



HANDBOOK

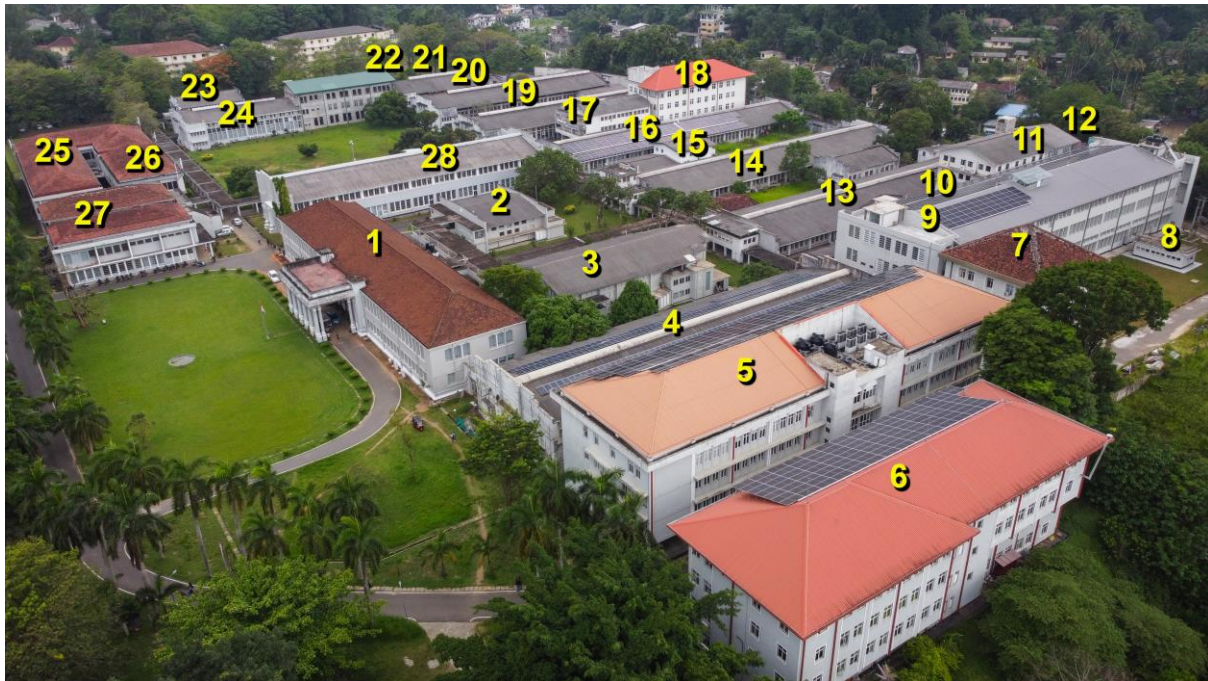
**BACHELOR OF THE SCIENCE OF
ENGINEERING HONOURS IN
ELECTRONIC & INTELLIGENT
SYSTEMS ENGINEERING**

2025

FACULTY OF ENGINEERING
UNIVERSITY OF PERADENIYA

PIONEERS IN ENGINEERING EDUCATION IN SRI LANKA

FACULTY OF ENGINEERING UNIVERSITY OF PERADENIYA



1. Administration building: Dean, Assistant Registrar, Assistant Bursar, Department of Civil Engineering and Department of Electrical and Electronic Engineering offices, Seminar Rooms 1-3, Conference Room, Audio-Visual Studio & Engineering Education Unit (EEU), PEFAA office, Faculty Boardroom, Senior Common Room, QA Cell.
2. Twin Lecture Halls 2 & 3, Security Office
3. E.O.E. Pereira Theatre
4. Drawing Office I, Lecture Halls 12-21
5. Department of Engineering Mathematics, Department of Engineering Management, Industrial Training and Career Guidance Unit (ITCGU), Computer Center, Network and Communication Services Unit (NCSU), Centre for Engineering Research and Postgraduate Studies (CERPS), English Language Teaching Unit (ELTU), Staff Canteen and Lecture Halls 22-30
6. Department of Chemical and Process Engineering
7. New Electrical and Electronic Engineering Laboratory
8. Car Park.
9. Department of Electrical and Electronic Engineering
10. Electrical and Electronic Workshop
11. Department of Computer Engineering
12. Professor WP Jayasekara High Voltage Laboratory
13. Geotechnical Engineering Laboratory, Surveying Laboratory
14. Materials Testing Laboratory, Metallurgy Laboratory
15. Environmental Engineering Laboratory
16. Fluid Mechanics Laboratory & Environmental Engineering Laboratory
17. Applied Mechanics Laboratory
18. Mechanical Systems Laboratory
19. Office of the Department of Mechanical Engineering, Applied Thermodynamics Laboratory
20. Engineering Workshops I
21. Engineering Workshops II

22. Car Park
23. Faculty Canteen
24. Department of Manufacturing and Industrial Engineering
25. Engineering Library and 24x7 Reading Room
26. Lecture Halls 10 & 11
27. Structures Laboratory, Lecture room 9, Male/Female washrooms
28. Drawing Office II, Lecture Halls 7 and 8, Engineering Design Center (EDC), Engineering Technology Incubation Center (ETIC), Examination Hall

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[Deputy Vice-Chancellor](#)

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[Civil Engineering](#)

[Computer Engineering](#)

[Electrical and Electronic Engineering](#)

[Engineering Management](#)

[Engineering Mathematics](#)

[Manufacturing and Industrial Engineering](#)

[Mechanical Engineering](#)

Administrative Staff

CONTACT INFORMATION

POSTAL ADDRESS

Faculty of Engineering
University of Peradeniya
Prof. E.O.E. Pereira Mawatha
Peradeniya 20400

TELEPHONE

Dean +94 81 2393300

Senior Assistant Registrar +94 81 2393301

Student Enquiries +94 81 2393306

FAX +94 81 2388158

E-MAIL

Dean dean@eng.pdn.ac.lk

Assistant Registrar ar@eng.pdn.ac.lk

Faculty website <https://eng.pdn.ac.lk/>

Departments

[Chemical and Process Engineering](#)
[Civil Engineering](#)
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VISION AND MISSION

Vision

Faculty of Engineering will be the centre of excellence in engineering education and research in South Asia. The best student representative of geographical and cultural diversity, academic staff of the highest caliber, and excellent learning and research environment will ensure academic excellence and highest professional standard, nationally and internationally.

Mission

The Mission of the Faculty of Engineering is to acquire, promote, develop and disseminate knowledge of engineering sciences and its application to improve the quality of life and, in particular, to equip present and future generations with skills and attitudes to attain competence as professional engineers, and to interact with industry and community for sustainable development of humankind.

THE FACULTY OF ENGINEERING, UNIVERSITY OF PERADENIYA

The Faculty of Engineering, University of Peradeniya is the first engineering faculty in Sri Lanka. It was founded in 1950 and shifted to the present location at Peradeniya in 1964. The Faculty of Engineering is one of the nine Faculties of the University of Peradeniya, the most prestigious and most comprehensive university in Sri Lanka, located in a salubrious environment on the banks of the Mahaweli River and at the foothills of the Hantana mountain range.

The Faculty maintains its long-standing reputation for excellence in engineering education. The nationally and internationally accredited curriculum of the four-year full-time undergraduate degree programme of the Faculty leads to the degree of the Bachelor of the Science of Engineering Honours (BScEngHons). The curriculum has been planned to offer the students a rich engineering education through technical courses and non-technical courses of cross-disciplinary breadth, laboratory and design experience, project work, fieldwork and industrial training. The first semester covers common courses to all students and the subsequent seven semesters are devoted to courses in one of the six specialization programmes of engineering; Chemical & Process, Computer, Civil, Electrical & Electronic, Manufacturing and Industrial and Mechanical Engineering. From the GCE Advanced Level 2025 onwards, the Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering (BScEngHons (Elnc & Intelligent Sys Eng)) degree program has been added where undergraduates will be added directly to the program through a separate window of Engineering by the University Grants Commission.

The Faculty also has several postgraduate programmes leading to Postgraduate Diploma, Master of Engineering, Masters Degree, Master of Science, Master of the Science of Engineering, Master of Philosophy and the Doctor of Philosophy. Postgraduate programmes are greatly supported by our collaborations with industry and several foreign universities. The Faculty keeps abreast with advancing technologies through research and development activities, staff training, hosting international conferences and meetings. Students and staff work closely with the industry through consultancy services, research projects, testing services and offering short courses and training programmes in various topics relevant to the industry.

There are eight established Departments of Study at the Faculty; Department of Chemical & Process Engineering, Department of Civil Engineering, Department of Computer Engineering, Department of Electrical & Electronic Engineering, Department of Engineering Mathematics, Department of Engineering Management, Department of Manufacturing and Industrial Engineering, and Department of Mechanical Engineering. The academic programmes and services are conducted by these Departments.

The academic departments are supported by the [Compur Centre](#) (CC), [Engineering Library](#), [Engineering Workshop](#), [Electrical and Electronic Engineering Workshop](#), [Engineering Education Unit](#) (EEU), [Industrial Training and Career Guidance Unit](#) (ITCGU), [English Language Teaching Unit](#) (ELTU) and the [Centre for Engineering Research and Postgraduate Studies](#) (CERPS). The [University Research Council](#) (URC) facilitates and funds the research coordinated through CERPS. In order to facilitate undergraduate, postgraduate and staff innovation and entrepreneurship, the [Engineering Technology Incubation Center](#) (ETIC) has been established and actively involved in commercializing innovation and research in the Faculty of Engineering.

Patenting the inventions and transferring technology developed to the industry are coordinated through the [Business Linkage Incubation, Innovation and Technology Transfer Office](#) (BLII-TTO) of the University of Peradeniya.

The [Engineering Design Center](#) (EDC) functions as the industry arm of the faculty providing consultancy services to the industries both national and international by providing expert professional services. Further it offers tailor made training programs designed to cater the needs of the industry.

In this residential university, students are blessed with a conducive environment to nurture rich human qualities, to broaden their horizons by interacting with fellow students of all the communities and all the faculties while enjoying student life. There are students from all parts of the country representing a wide cross section of society within this university. Moreover, engineering students have a proud tradition of active involvement in sports, societies and community services. Needless to say, all these provide an invaluable experience for the students in their future endeavours. Also, this welcoming experience from the diverse cultural and intellectual climate undoubtedly moulds them to live in harmony in our pluralistic society respecting social and cultural values and to be ethical citizens of Sri Lanka.

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UNDERGRADUATE PROGRAMME

In the rapidly evolving landscape of technology, the traditional boundaries of engineering disciplines are becoming increasingly blurred. The advent of intelligent systems, driven by advancements in artificial intelligence (AI), machine learning (ML), and robotics, has revolutionized various industries, from healthcare to manufacturing, and has permeated nearly every aspect of modern life. Recognizing this paradigm shift, it is imperative for engineering departments to adapt and evolve their educational offerings to prepare students for the challenges and opportunities of the future. Hence, the introduction of an Electronic & Intelligent Systems Engineering undergraduate program is not only timely but also crucial for maintaining the institution's relevance and leadership in the field of engineering education and research.

Addressing National Demands: Introducing Data Science and AI Engineering programs at the undergraduate levels has been one of the key recommendations of the AI task force setup by the government of Sri Lanka. The proposed Electronic & Intelligent Systems Engineering will be the first such program to launch in the history of Engineering education in Sri Lanka. Therefore, it inherits the first-mover advantages such as funding and resource acquisition in a limited resource environment.

Addressing Future Industry Demands: Electronic & Intelligent systems engineering has emerged as a pivotal field with high demand in state of the art as well as future global industry. Plants controlled electronically inherit intelligence thanks to the vast number of achievements in the field of AI where the machines have gained capacities to adapt to the environment and respond intelligently. Companies across diverse sectors are actively seeking engineers with interdisciplinary skills in electrical and electronic engineering, computer science, and robotics to develop innovative solutions. By offering a specialized program in Electronic and Intelligent Systems Engineering, we will be able to fulfill the growing demand for professionals equipped with the knowledge and skills necessary to design, implement, and optimize electronic and intelligent systems in various applications, including but not limited to power & energy, robotics & automation, telecommunication & IT, healthcare diagnostics, and industrial instrumentation & automation.

Interdisciplinary Nature: Electronic and Intelligent Systems Engineering inherently integrates principles from multiple engineering disciplines, including electrical & electronic engineering, computer engineering, mechanical engineering, and more. The Department of Electrical & Electronic Engineering, with its strong foundation in fundamental electrical principles and extensive experience in interdisciplinary collaborations, is well-positioned to lead the development of an interdisciplinary program that bridges the gap between traditional engineering disciplines. This program will provide students with a holistic understanding of systems where intelligence is integrated through electronics, enabling them to tackle complex real-world problems from a multidisciplinary perspective.

Innovation and Research Opportunities: Introducing an Electronic and Intelligent Systems Engineering program will foster a culture of innovation and entrepreneurship in the department. By leveraging our existing research infrastructure and faculty expertise, we can create unique opportunities for students to engage in cutting-edge research projects that push the boundaries of electronic systems technology through AI. Moreover, collaboration with industry partners and research institutions will not only enrich the learning experience but also facilitate technology transfer and commercialization of research outcomes, ultimately contributing to economic growth and societal impact.

Meeting Student Demand: As the demand for engineers with expertise in Electronic and Intelligent systems continues to rise, it is imperative that we provide our students with relevant and up-to-date educational programs that align with global industry trends and career opportunities. By offering an undergraduate program in Electronic and Intelligent Systems Engineering, we hope to attract high-caliber students who are passionate about exploring the frontiers of technology and eager to make meaningful contributions to society. Moreover, the versatility of skills acquired through this program will empower graduates to pursue diverse career paths in academia, industry, research, and entrepreneurship.

The 130 credit four-year full-time **Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering (BScEng Hons (Elnc & Intelligent Sys Eng))** degree programme at the Faculty of Engineering is a direct entry program. The selection to the program is done at the time of applying for university entrance at the University Grants Commission. Table 1 provides the core course, technical elective course and general elective course requirements of the program. The structure of the BScEng Hons (Elnc & Intelligent Sys Eng) degree programme is illustrated in Fig 1.



