



HANDBOOK

YEAR
2024



FACULTY OF ENGINEERING
GENERAL SIR JOHN KOTELAWALA DEFENCE
UNIVERSITY

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STUDENT HANDBOOK

Faculty of Engineering

Undergraduate Degree Programmes

GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY
SRI LANKA

Personal Details

Name : _____

Address : _____

Phone : _____

E-mail : _____

Handbook Committee

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Prof JP Karunadasa	: Adviser
Prof WCDK Fernando	: Adviser
Eng IUE Naotunna	: Member
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Mr S Sivanujan	: Convener

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General Sir John Kotelawala Defence University,
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Ratmalana 10390,
Sri Lanka.

The policies and regulations set out here are for the information of the students admitted to the Bachelor of Science Programmes conducted in the Faculty of Engineering.

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**OFFICERS OF THE
GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY**

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OFFICERS OF THE FACULTY OF ENGINEERING

DEAN

Prof Dr -Ing Thushara Weerawardana, BScEngHons (Moratuwa), MSc (Bremen), PhD (Bremen)

HEADS OF DEPARTMENTS

Aeronautical Engineering

Wg Cdr Niroshan Kiriwella MSc (SPPU-India), PGDip (Def) Mgt, BSc(DS) (KDU),
MRAeS (UK), AMIE(SL), ptsc

Civil Engineering

Dr TWKIM Dias, BScEng(Hons) (Moratuwa), MSc (Moratuwa), PhD (Kansas State),
AMIE(SL), CILT

Electrical, Electronic and Telecommunication Engineering

Captain (L) WPC Weerawardena, USP, BSc(DS) (KDU), CEng(IN), AMIE(IN), AMIE(SL),
MIET

Marine Engineering

Commander (E) TADBP Tissaarachchi, USP, BSc(DS) (KDU), MBA (Moratuwa),
CEng(IN), AMIE(SL)

Mechanical Engineering

Captain (E) DS Bogahawatte, USP, BSc(DS) (KDU), MBA (Moratuwa), MMM (Colombo),
CEng, FIE(SL), MIM(SL)

Mathematics

Dr US Rahubadde, BSc(Special) (Kelaniya), PG Dip (Peradeniya), PhD (HUST), CPhys,
MIP(SL), MIEEE

ASSISTANT REGISTRAR

Mr PRCS Jayasundara, BLE (Colombo)



CONTACT INFORMATION

POSTAL ADDRESS : Faculty of Engineering,
General Sir John Kotelawala Defence University,
Kandawala Road,
Ratmalana 10390,
Sri Lanka.

TELEPHONE

Dean : +94 11 262 3027 Ext 273
Assistant Registrar : +94 11 262 3027 Ext 321
Student Inquires : +94 11 262 3027 Ext 321

E-MAIL

Dean : deanfoe@kdu.ac.lk
Assistant Registrar : arfoe@kdu.ac.lk

WEB : <https://foe.kdu.ac.lk>



VISION

Be an internationally recognized centre for education in Engineering and Engineering Sciences as well as multi-disciplinary research focusing on national needs.

MISSION

To produce internationally recognized graduates in Engineering and Engineering Sciences while providing a productive research environment.



Degree Programmes Offered

Aeronautical Engineering

- Bachelor of the Science of Engineering Honours in Aeronautical Engineering
- Bachelor of Science in Aircraft Maintenance Honours

Civil Engineering

- Bachelor of the Science of Engineering Honours in Civil Engineering
- Bachelor of the Science of Engineering Honours in Building Services Engineering

Electrical, Electronic and Telecommunication Engineering

- Bachelor of the Science of Engineering Honours in Electrical and Electronic Engineering
- Bachelor of the Science of Engineering Honours in Electronic and Telecommunication Engineering
- Bachelor of the Science of Engineering Honours in Biomedical Engineering

Marine Engineering

- Bachelor of the Science of Engineering Honours in Marine Engineering
- Bachelor of the Science of Engineering Honours in Naval Architecture and Marine Engineering

Mechanical Engineering

- Bachelor of the Science of Engineering Honours in Mechanical Engineering
- Bachelor of the Science of Engineering Honours in Mechatronic Engineering



Faculty of Engineering

General Sir John Kotelawala Defence University

‘*For the Motherland Forever*’

— **Motto of KDU**

University

General Sir John Kotelawala Defence University was initially established as the Sir John Kotelawala Defence Academy (KDA) in 1981 by the *Sir John Kotelawala Defence Academy Act No. 68* of 1981. The Academy was elevated to the University status in 1988 by the *Sir John Kotelawala Defence Academy (Amendment) Act No. 27* of 1988. It was renamed as General Sir John Kotelawala Defence University (KDU) in 2007 by *Sir John Kotelawala Defence Academy (Amendment) Act No. 50* of 2007. KDU is also a member of the Association of Commonwealth Universities (ACU), United Kingdom and International Association of Universities (IAU).

The KDU is situated in Ratmalana on a 48 acre plot of land that was formerly the residence of the late General Sir John Kotelawala, Sri Lanka's third Prime Minister. This stunning estate is enhanced by a magnificent lake, its natural surroundings, and a variety of rare and unusual species of fauna and flora that have been meticulously maintained to preserve the antiquity of the premises.

From its inception, KDU has made every effort to meet the needs of the Services, producing thousands of graduates for the Tri-services of Sri Lanka. KDU has improved the overall quality of higher education for Service Personnel as a result of its association with regional military training institutes.

KDU started offering degree programmes for Day Scholars from 2010, giving deserving young people the chance to pursue a university education of the highest quality. KDU aims to create a learning atmosphere where both Day Scholars and Officer Cadets can learn together benefiting each other. Students have the chance to participate in extracurricular activities including sports, club activities, and field study programmes giving them the chance to develop their leadership and soft-skills and gain a competitive edge in the job market. KDU also attracts foreign students for its degree programmes from SAARC and other countries.

Faculty of Engineering

The KDA commenced engineering programmes from its inception in 1981 for Cadets from Tri-Services. The first two intakes followed the Engineering Degree programme with the engineering students of University of Moratuwa and obtained the degree from there.

