



**Faculty of Engineering
University of Ruhuna
Galle
Sri Lanka**

**HANDBOOK
Academic Year 2012/2013**

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Our Vision

To be the centre of excellence in engineering education and research of the nation

Our Mission

To create opportunities for the benefit of the society in engineering and applied technologies through education, research and associated services

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2 THE FACULTY OF ENGINEERING AND THE DEGREE PROGRAMME

2.1 Introduction

The Faculty of Engineering of University of Ruhuna was established on 1st July 1999 at Hapugala, Galle. First batch of students was admitted on 27th March 2000. This is the third conventional Faculty of Engineering in Sri Lanka after those at University of Peradeniya and University of Moratuwa. The Open University of Sri Lanka has a Faculty of Engineering Technology where teaching is in the distance mode.

Admission to the Faculty of Engineering, University of Ruhuna, is subject to the University Grants Commission policy on university admissions. The present annual intake to the Faculty is 225.

The Faculty of Engineering offers full-time courses leading to the Degree of Bachelor of the Science of Engineering (B.Sc.Eng.), which is accredited by the Institution of Engineers, Sri Lanka (IESL).

Four academic departments in this Faculty are;

- i. Department of Civil and Environmental Engineering,
- ii. Department of Electrical and Information Engineering,
- iii. Department of Mechanical and Manufacturing Engineering and
- iv. Department of Interdisciplinary Studies.

The first three departments prepare students for B.Sc.Eng. degree in disciplines as indicated in their titles, while the fourth department offers course modules in areas such as Mathematics, Personal Development, Humanities, Social Sciences, Economics, Finance, Management, and Entrepreneurship, which are considered common to all disciplines.

The degree courses have been developed with the aim of building undergraduate education around a central core of Fundamentals of Engineering Science and Technology modules, complemented by a number of General and Technical elective modules which provide the flexibility and adaptability required in a constantly changing world.

2.2 Aims of the Faculty

The primary aim of the Faculty is producing engineers of the highest quality who, with experience, should be able to hold responsible positions at the highest levels of the profession, possessing the wisdom to recognize their own limitations in the face of new developments and the necessary skills to benefit from continuing professional development.

The programme of study offered by the Faculty is dedicated to develop in each student:

- The technical and scientific skills and the creativity required to solve all aspects of engineering problems;
- An understanding of the human interaction with the environment so that the impact of engineering activity can be assessed;
- The ability to direct and manage engineering activities;
- the ability to communicate with members of other professions, administrators, workers and members of the public;
- The desire and ability for continuing self-education and reappraisal of current practice, including the ability to innovate; and
- The ability to evaluate and criticise constructively one's own work and the work of other engineers.

In order to fulfil these aims, the students are offered well designed modules that provide:

- A sound knowledge of the fundamentals of engineering science with an appreciation of their application to contemporary problems;
- An understanding of the principles of the scientific method and practice in their application;
- An understanding of the principles of design and practice with an appreciation of the industrial environment and the socioeconomic conditions under which the industry operates;
- Training and practice in many forms of communication;

- Training in the techniques of acquiring information by personal study, experimentation and discussion; and
- An opportunity to develop creativity.

While the fundamentals of engineering remain largely unchanged, our modules also reflect the rapid changes in modern engineering advancements. As the technical content of the courses in itself is not sufficient to tackle engineering problems, an opportunity is provided throughout the courses to develop the intellectual and communicative abilities among the students.

2.3 General Structure of the Degree Programme

The Bachelor of the Science of Engineering (B.Sc.Eng.) degree programme is a full-time course of modular structure, organised on a two-semester-a-year system, over a duration of four academic years. Examinations and evaluations are held throughout each semester. A Developmental Programme of 8 – 10 weeks consisting of courses in Computer Applications, English, and Social Awareness is provided as a preparation for the degree programme and all students should follow it. During the development programme, the students are expected to get used to the University-style of education, while bringing up their standard of English and Computer usage to a level required

In the first two semesters, all students follow a common core course. The specialization courses are offered in the three major fields of study, viz. Civil and Environmental Engineering, Electrical and Information Engineering, and Mechanical and Manufacturing Engineering, from the third semester onwards.

The medium of instruction is English. Answers at examinations and all other formal submissions shall be presented in English. Therefore, all students are strongly encouraged to apply the English language in everyday use as much as possible.

3 ACADEMIC REGULATIONS AND PROCEDURES

3.1 Admission Requirements

All applicants for admission to the Bachelor of the Science of Engineering (B.Sc.Eng.) degree programme in the Faculty of Engineering must satisfy the general University admission requirements for Faculties of Engineering as laid down by the University Grants Commission (UGC), Sri Lanka and must have been selected according to the stipulated University Admission Criteria. Applicants with foreign qualifications referred for admission by the University Grants Commission will be admitted only with the consent of the Faculty Board of Engineering.

3.2 Registration

Students admitted to the Faculty shall register as full-time students. Registration on part time basis requires the approval of the Faculty Board. A student should pay any fees prescribed by the University and maintain registration during the period of study.

A student shall register for the course modules during the first week of every semester as prescribed by the Faculty Board. The student is duly informed regarding the registration procedure prior to the commencement of every semester by the administration of the Faculty of Engineering. A student is required to consult with the designated Academic Adviser (section 3.7) before registration in every semester regarding the academic load (section 3.8) and the options available.

With relevant permissions, a student is allowed to add or drop modules after the registration only within the period prescribed by the Faculty Board, and the registration form should be amended accordingly.

A student may withdraw from the programme due to a valid reason for a period with the approval of the Senate on the recommendation of the Faculty Board.