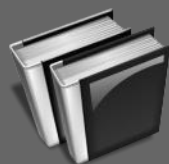
Table 1: Credits to be earned in each category of courses to earn the BScEng Hons (Elnc & Intelligent Sys Eng) degree

Courses/ Projects	Credits for BScEng Hons (Elnc & Intelligent Sys Eng) Degree
Core courses	94
Regular core courses and design project	88
Research project	06
Elective courses	30
Technical elective courses	15
General elective courses	15
Industrial Training	06
TOTAL	130



BACHELOR OF THE SCIENCE OF ENGINEERING HONORS IN ELECTRONIC & INTELLIGENT SYSTEMS ENGINEERING				
Semester 8	CORE COURSES	TECHNICAL ELECTIVES	GENERAL ELECTIVES	INDUSTRIAL TRAINING
Semester 7				
Semester 6				
Semester 5				
Semester 4				
Semester 3				
Semester 2				
Semester 1				
FOUNDATION PROGRAM				

Fig 1: Programme structure of the BScEng Hons (Elnc & Intelligent Sys Eng) program



DEPARTMENT OF CHEMICAL & PROCESS ENGINEERING

The department offers a BScEng Hons degree programme in the field of Chemical and Process (C&P) Engineering. Chemical and Process Engineering graduates have the knowledge, understanding and skills required for the safe, sustainable and economical design, modification, operation, control and the effective management of small- and large-scale physical, chemical and bioprocessing plants. The products from these plants are as wide ranging as refined fuels, chemicals, processed food, composite and specialized materials, electronics and pharmaceuticals.

The graduates of the department are conversant in the knowledge and skills required for working with refrigeration and air conditioning technology, combustion and emissions technology, sustainable processing technology, energy technology and environmental pollution control technology. They have the knowledge, understanding and skills required for the use of appropriate mathematical techniques, equipment, and pertinent software tools and appropriate programming languages.

Courses offered in the department are designed to prepare its graduates to be gainfully employed at petroleum refineries, chemical manufacturing facilities, pharmaceutical industry, food processing industry, biotechnology industry, process-software development businesses, quality control and management authorities, industrial pollution control and environmental pollution abatement organizations, sustainable development initiatives and strategic development cells, and composite material using industries such as aerospace, automotive, biomedical, electronic, environmental and space industry.

The department provides courses in the fundamentals of chemical engineering and separation processes, theory and design of process equipment and energy systems, reaction and biological process engineering, industrial process technology, industrial safety and health, energy technology for process industry, industrial pollution control system design, industrial and advanced fluid mechanics, instrumentation and measurement, petroleum engineering, food process engineering and in the environmental management systems. The complete design of a selected process industry is carried out through two project-based core courses offered in the final year of study under the close guidance of the academic staff at the department. The department also provides supervision for undergraduate research projects in the project-based courses Independent Study and Process Engineering Research Projects. Courses of a broader interest involving thermodynamics, heat transfer, materials science, strength of materials, mechanics of machines and electrical power are provided with the support of other departments.

The department has the following seven well-developed laboratories for undergraduate, postgraduate and research work:

- Analytical Chemistry Laboratory
- Analytical Instrument Laboratory
- Biochemical Engineering Laboratory
- Computer Simulation & Design Laboratory
- Energy Engineering Laboratory
- Food Engineering Laboratory
- Pilot-plant Laboratories

The department possesses analytical instruments such as Thermogravimetric Analyzer (TGA), a Fourier Transform Infrared (FTIR) Spectrometer, and a UV–Visible Spectrophotometer.

Current research interests and activities of the department include environmental pollution control, image processing techniques, green productivity, cleaner production, sustainable development, combustion, renewable energy, energy conservation, energy economics, nanomaterials synthesis, biopolymers, biodiesel and bioethanol production, gasification, fluidised bed technology, drying and dryers.

The department provides research supervision for higher degrees leading to PGDip, MSc, MScEng, MPhil and PhD in chemical and process engineering and related fields, and a specialized postgraduate programme in Environmental Pollution Control Engineering (EPCEng).

Information on the Academic Staff of the department can be found [here](#). The Chemical & Process Engineering specialization program can be found [here](#).

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DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering is the largest department in the Faculty and has produced about 50 percent of the engineering graduates from the Faculty. Civil engineering graduates are expected to play key roles in planning, designing, constructing and managing roads, bridges, dams, buildings and public utilities, water supply, sewerage, irrigation, drainage and pollution control schemes etc. The Civil Engineering curriculum covers a wide range of courses in three main areas:

- Materials and Structural Engineering which includes Properties and Mechanics of Materials and Structures
- Geotechnical and Transportation Engineering which includes Geotechnical Engineering, Engineering Geology, Surveying and Highway & Transportation Engineering
- Water Resources and Environmental Engineering, which includes Fluid Mechanics, Hydrology, Hydraulics and Environmental Engineering.

The Department also offers specialized courses in Computer Applications in Structural Engineering, Foundation Engineering, Water Resources Engineering, etc. as elective courses. Field visits, seminars and research projects form a part of the curriculum. Practical aspects of civil engineering are emphasised through laboratory, field and design classes, multidisciplinary design projects and a field camp.

The Department has the following laboratories with specialized up-to-date facilities for teaching, research and consultancy services:

- The Materials Laboratory is equipped with facilities for investigation of the physical, mechanical and durability characteristics of diverse types of materials used for engineering applications. The materials that the laboratory can handle are inclusive of cementitious products, ingredients of concrete and asphalt, metals, timber, polymers and ceramics. Services are also provided to the industry for quality management purposes.
- The Metallurgy Laboratory is equipped with facilities for investigating the impact and hardness, microscopic analysis using metallurgical microscopes and the atomic absorption spectrometer, x-ray views for investigating metals and heat treatments of metals.
- The Structures Laboratory has a strong floor of 6 m x 12 m with reaction frames supporting 500 kN and 250 kN static hydraulic jacks and 100 kN dynamic actuator capable of testing medium-scale experimental models and precast products such as Hume pipes, Manhole covers, Steel gratings, etc for relevant SLS, BS and other similar standards. The laboratory can also provide on-site structural testing facilities to measure deflections, strains, accelerations with online monitoring and data logging facilities for both static and dynamic testing.
- The Fluid Mechanics Laboratory is equipped with state-of-the-art wind tunnels, hydraulic benches specifically designed for flow and pressure transient measurements, tilting flumes with fixed and movable beds, wave flumes, a towing carriage with a tank, and other facilities for testing scale models. Additionally, the laboratory contains test rigs for examining the behavior of pipes, pumps, turbines, and fans. The primary purpose of these resources is to provide a comprehensive learning experience to undergraduate and postgraduate students in fluid mechanics, hydraulic and hydrologic principles, as well as to support research activities. High-end computer servers are also available for hydraulic and hydrology based modelling and CFD analysis to facilitate the teaching and research. Expert services are provided to the industry with a special emphasis in the areas of physical and computational modelling, field measurements and testing works related to water resources development projects.
- The Environmental Engineering Laboratory comprises facilities for water and wastewater analysis, and a microbiological laboratory. The Laboratory has been fully equipped with state-of-the-art analytical instruments that have the capacity to cater to a wide spectrum of analytical service needs. Besides, the laboratory is equipped with the advanced technical and academic expertise related to the environmental engineering domain to cater to academic and industrial needs. Following specialized instrumentations are available: Atomic Absorption Spectrophotometer, Gas Chromatograph, HPLC Ion Chromatograph, HPLC Carbamate Analysis System, Organic Elemental Analyzer, Total Organic Carbon Analyzer and general water & wastewater quality parameter testing (BOD, COD, TSS, turbidity, MLVSS, Coliform detection etc).
- The Geotechnical Laboratory is equipped with facilities to carry out field and laboratory tests in the specialised fields of geotechnical engineering and engineering geology. Field tests include SPT, SCPT, DCPT, Seismic Refraction Test, Resistivity Test and, laboratory tests include Classification Tests, UU, CU and CD Triaxial Tests, Direct Shear Test, Consolidation Test, Compaction Test, CBR test, Permeability Test, Rock Shear Test, LAAV Test, Slake Durability Test, Soundness Test and Determination of Shear Wave Velocity. In addition, the laboratory provides computing services using state of the art software such as FLAC, Geostudio and Plaxis for the numerical analysis of many geotechnical engineering problems. A wide range of consultancy services is offered to the industry in all aspects of geotechnical analysis, design and site investigation.

- The Surveying, Highway and Transportation Engineering Laboratory is equipped with total stations, theodolites, levels and electronic distance meters and GPS/GIS facilities for comprehensive land surveying and contouring. Furthermore, Benkelman beam, variety of surface roughness/resistance testing equipment and weight bridges for highway pavement evaluations and all laboratory testing related to bitumen and asphalt are available in this laboratory (Marshall test, penetration, elongation, softening point, flash and fire point).
- The Computer-Aided Structural Analysis Laboratory with more than one hundred computers is used for teaching and research on the analysis of structural systems using finite element programs. Mainly, licensed versions of SAP 2000 and Midas FEA are available for linear and nonlinear analysis of structures for static and dynamic loadings.

Research carried out in the department can be classified under final year student projects, postgraduate diploma and master's degree projects, graduate studies by research students, and research conducted by the academic staff. Some of the current areas of research include: Structural behaviour under seismic loading; Structural health monitoring and retrofitting; Fatigue damage assessment for bridges; Mechanical behaviour of novel materials; Condition assessment of existing structures; Stability of landfills and gas diffusivity characterisation; Strength characterisation of railway ballast subjected to fouling; Stabilisation characteristics of soft and coarse-grained soils; Down-scaling of climate projections and rainfall and runoff modelling; Hydrodynamics and sedimentation modelling of reservoirs; Coastal flood hazard and risk assessments and coastal sediment transport; Water and wastewater management technologies; Transport and traffic planning of small/medium cities.

Over the years the Department has conducted postgraduate courses leading to the Master's Degree and has admitted graduate students for research studies leading to MPhil and PhD. Part-time Postgraduate Diploma and Master's Degree programmes are offered by the Department to provide postgraduate level education in the fields of Structural Engineering, Environmental & Water Engineering, Geotechnical Engineering, Highway and Traffic Engineering, Sustainable Built Environment and Disaster Management. There are also plans to expand the scope of the postgraduate programmes to other areas of Civil Engineering.

The Department maintains close links with industry through consulting work, CPD programmes, participation in professional activities and conferences and seminars conducted by the staff.

Information on the Academic Staff of the department can be found [here](#). The Civil Engineering specialization program can be found [here](#).

DEPARTMENT OF COMPUTER ENGINEERING



The Department of Computer Engineering was established in the Faculty of Engineering in 1985. Although it is the youngest degree awarding department in the faculty, it is one of the premier Computer Engineering departments in the country's University system. Initially, the primary function of the department was to conduct computing-related courses to the students in all disciplines of the Faculty. Later, in the year 2000, the department started offering the Computer Engineering degree as a specialisation in engineering. Today it is a fully-fledged department, robust with a capable and energetic staff, rich in its resources and course content and showing maturity which belies its age.

Computer Engineering degree is a unique combination of computer science and electrical and electronics engineering. It includes the science and technology of design, construction, implementation and maintenance of software and hardware components of modern computer-controlled systems and their networking. Computer engineers have in-depth knowledge of hardware, software design, hardware-software integration and networking. They are involved in all aspects of computing, from the design and use of individual microprocessors, circuit design and large-scale system integration, to kernel operations, databases, data science and engineering, artificial intelligence and machine learning, networking, security, and telecommunications.

Entrance to the Computer Engineering stream of study is highly competitive and its content, though challenging and demanding, is ultimately exceedingly rewarding. The courses offered provide comprehensive coverage in Computer Engineering. Unlike many Computer Science/Engineering schools that tend to teach the details of the latest in-demand skills, skills that will soon be out-dated, we believe in providing a solid understanding of the foundations of Computer Engineering with computer systems perspective. These principles allow students to adapt to the inevitable changes in technology by developing practical skills on top of the foundations using leading-edge technologies. Such an approach inevitably makes the degree challenging and highly rewarding.

The curriculum of Computer Engineering specialization is a four-year programme with 150 SLQF credits including the General Programme and the Industrial Training. It provides the necessary theoretical background combined with hands-on practical experience in order to prepare graduates for their future careers. The programme focuses on computer architecture and design, embedded systems, computer networks, databases, software engineering, data science and engineering, artificial intelligence and machine learning and computer applications in industry. It is geared towards the needs of not only industries but also higher education sectors to ensure a smooth transition after a student's graduation.

The department continuously creates and strengthens its ties with other universities and industries. Our ongoing research are conducted in collaboration with researchers from leading foreign universities and global industry partners. Already, some of the courses are offered with industrial collaboration. The Department also houses the one and only NVIDIA GPU Research Center in the country. Computer Engineering graduates are highly sought after by local as well as international employers.

Research conducted by the department has greatly expanded over the years. The Embedded Systems and Computer Architecture Laboratory (ESCAL) is a research group whose interests concern the architectural aspects of embedded systems and associated problems with a particular focus on the combination of the theory and practice. The Systems Engineering Group at Peradeniya (SEGPe) is a research group mainly focusing on the use of small kernel technology for secure and reliable systems construction and the application of formal methods to system design and implementation. The Complex Reactive & Intelligent Systems (CRISL) group concentrates on model-based design and formal verification of complex reactive systems, Logic/Supervisory Control and fault diagnosis of Discrete Event Dynamic Systems, and issues related to reconfigurable control of these systems. The department also conducts active research on Cryptography and Network Security.

The Cryptography Research Laboratory (CRL) primarily focuses on the research on cryptographic fundamentals that enable secure communications. CRL develops new cryptographic schemes and formally analyse their security, implement cryptographic schemes for secure communications and work on cryptanalysis. The department has a focused group in the area of data analytics. Machine learning based methods for inferring from various data such as computer games, social media, news articles and DNA sequencing data are being designed and are being applied in multiple contexts. There are number of Masters and Doctoral students following postgraduate study programs of the Department. The research carried out by these research groups are being published in internationally recognized journals and conferences.

Laboratory facilities in the department provide the means to experience and practice the Engineering skills acquired during the learning process. The department provides two general laboratories with sixty high-performance computers with fast Internet connectivity and this facility is open even after hours to aid self-learning. Special laboratories are equipped with proper equipment to get hands-on experience on networking, interfacing, digital design and embedded systems. A special laboratory environment is provided for students who participate in projects. They have the freedom to use these resources as required.