After the Academy was elevated to the University status in 1988, the Bachelor of Defence Studies degree commenced with the Intake V and the degree was offered by the KDA, under a Director of Academic Studies. The degree programme was then upgraded to the Degree of Bachelor of Science (Defence Studies) in Engineering in 1990 from Intake VII onward. All these were three year degree programmes.

The Faculty of Engineering, in its present form, was established in 2011 and is one of the largest faculties at the KDU, consisting of six departments and an Industrial Training Unit (ITU). The degree programme upgraded to Bachelor of Science in Engineering with the duration of four years and offered from Intake XXVII onward.

The Faculty now conducts the Bachelor of the Science of Engineering degree programme in ten specializations which are benchmarked as per the standards established by the Institution of Engineers, Sri Lanka (IESL). The faculty focuses on producing engineering graduates who have acquired the main generic attributes related to engineering including knowledge, problem analysis, investigation, and the design of solutions for complex engineering problems. The Faculty also conducts the joint Bachelor of Science in Aircraft Maintenance degree programme with the Sri Lanka Aviation College (SLAC).

The engineering degree programmes are conducted by qualified internal academic staff, visiting academic staff from other reputed universities, and experienced engineering professionals from the industry. The Faculty of Engineering contributes to the postgraduate degree programmes in the fields of Biomedical Engineering, Civil Engineering, Electrical and Electronic Engineering and, Electronic and Telecommunication Engineering.

The Faculty of Engineering has the following departments.

- Department of Aeronautical Engineering
- Department of Civil Engineering
- Department of Electrical, Electronic and Telecommunication Engineering
- Department of Marine Engineering
- Department of Mechanical Engineering
- Department of Mathematics



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Departments of Study

Academic programmes in Engineering in the KDU are offered by six departments (in alphabetical order), namely

- Department of Aeronautical Engineering
- Department of Civil Engineering
- Department of Electrical, Electronic and Telecommunication Engineering
- Department of Marine Engineering
- Department of Mechanical Engineering
- Department of Mathematics (service department)

These Departments offer ten (10) specialized engineering degree programmes and one (1) specialized maintenance degree programme.

1.1 Department of Aeronautical Engineering

A vibrant academic center dedicated to shaping the future of aviation through innovation and education. The department is committed to providing a comprehensive understanding of aeronautical engineering/ aircraft maintenance engineering, covering the research, design, development, construction, and testing of aircraft.

Explore two distinct degree programmes tailored for aspiring aviation professionals:

1. **Bachelor of the Science of Engineering Honours in Aeronautical Engineering:** Gain a strong foundation in aeronautical engineering through comprehensive curriculum. Delve into aerodynamics, controls, propulsion and cutting-edge technologies. Hands-on projects and industry exposure prepare students to contribute to aviation advancements.
2. **Bachelor of Science in Aircraft Maintenance (Honours):** Focus on ensuring airworthiness and reliability of aircraft. Study aircraft systems, maintenance procedures, and safety protocols. This programme, conducted in collaboration with Sri Lankan Airlines, adheres to the EASA syllabus. Students prepare for a critical role in sustaining the aviation industry as skilled aircraft maintenance professionals.

Excellence extends beyond the classroom, fostering engagement in practical applications, research, and collaborations with industry experts. Experienced faculty ensures a well-rounded education tailored to the dynamic field of aeronautical engineering.

Laboratories

1. Aeronautical engineering laboratory
2. Aircraft structures laboratory and workshop
3. Non-destructive testing laboratory
4. Aircraft systems laboratory
5. Avionics laboratory
6. Aerodynamics laboratory
7. Jet engine test facility
8. Aircraft armaments laboratory
9. Mi-24 Helicopter with hanger facility

Contact Information

HOD : Wg Cdr SN Kiriwella
Phone : 071 021 9260
Email : hodaero@kdu.ac.lk

Office
Phone : 011 263 5268 Ext 642
Email : dept_aeroeng@kdu.ac.lk

Please visit <https://foe.kdu.ac.lk/aero/> for more details of the department and its academic programmes.

1.2 Department of Civil Engineering

The Department of Civil Engineering is a prestigious and established academic department in the Faculty of Engineering at the KDU. The department's broad mandate includes offering the latest knowledge in civil engineering education, research, and development to produce qualified civil engineers.

The Department currently offers the following degree programmes:

1. Bachelor of the Science of Engineering Honours in Civil Engineering
2. Bachelor of the Science of Engineering Honours in Building Services Engineering

Students get opportunities to obtain solid theoretical knowledge and practical expertise through the programmes offered by the Department while also getting involved in many clubs and societies operating at the university and department levels to perform excellently in the industry. The Department also facilitates the Faculty of Graduate Studies of KDU in conducting MSc in Civil and Structural Engineering degree programme.

The Department of Civil Engineering has well-equipped laboratories with updated resources to elevate undergraduate and postgraduate research and education. Furthermore, the qualified academic staff, academic support staff, and non-academic staff contribute in cohesion to produce qualified Civil Engineers who will excel in their careers for the betterment of society.

Laboratories

1. Environmental engineering laboratory
2. Geotechnical engineering laboratory
3. Highway and transportation engineering laboratory
4. Structural engineering laboratory
5. Surveying laboratory
6. Hydraulic engineering laboratory
7. Building material and construction engineering laboratory

Contact Information

HOD : Dr. TWKIM Dias
Phone : 071 021 9277
Email : hodce@kdu.ac.lk

Office
Phone :
Email : dept_civileng@kdu.ac.lk

Please visit <https://foe.kdu.ac.lk/department-of-civil-engineering/> for more details of the department and its academic programmes.

1.3 Department of Electrical, Electronic and Telecommunication Engineering

The Department of Electrical, Electronic and Telecommunication Engineering is the biggest department in the Faculty of Engineering at the KDU. The Department offers the cutting-edge technology in engineering education to produce qualified engineers in Electrical, Electronic, Telecommunication and Biomedical Engineering.

