The Open University of Sri Lanka

The Open University of Sri Lanka (OUSL) was established in 1980 under the University Act No.16 of 1978. It has the same legal and academic status as any other national university of Sri Lanka. As per the Public Administration Circular No. 16/92, dated 13/03/1992, issued by the Ministry of Public administration, Provincial Councils and Home affairs, the degrees awarded by the OUSL are treated as equivalent to degrees awarded by other universities under the purview of the University Grant Commission (UGC).

The Open University of Sri Lanka has become one of the pioneers of Open and Distance Learning (ODL), where students may pursue further education through distance education techniques. Six (06) regional centres and 19 study centres distributed throughout the country provide support services required by Faculties to conduct their academic programmes.

Facilities available….

- Library facilities
    - Main library at Colombo Regional Centre and libraries at other Regional Centres.
    - Well-equipped Audio-Visual Resource Centre (AVRC) at the main library.

- Elementary Computer Labs
    - Free computer facilities available at a number of Regional and Study Centres.

- Laboratories
    - Laboratory sessions for courses up to level 3 and a few higher level courses conducted at most Regional Centres and selected Study Centres.
    - For higher level courses, laboratories with modern equipment are available at Colombo Regional Centre.

- Student Counseling, Temporary Residential Facilities, Canteens at some Regional centres.

Faculty of Engineering Technology (FET)

- One of the four Engineering Faculties in the national university system and offers programmesin line with Sri Lanka Qualifications Framework (SLQF) ranging from Certificate to Doctoral level
- Pioneer in delivering Distance Education Courses in Engineering for over 25 years
- State-of-the-art laboratory facilities to cater for the demand of expanding industry in Sri Lanka
- On-line courses and supplementary materials through National On-line Distance Education Service (NODES)
- Computer and internet access for students through island-wide NODES Access Centres (NACS)
- Highly qualified academic staff members along with support staff

Academic departments in FET

- Agricultural and Plantation Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Mathematics and Philosophy of Engineering
- Mechanical Engineering
- Textile and Apparel Technology

Recognition of programmes offered by the FET

- Government recognition for degrees through Public Administration Circular No. 16/92 dated 13 March 1992
- Professional recognition by Institution of Engineers Sri Lanka (IESL) for BTech(Eng) Degree on par with BSc Engineering Degrees from Moratuwa and Peradeniya Universities
- Public and Private sector recognition for Degrees/Diplomas/Certificates

Programme Fees

The fees payable by a registered student includes, registration fee, facilities fees, exemptions fees (if applicable) library fees and the tuition fees. Based on the 2014/15 fee structure, the approximate total fees for various programmes are as follows:

Certificate in Industrial Studies(1 year Programme) - Rs. 50,000
Diploma in Industrial Studies (2 year Programme)–Rs. 100,000
Bachelor of Industrial studies(4 year Programme) – Rs. 200,000
Diploma in Technology (2 year Programme) – Rs. 125,000
Bachelor of Technology(4 year Programme) – Rs. 250,000
Bachelor of Software Engineering (3 year programme) – Rs. 225,000

Please note that the fees may be subject to change in subsequent years. A detailed and more accurate fee structure will be available in the Student Guidebook.

Financial Assistance

The University has limited number of bursaries, including Mahapola Scholarships, University bursaries etc., to help students who are in need of financial assistance to continue with their studies. However, please note that these bursaries will be available on merit basis after completing the first year in the University.

Certificate Programmes

Certificate Programme in Industrial Studies in Small Scale Renewable Energy Systems

Compulsory course content

Introduction to small scale renewable energy systems
Social, environmental, economic and legal aspects of sustainable energy use
Energy saving methods
Basic mathematics & science

Entry qualifications: Pass G.C.E (O/L)
Medium: Sinhala
Duration: 1 year
For more information Call: 011 2881 109

Certificate in Industrial Studies in Animal Husbandry and Aquaculture

Compulsory course content

Fundamentals of Biology
Methods of increasing productivity of farm animals
Fish and shellfish farming
Technology of agriculture production
Integrated farming systems
Processing an preservation of farm products
Farm practices