Independent student activities are encouraged via a student body, the Association of Computer Engineering Students (ACES), which aims to further the potential of students by catering to their professional and societal development needs and enhancing their competencies such as leadership skills. ACES together with Hackers Club annually organize various events thus providing opportunities to improve the students' skills. ACES Hackathon and ACES Coders are national level product development and coding competitions in which undergraduates of

national and private universities participate. The Career Fair provides opportunities to the students to find training and employment opportunities. The Symposium provides a platform to present the undergraduate research to researchers and to the industry.

The department's greatest strength is perhaps in its energetic and passionate staff constantly driving undergraduates to excel in their studies. Academic staff of the Department of Computer Engineering has been and continues to be trained from higher education institutions all around the globe from the Silicon Valley in the US to the premier universities in the UK, Europe and the Asia Pacific. The warm and welcoming atmosphere created by the exuberant staff has formed family-like bondage that creates a strong cohesive unit and thus the Department of Computer Engineering has become a home for elites in engineering.

Information on the Academic Staff of the department can be found [here](#). The Computer Engineering specialization program can be found [here](#).

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING



The Department of Electrical and Electronic Engineering (DEEE) offers undergraduate and postgraduate programs in Electrical and Electronic Engineering. The vision of the department is to “acquire knowledge, promote research, and educate the student community in the applications of science of Electrical and Electronic Engineering in industry and academia for the benefit of the society at large”. The mission is “to provide an appealing environment for students and staff to acquire knowledge in broader sense for the benefit of mankind”.

The department provides basic courses for all engineering undergraduates on the principles of Electrical and Electronic Engineering, in appropriate depth, to acquire essential fundamentals, and also it offers several advanced courses to the specializing students in the areas of

- Power High Voltage and Energy Systems Engineering
- Communication and Information Engineering
- Electronics and Instrumentation Engineering
- Control, Robotics and Automation Engineering
- Biomedical Engineering
- Artificial Intelligence, Machine Learning and Signal Processing.

Appropriate selection of technical electives that are available from within the above six subspecialisations, backed by the undergraduate research project and industrial training engagements, pave the way for the students of electrical and electronic engineering to specialize in one of the above subdisciplines. More importantly, the curriculum of the Electrical and Electronic Engineering study program has been designed in a flexible way that, students can obtain a major specialization in one of the above areas while obtaining a minor specialization in another area selected out of the same six sub-disciplines mentioned above. The department is the primary contributor to the degree program Bachelor of The Science of Engineering Honours in Electronic and Intelligent Systems Engineering. The department has an integrated laboratory environment covering the following clusters of laboratories:

- Elementary Laboratory
- Communication and Information Laboratory
- Electronics and Instrumentation Laboratory
- Power and Energy Laboratory
- Electrical Machines and Drives Laboratory
- Control Robotics and Automation Laboratory
- High Voltage Laboratory
- Optical Communication Laboratory
- Sri Lanka Telecom Research Laboratory
- Smart Grid Laboratory
- Power Electronics and Industrial Systems Laboratory
- RF and Microwave Laboratory
- PCB Fabrication Laboratory
- Bio Medical Engineering Laboratory
- Artificial Intelligence, Machine Learning and Signal Processing Laboratory

A project area with well-equipped laboratory setups for group based undergraduate activities is arranged for projects and research work of undergraduates. The department is aligning with the notion of green energy that it has 60 kW of roof-top solar installed for the benefit of the faculty. The department maintains its own autonomous computer network while being on the backbone university network. This infrastructure facilitates the students with advanced simulation tools for their laboratory, projects, and research work in a wide spectrum covering the vast discipline of electrical and electronic engineering.

Moreover, opportunities are arranged for students to showcase their projects to the public and industry through the annual student project symposium and Electrical & Electronic Engineering Research and Project Symposium (EERaPS) organized by the department. The department has been organizing the International Conference on Industrial & Information Systems (ICIIS) for nearly two decades to bring intellectuals to the country aiming fruitful collaborations.

Information on the Academic Staff of the department can be found [here](#). The Electrical & Electronic Engineering specialization program can be found [here](#). The Bachelor of Science in Engineering Honours in Electronic and Intelligent Systems Engineering can be found [here](#).

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DEPARTMENT OF ENGINEERING MANAGEMENT

The Department of Engineering Management was established in 2002 within the Faculty of Engineering, University of Peradeniya, to support the development of engineering graduates capable of meeting the managerial, professional, and societal challenges of modern engineering practice.

The increasingly competitive business environment and rapid technological advancements require engineers to work beyond the boundaries of a single discipline. In addition to technical expertise, engineers are expected to possess managerial, leadership, communication, and decision-making skills to effectively contribute to multidisciplinary organizations. The Department complements the technical education provided by the engineering specializations within the Faculty by equipping students with the knowledge and skills necessary to perform these broader professional roles.

As a common academic department serving all engineering disciplines, the Department integrates engineering and management concepts to develop graduates with a broader understanding of professional responsibility and accountability towards society and the environment. Through its teaching and academic activities, the Department contributes to the development of competencies in management, economics, project management, leadership, communication, professional ethics, and sustainable development.

The Department also supports the accreditation requirements of engineering degree programmes by promoting the development of graduate attributes expected of modern engineers. These include the ability to function effectively as individuals and as members of multidisciplinary and multicultural teams, to undertake leadership and managerial responsibilities, and to appreciate the social, cultural, environmental, and ethical dimensions of engineering practice. The Department further encourages lifelong learning and professional development among engineering graduates.

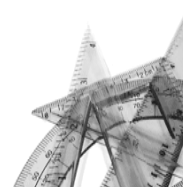
In addition, the Department serves as a platform that brings together students from all engineering disciplines, promoting a holistic perspective of engineering practice and fostering an appreciation of the interrelationships between technical, managerial, economic, social, and environmental considerations in engineering decision-making.

The Department makes a key contribution to the Technopreneurship sub-specialization of the Department of Mechanical Engineering. The programme aims to develop mechanical engineering students with entrepreneurial and technology management capabilities.

Through these contributions, the Department supports the Faculty's mission of producing competent, responsible, and industry-ready engineering graduates capable of addressing the complex challenges of the modern world.

Information on the Academic Staff of the department can be found [here](#). The courses offered by the Department of Engineering Management can be found [here](#).

DEPARTMENT OF ENGINEERING MATHEMATICS



A strong background in Mathematics is essential for the degree programme of Bachelor of the Science of Engineering Honours in order to develop analytical thinking and the ability to use it as a tool to seek solutions to engineering problems. The courses in Engineering Mathematics have been designed keeping this in mind. In the first two years, Mathematics is taught as core course units for all undergraduates. The courses are continually updated by incorporating current techniques and new applications. As a result, most of the courses offered contain a strong computing component.

The students entering the Faculty have a wide spectrum of abilities and there are many students who are weak in Mathematics. Special attention is given to weaker students through small tutorial groups. A programme of remedial teaching for new entrants is also provided by the department every year. This is designed to help the students to bridge the gap between the school and the first year course in the Faculty. A particularly important aspect of each lecture series is the evaluation of the teaching performance, by the students, to provide the necessary feedback for improvements.

The department conducts a postgraduate diploma programme in Engineering Mathematics, which is currently a part time programme. This programme with a significant research component is designed especially to train engineering and science graduates to apply mathematical tools to solve problems in the industry. The department also provides research supervision to students reading for MPhil and PhD degrees in specified areas.

Several academic divisions have been established within the department in order to further the mathematics education of the engineers and to facilitate the development of research activities. Divisions have been established in areas in which the department has strong research potential. Currently, there are five distinct divisions within the department.

- Division of Operations Research and Optimization
- Division of Systems Modeling
- Division of Software Engineering
- Division of Decision Sciences and Statistics
- Division of Mathematics and Engineering Education

The members of the department are also involved in developing mathematical, management and educational software packages for use in the department and for undergraduate and postgraduate programmes. Some of the specific areas of current interest include computer-aided learning packages, optimization routines, mathematical modelling, real-time systems, databases for inventory and students' performance data, and timetable scheduling software.

The department is also involved in research programmes in collaboration with research groups in foreign universities. Several members of the department have addressed the national needs by publishing textbooks for the G.C.E. (Advanced Level) Examination and for undergraduates. These books have been widely acclaimed as being authoritative by the experts in the relevant fields.

Information on the Academic Staff of the department can be found [here](#). The courses offered by the Department of Engineering Mathematics can be found [here](#).

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DEPARTMENT OF MANUFACTURING AND INDUSTRIAL ENGINEERING

Manufacturing and Industrial Engineering is a dynamic, multidisciplinary field that integrates exciting areas such as design, robotics, automation, systems engineering, sustainable manufacturing, and operations management.

Since its establishment in 1976 as the **Department of Production Engineering**, the department has graduated over 1,200 skilled engineers who have made significant contributions to both local and global industries. In 2017, reflecting its broadened scope and evolving focus on manufacturing and service industries, the department was renamed **Manufacturing and Industrial Engineering**.

The department offers a comprehensive curriculum designed to provide students with both a strong theoretical foundation and practical, hands-on experience. Modern facilities and laboratories support advanced learning and innovative research in areas such as machining, robotics, additive manufacturing, automation, metrology, and digital design. This practical exposure ensures that our graduates are industry-ready and capable of driving innovation in a wide range of sectors.

A vibrant R&D culture is actively fostered, encouraging multidisciplinary collaboration and providing engineering undergraduates with an environment conducive to learning through problem-based learning (PBL) with real-world applications. The department's strong research culture produces impactful solutions addressing real industrial challenges. Through consultancy and capacity-building programs, significant contributions are made to enhancing the competitiveness of the local manufacturing industry and improving societal livelihoods.

Vision: To be a center of excellence in higher education in the field of Manufacturing and Industrial Engineering.

Mission:

Teaching: To create an innovative, learning-by-doing experience for students focused on enhancing their creative and analytical thinking, knowledge and skills in the manufacturing & industrial engineering discipline, lifelong learning, communication, positive attitude and respect for environment, ethics & sustainability.

Research: To create a supportive work environment that can help cultivate a motivated, multidisciplinary research teams who continuously produce research output with high impact and relevance in the field of manufacturing & industrial engineering.

Contribution to Society: To impact society in a positive and transformative manner by providing high-quality services, consultancy and capacity building programmes to enhance the local manufacturing-related industry and improve lives and livelihood.

Graduates of the department enjoy diverse career opportunities across sectors such as automotive, aerospace, electronics, consumer goods, logistics, energy, pharmaceuticals, and heavy machinery, occupying roles at different stages of the supply chain. They serve as Design Engineers, Production Managers, Automation Specialists, Quality Engineers, Supply Chain Analysts, Process Improvement Engineers, Industrial Consultants, Operations Managers, Research and Development Engineers, Project Managers, Manufacturing Engineers, Supply Chain Directors, Factory Managers, General Managers, and Entrepreneurs—playing pivotal roles in advancing manufacturing industries, optimizing industrial processes, and fostering sustainable development.

The department continually aspires to elevate teaching, research, and industry engagement to meet international standards. There is a commitment to nurturing visionary leaders who will drive innovation and digital transformation while fostering sustainable industrial growth, both locally and globally.

Information on the Academic Staff of the department can be found [here](#).

The Manufacturing and Industrial Engineering specialization program can be found [here](#).

DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering is at the heart of today's global industry where electronics, computers, and mechanical devices are increasingly becoming more and more integrated. The Department of Mechanical Engineering provides a broad knowledge and training necessary for the development of new technology and devices required for the advancement of such a multidisciplinary global industry. The program provides a wide education opportunity required for the understanding and application of physical phenomena in specific areas such as robotics and automation, machine design, and thermo-fluids.

The Department of Mechanical Engineering has carried out a comprehensive revision of the specialization programme in Mechanical Engineering. The department will commence offering the revised Mechanical Engineering programme from 2020 onwards.

The new Mechanical Engineering programme was developed with the vision of making the specialization programme up to date and more flexible, which enable us to diversify the programme and thereby cater to the rapidly changing technological trends and requirements of the world. Accordingly, new subspecialisations in Mechanical Engineering are introduced under four deferent tracks: Design (General Mechanical Eng. programme); Mechatronics; Energy Systems; Mechanical Engineering with Business. Students opting to specialize in Mechanical Engineering have to specialize in one of these tracks of their choice.

The department houses state of the art laboratory equipment for developing a deeper understanding of the concepts. The Applied Mechanics laboratory has a unique collection of experimental and demonstration equipment, most of which were designed and fabricated in the Faculty. These are used in a problem-based student-centric fashion to develop a fundamental understanding of various resonance phenomena, advanced concepts in mechanics, and the operation of various machines. The Thermodynamics Laboratory houses both basic and advanced experimental facilities for heat transfer, combustion, engine testing and agricultural engineering. The laboratory also has several items of laboratory equipment in refrigeration and air-conditioning. It houses the best steam engineering facility in the country. Recent additions to the collection of laboratory equipment are unmanned vision based aerial and mobile robots, industrial mechatronic systems, multi-fuel test rigs, and ocean wave energy conversion systems. The department also has one of the largest computer-aided modelling and simulations facilities in the country. Graduates who undergo this learning experience typically find postgraduate opportunities in globally reputed programmes or employment in research and development institutions, or as Engineers in industries such as automation, manufacturing, generation and transmission of power, transportation, refrigeration and air-conditioning, design, and maintenance of machinery.

The department has carried out pioneering research of international standing in vibration analysis, geometric methods in control for robotic systems, decentralized control of multi-agent systems, CNC machining, solar energy, ocean wave energy, combustion control and wind power. The current research interests and activities in the department include vision guided intelligent robots, multi-agent systems, alternative fuels and fuel additives, modelling and analysis of ocean wave energy conversion systems, development of alternative methods for refrigeration and air-conditioning, corrosion, nonlinear control theory, mechatronics, automobile engineering and computational fluid dynamics. The department also has a strong postgraduate program in these areas leading to full-time MPhil and PhD degrees. It also runs a part time MSc program in building services engineering to cater to a popular demand in the local industry.

The department has also provided expert advice and consultancy services to industrial establishments in the state, corporate and private sectors in a number of areas relating to mechanical engineering. Among the services provided are the use of unmanned aerial vehicles for terrain mapping, testing of fuels and lubricants, calibration of equipment, design of mechanical systems, mitigation and measurement of noise and vibration, balancing of rotors, and design of industrial refrigeration systems for food & agriculture industry and post-harvest processing.

Information on the Academic Staff of the department can be found [here](#). The Mechanical Engineering specialization program can be found [here](#).