The Department currently offers the following undergraduate degree programmes

1. Bachelor of the Science of Engineering Honours in Electrical and Electronic Engineering
2. Bachelor of the Science of Engineering Honours in Electronic and Telecommunication Engineering
3. Bachelor of the Science of Engineering Honours in Biomedical Engineering

The Department has well-equipped set of laboratories with updated resources to support undergraduate and postgraduate studies. The Department has a team of qualified academic staff to conduct its degree programmes. Also, experienced and qualified engineers from Industry contribute in the conduct of the programmes.

The Department also facilitates the Faculty of Graduate Studies (FGS) of KDU in conducting the following postgraduate degree programmes:

1. MSc in Electrical and Electronic Engineering
2. MSc in Electronic and Telecommunication Engineering
3. MSc in Biomedical Engineering

In addition, the Department collaborates with the FGS in conducting research degree programmes leading to MPhil and PhD degrees.

Laboratories

1. Advance electrical laboratory
2. Communication laboratory
3. Digital system design laboratory
4. Electrical laboratory
5. Power electronics laboratory
6. High voltage laboratory
7. Robotics laboratory
8. 24/7 laboratory
9. Medical instrumentation laboratory
10. Tissue engineering laboratory
11. Biomechanics laboratory

Contact Information

HOD : Capt (L) WPC Weerawardena, USP
Phone : 071 021 9258
Email : hodee@kdu.ac.lk

Office
Phone : 011 263 5268 Ext 640
Email : ma_electrical@kdu.ac.lk

Please visit <https://foe.kdu.ac.lk/electrical/> for more details of the department and its academic programmes.

1.4 Department of Marine Engineering

The Department of Marine Engineering is a unique department in Sri Lanka, with its excellent set of laboratories and facilities with live support received from Sri Lanka Navy. Students following degree programmes in the department get the rare opportunities of learning in the actual marine vessels.

Department of Marine Engineering currently offers following undergraduate degree programmes.

1. Bachelor of the Science of Engineering Honours in Marine Engineering
2. Bachelor of the Science of Engineering Honours in Naval Architecture and Marine Engineering

Marine Engineers and Naval Architects are involved in designing, construction, installation, operation, maintenance and repairing of main propulsion engines and auxiliary machinery systems, which are common to any class of ships or off shore installations. Marine Engineering is one of the most diverse field, which combines with mechanical engineering, electrical engineering and structural engineering disciplines.

Laboratories

1. Marine engineering laboratory
2. Design laboratory
3. Computer laboratory
4. Hydrodynamics laboratory

Contact Information

HoD : Commander (E) TADBP Tissaarachchi, USP
Phone : 071 021 9259
Email : hodmarine@kdu.ac.lk

Office
Phone : 011 263 5268 Ext 291
Email : dept_mreng@kdu.ac.lk

Please visit <https://foe.kdu.ac.lk/department-of-marine-engineering/> for more details of the department and its academic programmes.

1.5 Department of Mechanical Engineering

The Department of Mechanical Engineering plays a dynamic role in the faculty. The department focuses to provide a value-driven platform for students to acquire knowledge and empower themselves to shoulder higher responsibilities in the development of the nation.

The presence of qualified panel of lecturers with a wide range of expertise, teaching experiences, research capabilities, and industrial exposure make a significant contribution to the overall strength of the Department. The Department possesses well-equipped laboratories and strives to maintain the highest standards of education for the Officers from the tri-services, Officer Cadets, and Day Scholars to be readily employable in the industry.

The Department of Mechanical Engineering currently offers the following undergraduate degree programmes.

1. Bachelor of the Science of Engineering Honours in Mechanical Engineering
2. Bachelor of the Science of Engineering Honours in Mechatronic Engineering

Mechanical Engineering is one of the most diverse and versatile engineering field that is a combination of science, mathematics and computing. Mechanical Engineers build the world around us from the tiniest nanotechnology, through to cars and buildings, to airplanes and space stations. Mechatronic Engineering is an emerging field that blends mechanical engineering, electrical engineering, and computer science to demonstrate the close integration of these disciplines.

Laboratories

1. Control and mechanics laboratory
2. Manufacturing laboratory
3. Material testing laboratory
4. Mechatronics laboratory
5. Automobile laboratory
6. Metrology and NDT laboratory
7. Thermodynamics laboratory

Contact Information

HOD : Captain (E) DS Bogahawatte, USP
Phone : 071 021 9275
Email : hodmech@kdu.ac.lk

Office
Phone : 011 262 2995 Ext 408
Email : dept_mecheng@kdu.ac.lk

Please visit <https://foe.kdu.ac.lk/department-of-mechanical-engineering/> for more details of the department and its academic programmes.

1.6 Department of Mathematics

The Department of Mathematics is a service department in the Faculty, catering to the mathematical needs of the Bachelor of the Science of Engineering Honours degree programmes in the Faculty of Engineering. Mathematics modules designed by the department, meet the requirements of engineering degree programme to enhance the students' capacity for overall intellectual growth.

Department is committed to make a significant academic contribution to inculcate a strong mathematical foundation required by engineering students. The Department has a Mathematics Help Center to support and guide students in solving problems, discussing assignments, and student research work, with the assistance of academic staff.

The Department extends its services to several other faculties in the KDU to foster a multidisciplinary approach to learning and provide a holistic educational experience for all students.

Contact Information

HoD : Dr. US Rahubadde
Phone : 0713441641
Email : hodmaths@kdu.ac.lk

Office
Phone : 0112-638654 Ext 570
Email : hodmaths@kdu.ac.lk

Please visit <https://foe.kdu.ac.lk/department-of-mathematics/> for more details of the department and its academic programmes.

1.7 Industrial Training Unit

Industrial Training Unit (ITU) of the Faculty of Engineering facilitates industrial training for Engineering Undergraduates to cater to the standards of Professional Engineers. ITU focuses on imparting best engineering practices obtained through the industrial training programme.

Industrial training unit coordinates registering of students with National Apprentice and Industrial Training Authority (NAITA) before going through the training programme. NAITA is the National body for coordinating Industrial Training. This will include programme to orientate students for the industrial environment and registering the students at NAITA before going to respective industries. After commencement of industrial training, ITU will monitor the progress of students by visiting industries to monitor the progress of training.