Entry qualifications :G.C.E. (O/L) with at least 6 passes
Medium: Sinhala/Tamil
Duration: 1 year
For more Information contact: 011 2881 315/011 2881062

Certificate in Industrial Studies in Apparel Technology

Compulsory courses

Mathematics and science for textile and apparel
Introducing textiles
Apparel technology
Laboratory practice and industrial exposure

Entry qualifications: Pass in G.C.E. (O/L) is recommended
Medium: Sinhala/English
Duration: 1 year

Degree Programmes – Technology (Engineering)

Entry qualifications: Pass in 3 subjects in G.C.E (A/L) mathematics stream **OR** Pass in Foundation courses for Technology at the OUSL. (Holders of higher qualifications such as NDT, NDES, HNDE or similar higher qualifications may be admitted at higher levels, depending on the exemptions granted. Those who enter through higher qualifications may complete the programme in lesser time period than the stipulated minimum duration)

Medium: English

Minimum duration:4 years (Including the Diploma 2 years)

After completion of the first two years, a student can obtain the Diploma in Technology certificate, provided all training modules have been fulfilled.

Bachelor of Technology in Civil Engineering

Compulsory courses

Degree	Diploma	Year 1	Engineering Mathematics IA
			Engineering Mathematics IB
			Communicating Engineering Information
			Basic thermo fluids
			Electro Techniques
			Construction Materials
			Structural Analysis and Design I
			Strength of Materials
		Year 2	Hydraulics & Hydrology
			Surveying I
			Soil Mechanics & Introduction to Rock Mechanics
			Structural Analysis and Design II
			Construction Engineering & Planning
			Engineering Mathematics II
		Year 3	Surveying II
			Mechanics of Fluids
			Engineering Geology
			Structural Analysis
			Geo-technics
			Engineering mathematics III
		Year 4	Construction Engineering & Management
			Structural Design
			Environmental Engineering
			Final year Project (Civil)

Training Modules

Workshop Practice

Industrial Training I (Diploma)

Industrial Training II (Bachelor)

Bachelor of Technology in Electrical Engineering

Compulsory courses

Degree	Diploma	Year 1	Engineering Mathematics IA
			Engineering Mathematics IB
			Communicating Engineering Information
			Thermo-fluids
			Electronics I
			Electro-techniques
			Electrical Circuits & Measurements
			Communications & Information Technology
		Year 2	Engineering Mathematics II
			Electronics II
			Electrical Installation
			Microprocessors & Interfacing
			Electrical Machines
			Power Systems I
			Control Systems Engineering
		Year 3	Engineering Mathematics III
			Network Theory
			Power Systems II
			High Voltage Engineering & Electrical Machines
		Year 4	Field Theory
			Power System Planning
			Project (Group Project / Literature Survey & Individual project-Type A / Individual project-Type B)

Training Modules

Workshop Practice

Industrial Training I (Electronics)

Industrial Training II (Power) / Industrial Training (Power Undergraduate)

Bachelor of Technology in Computer Engineering

Compulsory courses

Degree	Diploma	Year 1	Engineering Mathematics IA
			Engineering Mathematics IB
			Communicating Engineering Information
			Basic Thermo-fluids
			Electronics I
			Electro-techniques
			Electrical Circuits & Measurements
			Electrical Power
			Communications & Information Technology
		Year 2	Engineering Mathematics II
			Discrete Mathematics I
			Electronics II
			Data Structures & Algorithms
			Microprocessors & Interfacing
			Software Engineering
		Year 3	Engineering Mathematics III
			Discrete Mathematics II
			Data Communication
			Operating Systems
			Computer Architecture
		Year 4	Digital Electronic Systems
			Compiler Design
			Processor Design
			Project (Group Project / Literature Survey & Individual project-Type A / Individual project-Type B)

Training Modules

Workshop Practice

Industrial Training I (Electronics)

Industrial Training II (Software) /Industrial Training (Software Undergraduate)