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INDUSTRIAL TRAINING AND CAREER GUIDANCE UNIT

Industrial Training and Career Guidance Unit (ITCGU) is responsible for arranging, monitoring and evaluation of industrial training in liaison with the National Apprentice and Industrial Training Authority (NAITA). This unit is also responsible for planning and organizing activities for developing other skills of undergraduates which are demanded by the engineering organizations and for guiding students for gainful employment prospects.

Industrial Training (EF4010)

EF4010 Industrial Training (6 credits) is a compulsory course and successful completion of the course is required for the award of the degree of Bachelor of the Science of Engineering Honours. Students are given Pass/Fail grades and the student who scores highest marks at the assessment is awarded the “J.B. Dissanayake prize for Industrial Training”.

A student who fails to satisfactorily complete the Industrial Training course will be required to undergo further training and appear for an assessment to be eligible for the award of the degree of Bachelor of the Science of Engineering Honours.

Placements in the participating industries are arranged for undergraduates during the industrial training sessions in the academic calendar of the Faculty so that, not less than 24 weeks of training in industry is achieved.

Undergraduates are expected to acquire hands-on experience not only in the engineering aspects of the work but also in related matters such as management, industrial safety, quality assurance, ethical practices, sustainability practices etc. Students have to maintain a daily diary during training and submit a comprehensive report covering each period of training. The assessment is done at an interview conducted by a panel consisting of a practicing engineer from industry, an officer from NAITA, lecturers from the relevant department and the ITCGU. This assessment is normally conducted during the final year of studies in each department.

Career Guidance

Career Guidance has been recognized as an important part of the education and training of the undergraduate. The undergraduates are assisted by the ITCGU to select their future careers to suit their abilities, wishes and expectations. The ITCGU liaises with these industrial sector establishments to organize capacity building sessions to develop the skills required to be successful in the job market. These include orientation of the undergraduates to develop the career related skills such as communication, leadership and teamwork. These programmes are initiated during the orientation period of new entrants and are continued throughout the four year course duration. The ITCGU maintains links with industry organizations and exchange information mutually benefiting each other.

The ITCGU plays a major role in organizing the annual Career Fair of the Faculty of Engineering. The major objective of organizing the Career Fair is to provide an opportunity for industrial organizations to get to know the potential of their future employees and for final year undergraduates to learn about the current trends in the employment market and the demands of the industrial sector.

Information on the Academic Staff of the unit can be found [here](#). The courses offered can be found [here](#).

FEES



Fees payable by students will be determined in accordance with the decisions made by the university authorities and are subject to revision from time to time. Concessions are available to teachers and officers of the University of Peradeniya. A refund of fees is made only under exceptional circumstances.

Sri Lankan students should pay fees to the credit of the relevant account of the University of Peradeniya at the People's Bank or Bank of Ceylon.

Foreign students should pay the fees in foreign currency, viz., US dollars. They could do so by sending a Bank Draft/Tele Transfer made in favour of the Registrar of the University of Peradeniya. Please contact Registrar of the University of Peradeniya for the latest fees. Non-citizens resident in Sri Lanka may pay the prescribed fees in local currency.

UNDERGRADUATE COURSES AND EXAMINATIONS

Fees Payable by New Entrants

Admission fee	Rs. 600.00
Registration Fee	Rs. 200.00
Laboratory Fee	Rs. 500.00
Other Fees*	Rs. 300.00
Total	Rs. 1600.00

*Other Fees:

Sports Facilities Fee	Rs. 100.00
P. S. U.	Rs. 25.00
Arts Council	Rs. 60.00
Hall Facilities	Rs. 15.00
Medical Fee	Rs. 100.00
Total	Rs. 300.00

Fees payable in each academic year

Renewal Fee	Rs. 200.00
Other Fees*	Rs. 300.00
Total	Rs. 500.00

Examination Fees**

The undergraduate student is not required to pay any fees for the first attempt of an End-of-Semester examination. Fees are payable for subsequent attempts of End-of-Semester examinations of the semesters.

* The fees payable are reviewed by the Faculty and the rates that apply will be announced at the beginning of each semester."

Fees payable for late renewal of registration (per semester) Rs. 1,500.00

Fees payable for late registration (per course) Rs. 1,000.00



POSTGRADUATE COURSES AND HIGHER DEGREES

The perception among some professional engineers that postgraduate courses are for those seeking academic careers has by and large been dispelled, and engineers in the field/industry are increasingly aware of the benefits of such courses to update and advance their knowledge. The Faculty has sought to meet the resultant demand for advanced knowledge by offering appropriately designed postgraduate courses, with combinations of lectures, coursework and research in varying proportions and scope that lead to diplomas/degrees. The courses are available at five SLQF levels:

- Postgraduate Diploma – PGDip (SLQF L8)
- Degree of Master of Engineering – MEng (SLQF L9)
- Masters Degree (SLQF L9)
- Degree of Master of the Science of Engineering – MScEng (SLQF L10)
- Degree of Master of Science – MSc (SLQF L10)
- Degree of Master of Philosophy – MPhil (SLQF L11)
- Degree of Doctor of Philosophy – PhD (SLQF L12)

The programmes are sufficiently flexible in structure to accommodate students with diverse professional backgrounds and varying degrees of financial and time constraints. Students are admitted to any one of the three distinct categories:

- Regular postgraduate students
- Provisional students
- Casual students

The postgraduate programmes currently available in the Faculty of Engineering are presented [here](#). They are conducted by the respective departments. All the departments offer postgraduate programs by research, namely Postgraduate Diploma, MPhil and PhD programmes.

ACADEMIC FACILITIES



1. THE ENGINEERING LIBRARY

The Engineering Library meets the needs of the undergraduates, graduates and academic staff of the Faculty. Its collection is part of the stock of the Library of the University of Peradeniya. It contains a wide range of books and periodicals in Civil, Electrical & Electronic, Mechanical, Manufacturing & Industrial, Chemical, Computer Engineering, Management and Mathematics. It also has a fair collection of books on the Natural Sciences. It is constantly being brought up to date with new accessions. The collection of some important reference journals goes back to the 1930s. Presently there are about 65,000 books and periodicals available in this engineering library. Some electronic journal packages are also provided by the library. The present library in the new building was opened in 2000 to provide more reading facilities for the increasing student population.

All students are required to get themselves registered at the Library at the beginning of the first year so that they can use barcoded University identity card for borrowing books. Orientation programmes are provided on the general use of the Library early in a student's career, followed by more specific instructions on the literature of particular subject fields, so that a student may have some insight into the depth and breadth of information available to him/her as and when he/she requires it.

Library Opening Hours

Monday to Friday	7.15 am – 6.30 pm
Saturdays and Sundays	7.15 am – 5.00 pm
Closed on public holidays	

During the exam periods on students' requests

Monday to Friday	7:15 am – 9:00 pm
Saturdays and Sundays	7:15 am – 6:30 pm

Requirements of undergraduate students, postgraduate students and academic staff and will, of course, to some extent rely on the inter-library loan system. Every effort is made to obtain the required literature from other libraries in Sri Lanka and abroad. Ready assistance is available to all Library users. Further details of the Library services may be found on the library [website](#).

2. ENGINEERING WORKSHOP

The Engineering Workshop consist of the Machine Shop (metal work), the Fitting Shop, the Foundry, the Smithy, the Welding shop and the Carpentry Shop.

The workshop has over 35 experienced and qualified staff/professionals including machinists, welders, mechanics, carpenters, storekeepers, technical offices, superintendent, workshop engineer and a director.

The Engineering Workshop have two main functions. Firstly, its resources and facilities are utilized for academic work and training of engineering undergraduates.

Experiments, as well as training sessions, are conducted for the first, third, and final year undergraduates in the areas of Workshop Practices, Fundamentals of Manufacture, Conventional Manufacturing processes and Technologies. In addition to these, the fabrication of the prototypes also carried out in the workshop. Furthermore, Wood workshop and Machine shop also used for 2nd, 3rd and 4th year Manufacturing & Industrial Engineering undergraduate practical programmes as well as research degrees.

The other function includes the manufacture of equipment for teaching and research, maintenance of machines and equipment, industrial training of undergraduates and NAITA (National Apprentice Industrial and Training Authority) trainees, industrial consultancy work (design, manufacturing of machines and mechanisms for industry), evaluation of craftsman and technical personnel, and a variety of fabrication work for the faculty. Details of the Engineering Workshop can be found [here](#).

3. COMPUTING CENTRE

The University Computing Centre (CC) was established in 1971 when the University acquired an IBM 1130 Computing System, the first in the country. In 1973 the CC was moved to a new building. The Computing Centre was absorbed into the newly established Department of Computer Sciences in 1985. Since 1995 it has been functioning as an independent center.

With 3 laboratories, the present CC has the capacity over 250 desktop computers with software supporting the academic program. A state of the art Graphical Processing Unit (GPU) to facilitate developing and testing algorithms for Artificial Intelligence has been added recently with the financial assistance of the alumni of the faculty.

The services provided by the CC include but are not limited to

- The computing facilities for undergraduate and postgraduate courses which have computer based labs.
- Conducting the Foundation IT Course for the new entrants during their orientation period.
- Conducting supporting courses for academic and non-academic staff.
- Providing computer and peripheral repairs for the entire university.
- Developing Information Systems for the Faculty of Engineering.
- Coordinating and administering the Faculty of Engineering e-Learning System (FEeLS).

The Computing Center website can be found [here](#) and the staff information can be found [here](#).

4. ELECTRONIC WORKSHOP

The electronic workshop was set up in 1970 as a service unit attached to the Electrical and Electronic Engineering Department to undertake servicing and repairs to electronic equipment of a scientific nature belonging to all the faculties of the University. It has extended its capabilities to the design and manufacture of small items of electronic equipment, with its services extended to scientific establishments outside the university.

The electronic workshop website can be found [here](#).

5. ENGLISH LANGUAGE TEACHING UNIT (ELTU); THE LANGUAGE LABORATORY

The medium of instruction in the Faculty of Engineering is English. Since 1968, the Faculty of Engineering has made special provision for the teaching of English for academic purposes to undergraduates.

The English Language Teaching Unit was established in 1985 in the faculty for the purpose of facilitating the students in following their academic courses in the medium of English .

The English Language Teaching Unit conducts core courses as well as general electives for undergraduates which are offered throughout their academic programme. The unit provides guidance in international English language competency examinations and support in other english language related academic concerns.

The ELTU website and the staff information can be found [here](#).

6. ENGINEERING EDUCATION UNIT (EEU); AUDIO-VISUAL FACILITY

The Engineering Education Unit was established at the Faculty of Engineering in 1985, to facilitate the continued education improvements in the Faculty of Engineering. Administratively, the EEU is under the purview of the Dean of the Faculty of Engineering. The management and development of the EEU is the responsibility of a committee consisting of the Dean, the Director of the unit and members of the permanent academic staff appointed by the Faculty Board. EEU is primarily involved in improving the quality of education provided at the Faculty of Engineering by facilitating effective teaching-learning strategies and resources. Activities of the EEU are categorized as follows:

- Staff development
- Curriculum development
- Provision of audio-visual facilities for educational purposes
- Academic administration of complementary studies

The EEU regularly conducts activities to engage the academic staff on modern educational paradigms. It identifies effective teaching-learning strategies and resources for the Faculty of Engineering in a timely manner, and provides training and support to the academic staff in implementing such strategies through the *EEU Support and Development Center*. It is also involved in the curriculum development and revisions which happens at the Faculty in regular intervals.

The EEU has a professional audio-visual studio equipped with a non-linear video editing and production system. The studio also has state of the art digital video and digital still cameras. Members of the teaching staff of the Faculty utilize these facilities to produce educational videos for use in their teaching and laboratory experiments, as well as other educational activities. Three seminar rooms of capacities 105, 86 and 70 equipped with smartboard facilities, interactive whiteboards, multimedia interfaces and audio systems are maintained by the EEU. In addition, the audio visual systems of the Faculty conference room and E.O.E. Pereira Theatre are maintained by the EEU. The conference room has a seating capacity of 28 and is equipped with multimedia facilities and a video conferencing system. The E.O.E. Pereira Theatre has a seating capacity of 582 and is equipped with multimedia facilities, large screen, advanced audio facilities and an advanced stage lighting system. The EEU has also installed multimedia facilities at all lecture rooms and

Drawing Office I of the Faculty. In addition, the EEU maintains and operates the public address system within the Faculty.

From the year 2014, the EEU has been managing the overall coordination of the General Elective (GE) courses offered to students of all specializations and degree programmes at the Faculty. Details of them can be found [here](#).

The EEU website can be found [here](#) and the staff information can be found [here](#).

7. CENTRE FOR ENGINEERING RESEARCH AND POSTGRADUATE STUDIES (CERPS)

The Engineering Research Unit originally established in 1990 was transformed to the Centre for Engineering Research and Postgraduate Studies in 2001. Since then CERPS, as it came to be known thereafter, has coordinated Research Activities and Postgraduate Studies in the Faculty of Engineering, and has been instrumental in the drafting of basic policy framework in this regard along with the Faculty Regulations governing postgraduate studies.

Activities of the Centre are organised along two axes:

- (a) The Postgraduate Studies Arm of CERPS and
- (b) The Research Arm of CERPS.

(a) The Postgraduate Studies Arm of CERPS

The mission of the Postgraduate Studies Arm of CERPS is the facilitation of Postgraduate Studies and related activities in the Faculty of Engineering by networking and coordinating all matters related to policy formulation, establishment, running, funding and development of individual Postgraduate Programmes in the Faculty to foster unhampered development of intra- and inter-departmental Postgraduate Programme initiatives.

The postgraduate studies organisation within the Faculty of Engineering is a network of Postgraduate (PG) Programmes each with a Programme Coordinator.

The Postgraduate Arm of CERPS provides the forum for policy formulation in postgraduate studies in Engineering.

(b) The Research Arm of CERPS

The mission of the Research Arm of CERPS is the facilitation of research activities in the Faculty of Engineering by networking and coordinating matters relating to policy formulation, establishment, running, funding and termination of individual Research Groups in the Faculty to foster unhampered development of individual and collective research initiatives by faculty members.

The research organisation within the Faculty of Engineering is a network of research groups and research teams. The Research Arm of CERPS provides the forum for policy formulation in Engineering research.

The Research Arm coordinates Sessions on Engineering & Built Environment as part of the Peradeniya University International Research Sessions (iPURSE). Coordination of the award and administration of University Research Grants for the Faculty of Engineering is also handled by CERPS.

The CERPS website can be found [here](#).