Contact Information

Training Engineer : LCdr(E) SMRC Subasinghe
Phone : 077 228 5315
Email : trainingengineer.foe@kdu.ac.lk

Office
Phone : 011 262 2995 Ext 623
Email : trainingengineer-staff.foe@kdu.ac.lk

Please visit <https://foe.kdu.ac.lk/industrial-training-unit/> for more details of the ITU and its function.



Undergraduate Degree Programme

2.1 Introduction

The Faculty of Engineering, General Sir John Kotelawala Defence University offers the engineering degree programme of four academic years duration leading to the degree in *Bachelor of the Science of Engineering Honours*, abbreviated to BSc Eng Hons. The degree programme is conducted in a semester-based system.

2.2 Enrollment

A student admitted to the Faculty of Engineering will register as a full-time student under two categories namely:

- Officer Cadets (Local and Foreign)
- Day Scholars (Local and Foreign)

In addition, student officers from the Police and Tri-Services are admitted to the degree programme. All the students admitted to the Engineering Degree Programme comply with the admission requirement prescribed by the Institution of Engineers, Sri Lanka (IESL) in view of Accreditation requirements. (Minimum of 2C & 1S in GCE(A/L) local in Combined Mathematics, Physics and Chemistry or Minimum of 2B & 1C GCE(A/L) at Cambridge or Edexcel covering Combined Mathematics, Physics and Chemistry).

Foreign students comply with relevant equivalent qualifications with validation obtained from the Department of Examinations of Sri Lanka, such qualifications being adequate to register at a higher educational institution in the home country to follow an undergraduate programme in Engineering.

2.3 Framework of the Degree Program

The degree programme is offered on a full-time semester based system of four (4) years. There are eight (8) semesters, each fifteen weeks (15) and an industrial training period of 24 weeks in the course. The medium of instruction is English. The minimum period of study is four (4) academic years while the maximum period shall **not exceed eight (8)** academic years.

Each semester has an academic load of about 15 Academic Credits (AC) where an Academic Credit is about fifteen (15) hours of lectures, or thirty (30) hours of tutorial/ field work/ laboratory work. (Further activities of one (1) week of project work, two (2) weeks of field camps, or four (4) weeks of industrial training makes one AC).

A student has to complete 150 Academic Credits, including specified compulsory ones, to be eligible for the degree. Officer Cadets has to complete a further 33 Military Credits.

2.4 Description of Modules

The Programmes of Study consist of a combination of GPA, MGPA and NGPA Modules, defined as follows:

Module Type	Description
GPA	Modules that are used in the calculation of Grade Point Average (GPA) Credits. These includes Semester GPA (SGPA), Yearly GPA (YGPA) and Final GPA (FGPA).
NGPA	Modules that are not used in the calculation of GPA – Non GPA Credits.
MGPA	Modules that are used in the calculation of Military Grade Point Average for Military subject modules for Officer Cadets only – MGPA Credits.
CORE	Module that are the core of the degree programme.
COMPULSORY	Modules that are mandatory for the degree programme.
ELECTIVE	Modules that need to be selected from a basket of modules.
OPTIONAL	Module that may be selected from modules offered, other than electives and compulsories.
PREREQUISITE	A module that needs to be completed before proceeding to a particular another module.

2.5 Teaching and Assessments

Teaching and Assessment of course units (or modules) in the Faculty of Engineering are on Outcome Based Educational (OBE) methods. In each module, a set of predetermined learning outcomes (LOs) are designed and achieved through effective teaching and learning activities. While administering the module, a set of diagnostic tests (continuous assessments or CAs) are carried out to estimate the level of achievement of students' competencies in the LOs. At the end of the semester, an examination (EA) will be conducted to evaluate the students achievement in modules.

The Degree Programmes are administrated at different levels; such as Programme Coordinators, Level Coordinators and Module Coordinator. Head of the Department is responsible to administrate the Degree Programme offered by the Department.

Performance of students in each module shall be assessed by formative (in-course) assessments and evaluated by summative (end-of-course) assessments. Usually the minimum pass marks for each component of assessment is 35% unless specified otherwise.

2.5.1 Formative Assessment

Formative assessments are conducted during the period of the module, and consists of suitable combination of assignment, quiz, presentation, oral examination, laboratory work, field work report, and mid semester assessment.

The dates and times for the formative assessments shall be decided by the teaching panel and informed to students at the beginning of the semester. Any exceptions in formative assessments shall be handled by the teaching panel.

2.5.2 Summative Assessment

Summative assessment for each module will be conducted at the end of the semester in which the teaching of the module is completed. The date and time of the summative assessment shall be decided by the Office of the Dean at the beginning of each semester.

Industrial Training will be supervised by engineers at the work site and members of National Apprentice and Industrial Training Unit (NAITA). Academics of the Faculty of Engineering may periodically visit and evaluate the students at work site during the Industrial Training period.

2.6 Attendance and Related Issues

2.6.1 Eligibility to Sit an End Semester Examination

- (1) The eligibility requirement to sit an End Semester Examination in a Course Unit, relevant to the field of study in a particular semester, as a first time candidate, shall be an attendance record of not less than 80%. However, an attendance record of not less than 60% may be considered on valid medical grounds and/or due to any other valid reason approved by the Faculty Board for the purpose of calculating the required attendance.
- (2) A student who is eligible to sit for each and every examination pertaining to a particular module or Course Unit shall sit for such examination at the first scheduled occasion.
- (3) A student who does not meet the eligibility requirement stipulated in Item (1) shall be considered as a repeat candidate, and the maximum grade that can be earned in a subsequent sitting for the relevant module or Course Unit shall be limited to a 'C' grade.

2.7 Examination System

2.7.1 Examination Rules

- (1) Candidates shall be in attendance outside the relevant examination hall at least fifteen (15) minutes before the commencement of an examination but shall not enter the hall until they are required to do so by the supervisor.
- (2) A candidate shall occupy the seat allocated to him and shall not change it without special permission of the supervisor.
- (3) No candidate shall be admitted to the examination hall after the expiry of thirty (30) minutes from the commencement of the examination. No candidate shall be allowed to leave the examination hall until thirty (30) minutes have lapsed from the commencement of the examination or during the last thirty (30) minutes of the examination.
- (4) A candidate shall have his Student Identity Card and the Admission Card with him when he presents himself for an examination. His candidature is liable to be canceled if he does not produce the Student Identity Card and the Admission Card.

