Eng(Hons) (Moratuwa), Mphil (Moratuwa), PhD (Saitama, Japan)	Senior Lecturer(HG)
Prof.	Samanka Perera	BSc Eng (Hons) (Moratuwa), PhD (Loughborough,UK)	Associate Professor
Dr.(	Minhua Ding	BSc Eng, MSc Eng (Beijing, China), PhD (Queens, Canada)	Senior Lecturer(HG)
Ms.	Sachini Kandawala	BSc (Hons) (SLIIT), MSc (SLIIT)	Lecturer

Ms.	Thilini Amarasooriya	BSc (Southeast Missouri, USA)	Lecturer
Ms.	Vajira Edirisinghe	BSc Eng (KDU)	Senior Lecturer
Ms.	Samanthi De Silva	BSc (Salford, UK)	Lecturer
Dr.	Nihal Somaratna	BSc Eng (Peradeniya), MSc (Illinois, USA) PhD (Illinois, USA), C.Eng, MIE (SL)	Senior Lecturer (HG)
Mr.	Pamuditha Coomasaru	PGD (Colombo), MBS (Colombo)	Lecturer
Mr.	Madawa Herath	BSc Eng (Moratuwa), MBA (J'pura)	Senior Lecturer
Prof.	Upaka Rathnayake	BSc Eng(Hons) (Peradeniya), M.Eng (Hokkaido, Japan) PhD (Strathclyde, UK)	Associate Professor
Dr.	Asiri Kulathunga	BSc (Hons) (Moratuwa), PhD (NTU, Singapore)	Senior Lecture (HG)
Ms.	Nishanthi Gunarathna	BSc (Moratuwa), MA (Colombo)	Lecturer
Dr.	Sujeewa Hettiwatte	BSc Eng (Moratuwa), MEng (Moratuwa), PhD (UMIST)	Assistant Professor
Mr.	Kumudu Gamage	BSc Eng (Peradeniya), MSc (NTU, Singapore)	Senior Lecturer
Ms.	Chamari Allis	BSc (Moratuwa)	Lecturer
Dr.	Thilini Rajakaruna	BSc (Peradeniya), PhD (Surrey)	Senior Lecturer (HG)
Mr.	Velauthapillai Sanathanan	BSc Eng (Peradeniya ) MSc in Civil Eng (NUS), Chartered Eng. MISTruCE,	Senior Lecturer
Ms.	Himasha Abeysiriwardena	BSc Eng (Hons) (Moratuwa), Pg. Dip (Moratuwa), MSc (Manchester)	Lecturer (Tenure Track)
Dr.	Chinthana Hettiarachchige	BSc (Missouri), MSc, PhD (Wichita)	Senior Lecturer (HG)
Mr.	Namal Anuradha	BSc (Moratuwa)	Lecturer (Tenure Track)
Dr.	Himali Madushani Kanchanamala	BSc (Peradeniyi), MSc, PhD (New Mexico)	Senior Lecturer (HG)
Ms.	Laksala Wijekoon	BSc, MBA (Moratuwa)	Senior Lecturer
Mr.	Hemantha Bandara	Senior Lecturer	
Mr.	Daminda Hewage	Senior Lecturer	
Mr.	Don Denuwan Chamara	BSc (AIT, Thailand), MSc (Moratuwa)	Lecturer (Tenure Track)
Ms.	Achini Ranasinghe	BSc. Eng (Hons) (SLIIT), MSc (AIT, Thailand)	Lecturer (Tenure Track)

# 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				



# WHAT'S NEXT?

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](http://apply.sliit.lk)

**Option 02:**

Download the application form [apply.sliit.lk](http://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

# 011 754 4801

[www.sliit.lk](http://www.sliit.lk)

[info@sliit.lk](mailto:info@sliit.lk)

*"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."*



• **SLIIT MALABE CAMPUS**

New Kandy Road,  
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Fax : +94 11 241 3901

• **SLIIT METROPOLITAN CAMPUS**

BoC Merchant Tower  
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Colombo 03.

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Fax : +94 11 230 1906

• **SLIIT MATARA CENTRE**

No. 24, E.H.Cooray Building,  
Anagarika Dharmapala Mawatha,  
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• **SLIIT KANDY CENTRE**

No 670/1/1A,  
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Tel : +94 81 238 7888

• **SLIIT KURUNEGALA CENTRE**

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Kurunegala.

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**SLIIT UNI**

THE KNOWLEDGE UNIVERSITY