8. ENGINEERING DESIGN CENTRE (EDC)

The Engineering Design Centre (EDC) of the Faculty of Engineering, University of Peradeniya was established with the assistance from the Commonwealth Science Council in 1993, with the objective of supporting Sri Lankan industries through industrial consultancy, sponsored research and continuing professional development.

Vision: To become the leading commercial entity in the field of Engineering among the Universities of Sri Lanka.

Mission: To strengthen research and development (R&D) capacity of the University of Peradeniya by establishing sustainable partnerships with industries, while supporting to upgrade the science and technology (S&T) education system of the University.

The Engineering Design Centre was funded by the Asian Development Bank (ADB) Science and Technology Personnel Development (STPD) Project under the Ministry of Science and Technology and its director heads the Centre. Policy decisions with regard to the management and operation of the Centre will be conveyed to the Director by the EDC Management Committee. This Committee consists All Heads of Departments, two nominees from the Engineering Faculty Board and two members representing the industry and approved by the Engineering Faculty Board. Director/EDC acts as the secretary for the meetings.

EDC directly involves in industrial activities and carries out administrative and financial aspects of engineering projects undertaken by the Faculty. The Faculty works with EDC project engineers to provide technical and engineering inputs to the Projects. These projects handle problems in the industry related to a wide spectrum of specialties in engineering.

The EDC became a self-supporting commercial entity with its own full-time staff with effect from 01.10.2004. Currently EDC consists of full-time (contract basis) engineers in the sections of promotion, services and administration. The Director is a permanent faculty member, Senior Lecturer or above. The EDC website can be found [here](#).

9. THE ENGINEERING TECHNOLOGY INCUBATION CENTRE (ETIC)

With the vision to be a recognized product incubation and development center of the country and, with the mission to facilitate and promote innovation and develop innovative ideas of faculty community into commercially viable products, the Engineering Technology Incubation Centre (ETIC) in the Faculty of Engineering, University of Peradeniya, was established in February 2020 by approval of the university council and declared open by the Vice Chancellor on the 30th March 2021.

Initially started with the generous financial support of the faculty alumni, the ETIC will provide an ecosystem where the projects and research completed in the Faculty of Engineering by the undergraduates, postgraduate and the academic staff will be developed into commercial products. The centre is to facilitate Pre-Incubation, Incubation, Commercialization and Start-Up phases of innovative product development while it operates as the faculty arm of the Business Linkage, Innovation Incubation and Technology Transfer Office (BLII-TTO) of the University of Peradeniya.

Applications for project facilitating can be obtained from the centre web site [here](#).

GENERAL FACILITIES

1. HALLS OF RESIDENCE

The University of Peradeniya is essentially a residential university and most of the students are given comfortable living accommodations and easy access to a wide range of facilities for recreation and relaxation in the University Park that are open to all students. There are thirteen Halls of Residence for men, ten Halls of Residence for women, and two Halls of Residence for bhikkus. The expansion of accommodation has not kept pace with the increase in student intake.

2. SPORTS AND RECREATION

The campus has extensive facilities for sports and recreation, the hub of which is a large gymnasium for indoor sports such as badminton, basketball, netball, table tennis, weight lifting, wrestling etc. Outdoor sports grounds with ample space exist for cricket, rugby football, soccer, hockey, tennis, volleyball and other games. There are separate grounds for track and field athletic activities. Most significantly the 50 m swimming pool at Peradeniya is the only University swimming pool in Sri Lanka. It is available to all members of the University and to the public at large. All sports activities are supervised by the Department of Physical Education, and instructors and coaches are available to help students in their training.

3. STUDENT SOCIETIES

The diverse interests covered by societies open to students comprise a major attraction of life in a residential university. These societies are either university-based or faculty-based. The larger societies in the Faculty of Engineering are departmental groups, which have been in existence long enough to develop their own conventions and traditions. They are the Society of Chemical and Process Engineering Students (SCaPES), the Civil Engineering Society (CES) Association of Computer Engineering Students (ACES), the Electrical and Electronic Engineering Society (EEES), the Mechanical Engineering Society (MES), and the Manufacturing Engineering Association (MEA). Students interested in music, drama, literature, politics, religion etc. join in the activities of the appropriate university societies or faculty societies based on extra-mural and, sometimes, esoteric interests.

4. RELIGIOUS ACTIVITIES AND PLACES OF WORSHIP

Religious activities are organised for the university as a whole, and there are five registered student societies:

- The Buddhist Brotherhood Society
- The Hindu Society
- Newman Society (for Roman Catholics)
- The Student Christian Movement
- The University Muslim Majlis

The University Park has places of worship for each of the five major religious denominations.

5. THEATRE

The E.O.E. Pereira Theatre in the Faculty of Engineering, with a seating capacity of 582 and excellent acoustics, is the largest theatre in the campus. Although built primarily for academic gatherings of engineering students, it is also a popular centre for dramas and musical concerts, and the venue for Special Convocations and meetings of learned societies.

6. STUDENTS' CENTRE

The Faculty has a Students' Centre is not currently functioning

7. HEALTH SERVICES

A team of medical officers and supporting staff at the University Health Centre provide health care for the campus community –students as well as staff. The Health Centre also has a medical laboratory. Health care takes the form of daily OPD service, IDP for minor ailments whilst emergency cases are referred to the Peradeniya Teaching Hospital or to the General Hospital, Kandy. Dental care is provided by the Faculty of Dental Sciences.

8. STUDENT COUNSELLING

The University provides counselling service, with the assurance of complete confidentiality, to students facing problems of a personal, social or academic nature. The team of counsellors comprises several members of the senior academic staff of the different faculties and the medical officers of the Health Centre. Five of the counsellors belong to the Faculty of Engineering, and attend to the special needs of the engineering students.

9. ROAD, RAIL AND POSTAL SERVICES

The university community is served by the Sarasavi Uyana railway station and a Special Grade Post Office both located on the perimeter of the campus. There is also a small post office in the heart of the campus. Public roads run through the campus and carry bus services that link the Colombo-Kandy trunk road, which skirts the University Park. The Engineering Faculty is located between the lower Gampola road and upper Gampola road. Both routes have regular bus services. The Peradeniya Junction railway station is within walking distance, around 500 meters, from the Faculty. The distance by road is, however, longer at around 1.5 kilometers.

10. BANKING

The two major state banks, the Bank of Ceylon and the People's Bank, have had their branches within the campus for many years, but, a few years ago, the former moved into larger premises just outside the perimeter of the University Park. However, sub-branches of both banks, located in the Senate Building Extension, are open during the regular banking hours of working days.

OTHER DETAILS OF THE FACULTY

1. ENGINEERING GRADUATES

Number of Graduates as of 30 th June 2026	
Chemical & Process Engineering	610
Civil Engineering	7528
Computer Engineering	1239
Electrical & Electronic Engineering	3181
Mechanical Engineering	1818
Manufacturing & Industrial Engineering	1346
Total	15722

2. THE FACULTY COLOUR

The official colour of the Faculty is PINK, and is displayed by the garland that the engineering graduand receives at the Annual University Convocation. Since the colours of the University are gold and maroon, the Faculty uses pink and maroon on the covers of its publications.

3. PAST DEANS OF THE FACULTY

Prof. EOE Pereira	1950-65 & 1966-69
Prof. RH Paul	1965-66
Prof. JCV Chinnappa	1969-71
Prof. HB de Silva	1972-75
Prof. A Thurairajah	1975-77 & 1982-85
Prof. WP Jayasekara	1977-82
Prof. CLV Jayatilleka	1985-86 & 1988-89
Prof. M Amaratunga	1986-88
Prof. MP Ranaweera	1989-94
Prof. RJKSK Ranatunga	1994-99
Prof. WJN Fernando	1999-2002
Dr. SD Pathirana	2002-2005
Prof. SBS Abayakoon	2005-2009
Prof. SB Weerakoon	2009-2012
Prof. L Rajapaksha	2012-2018
Prof. GBB Herath	2018-2021
Dr. UI Dissanayake	2021-2024

4. PAST PROFESSORS OF THE FACULTY

Prof. EOE Pereira	Civil Engineering
Prof. RH Paul	Electrical & Electronic Engineering
Prof. JCV Chinnappa	Mechanical Engineering
Prof. EF Bartholomeusz	Engineering Mathematics
Prof. WP Jayasekara	Electrical & Electronic Engineering
Prof. S Mahalingam	Mechanical Engineering
Prof. A Thurairajah	Civil Engineering
Prof. WMG Fernando	Electrical & Electronic Engineering
Prof. HB de Silva	Civil Engineering
Prof. M Amaratunga	Civil Engineering
Prof. JA Gunawardena	Electrical & Electronic Engineering
Prof. CLV Jayatilleke	Mechanical Engineering
Prof. R Galappatthi	Civil Engineering
Prof. RJKSK Ranatunge	Manufacturing & Industrial Engineering
Prof. WJN Fernando	Chemical Engineering
Prof. TDMA Samuel	Engineering Mathematics
Prof. GE Amirthanathan	Civil Engineering
Prof. MP Ranaweera	Civil Engineering
Prof. S Sivasegaram	Mechanical Engineering
Prof. SRH Hoole	Electrical & Electronic Engineering
Prof. SB Siyambalapitiya	Engineering Mathematics

Prof. EMN Ekanayake	Electrical & Electronic Engineering
Prof. KGHCN Seneviratne	Civil Engineering
Prof. SD Pathirana	Manufacturing & Industrial Engineering
Prof. UdeS Jayawardena	Civil Engineering
Prof. KPP Pathirana	Civil Engineering
Prof. KS Walgama	Engineering Mathematics
Prof. K Perera	Engineering Mathematics
Prof. R Shanthini	Chemical and Process Engineering
Prof. SBS Abayakoon	Civil Engineering
Prof. KDW Nandalal	Civil Engineering
Prof. KBSN Jinadasa	Civil Engineering
Prof. KMAK Kulathunga	Manufacturing & Industrial Engineering
Prof. SDGSP Gunawardane	Mechanical Engineering

5. EMERITUS PROFESSORS OF THE FACULTY

Prof. RH Paul	1967
Prof. EOE Pereira	1971
Prof. WMG Fernando	1990
Prof. WP Jayasekara	1996
Prof. S Mahalingam	1996
Prof. JA Gunawardena	2003
Prof. CLV Jayatilleke	2004
Prof. TDMA Samuel	2006
Prof. MP Ranaweera	2008
Prof. WJN Fernando	2011
Prof. EMN Ekanayake	2012
Prof M Amaratunge	2017
Prof. KGHCN Seneviratne	2019
Prof. SD Pathirana	2021
Prof. KPP Pathirana	2023
Prof. UdeS Jayawardena	2023
Prof. KS Walgama	2023
Prof. RS Shanthini	2023
Prof. SBS Abayakoon	2024
Prof. KDW Nandalal	2024
Prof. PBR Dissanayake	2025

6. HONORARY DOCTORATES OF SCIENCE

Prof. EOE Pereira	1978
Prof. RH Paul	1981
Prof. A Thurairajah	1994
Eng. ANS Kulasinghe	2005
Prof. MP Ranaweera	2024
Prof. GAJ Amatarunga	2026



ANNEXURE I

REGULATIONS AND RULES RELATING TO THE DEGREE OF BACHELOR OF THE SCIENCE OF ENGINEERING HONOURS IN ELECTRONIC & INTELLIGENT SYSTEMS ENGINEERING (BScEngHons (Elnc & Intelligent Sys Eng))



REGULATIONS RELATING TO THE DEGREE OF BACHELOR OF THE SCIENCE OF ENGINEERING HONOURS IN ELECTRONIC & INTELLIGENT SYSTEMS ENGINEERING

1. This Regulation may be cited as the University of Peradeniya, Sri Lanka, Regulation Number ST/517/30 and for the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering (BScEngHons (Elnc & Intelligent Sys Eng)) that will come into effect from 15.07.2026.
2. Subject to provisions of this Regulation, the Faculty Board of the Faculty of Engineering shall make appropriate Rules for the conduct of the Degree Programme.
3. The Degree Programme for Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering (hereinafter referred to as the Degree Programme) shall be of four academic years' duration and shall consist of eight semesters or equivalent as prescribed by this Regulation and the Rules hereunder.
4. A candidate may be admitted to the Degree Programme if he/she has been admitted as a student of the University under the Statutes of the University governing the admission of students to the University.
5. Contents, assessment strategies and credit values for each course in the Degree Programme shall be prescribed by the Faculty Board on approval of the Senate.
6. Courses shall be offered in semesters scheduled during the Degree Programme, and students shall register for courses they wish to follow each semester.
7. In order to obtain credits from a course, a student must follow the course satisfactorily and attain a minimum specified standard in the course evaluation as prescribed by Rules.
8. The credit load (also known as the volume of learning) of a student in a semester should be at most a maximum number specified by the Rules.
9. The Senate may prescribe courses and/or training, whether inside or outside the University, in addition to the courses specified by the Rules. A candidate shall not be deemed qualified for the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering unless he/she has completed such courses and/or training to the satisfaction of the Vice Chancellor.
10. A student registered to the Degree Programme shall follow the Degree Programme without discontinuity, except in the event of his/her being prevented by the University from following the Degree Programme, until he/she completes the Degree Programme subject to the maximum period stipulated for completion of the Degree Programme in this Regulation.
11. In the event of his/ her being prevented by the University from continuing the Degree Programme, the time of the interruption is included in the maximum period stipulated for completing the Degree Programme.
12. In the event that the student obtains approval for 'Deferment' or 'Leave of Absence', the granted time period is excluded from the maximum period stipulated for completing the Degree Programme.
13. In the event of discontinuity in following the Degree Programme without the approval of the Dean as prescribed by Rules, the student will be considered to have abandoned the Degree Programme. A student who has abandoned the Degree Programme will only be readmitted with the approval of the Senate on the recommendation of the Faculty Board.