If a candidate fails to bring his Student Identity Card and the Admission Card for an examination, he shall sign a declaration in the form provided for it, and produce the identification at a time specified by the supervisor.

If a candidate loses his identification documents at the time of an examination, he shall obtain a duplicate identity card from the University forthwith.

- (5) No candidate shall have on his person or in his clothes, or on the Admission Card, Student Identity Card, Time Table or Record Book any notes, signs, formulae and any such other material. Books, notes, parcels, handbags, mobile phones, pencil cases, wallets, purses and any such other material which a candidate has brought with him should be kept at a place indicated by the Supervisor/ Invigilator.
- (6) The supervisor/invigilator may require any candidate to disclose any item in his possession.
- (7) No candidate shall:
 - (a) copy or attempt to copy from any book or paper or notes or similar material or from the scripts of another candidate.
 - (b) help another candidate or obtain help from another candidate or any other person.
 - (c) conduct himself in a manner that enables any other candidate to read anything written by him or to watch any practical test performed by him.
 - (d) use any other unfair means to obtain or render improper assistance at an examination.
- (8) No candidate shall submit an answer script, project report, dissertation, thesis, field book or practical work which has been done wholly or partly by anyone other than the candidate himself.
- (9) Candidates shall bring their own pens, pencils, erasers, mathematical instruments, or any other approved equipment or stationery.

Candidates are not permitted to use the following during examinations:

- (a) mobile phones
 - (b) electronic diaries
 - (c) electronic dictionaries
 - (d) or other data storage units
- (10) Examination stationery (i.e. writing paper, graph paper, drawing paper, ledger paper, précis paper etc.) will be supplied as and when necessary. No paper other than those supplied by the supervisor/ invigilator shall be used by candidates.

No sheet of paper or answer book supplied to a candidate may be torn, crumpled, folded or otherwise mutilated. Log tables or any other material provided shall be used with due care and left behind on the desk.

All the 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 Index Number on the Answer Book and on every continuation paper. He shall also provide other particulars as indicated in the cover of the Answer Book.

A script that bears no index number or an index number which cannot be identified, is liable to be rejected.

No candidate shall write his name or any other identifying mark on the answer script.

A candidate who inserts a different Index Number on the Answer Book other than his own is liable to be considered as having attempted to cheat.

- (12) All calculations and rough work shall be done only on paper supplied for the examination and shall be canceled and attached to the Answer Script. Such work should not be done on Admission Cards, Time Tables, Question Papers, and Record Books or on any other paper. Any candidate who disregards these instructions is liable to be considered as having written notes or outline of answers with the intention of copying.
- (13) Any answer or part of an answer which shall not be considered for the purpose of assessment shall be neatly crossed out. If the same question has been attempted in more than one place, the answer or answers that shall not be counted shall be neatly crossed out.
- (14) Candidates shall be under the authority of the supervisor and shall assist him by carrying out his instructions and those of the invigilators during, immediately before and after the examination.
- (15) Every candidate shall conduct himself in the examination hall and its precincts so as not to cause disturbance or inconvenience to the supervisor or his staff or to other candidates. He shall conduct himself as quietly as possible in entering and leaving the hall.

A candidate is liable to be excluded from the examination hall for disorderly conduct.

- (16) Candidates shall 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.
- (18) No candidate shall be permitted to leave the examination hall temporarily during an examination.

In case of an emergency, the supervisor may grant him permission to do so under his surveillance.

- (19) No person shall impersonate a candidate at an examination or no candidate shall allow himself to be impersonated by another person.
- (20) Any improper assistance obtained by a candidate from any other person shall be considered as an examination offence.
- (21) If circumstances arise, which in the opinion of the supervisor render the cancellation or postponement of an examination necessary, he shall stop the examination, collect the Answer Scripts already written and report the matter immediately to SAR who shall in turn bring the matter to the notice of the Vice Chancellor without delay.

- (22) The supervisor/invigilator may require a candidate to make a statement in writing on any relevant matter which may have arisen during an examination and such statement shall be signed by the candidate. No candidate shall refuse to make or to sign such a statement.
- (23) No candidate shall contact any person other than the Vice Chancellor, Deputy Vice Chancellors, Dean of relevant Faculty, Head of relevant Department or SAR regarding any matter concerning the conduct of an examination.
- (24) Every candidate shall hand over his Answer Script personally to the supervisor/invigilator or remain in his seat until Answer Scripts are collected. A candidate shall never hand over his Answer Script to a hall attendant, a minor employee or another candidate.
- (25) Every candidate who registers himself for an examination shall be deemed to have sat the examination unless he submits a valid Medical Certificate or obtains leave on a valid ground for absence.

The Medical Certificate shall be from the University Medical Officer. If it is not possible under the circumstances, a Medical Certificate shall be obtained from a Government Medical Officer or a Consultant Specialist, and submitted to the University Medical Officer within the stipulated period.

- (26) When a candidate is unable to present himself for any part/section of an examination, he shall notify or cause to be notified the matter to the Assistant Registrar of the relevant Faculty immediately, which shall be confirmed in writing with supporting evidence within 72 hours.
- (27) A candidate who absents himself for an examination without a valid reason shall not be eligible to receive Class honours at the next attempt for the same examination.
- (28) No candidate shall sit an examination more than the number of attempts he is allowed to sit the particular examination, unless special permission is granted by the University.

2.7.2 Examination Offences

Examination Offences may be classified as any one or more of the following:

- (1) Possession of Unauthorized Materials.

Any candidate who violates Examination Rule in clause 4.1.5 shall be deemed guilty of the offence of the possession of unauthorized materials, and shall be liable for cancellation of his candidature in the examination and to be prohibited from sitting any examination of the university for a prescribed period of time, and to any other punishment as may be prescribed.

- (2) Copying

Any candidate who violates Examination Rule in clause 4.1.7 shall be deemed guilty of the offense of copying, and shall be liable for cancellation of his candidature in the examination and to be prohibited from sitting any examination of the university for a prescribed period of time, and to any other punishment as may be prescribed.