Bachelor of Technology in Electronic & Communication Engineering

Compulsory courses

Degree	Diploma	Year 1	Engineering Mathematics IA
			Engineering Mathematics IB
			Communicating Engineering Information
			Basic Thermo-fluids
			Electronics I
			Electro-techniques
			Electrical Circuits & Measurements
			Electrical Power
			Communications & Information Technology
		Year 2	Engineering Mathematics II
			Fault Diagnosis in Electronic Circuits
			Electronics II
			Communications
			Microprocessors & Interfacing
			Control Systems Engineering
		Year 3	Engineering Mathematics III
			Communication Theory & Systems
			Data Communication
			Physical &Opto Electronics
		Year 4	Field Theory
			Analog Electronic Systems
			Digital Electronic Systems
			Microwave Engineering & Applications
			Project (Group Project / Literature Survey & Individual project-Type A / Individual project-Type B)

Training Modules

Workshop Practice

Industrial Training I (Electronics)

Industrial Training II (Software) /Industrial Training (Software Undergraduate)

Bachelor of Technology in Mechanical Engineering

Compulsory courses

Degree	Diploma	Year 1	Engineering mathematics IA
			Engineering mathematics IB
			Electro-techniques
			Communicating engineering information
			Workshop technology
			Engineering drawing
			Thermo-fluids
			Electronics, sensors and actuators
		Year 2	Engineering mathematics II
			Strength of materials I
			Mechanics of machines
			Materials engineering
			Microprocessors and interfacing
			Minimum of two from:-
			Production technology
			Production management
			Automobile technology
			Applied automotive electronics
		Year 3	Engineering mathematics III
			Applied thermodynamics
			Strength of materials II
			Dynamics of mechanical systems
			Machine design
		Year 4	Industrial engineering
			Fluid mechanics
			Individual project/Group project/Project identification & literature survey (Mechanical) and Individual project
			Minimum of two from:-
			Automobile engineering
			Vehicle dynamics
			Mechanics of materials
			Advanced manufacturing technology
			Thermal power generation
			New and renewable sources of energy
			Factory automation
			Robotics

Training Modules

Workshop Practice

Industrial Training I (Mechanical)

Industrial Training II (Mechanical)

Bachelor of Technology in Mechatronics Engineering

Compulsory courses

Degree	Diploma	Year 1	Engineering mathematics IA
			Engineering mathematics IB
			Electro-techniques
			Communicating engineering information
			Thermo-fluids
			Applied electronics
			Modelling of mechatronics systems
			Principles of design
			C programming
		Year 2	Engineering mathematics II
			Sensors and actuators
			Vibration and faults diagnosis
			Mechatronics product design
			Microprocessors and interfacing
			Controls systems engineering
			Applied mechanics and strength of materials
		Year 3	Engineering mathematics III
			Power electronic and motor drives
			Machine vision
			Materials and manufacturing technology
			Dynamics of mechanical systems
		Year 4	Factory automation
			Robotics
			Advanced control engineering
			Mechatronic product design project (Individual) or
			Mechatronic product design Project (Group)

Training Modules

Workshop Practice

Industrial Training I (Mechanical)

Industrial Training II (Mechanical)

Bachelor of Technology in Textile and Clothing Engineering

Compulsory courses

Degree	Diploma	Year 1	Engineering mathematics IA
			Engineering mathematics IB
			Electro techniques
			Communicating engineering communication
			Basic thermo fluids
			Fiber science and technology
			Garment analysis and sewing machinery
			Production planning and organization
		Year 2	Textile coloration
			Quality assurance for textiles and clothing
			Garment manufacture
			Woven fabric technology
			Yarn manufacture I
			Knitting technology
			Engineering mathematics II
			Control systems engineering
			Mechanics of machines
		Year 3	Yarn and fabric mechanics
			Plant utilities
			Pattern development
			Textile management and merchandising
			Engineering mathematics III
		Year 4	Individual project-Type B (Textile and Apparel)/Group project – (Textile and apparel)/Project identification and literature survey AND Individual project – Type A (Textile and apparel)

Training Modules

Workshop practice

Any two from

Industrial training (Apparel I)

Industrial training (Yarn manufacture)

Industrial training (Weaving)

Industrial training (Chemical processing)

Industrial training (Knitting)

Bachelor of Software Engineering

Entry qualifications: Pass in 3 subjects in G.C.E (A/L) in any stream except General English/General IT /Pass in 36 credits from any foundation programme of the OUSL /Equivalent qualification accounting to 36 credits rated by an exemption evaluation committee **AND** One year tertiary level qualification **AND** Passing a selection test.