Course Assessment

14. The Faculty Board, with the approval of the Senate, shall appoint an Evaluation Panel for each course offered in every semester.
15. The Evaluation Panel for a course shall comprise at least three members, including a coordinator, a moderator, and academic staff members and visiting lecturers teaching the course concerned.
16. Each Evaluation Panel shall be responsible for assessing students in respective courses by means of oral, practical and/or written assessments as necessary.
17. Due to compelling reasons, the performance of a student in a course may be re-evaluated by a Review Panel appointed by the Faculty Board on the recommendation of the Head of the Department concerned and/or the Dean with the approval of the Senate.
18. The Dean may authorise a makeup exam for a student who fails to face a scheduled exam for a valid reason as prescribed by Rules.
19. Under exceptional circumstances, the Dean may allow a student who fails to comply with a compulsory requirement of a course to fulfil such requirement at a later date as prescribed by Rules.
20. A student may be exempted from courses, provided that he/she has obtained an equivalent qualification or qualifications as approved by the Senate on the recommendation of the Faculty Board.
21. Where a prerequisite course or courses are prescribed, a student shall be permitted to follow that course only if he/she has attained the minimum requirement for the course or courses stipulated in the Rules. However, a student who has satisfactorily followed but has yet to attain the minimum requirements stipulated for the prerequisite course or courses for a given course may be allowed to follow that course with special permission granted by the Dean, based on a request from the student.
22. A student shall be deemed to have successfully completed the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering if he/she has successfully followed the courses and reached the minimum standard required for the successful completion of the Degree Programme within eight academic years from the commencement of the Degree Programme, as prescribed by Rules.
23. A student who failed to complete a course as prescribed by Rules may register and follow the course in a subsequent semester in which the course is offered in order to complete that course.
24. A student, upon fulfilment of graduation requirements as prescribed by the Rules, shall apply to the Dean of the Faculty of Engineering for the award of the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering.
25. A student shall be deemed to be eligible for the award of the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering with First Class, Second Class (Upper Division or Lower Division), Pass with Merit or Pass if he/she has successfully completed the Degree Programme within four academic years from the commencement of the Degree Programme and has secured the minimum required Grade Point Average as prescribed by Rules.
26. A student who has successfully completed the Degree Programme but not within four academic years from the commencement of the Degree Programme as stipulated under the provisions 25 above shall be eligible for the award of the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering with Pass if he/she has secured the minimum required Grade Point Average as prescribed by Rules.

Special Considerations

27. Notwithstanding the above provisions, each individual case may be dealt with on the basis of its own merit by the Faculty Board, subject to approval by the Senate.

----- End (Regulations) -----

RULES RELATING TO THE DEGREE OF BACHELOR OF THE SCIENCE OF ENGINEERING HONOURS IN ELECTRONIC AND INTELLIGENT SYSTEMS ENGINEERING

1. Degree Programme Duration

- 1.1. The Degree Programme for the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering (hereinafter referred to as the Degree Programme) shall be of four academic years' duration in eight semesters or equivalent, and an Industrial Training course of total duration not less than 24 weeks.
- 1.2. Each semester of the Degree Programme shall typically be of 14 weeks' duration.
- 1.3. The Degree Programme may be preceded by a Foundation Programme of 6-10 weeks' duration.

2. Courses

- 2.1. One course credit is equivalent to 14 hours of lectures. An hour of tutorial work, demonstrations or small-group discussions or two hours of practical classes or in-class assignments is taken as equivalent to a lecture hour. The number of credits assigned to each course is in accordance with the total number of equivalent lecture hours associated with the course.
- 2.2. Following the Sri Lanka Qualifications Framework (SLQF), for lectures, tutorials, demonstrations, practical classes, in-class assignments, small-group discussions and field studies work, one credit (the measure of volume of learning) corresponds to 50 notional learning hours and in the case of industrial training, research project, and workplace-based learning (in suitable settings), one credit is equivalent to a minimum of 100 notional hours.
- 2.3. Respective evaluation panels are granted a degree of flexibility, allowing for up to 02 contact hours per one credit, where deemed necessary. This provides the opportunity to incorporate alternative teaching and learning activities or delivery modes within the specified lecture hours outlined in the course descriptors in recognition of the significance of adaptable course delivery and lecture hour allocation.
- 2.4. Each course shall be conducted within a single semester. However, the Senate may allow certain courses a longer duration on the recommendation of the Faculty Board.
- 2.5. Students shall register for the courses they wish to follow each semester from the courses offered in the relevant semester as recommended during the period announced for registration. The course selection may be changed during the add/drop period specified at the beginning of the semester. No change to course registration is allowed after the add/drop period except under special permission granted by the Dean based on requests from students with valid reasons.
- 2.6. A student once registered for a course in a semester, will receive a grade for the course in his transcript at the end of the semester, and any registration for the same course at a later offering will be considered as repeating the course except where an incomplete grade has been awarded as described in Rule 5.1 below or a 'Leave of Absence' or a 'Deferment' has been granted.
- 2.7. The recommended load of a student in a regular semester is 18 credits, and the maximum number of credits allowed is 24 credits in a regular semester.
- 2.8. To be considered to have satisfactorily followed a course, a student is required to have at least 80% course participation that will be evaluated based on the teaching-learning components of the course specified by the Evaluation Panel and will be clearly announced at the beginning of the course.
- 2.9. End of semester examinations, when appropriate, shall be held from the second week following the end of each semester.

- 2.10. For a student to be eligible to be considered for a makeup examination for a scheduled examination in any course that he/she fails to attend for a valid reason, he/she is required to submit a written request stating the reasons to the Dean as early as possible but not later than one week from the date of the examination. In the case of the seventh and eighth semesters, a student will be given an immediate makeup examination.
- 2.11. Any academic activities of courses including assessments in the entire programme shall be conducted in English medium.
- 2.12. A student may request with valid reasons for 'Deferment' or 'Leave of Absence' from the Degree Programme. The request shall be made in writing to the Dean as governed by the University Policy on Deferment of Registration and Leave of Absence for Registered Students.

3. Degree Programme Contents

- 3.1. The Degree Programme shall comprise Core, Technical Elective and General Elective courses and a mandatory Industrial Training course, as prescribed and recommended by the Faculty Board and approved by the Senate. The courses are subject to variation by the Faculty Board with the approval of the Senate with at least one year's notice to the students of any such change in the Core courses before it takes effect. Grades are awarded for all courses excluding the Industrial Training course which is offered on a pass/fail basis.
- 3.2. A student who has successfully completed the Degree Programme shall be deemed to have earned the required credits for the fulfilment of the requirements for the award of the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering as set out in Rule 7 below.
- 3.3. Students are required to select Technical and General Elective courses chosen from the list of courses recommended by the Department of Electrical and Electronic Engineering.
- 3.4. A student shall not be permitted to register or to have his/her performance evaluated in any course after the lapse of eight academic years from the commencement of the Degree Programme.

4. Assessment Strategy

The assessment strategy shall provide a structured and comprehensive framework for evaluating students' academic progress and proficiency. This approach seamlessly integrates a diverse range of continuous assessments such as quizzes, assignments, group projects, case studies, mid-semester evaluations, laboratories, etc., which encourage active and sustained engagement with the course content, aligning with the specific Intended Learning Outcomes (ILOs) of the course. Additionally, final assessments, including written exams and viva voce evaluations, shall complement this strategy. The evaluation of these assessments, along with a transparent grading policy, shall ensure an equitable and precise reflection of students' academic performance.

5. Method of Grading and Grade Point Average

- 5.1 Grade Points shall be awarded for each course with Grade Points allocated on a four-point scale, as shown in Table 1. Table 1 also shows the recommended conversion from a percentage score to a grade where the assessment for a course is expressed as a percentage score.

Table 1: Recommended conversion from a percentage score to a grade and Grade Points

Marks	Grade	Grade Points
≥ 85	A+	4.0
80 - 84	A	4.0
75 - 79	A-	3.7
70 - 74	B+	3.3
65 - 69	B	3.0
60 - 64	B-	2.7
55 - 59	C+	2.3
50 - 54	C	2.0
45 - 49	C-	1.7
40 - 44	D+	1.3
35 - 39	D	1.0
< 35	E	0.0

Normally, the minimum required grade to earn credit in any course shall be a grade C.

The maximum Grade Point accruing to a student repeating a course shall correspond to a grade C.

To be eligible to follow a course with prerequisites, a student should have a grade of D or above in every course that is stipulated as a prerequisite.

Under exceptional circumstances, acceptable to the Faculty Board, the Dean may authorise awarding an “Incomplete” grade to a student who fails to comply with a compulsory requirement of a course based on a written submission supporting compelling reasons. An “Incomplete” grade will enable the student to complete the course concerned at a later date with the approval of the Dean.

- 5.2 The Grade Point Average (GPA) is the weighted average of the Grade Points secured by the student in the courses that are valid for calculating the GPA for the programme concerned and is calculated as follows:

$$GPA = \frac{\sum_{i=1}^N C_i g_i}{\sum_{i=1}^N C_i}$$

where C_i is the credit of the i^{th} course, g_i is the best Grade Point earned for the course and N is the total number of courses offered that are valid for the calculation of the GPA.

The GPA is rounded up to the nearest 0.01.

The General Elective courses and the Industrial Training course are not considered in the calculation of the GPA.

6. Academic Progression

6.1 The academic progression of a student is determined at the completion of each even semester based on two performance indicators as follows:

- i) Cumulative Grade Point Average (CGPA), a GPA defined as in Rule 5.2 for the courses completed up to the end of the even semester, and
- ii) Cumulative Credit Deficit (CCD), as defined in Rule 7.3.

6.2 A student having the following performance indicator criteria will be ineligible to proceed to the following academic year, and will have to improve the performance indicators to proceed to the next academic year:

- i) At the end of Semester 2: CGPA less than or equal to 1.
- ii) At the end of Semester 4: CGPA less than or equal to 1.5 or CCD greater than 36.
- iii) At the end of Semester 6: CGPA less than or equal to 1.5 or CCD greater than 24.

7. Requirements for the Award of the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering

7.1 Successful completion of the Degree Programme in Engineering within the stipulated period with a minimum GPA of 2.00, and

7.2 Successful completion of mandatory training courses prescribed by the Faculty Board with the approval of the Senate, and

7.3 Securing a minimum total of 124 credits and satisfying the minimum credit requirements as stipulated by the Faculty Board and approved by the Senate excluding the credits from the Industrial Training course.

- i) where the student may be deemed to have earned 124 credits, provided that the grade in any of the courses is not below a D and the CCD defined as follows, does not exceed 16.
- ii) $CCD = \sum c_i d_i$ for all courses with a grade of D, D+ or C-,

where, c_i is the number of credits associated with a course in which the student has secured a grade of D, D+ or C- and d_i is the deficit weightage, defined as 1 for a D, 2/3 for a D+ and 1/2 for a C-.

7.4 The GPA calculated from the courses in the Degree Programme excluding General Elective courses and the Industrial Training course for the award of Classes/Passes are shown in Table 2.

Table 2: GPA requirements for the award of Classes/ Passes in the Degree Programme

First Class:	$GPA \geq 3.70$
Second Class (Upper Division):	$3.30 \leq GPA < 3.70$
Second Class (Lower Division):	$3.00 \leq GPA < 3.30$
Pass with Merit:	$2.70 \leq GPA < 3.00$
Pass:	$2.00 \leq GPA < 2.70$

8. Claiming of the Degree

- 8.1 A student who has satisfied the requirements for the Award of the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering as specified in Rule 7 above shall claim the degree by submitting the duly completed degree claim form within the period announced for claiming the degree.
- 8.2 A student is permitted to claim the total credits specified for elective courses either by claiming to the exact figure or to the nearest highest figure in a combination of courses acceptable to the Dean of the Faculty. The GPA is based on the total credit values of the courses claimed.

9. Special Considerations

Notwithstanding the above provisions, each individual case may be dealt with on the basis of its own merit by the Faculty Board, subject to approval by the Senate.

----- End (Rules) -----

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ANNEXURE II

**STUDENT GUIDE TO
REGISTRATION AND COURSE COMPLETION**

STUDENT GUIDE TO REGISTRATION AND COURSE COMPLETION

The students should conform to the Rules and Regulations of the Undergraduate Programme of the Faculty of Engineering given in Annexure I. Any clarification on the contents therein may be sought from the Dean or Assistant Registrar of the Faculty. The following section provide answers only to frequently asked questions.

- a) The course selection may be changed during ADD/DROP period, after which no changes in registration are possible. The students who were unable to drop a course during the ADD/DROP period should follow the whole course and the grade will appear in the Academic Transcript.
- b) After the ADD/DROP period the total recommended workload from the registered courses for the Semester is 18 credits and should not exceed 24 credits. The credits from EF4010: Industrial Training Course is outside this limit.
- c) Students who fail to satisfy 80% course participation requirement of a course are considered to have not satisfactorily followed the course.
- d) Normally a grade of C is required to earn credit in any course. If the grade is poor (less than C) the course can be repeated in a subsequent semester provided that the timetable allows to fulfil the attendance requirement. The mid-semester examination is a component of continuous assessment. Accordingly, a repeat student is required to sit only for the end-semester examination and is not required to sit for the mid-semester examination. However, if a student wishes to elevate the grade by completing continuous assessments as well, he/she shall complete all continuous assessment components. The maximum grade awarded for a repeated course unit is a "C".
- e) Specified number of credits that should be obtained from the general elective courses is given in Table1. However, its breakdown into
 - Management, Law & Regulatory Environment, Engineering Economics, Professional Ethics and Communication.
 - Humanities, Social Sciences, and Arts

shall be announced by the department of Electrical and Electronic Engineering.