(3) Cheating

Any candidate who violates Examination Rule in clause 4.1.8 shall be deemed guilty of the offence of cheating and shall be liable for cancellation of his candidature in the examination and to be prohibited from sitting any examination of the university for a prescribed period of time and to any other punishment as may be prescribed.

Where a candidate is found cheating in an examination, before he is approached, the invigilator must summon the supervisor or another invigilator to assist and act as a witness.

The supervisor shall mark on the candidate's Answer Script that an act of cheating is suspected to have taken place.

Action shall be taken in such a way as to minimize disturbance to other candidates, and it should be consistent with the need to avoid undue upset for the candidate facing further examinations.

Normally, the candidate concerned shall be allowed to continue with the examination once the supervisor has taken appropriate action.

(4) Removal of Stationery

Any candidate who is detected removing examination stationery and other materials provided for the examination (Examination Rule in clause 4.1.10) shall be deemed guilty of an examination offence and shall be liable for cancellation of his candidature in the examination and to be prohibited from sitting any examination of the university for a prescribed period of time, and to any other punishment as may be prescribed.

(5) Disorderly Conduct

Any candidate who violates any one or more of the Examination Rules in clause 6, 14, 15, 16, 17 and 18, shall be deemed guilty of the offence of disorderly conduct and shall be liable for cancellation of his candidature in the examination and to be prohibited from sitting any examination of the university for a prescribed period of time, and to any other punishment as may be prescribed.

(6) Impersonation

Any candidate who violates Examination Rule in clause 19 shall be guilty of the offence of impersonation and shall be liable for cancellation of his candidature in the examination and to be prohibited from sitting any examination of the university for a prescribed period of time, and to any other punishment as may be prescribed.

(7) Improper Knowledge

Any candidate who violates Examination Rule in clause 20 shall be guilty of an examination offence and shall be liable for cancellation of his candidature in the examination and to be prohibited from sitting any examination of the university for a prescribed period of time, and to any other punishment as may be prescribed.

(8) Aiding and Abetting

Any candidate found aiding and/or abetting in the commission of any of the above examination offences shall be deemed to have committed such offence and shall be liable for the same punishment/s.

2.7.3 Punishment for Examination Offences

Punishments for the examination offences shall be as follows. The Board of Management (BoM) may impose any one or more of the following punishments, as it deems appropriate, depending on the degree of severity of the offence/s committed by a candidate.

- (1) Warning
- (2) Admonition
- (3) Reprimand
- (4) Severe Reprimand
- (5) Suspension from attending lectures and other activities at the University for a specified duration
- (6) Cancellation of Candidature for a prescribed duration
- (7) Relegation to the immediate junior Intake
- (8) Termination of studentship at the University

2.8 Evaluation of Performance

2.8.1 Grade Point Value (GPV)

Students performance is graded on a scale ranging from A+ to D+. Grades in respect of all Course Unit/ examinations is determined as in the Table below.

Marks	Grade	GPV
85 – 100	A+	4.00
75 – 84	A	4.00
70 – 74	A-	3.70
65 – 69	B+	3.30
60 – 64	B	3.00
55 – 59	B-	2.70
50 – 54	C+	2.30
45 – 49	C	2.00
40 – 44	C-	1.70
35 – 39	D+	1.30
ES < 35	Ie	0.00
CA < 35	Ia	0.00
ES+CA < 35	Ib	0.00
Ne	Ne	0.00
Ex	Ex	0.00
Ab	Ab	0.00

- (1) Grade 'C' and above are pass grades. They require, in addition to achieving the overall mark indicated, a mark of 35% or above in the ES component, and 35% or above in the CA component.
- (2) Grade 'C-' and 'D+' are conditional pass grades and require, in addition to achieving the overall mark indicated, a mark of 35% or above in each ES component, and 35% or above in the CA component.
- (3) Grade 'Ia' and 'Ie' are incomplete grades given for failing to reach 35% in the ES and CA components respectively.
- (4) Grade 'Ib' is a fail grade given for failing to reach 35% for both ES and CA components.
- (5) 'Ne' is indicative of 'Not Eligible' and is recorded when the eligibility criteria to sit for the ES examination have not been satisfied.
- (6) 'Ab' is recorded for being absent at an ES examination. The CA mark will be carried over to a subsequent sitting as a repeat candidate.
- (7) 'Ex' is recorded for being absent for the ES examination for a valid excuse accepted by the Faculty Board. The CA mark will be carried over to a subsequent sitting as a first attempt candidate at the next scheduled ES examination.
- (8) The highest grade obtainable at a repeat attempt, including to upgrade a result, is the grade 'C', other than for NGPA Course Unit.

2.8.2 Grade Point Average (GPA)

The GPA is the credit weighted average of the grade points of value of all Course Units except NGPA Course Units taken in the degree programme.

GPA is calculated for each semester (SGPA) for each year (YGPA) and for the entire degree programme (FGPA) as follows:

$$\text{GPA} = \frac{\sum_{i=1}^N C_i * G_i}{\sum_{i=1}^N C_i} \quad (2.1)$$

where C_i is the academic credit of the i th course unit, G_i is the best GPV earned for the course unit and N is total number of course units offered that are valid for the calculation of GPA.

2.8.3 Semester Grade Point Average (SGPA)

The semester Grade Point Average (SGPA) is the Cumulative GPA for a semester and ascertains the performance of a student in the particular semester. It is calculated on a weighted basis as follows:

$$\text{SGPA} = \frac{\sum C_i * G_i}{\text{Cumulative credit value of all GPA courses of semester}} \quad (2.2)$$

2.8.4 Year Grade Point Average (YGPA)

The year grade point average (YGPA) is the Cumulative GPA for a year and ascertains the performance of a student and whether the student can proceed to the following year. It is calculated on a weight basis as follows:

$$\text{YGPA} = \frac{\sum C_i * G_i}{\text{Cumulative credit value of all GPA courses of the Year}} \quad (2.3)$$

2.8.5 Final Grade Point Average (FGPA)

The final Grade Point Average (YGPA) is the Cumulative GPA for the entire period of a degree programme and ascertains the performance of a student in the degree programme. It is used in the Award of a Class or a Pass in the degree. It is calculated to the second decimal place on the completion of all requirements for such programme as follows.

$$\text{FGPA} = \frac{\sum C_i * G_i}{\text{Cumulative credit value of all GPA courses of the Degree Programme}} \quad (2.4)$$

All non-GPA credit courses (NGPA courses) shall not be considered for determining the Semester Grade Point Average (SGPA), Year Grade Point Average (YGPA) or the Final Grade Point Average (FGPA).