Medium: English

Duration: 3 years

Compulsory course content
Introduction to Computing
Mathematics for Computing
Networking & Web Technology
Data Modeling & Database Systems
Object Oriented Design & Programming
Data Structures & Algorithms
Software Engineering Concepts
Communication Skills for Engineers
Discrete Mathematics I
Probability & Statistics
Human Computer Interaction
Software Quality Assurance & Testing
Computer Organization & Operating Systems
Management & Professional Issues
Discrete Mathematics II
Software Project Management
Software Architecture & design
Software Construction
Group Project

Training Modules
Industrial Training

For more information visit :www.ou.ac.lk/prog/bse
Call: 011 2881 081
Email: bse@ou.ac.lk
Call: 011 2881 081
Email: bse@ou.ac.lk

Degree Programmes – Industrial Studies

Bachelor of Industrial Studies in Agriculture

Compulsory courses

Degree	Diploma	Year 1	Crop Production and Farming Systems
			Agricultural Biology
			Land and Soil Tillage Management
			Postharvest Biology and Technology I
			Mathematics for Agriculture
			Bio Statistics
		Year 2	Integrated Crop Production
			Plant and Soil Science
			Design and Analysis of Experiments
			Agricultural Economics and Management
			Soil and Water Conservation / Industrial Training I (Agricultural)
		Year 3	Farm Power and Machinery
			Postharvest Biology and Technology II
			Soil Plant and Water Relationship
			Environmental Control in Farm Structures
			Hydrology and Water Resources
			Industrial Training II
		Year 4	Individual Project (Agriculture)

Entry qualifications:3 passes in science subjects at GCE(A/L) examination including Biology OR Any other equivalent or higher qualification

Medium: English

Duration: 4 years (Including the Diploma 2 years)

Bachelor of Industrial Studies in Apparel Production and Management

Compulsory courses

Degree	Diploma	Year 1	Fiber to fabrics
			Garment accessories
			Garment analysis and sewing machinery
			Pattern construction
			Production planning and organization
		Year 2	Quality assurance for textiles and clothing
			Garment manufacture
			Management studies
			Statistics for industrial studies
		Year 3	Plant utilities
			Current topics in textiles and clothing
		Year 4	Ergonomics
			Fabric technology
			Individual project-Type B (Textile and Apparel)/Group project – (Textile and apparel)/Project identification and literature survey AND Individual project – Type A (Textile and apparel)

Training Modules

Industrial Training I (Apparel I)

Industrial Training II (Apparel II)

Bachelor of Industrial Studies in Fashion Design and Product Development

Compulsory courses

Degree	Diploma	Year 1	Fiber to fabrics
			Garment accessories
			Garment analysis and sewing machinery
			Pattern construction
			Concepts of fashion
			Concepts of fashion design
			Fashion illustration I
		Year 2	Garment manufacture
			Process of fashion design
			Fashion Illustration II
		Year 3	Advanced pattern construction
			Design through draping
			Computer aided pattern drafting
			Computer aided fashion illustration
			Apparel merchandising
			History & traditions of clothing
			Fashion design project
		Year 4	Visual presentation and exhibition design
			Fashion marketing
			Inspiration of fashion design
			Creative fashion design

Training Modules

Industrial Training I (Fashion)

Industrial Training II (Fashion design and product development)

Bachelor of Industrial Studies in Textile Manufacture

Compulsory courses

Degree	Diploma	Year 1	Fiber science and technology
			Textile preparation
			Fabric structure and analysis
			Garment analysis and sewing machinery
		Year 2	Quality assurance for textiles and clothing
			Textile coloration and finishing
			Management studies
			Statistics for industrial studies
			Woven fabric technology
			Yarn manufacture I
			Knitting technology
		Year 3	Plant utilities
			Current topics in textiles and clothing
		Year 4	Technical textiles
			Textile product engineering
			Ergonomics
			Advanced coloration
			Specialty fabrics
			Individual project-Type B (Textile and Apparel)/Group project – (Textile and apparel)/Project identification and literature survey AND Individual project – Type A (Textile and apparel)