- f) Following a new elective course, the students have a chance of earning a grade as high as A+. Therefore, repeating an elective course which gives a maximum grade of C may not be productive.
- g) Students can follow more technical/general elective courses than the minimum number required for successful completion of the degree. All the credits and grades of courses including repeated courses followed by a student will be shown in the academic transcript. However, a student can select the elective courses in which he/she has obtained the best grades to satisfy the GPA and credit requirements for the degree, subject to the approval of the relevant Department.
- h) The sum of the credits of the selected electives (both technical and general separately) may sometimes exceed the minimum requirement by 1 credit due to different credit values from 1 to 3. This is allowed.
- i) The student can graduate with a Class if he/she completes the minimum graduation requirements within four academic year duration in eight semesters or equivalent. Any student who has failed to complete the minimum graduation requirements within four academic year duration in eight semesters or equivalent is not eligible to get a Class or Merit Pass unless if he/she has been granted special permission.
- j) The student should apply for graduation and demonstrate the completion of all requirements for graduation by filling the Degree Claim Form (DCF).
- k) If a student falls ill while in residence, he/she shall immediately get in touch with the Chief Medical Officer of the University Health Centre. If the student falls ill at home or elsewhere during sessions or examination time, his/her guardian should inform the Dean of the Faculty by a letter within one week stating the nature of the illness, the name of the attending doctor etc.
- l) If a student fails to attend an examination of a registered course due to illness or other exceptional reason and if he/she wishes to request for a makeup examination, he/she should make a request from the Dean of the Faculty for a makeup examination by a letter by the student himself/herself or by a third person within one week of the examination of his/her absence with the valid reason for absence for consideration.*

- m) To be excused for absence from examinations, coursework etc., for medical reasons, the student shall submit to the Dean of the Faculty a valid Medical Certificate conforming to the format of a medical certificate issued by a Government Hospital.
- n) The medical certificate should be obtained from the Chief Medical Officer of the University or a District Medical Officer or, where treatment from a specialist is necessary, from a consultant specialist in the relevant field, or the Head of a Government Base Hospital, or the Medical Superintendent of a Provincial Ayurvedic Government Hospital. Under exceptional circumstances, the University Medical Board may accept medical certificates issued by a private hospital or by a registered private medical practitioner.
- o) A student seeking to get his/her registration deferred at the time of registration should inform the University, giving reasons for such deferment, and obtain permission from the University for such deferment.
- p) If a registered student is compelled to discontinue his/her course of study for any reason, he/she should notify the Dean of the Faculty as soon as possible to obtain permission to be away from the University. If a registered student of the University has abandoned his/her course of study without notifying the Dean, his/her request for readmission will not be entertained.
- q) A request for absence, where granted, is for a maximum of one academic year, except on approved medical grounds. A request granted on medical grounds is for a maximum of two academic years. Readmission of the student is subject to the availability of a place in the Faculty at the time of re-admission. If a student fails to have his/her registration renewed at the beginning of each academic year as required, his or her name will be deleted from the class list of the Faculty, and the student will be informed accordingly.
- r) In the event of a student being prevented by the University from continuing the Degree Programme, the time of the interruption is included in the maximum period stipulated for completing the Degree Programme.
- s) In the event that the student obtains approval for 'Deferment' or 'Leave of Absence', the granted time period is excluded from the stipulated period of the Degree Programme (4 academic years in the case of BScEngHons (Elnc & Intelligent Sys Eng)), provided the reason for granting such 'Deferment' or 'Leave of Absence' is acceptable to the Faculty Board. However, the granted 'Deferment' or 'Leave of Absence' time period is not excluded from the maximum period to complete the Degree Programme (8 academic years in the case of BScEngHons (Elnc & Intelligent Sys Eng)).

* *Subject to revision*

ANNEXURE III

FINANCIAL ASSISTANCE AND AWARDS



FINANCIAL ASSISTANCE AND AWARDS

Financial assistance is normally provided to needy Sri Lankan undergraduates in the form of Mahapola Scholarships and other awards by individuals and organizations.

1. MAHAPOLA SCHOLARSHIPS

This is a national scheme introduced by the Government of Sri Lanka to financially support deserving Sri Lankan students in institutions of higher education. The Mahapola Scholarship Trust Fund set up for this purpose offers two categories of Scholarships:

1.1 Mahapola Higher Education Merit Scholarships awarded on the basis of merit.

1.2 Mahapola Higher Education Scholarships awarded to needy students in the form of bursaries.

The general conditions on which these scholarships are awarded are:

- (a) Scholarship money are payable for only ten-months of the academic year.
- (b) A student receiving a Mahapola Scholarship cannot benefit financially from any other scholarship, but the student has the option to choose the scholarship from which he/she may receive financial support.
- (c) The Board of Trustees may withdraw the scholarship awarded to a student if his/her work, conduct or attendance is reported to be unsatisfactory by the University Grants Commission or if the student fails an examination at the first attempt.

2. ENDOWED ACADEMIC AWARDS

The following awards are available to students of the Faculty of Engineering. While merit is the sole criterion for the award of Medals, Prizes and Scholarships, financial need is an important consideration in the award of Studentships. The criteria to select the best suitable student for each award and studentship may be revised to suit the course unit system and the changes in syllabi. The criterion for selection of medals, prizes and awards will be announced through [FEeLS](#) (Faculty of Engineering e-learning system).

2.1 Medals

- (a) **Peradeniya University Gold Medal** endowed by the University of Peradeniya and awarded for the most outstanding student graduating from Faculty of Engineering.
- (b) **The EOE Pereira Gold Medal** endowed by friends and well-wishers of Professor EOE Pereira and awarded to the most outstanding student graduating from the Faculty.

2.2 Prizes for Overall Performance

- (a) *To be announced*

2.3 Prizes for Performance in a single subject or multiple subjects

- (a) **The JB Dissanayake Prize for excellence in Industrial Training** endowed by Professor AS Balasubramaniam through the Engineering Alumni Awards Fund awarded to the student who has recorded the best performance at the Bachelor of the Science of Engineering Honors degree in the subject EF4010.

2.4 Deans' List

1. The Deans' List is an award to students who have shown academic excellence within a given academic year.
2. A student who is eligible to be included in the Dean's List shall have;
 - a. registered and completed courses of at least 15 credits each obtaining pass grades in the two semesters¹ of the academic year concerned of which at least a total of 21 credits should be from courses that are usually counted for the GPA calculations;
 - b. attained a GPA of not less than 3.70 from all the courses offered in the two semesters that are usually counted for the GPA calculation.

3. Those who are selected to be in the Deans' List will be awarded a certificate and their names with their qualifications will be published in the Faculty web page.
4. The preliminary selection to the Deans' List will be conducted by the Scholarship Committee of the Faculty of Engineering and the final list will be decided by the Faculty Board of the Faculty of Engineering.
5. Selection will be made within the first month of a new academic year.

Note: ¹ the 6th semester for students will be considered as the combination of the two 'Short Semesters'.

3 Open Studentships

These studentships are open for students with financial difficulties and applications will be called by the Deans' office.

Table A3.1: Open Studentships

	NAME OF THE STUDENTSHIP
1	Ananda Amarasinghe Memorial Trust
2	RH Gunaratne Memorial Scholarship Fund
3	M/S Ceylon Tobacco Co. Ltd Scholarship
4	EOE Pereira Studentship
5	RH Paul Studentship
6	Ceylon Oils and Fats Corporation Studentship
7	LRL Perera Fund
8	Colombo Dockyard Studentship
9	Sumitra Munasinghe Studentship
10	Eardly Perera Studentship
11	CL Maddumage Studentship
12	Siripala Jayasinghe Studentship
13	Engineering Jubilee Exhibition Distress Grant
14	Prof. WP Jayasekara Studentship
15	Prof. S Mahalingam Studentship
16	Sri Lanka Telecom Scholarship
17	N Wickramaratne Scholarship
18	Engineering Faculty Studentship
19	Gulamhussaina J Noorbhai Studentship
20	DS Gunasekara Studentship
21	LB Abeyratne Studentship
22	Engineering Faculty 1963/67 Batch Studentship (i)
23	NB Rambukkwella Studentship
24	Engineering Faculty 1963/67 Batch Studentship (ii)
25	Prof. TDA Samuel Studentship
26	Prof. Sanath Ranatunge Studentship
27	K Ramachandra Studentship

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ANNEXURE IV
OUTLINE OF SYLLABI

OUTLINE OF THE PROGRAM

Course Code	Course Name	Credits	Core/ Optional
Semester 1			
EF1010	English for Communication I	3	Core
EM1010	Calculus I	4	Core
EE1010	Electricity	3	Core
EE1050	Analog Electronics	3	Core
EE1052	Signals and Systems	3	Core
CO1010	Programming for Engineers I	3	Core
Total		19	
Semester 2			
EM1040	Advanced Differential Equations	3	Core
EM1020	Linear Algebra	3	Core
EE1053	Random Signal Analysis	3	Core
EE1051	Fundamentals of Artificial Intelligence	3	Core
EE1020	Electronic Device Physics	3	Core
CO1810	Programming for Engineers II	3	Core
Total		18	
Semester 3			
EE2010	Circuit Analysis	3	Core
EE2030	Digital Logic Design and Synthesis	3	Core
EE2056	Data Engineering for AI Systems	3	Core
EE2052	Digital Signal Processing	3	Core
EE2053	Automatic Control Systems	3	Core
	Technical Electives	3	Elective
Total		18	
Semester 4			
EE2054	Embedded Systems Design	3	Core
EE2060	Electromagnetic Theory	3	Core
EM5050	Complex Analysis	3	Core
CO2070	Computer Architecture	4	Core
EE2051	Advanced Artificial Intelligence	3	Core
Total		16	
Short Semester 1			
	General Electives	9	Elective
Semester 5			
EE3030	Communication Systems	3	Core
EE3050	Smart Systems Design Project	3	Core
EE3054	Electric Power	3	Core
EE3051	Intelligent Systems and Automation	3	Core
EE3055	AI Systems Development Management	3	Core
Total		15	
EF4010	Industrial Training	6	Core
Short Semester 2			
	General Electives	6	Elective
Semester 7			
	Technical Electives	6	Elective
EE3052	Intelligent Systems Research Project I	3	Core
EE3053	Intelligent Power Systems	3	Core
Total		12	

		Semester 8	
EE4052	Intelligent Systems Research Project II	3	Core
EE4053	Ethics and Responsible AI	2	Core
	Technical Electives	6	Elective
Total		11	
<i>Note: Semester 6 = Short Semester 1 + Short Semester 2</i>			
<i>Note: The students will go on 24 weeks of industrial training (EF4010) after completion of semester 5.</i>			
Total Degree Program Credits		130	

GENERAL ELECTIVE COURSES (subject to periodic revision)

General Elective courses managed by the Engineering Education Unit (EEU) are listed [here](#). The GE courses offered by the Department of Engineering Management are listed [here](#).

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ANNEXURE V

ENGINEERING EDUCATION AND UNIVERSITY OF PERADENIYA

ENGINEERING EDUCATION AND UNIVERSITY OF PERADENIYA

1. The Nature of Engineering

Engineering has been described as the art of the practical application of scientific principles to "directing the great sources of power in nature for the use and convenience of man". It involves men, money, material, machine and energy and "requires above all the creative imagination to innovate useful applications of natural phenomena". It also has the character of a never-ending search for "newer, cheaper, better means of using natural sources of energy and materials to improve man's standard of living and to diminish labour".

2. Evolution of Engineering Education

Academic training of engineers, as is known it today, took a long time to gain recognition and acceptance due to resistance from within the profession as well as from the universities. Even in Britain, the cradle of the Industrial Revolution, the official history of the Institution of Electrical Engineers (1871 - 1971) records that "the traditional English road to a professional career [in the nineteenth century] did not lie through a university but through apprenticeship: 'learning by doing'. For the solicitor this meant an articulated clerkship; for the doctor, 'walking the wards'; for the civil engineer pupillage in the drawing office and on the site; for the mechanical engineer 'going through the mill'. 'Premium apprentices' heading for a professional career, were marked off from apprentices on the way to becoming skilled tradesmen by the fees that their parents paid and by the expectation that they would study in their spare time. Engineering employers as a rule were apt to be scornful of academic achievements and young men/women who had them might find it politic to keep them hidden. The idea that engineers might qualify by examination was far, very far indeed, from the minds of mid-century employers although Sir John Rennie, a most eminent civil engineer, said as early as 1867, speaking of his own profession, that qualification by examination was 'the only method by which it can take rank among the learned professions'".

In the mid-nineteenth century the proposal to teach engineering in the universities in Britain also ran into opposition from some conservative academics who felt that engineering was far too empirical to be "a proper department in which a degree should be conferred". Radical changes in thinking have taken place since then. In today's complex technological society, graduate engineers form an overwhelming majority of the membership of the professional engineering institutions all over the world. It has been predicted that before long an engineering degree will be a basic requirement for the Corporate Membership of such bodies.

3. Engineering Education in Sri Lanka: a Brief History

In the development of British colonial territories, the teaching of medicine was generally given priority over other forms of tertiary education. This policy led to the establishment in 1870 of a Medical College in Colombo as an "elementary school" for training medical assistants. The College began to expand rapidly and by 1888 it was sufficiently well developed for its LMS (Licentiate of Medicine and Surgery) to be recognised by the General Medical Council of Great Britain. Thus it had become a college for training fully qualified doctors. In 1874, a Council of Legal Education (later Law College) was created to produce lawyers. In a similar development a Technical School was founded in Colombo in 1893 to train sub-professional engineering personnel. It was renamed the Ceylon Technical College in 1933. Unfortunately, the colonial authorities did not have a clear policy on technical education, and in consequence the college went through many vicissitudes being nearly downgraded to an Industrial School at one stage.

Fortunately, engineering education received a welcome stimulus from an unexpected quarter. This was the Ceylon University College, which had been founded in 1921 to prepare students for the University of London's external degrees in Arts and Science. In 1923 the college announced a scheme to award two scholarships every year to promising Science graduates to follow Engineering degree courses in Britain and practical training thereafter. This was to prove a significant step in producing engineering graduates, some of whom would, in due course, rise to the highest levels in the profession and in academia. The Government ended the Engineering Scholarship Scheme in 1932, after a total of 20 awards had been made.

In the meantime, the Ceylon Technical College, where the main activity was the preparation of students for the Associate Membership Examinations of the three major professional institutions in Britain, was being developed steadily. In 1942 it was able to reach University College rank when it received provisional recognition from the University of London to prepare students for its external degree in Engineering. Owing to the prevailing wartime conditions the requirement of an inspection of the teaching facilities was waived.

On 1st July 1942 the University of Ceylon –the first university in the country– was established by the amalgamation of the Ceylon University College and the Ceylon Medical College. At the inception there were four faculties: Arts, Oriental Studies, Science and Medicine. Although the need for Engineering was recognized, planning was deferred owing to the shortage of funds in the stringent wartime economy. The availability of degree courses at the Ceylon Technical College was also another reason for lowering the priority of Engineering. However, in December 1949 a crisis erupted at the Ceylon Technical College when the

University of London made known its intention of reconsidering the provisional recognition in view of some serious shortcomings in the college. This development caused great concern, as continued recognition appeared to be in doubt. The government responded to the crisis by requesting the University of Ceylon to set up a Faculty of Engineering by 1 July 1950. Ill prepared though it was, the University accepted the challenge and with this decision the degree courses at the Ceylon Technical College were wound up.

4. The Faculty of Engineering

The permanent home of the new Faculty was to be in the residential campus in Peradeniya, but until the buildings were ready it was located in Colombo. For the time being, therefore, it had to make use of the laboratory facilities at the Ceylon Technical College, supplementing them with its own equipment. It had three departments of study: Civil Engineering, Electrical Engineering and Mechanical Engineering.