2.9 Graduation Requirements

2.9.1 Minimum and Maximum Residence Times

The minimum duration of the academic programme is four academic years, calculated from the date of registration of students to the academic programme. The maximum allowed duration of academic study is **eight years** (8), calculated from the date of registration.

2.9.2 Credit Requirements

- (1) Following the programme in the specified field of study for the minimum stipulated period of time;
- (2) Satisfactory completion of the academic requirements of all semesters of the Degree Programme;
- (3) Obtaining a minimum of 135 GPA credits and a minimum of 15 NGPA credits;
- (4) Fulfillment of the criteria for completing the examinations within the maximum stipulated period;
- (5) Earning a GPA of not less than 2.00 for the entire Degree Programme;
- (6) Not having more than one 'D+' or 'C-' grades per semester in the entire Degree Programme.

2.9.3 Award of Degree

2.9.3.1 Criteria for Award

- (1) Satisfactory completion of the academic requirements of all the semesters of the Degree Programme.
- (2) Following the Degree Programme in the specified field of study for the minimum stipulated period of time.
- (3) Obtaining a minimum of GPA credits and a minimum of NGPA credits, as stipulated in the respective Degree Programme Curriculum.
- (4) Fulfilling the criteria for completing the examinations within the maximum stipulated time period.
- (5) Earning a GPA of not less than 2.00 in each semester of the Degree Programme.
- (6) Not having more than one (1) Conditional Grade per semester in the Degree Programme.

2.9.3.2 Award of Class

Awarding of classes shall be determined at the completion of all requirements for graduation within the minimum time period stipulated for the Degree Programme, except upon approval granted by the BOM on the recommendation of the BOE for a valid reason.

The highest eligible class shall be awarded based on the FGPA rounded off to the second decimal as given in the table below and on the following descriptions:

Table 2.1: Criteria for award of classes

FGPA	Academic Stand
3.70 – 4.00	First Class
3.30 – 3.69	Second Class (Upper Division)
3.00 – 3.29	Second Class (Lower Division)
2.00 – 2.99	Pass

For the award of a First Class, Second Class (Upper Division) and a Second Class (Lower Division), a student shall have completed all the requirements within eight (8) semesters in the Bachelor of the Science of Engineering Honours Degree Programme, except upon approval granted by the BOM on the recommendation of the BOE for a valid reason.

If the Advanced Military Training component falls outside the academic programme, Officer Cadets shall successfully complete such component, in addition to academic components stated above, for the award of classes.

2.9.3.3 First Class

For the award of a First Class, a student shall:

- (i) have completed all the requirements within the stipulated period as specified in Section (2.9.3.2);

and

- (ii) have received a FGPA of not less than 3.70 for the entire Degree Programme;

and

- (iii) not have received any failure GPA grades (Ia, Ie, Ib) at any time during the Degree Programme other than in the first year;

and

- (iv) not have carried over any Conditional Passes for the entire Degree Programme;

and

- (v) have earned a cumulative MGPA of 3.00 in the Final Examination in Advanced Military Training at respective Military Academies (*for Officer Cadets only*).

2.9.3.4 Second Class (Upper Division)

For the award of a Second Class (Upper Division), a student shall:

- (i) have completed all the requirements within the stipulated period as specified in Section (2.9.3.2);

and

- (ii) have earned GPA of not less than 3.30 for the entire Degree Programme;
and
- (iii) have earned a cumulative MGPA of 3.00 in the Final Examination in Advanced Military Training at respective Military Academies (*for Officer Cadets only*).

2.9.3.5 Second Class (Lower Division)

For the award of a Second Class (Lower Division), a student shall:

- (i) have completed all the requirements within the stipulated period as specified in Section (2.9.3.2);
and
- (ii) have earned GPA of not less than 3.00 for the entire Degree Programme;
and
- (iii) have earned a cumulative MGPA of 3.00 in the Final Examination in Advanced Military Training at respective Military Academies (*for Officer Cadets only*).

2.9.4 Merit Awards

2.9.4.1 Criteria for Merit Award

Students obtaining the highest FGPA in Military Studies and/or Academic Studies shall be entitled for the respective Awards/Trophies of merit.

- (1) The minimum should be a Second Class (Upper Division) to receive a Merit Award;
- (2) An awardee should not have been subjected to punishments on disciplinary grounds.

2.10 Recognition of Sports Activity

- (1) Sports activities are encouraged as persons who have been engaged in sports have the ability to work as a team and leadership skills.
- (2) Sports activities may be granted extra marks by the BOE on the recommendations of the Dean/FDSS and the relevant Faculty Board, as prescribed in Rules applicable to the Officer Cadets.

2.11 Dean's List / VC's List

Recognition for inclusion in the VC's List or in the Dean's List will only be if students have not been subjected to severe punishment on disciplinary grounds or guilty of any serious violation of the student code of conduct.

2.11.1 Dean's List

Any student who achieves a YGPA of between 3.70 and 3.90 as per the merit order, is eligible to be in the Dean's List.

2.11.2 VC's List

Any student who achieves a YGPA of 3.90 or above as per the merit order list is eligible to be in the Vice Chancellor's List.

2.12 Effective Date of a Degree

The effective date of the degree shall be reckoned as the last date of the completion of all requirements for the award of the degree.

The degree will be valid and effective only after the results are confirmed by the Senate and approved by the BOM.