Training Modules (Any two)

Industrial training (Apparel I)
Industrial training (Yarn manufacture)
Industrial training (Weaving)
Industrial training (Chemical processing)
Industrial training (Knitting)

Entry qualifications for all Industrial Studies Degrees/Diplomas: Pass in any three subjects in G C E (A/L) examination or Completion of **Certificate in Industrial Studies – Apparel Technology at the OUSL or** Completion of **any Foundation course at OUSL** or **equivalent qualification** (Holders of higher qualification such as NDT, SLITA or Brandix Diploma may be admitted at higher levels depending on the exceptions granted. Those who enter through higher qualifications may complete the programme in lesser time period than the stipulated minimum duration)

Medium: English

After completion of the first two years, a student can obtain the Diploma in Technology certificate, provided all training modules have been fulfilled.

Postgraduate Programmes

Postgraduate Diploma in Technology in construction management

Compulsory courses

Planning and Control in the construction industry
Human resource management in the construction industry
Financial management and taxation in the construction industry
Estimating tendering and marketing in the construction industry
Construction contracts and claims
Law and the construction industry
Construction productivity and quantitative techniques
Cost control and cash flow in the construction industry
Management of the design phase and quality control
Management information systems for the construction industry

Entry qualifications: A degree of Bachelor of Technology (Engineering) in a relevant discipline from the OUSL OR A degree of Bachelor of Science of Engineering in relevant discipline form a recognized university OR Eligibility to become an Associate Member of the IESL or any other Membership of a Engineering Institution which is equivalent to Associate Membership of IESL**AND** Minimum of 2 years of relevant experience in the industry.
Medium: English
Minimum duration: 1 Year

Postgraduate Diploma in Technology in Industrial Engineering

Compulsory courses

Operations research
Business organisation and management
Industrial economics and accounting
Quality and reliability engineering
Production planning and materials management
Human resource management

Entry qualifications: A degree of Bachelor of Technology (Engineering) in a relevant discipline from the OUSL OR A degree of Bachelor of Science of Engineering in relevant discipline from a recognized university OR an Associate Membership of the IESL or any other Membership of a Engineering Institution which is equivalent to Associate Membership of IESL**AND** Minimum of 2 years of relevant experience in the industry.
Medium: English
Duration: 1 Year

Post Graduate Diploma in Apparel Production and Management

Compulsory course

Apparel manufacturing technology
Global outlook of textile and apparel industry
Human resource management and legal aspects for managing
Textile and apparel marketing
Management accounting and financial management
Supply chain management
Production planning
Quality management
Product development
Human factors engineering
Strategic management
Research methodology

Entry qualifications: Bachelor's degree in Textile or Apparel Technology or Bachelors degree of Industrial Studies or any other discipline. Those who possess professional qualifications in the field of Textile and Apparel Technology, CIMA, CIM Apparel Merchandising with appropriate additional credits are eligible to seek for provisional registration.
Further the student should also have minimum two years of post-qualifying experience in Industry.
Medium: English
Duration: 1 Year

Masters Programmes

Master of Technology in Construction management

Compulsory course content

Research project (The student should undertake a comprehensive research study and submit a Dissertation to successfully complete the programme)

Entry qualifications: Postgraduate Diploma in Technology in construction management
Medium: English
Duration: 1 year

Master of Technology in Industrial Engineering

Compulsory course content

Strategic management
Technology management
Maintenance management
Project management
Research project
Law and industry

Minimum of one from:-

Energy management in industries
Construction contracts and claims
Construction plant management and construction safety
Real estate and property development

Entry qualifications: Postgraduate Diploma in Technology in Industrial Engineering
Medium: English
Duration: 1 year

Master of Technology in Apparel Production and Management

Compulsory courses (Research Option)

Research project

Compulsory course content (Course Option)

Operation research
Project management
Management information systems
Research project Type A

Any three courses from

Management economics
Project appraisal
Construction contracts and claims
Technology management
Cleaner production for waste management
Energy management in industries
Law and industry

Entry qualifications: Postgraduate diploma in Apparel Production and Management
Medium: English
Duration: 1 year