The site for the Engineering complex was a 6-hectare block on the left bank of the Mahaweli River across which a bridge was built for access to the rest of the Campus. The entire project was planned by the staff of the Faculty and the University architects without any significant expatriate expertise. The laboratories, classrooms, library and other facilities were designed for quick and easy access, and ample provision was made for future expansion. When the project was completed in 1964 the move from Colombo took place. The facilities had a floor area of about 18,500 square metres, and 11,200 square metres have been added since then.

In 1942, when degree courses commenced at the Ceylon Technical College, the number of professional engineers in the country was estimated to be around 210, and 104 graduated in the period 1942-50 when the College had its link with the University of London. On the basis of these figures the intake of freshmen to the Faculty in 1950 was fixed at 25. This figure was steadily increased over the years, reaching 150 in 1964, the year of the move to Peradeniya. On requests from the UGC the intake was raised to 250 in 1978 and is currently 455. From its inception in 1950 to 1971, when a second Faculty of Engineering was opened at Katubedde, this Faculty was the only source of supply of graduate engineers in the country. During the period 1950-53 when the Faculty undertook the task of completing the instruction of Ceylon Technical College undergraduates affected by the termination of the degree courses, 92 graduated with the University of London degree. The University of Ceylon's BScEng degree was first awarded in 1953, and in the period 1953-2007, 8956 students have obtained this degree.

Steady expansion and diversification of the Faculty have taken place since the move to Peradeniya and there are now eight departments of study: Civil Engineering, Electrical and Electronic Engineering, Manufacturing and Industrial Engineering, Mechanical Engineering, Chemical and Process Engineering, Engineering Mathematics, Computer Engineering and Engineering Management. The number of professorial chairs in the Faculty is eleven – three each in Civil Engineering, and Electrical & Electronic Engineering, two in Mechanical Engineering and one each in Engineering Mathematics, Manufacturing & Industrial Engineering and Chemical and Process Engineering.

The Faculty offers a full-time undergraduate programme leading to the Degree of Bachelor of the Science of Engineering Honours (BScEngHons). This is of four-years duration, the first semester being common to all students and the remaining seven semesters devoted to specialization in one of the branches of engineering. Coursework (laboratory, design and fieldwork), projects and industrial training form an essential part of the undergraduate course. The undergraduate programmes of the past, with an examination at the end of each academic year, have been replaced by programmes based on the Semester System with effect from 2002, with continuous assessment and examinations held every semester. There are examinations at the end of each Semester.

The Faculty offers a full-time undergraduate programme leading to the Degree of Bachelor of the Science of Engineering Honours in Electronic and Intelligent Systems Engineering (BScEngHons (Elnc & Intelligent Sys Eng)).

The Faculty offers postgraduate programmes leading to Postgraduate Diploma in specialized fields of Engineering (PGDip), degrees of Master of the Science (MSc), degrees of Master of the Science of Engineering (MScEng), Master of Philosophy (MPhil) and Doctor of Philosophy (PhD).

In spite of having to contend with many difficulties similar to those experienced by the universities of other developing countries, the Faculty provides an academic environment of the highest quality and has maintained a gratifying record of teaching, research and public service, the traditional functions of institutions of higher education. Research done in the Faculty has been published at home and abroad, while its consultancy and laboratory services have been provided over the years to private and public sector establishments in the country.

5. Women in Engineering

In Sri Lanka there have never been legal barriers to women aspiring to higher education, and from the very beginning, they were free to seek entry to any department of study in the Medical, Law, Technical and University Colleges. But the traditional conservatism that prevailed in the early years stood in the way of professional careers, and many of them opted for courses in the Arts and the Humanities. These attitudes began to change in the post-war milieu and women began to spread out into all other fields. The Faculty of

Engineering which had been regarded as the proud preserve of men, admitted its first woman undergraduate in 1960 and she went on to specialize in Civil Engineering. Since then the pace has quickened, and the numbers have been increasing steadily. Women engineers have now become well established in the profession, and some have risen to important positions at home and abroad.

5. The University of Peradeniya

The University of Ceylon, the first university in the country, was established in 1942 under the Ceylon University Ordinance (No. 20 of 1942) as a unitary, residential and autonomous corporation. The seat of the university was to be Peradeniya, to which it moved in 1952. With the passage of time the demand for higher education kept increasing, and more universities of different characters were created. In 1967 the government decided to separate the two wings of the University of Ceylon to create two independent universities. After this bifurcation, the Peradeniya wing was named University of Ceylon, Peradeniya. In 1972 there was a complete reorganization of the university system by the University of Ceylon Act No. 1 of 1972, which was passed in January 1972. All the existing universities were merged into a single monolithic University of Ceylon, administered from Colombo. The original universities became constituent campuses, and Peradeniya was given the name University of Ceylon, Peradeniya Campus. When Parliament adopted a Republican Constitution later in 1972, the country's name was changed to Sri Lanka, and this university became known as University of Sri Lanka, Peradeniya Campus. Another reorganization of the University system took place in 1978. By the University Act No. 16 of 1978 (passed in December 1978), the pre-1972 administrative system was restored, creating separate Universities enjoying self-governing powers, under the overall direction of the University Grants Commission. This Act conferred on this university the name of University of Peradeniya. Although many changes have taken place in the administrative structure of the university, it still retains its residential character. The original planning of the campus was based on an estimated student population of 1,000, however, at present there are about 16,000 undergraduate students, well in excess of the available residential capacity. With its nine faculties – Agriculture, Allied Health Sciences, Arts, Dental Sciences, Engineering, Management, Medicine, Science and Veterinary Medicine & Animal Science – Peradeniya remains the largest and the oldest university in the country.

ANNEXTURE VI

RULES & REGULATIONS RELATING TO EXAMINATION PROCEDURE

Extracted from the
MANUAL OF PROCEDURES FOR CONDUCT OF UNDERGRADUATE EXAMINATIONS
University of Peradeniya, April 2023

EXAMINATION RULES

1. A candidate is expected to be outside the examination hall at least 15 minutes before the commencement of each paper, but shall not enter the hall until he/she is requested to do so by the supervisor.
2. On admission to the hall a candidate shall occupy the seat allotted to him/her and shall not change it except on the specific instruction of the Supervisor.
3. A candidate shall have his/her student record book/student identity card and admission card with him/her in the examination hall on every occasion he/she presents himself/herself for a paper. His/her candidature is liable to be cancelled if he/she does not produce the student record book/student identity card and admission card when requested to do so. If he/she fails to bring his/her student record book/student identity card /admission card, he/she shall sign a declaration in respect of the paper for which he/ she had not produced the student record book/student identity card and admission card in the form provided for it, and produce the student record book/student identity card and admission card to the Supervisor within the next three working days. If a candidate loses his/her student record book/student identity card and admission card during the examination period, he/she shall obtain a uplicate of student record book/student identity card and admission card as the case may be from the Registrar or relevant Senior Assistant Registrar/Assistant Registrar for production at the examination hall.
4. A candidate shall not have on his/her person or in his/her clothes or on the admission card, time-table, student record book/student identity card, any notes, signs or formulae, etc., except those items that are permitted. All unauthorized items which a candidate has brought with him/her should be kept at a place indicated by the Supervisor/Invigilator. The candidate shall not wear any digital devices such as smartwatches during the examination.
5. A candidate may be required by the supervisor to declare any item in his/her possession or person.
6. No candidate shall copy or attempt to copy from any book or paper or notes or similar material or from the scripts of another candidate. A candidate shall neither help another candidate nor obtain help from another candidate or any other person. A candidate shall not conduct himself/herself so negligently that an opportunity is given to any other candidate to read anything written by him/her or to watch any practical examination performed by him/her. No candidate shall use any other unfair means or obtain or render improper assistance at the examination.
7. If any candidate was found to have copied from another candidate by an examiner at the time of marking, he/she would be treated as having committed a punishable offence.
8. No candidate shall submit a practical book or field book or dissertation/thesis or project study or answer script or assignment which has been prepared wholly or partly by anyone other than the candidate himself/herself. This section, however, does not apply to group projects/assignments/research of students.
9. A candidate shall bring his/her own pens, ink, mathematical instruments, erasers, pencils or any other approved equipment or stationery which he/she has been instructed to bring. The use of a calculator will be permitted only for examinations that contain a rubric to that effect.
10. Examination stationery (i.e., writing paper, graph paper, drawing paper, ledger paper, precis paper, etc.) will be supplied at the examination hall as and when necessary. No sheet of paper or answer book supplied to a candidate may be torn, crumbled, folded or otherwise mutilated. No papers other than those supplied to him/her by the Supervisor/Invigilator shall be used by candidates. All material supplied, whether used or unused, shall be left behind on the desk and not removed from the examination hall.
11. Every candidate shall enter his/her Index Number/Registration Number on each answer book and on every continuation paper. He/She shall also enter all necessary particulars as required. A candidate who inserts on script an Index Number/Registration Number other than his/her own is liable to be considered as having attempted to cheat. A script that bears no Index Number/Registration Number, or has an Index Number/Registration Number which cannot be identified, is liable to be rejected. No candidate shall write his/her name or any other identifying mark on the answer script unless otherwise authorized.
12. All calculations and rough work shall be done only on paper supplied for the examination, and shall be cancelled and attached to the answer script. Such work should not be done on any other material. Any candidate who disregards these instructions runs the risk of being considered as having written notes or outline of answers with the intention of copying.
13. Any answer or part of an answer, which is not to be considered for the purpose of evaluation, shall be neatly crossed out. If the same question has been attempted in more than one place, the answer or answers that are not to be considered for evaluation shall be neatly crossed out.

14. Candidates are under the authority of the supervisor and shall assist him/her by carrying out his/her instructions and those of the Invigilator during the examination and immediately before and after it.
15. Every candidate shall conduct himself/herself in the examination hall and its precincts as not to cause disturbance or inconvenience to the supervisor or his staff or to other candidates. In entering and leaving the hall, he/she shall conduct himself/herself as quietly as possible. A candidate is liable to be excluded from the examination hall for disorderly conduct.
16. Candidates shall start going through the questions only after being ordered by the Supervisor/Invigilator and stop work promptly when ordered by the Supervisor/Invigilator to do so.
17. Absolute silence shall be maintained in the examination hall and its precincts. A candidate is not permitted for any reason whatsoever to communicate or to have any dealings with any person other than the Supervisor/Invigilator. The attention of the Supervisor/Invigilator shall be drawn by the candidate by raising his/her hand from where he/she is seated.
18. During the course of answering a question paper no candidate shall be permitted to leave the examination hall temporarily. In case of an emergency, the Supervisor/Invigilator may grant him/her permission to do so but the candidate will be under his/her surveillance.
19. No person shall impersonate a candidate at the examination, nor shall any candidate allow himself/herself to be impersonated by another person.
20. Any candidate receiving unauthorized assistance from any person shall be deemed to have committed an examination offence.
21. The Supervisor/Invigilator is empowered to require any candidate to make a statement in writing on any matter which may have arisen during the course of the examination and such statement shall be signed by the candidate. No candidate shall refuse to make such a statement or to sign it. If such a candidate refuses to make such a statement or refuses to sign it, the Supervisor/Invigilator shall make his own statement and report the matter to the Dean of the relevant Faculty.
22. No candidate shall contact any person other than the Vice-Chancellor, Dean, Head of the Department, the Registrar or the relevant Senior Assistant Registrar of the Faculty regarding any matter concerning the examination.
23. Every candidate shall hand over the answer script personally to the Supervisor/Invigilator or remain in his/her seat until it is collected. On no account shall a candidate hand over his/her answer script to an attendant, a minor employee, or another candidate.

Every candidate who registers for a course/course unit shall be deemed to have sat the examination of that course/course unit unless he/she withdraws from the course/course unit within the prescribed period for dropping courses/course units. He/She should submit a medical certificate in support of his/her absence, prior to the commencement of the examination. If such a document cannot be submitted before the commencement of the examination, a candidate shall inform of his/her inability to attend the examination to the Dean of the Faculty within a week after the commencement of the examination. The medical certificate shall conform to the Senate Regulations (Section 3.5).
24. When a candidate is unable to be present for any part/section of an examination of a course/course unit, he/she shall notify or cause to be notified this fact to the Dean of the Faculty and relevant Senior Assistant Registrar or Assistant Registrar immediately. This should be confirmed in writing with supporting documents by registered post within two weeks.
25. A student will be eligible for "a Class" if all requirements for the award of the respective Class are met within the prescribed period for the degree. However, candidates found guilty of an examination offence shall not be eligible for Classes.
26. No student shall sit an examination of a course/course unit, if he/she has exhausted the number of attempts that he/she is allowed to sit that particular examination, unless he/she has been granted special permission to do so by the Dean of the relevant Faculty.

EXAMINATION OFFENCES AND PUNISHMENTS

1. Any candidate who violates Examination Rule 4 shall be deemed guilty of the offence of possession of unauthorized documents/items and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university for a period varying from 1 - 5 semesters.
2. Any candidate who violates Examination Rule 6 or 7 shall be deemed guilty of the offence of copying and therefore his/her candidature shall be cancelled from the examinations of that semester and he/she, shall be prohibited from sitting any examination of this university for a period of five semesters.
3. Any candidate who violates Examination Rule 8 shall be deemed guilty of the offence of having cheated at the examination and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university for period varying from 1 - 9 semesters.
4. Any candidate who is detected removing examination stationery and other material provided for the examination (Rule 10) shall be deemed guilty of an examination offence and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be liable to be prohibited from sitting any examination of the university for a period of three semesters.
5. Any candidate who violates any one or more of the Rules in 5, 14, 15, 16, 17 and 18 shall be deemed guilty of the offence of disorderly conduct and his/her candidature shall be cancelled from the examinations of that semester and he/she shall be prohibited from sitting any examination of this university for a period of three semesters.
6. Any candidate who violates Examination Rule 19 shall be guilty of the offence of impersonation and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university.
Impersonator/s may also be liable to any punishment under the Penal Code/Criminal Law. In the event the impersonator is found to be a graduate of this university, his/her degrees awarded by this university shall be withdrawn.
7. Any candidate who violates Examination Rule 20 shall be guilty of an examination offence and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this university for a period of 1 - 5 semesters.
8. Any candidate found aiding and abetting in the commission of any of the above examination offences shall be deemed to have committed that offence and shall be punished in respect of the offence in accordance with the provisions of the relevant section.
9. Any other offence which is not covered in the above sections alleged to have been committed by a candidate and reported to the relevant authority by a supervisor or examiner shall be inquired into and appropriate action taken.