Medals, Awards and Prizes

Students obtaining the highest GPA in Academic Studies are entitled for the respective Awards of merit. Awards to which students may be eligible on the recommendation of relevant authorities and the approval of the Board of Management are:

- (1) Trophy for the First in order of Merit in the Intake awarded by Gen. SC Ranatunga VSV, USP, psc.
- (2) Trophy for the best overall performance in Academic Studies in the Faculty of Engineering awarded by the KDU.
- (3) Trophy for the best Graduand in Aeronautical Engineering awarded by Air Vice Marshal U Wanasinghe BSc(Cey), USP, psc.
- (4) Trophy for the best Graduand in Aircraft Maintenance offered by Sri Lankan Aviation College.
- (5) Trophy for the best Graduand in Biomedical Engineering.
- (6) Trophy for the best Graduand in Civil Engineering.
- (7) Trophy for the best Graduand in Electrical and Electronic Engineering awarded by Mrs. Nilanthi Fernando in memory of her late husband Cmde. EMK Fernando, SLN, MSc(DS), CEng, psc.
- (8) Trophy for the best Graduand in Electronic and Telecommunication Engineering.
- (9) Trophy for the best Graduand in Marine Engineering.
- (10) Trophy for the best Graduand in Mechanical Engineering.
- (11) Trophy for the best Graduand in Mechatronic Engineering.
- (12) Trophy for the best Graduand in Building Services Engineering.
- (13) Trophy for the best Graduand in Naval Architecture and Marine Engineering.



Facilities

4.1 Library

General Sir John Kotelawala Defence University Library (KDUL) is the main student support services the University offer for the learning and advancement of knowledge of the KDU community.

The library supports students to achieve their learning goals and to make them learned professionals with higher graduate profiles. The library supports University to achieve its mission by providing dynamic and proactive information services. KDUL network is to provide a variety of resources in multiple formats which to enhance teaching, learning and research activities of the University.

The KDU Library network consists of the Main Library, Southern Campus Library, and two faculty libraries; the Library of Faculty of Medicine and the Faculty of Allied Health sciences. It caters to over 6000 members, including both students and staff.



Figure 4.1: KDU Library reading section

4.2 24/7 Laboratory

The 24/7 research laboratory has been set up mainly to cater to high-end research by postgraduates and research fellows. This facility is also open to undergraduates of the

department. The laboratory is equipped with modern equipment and design/ simulation tools. It is built to give a rich working environment with all the necessary support facilities. The laboratory is open round the clock.

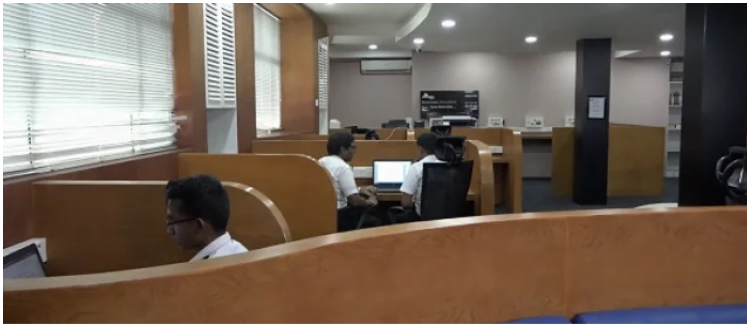


Figure 4.2: 24/7 Laboratory

4.3 Language Laboratory

Language learning is a path to wisdom. It entails larger horizons of knowledge, self-empowerment, better attitudes, and fair conducts and develops respect and tolerance towards cultural, social, and political diversity, which is essential for peaceful and harmonious living.



Figure 4.3: Language laboratory session

While English language is given priority as it is the medium of instruction at the university, the Department of Languages at the Faculty of Management, Social Sciences and

Humanities (FMSH) conducts basic Sinhala and basic Tamil courses for all KDU students in order to give them an exposure to these national languages.

All foreign students studying at the university are required to follow national languages courses. Students whose native language is Sinhalese are required to follow the Tamil course and the students whose native language is Tamil have to follow the Sinhala language course. There are two language laboratories at the Department of Languages at the FMSH.

4.3.1 Level III Laboratory

In level III laboratory mainly focus on listening and speaking skills. Students have the ability to use audio taped materials to improve their listening skills. Main benefit of this level III laboratory provides an opportunity for students to record and listen to their own speech. It supports for a standard pronunciation by comparing with their speaking skills.

4.3.2 Level IV Laboratory

Level IV laboratory is a computer based laboratory. This is used for improving four learning skills such as listening, speaking, reading & writing. American English course is used as a material in this laboratory. Department of Languages specially conducts lectures for training officers going to USA for various courses.

4.4 Modern Auditorium

The auditorium is designed with a focus on comfort and modern technology. It has high-definition audio-visual systems that can accommodate a variety of presentations. Additionally, it features a large digital screen, and LED lighting to create an immersive viewing experience. It also provides free WiFi access and charging stations to help keep everyone connected. The facility also has comfortable seating.



Figure 4.4: Modern Auditorium

4.5 Sports

KDU encourages all students to take part in sports activities as an integral part of their training. Further, KDU provides facilities and equipment for team sports such as soccer, rugby, cricket, basketball, volleyball, hockey, and individual sports such as squash, tennis, Badminton, table tennis and swimming, etc. KDU teams play regular matches with other universities and clubs. Entrance to National Tournaments at appropriate levels can also be facilitated.



Figure 4.5: Sports activity

A swimming pool, table tennis and weight training equipment, gymnasium and playground are also available for the use of students.

4.6 Medical Centre

The main objective of KDU medical centre conveniently located in the University premises is to provide health care for resident students and the University community in order to cater healthcare and emergency medical needs. It operates a 24-hour ambulance service and daily clinics. University Medical Officer (UMO) and his supportive staff of nurses and attendants are dedicated to cater to the health care needs of the University community. In addition to his main duties, UMO has the sole authority to issue medical certificates and validate external medical certificates.



Student Societies

1. IEEE Engineering Medicine and Biology Society (EMBS)
2. Student Chapter of the Royal Aeronautical Society
3. Civil Engineering Society
4. Highway Engineering Society
5. Electronic and Robotic Engineering Club
6. IMechE Student Chapter of KDU
7. Marine Engineering Society
8. IEEE Power and Energy Society (PES)
9. IET on Campus
10. IEEE ComSoc KDU