3.3 Academic Calendar

The official academic calendar of dates approved by the Faculty Board is announced prior to the commencement of each academic year. A typical academic year will be as follows:

Odd Semester (1 st half)	7 weeks	Even Semester (1 st half)	7 weeks
Mid-semester recess	1 week	Mid-semester recess	1 week
Odd Semester (2 nd half)	7 weeks	Even Semester (2 nd half)	7 weeks
Study leave	1 week	Study leave	1 week
Examination period	2 weeks	Examination period	2 weeks
Vacation	1 week	Industrial Training	12 weeks
		Work Camp / Vacation	3 weeks

3.4 Course Structure

The programme of study leading to the B.Sc. Eng. degree consists of:

- i. a common core course extending over the first two semesters, and
- ii. a specialisation course of three academic years' duration extending over the next six semesters.

A Developmental Programme of 8 – 10 weeks consisting of courses in Computer Applications, English, and Social Awareness is provided as a preparation for the degree programme and all students should follow it. A grade 'Pass-H' indicating a high achievement or a grade 'Pass-M' indicating a mediocre achievement or a grade 'Pass-S' indicating a satisfactory achievement shall be awarded on successful completion of each course. A student who receives a grade fail, 'Fail-E', shall improve it to a grade "Pass-S". Two repeat attempts along with supplementary sessions to improve the grade shall be offered within the subsequent academic year. Registration for the specialisation courses shall be withheld unless all courses offered in the Developmental Programme are successfully completed by a student.

However, a student who failed the Developmental Programme even after the repeat attempts may appeal to the Dean to consider for registration for Specialization courses. Such appeals shall be

considered on a case-by-case based on satisfactory attendance during Developmental Programme and completion of all modules in Semester 1 and 2. In the event that such appeal is granted the student will be allowed to register for the specialization course subject to the condition specified by the Faculty Board of Engineering with the approval of the Senate.

In the Common Core Course a student shall take 36 (thirty six) credits prescribed by the Faculty Board. In the specialisation course a student, in addition to Core modules prescribed for the major field of specialisation, shall choose Technical electives and General Elective modules as recommended by the Senate on the recommendation of the Faculty board. The syllabus for each course module, mode of evaluation, examination criteria shall be prescribed by the Senate on the recommendation of the Faculty Board.

Each module is assigned a credit value that indicates the student's workload associated with class attendance and preparation. One credit shall typically be equivalent to academic work involved in attending one hour of lecture/ two hours of seminar per week; or two to four hours of laboratory/ field/ design work per week, over a period of one semester. A Work Camp/ Training Course of two weeks' duration or Industrial Training attachment of four weeks' duration is considered as the equivalent of one credit. The modules offered in a semester and the number of credits assigned to each module is determined by the Faculty Board and the students duly informed ahead of the commencement of that semester.

3.5 Common Core Course

The Common Core Course offered jointly by all departments of study in the Faculty shall consist of 14 (fourteen) modules carrying thirty six (36) credits towards the graduation requirement as follows:

Semester 1		Semester 2	
CE1301	Introduction to Civil Engineering	CE2201	Fundamentals of Fluid Mechanics
EE1301	Introduction to Electrical Engineering	CE2302	Mechanics of Materials
EE1102	Introduction to Programming	EE2201	Object Oriented Programming
ME1201	Fundamentals of Engineering Thermodynamics	EE2202	Introduction to Electronic Engineering
ME1202	Engineering Drawing	ME2201	Engineering Mechanics
IS1401	Mathematical Fundamentals for Engineers	ME2302	Introduction to Materials Science and Manufacturing Engineering
IS1302	Communication for Engineers	IS2401	Linear Algebra and Differential Equations
18 Total Credits		18 Total Credits	

Note:

The first two letters in the module number represent the department of study, the first numeral stands for the semester number, the second numeral stands for the credit value and the last two numerals stand for the departmental module number.

A minimum of twenty six (26) total credits are required to obtain for the registration to the specialization course. A student who fails any module in the Common Core Course should improve the grade to pass level (grade C) by reattempting the module as a repeater during his/her academic duration satisfying the conditions in section 3.9. Note that those who are re attempting the modules should follow the procedures mentioned in section 6.3.

The selection of students to the fields of specialization will be made at the end of Semester 2 of the programme. Student should apply for their preferred field of study within the period prescribed by the Faculty Board. When the number of applicants for a field of specialization is more than the number of vacancies available, selection would be done using the merit list based on the mean of the Semester Grade Point Average (SGPA) of Semesters 1 and 2. When calculating the mean SGPA for preparing the merit list the Grade Point Values (GPV) for Grades N and W are taken as zero.

If a student fails to obtain the minimum requirement of twenty six (26) credits due to medical or any other acceptable reason, he/she should get proper approval through the Faculty Board for the academic concession. His/her registration for the specialisation courses will be determined as in

sections 3.5 paragraph 4 (above). In addition, such a student has the option to complete all modules in the next available attempt and obtain required total credits to register for a specialisation course as a first attempt candidate. In this case, the student should inform the Dean about his/her option within one week after the final date of the relevant semester examination.

When the number of applicants having the same Common Core SGPA are competing for a fewer number of vacancies under a specialization, tie breaking in allocation is done based on the performance in tie breaking modules. List of tie breaking modules for each department is shown below.

Civil and Environmental Engineering	CE2201	Fundamentals of Fluid Mechanics
	CE2302	Mechanics of Materials
Electrical and Information Engineering	EE1301	Introduction to Electrical Engineering
	EE2202	Introduction to Electronic Engineering
Mechanical and Manufacturing Engineering	ME2203	Engineering Mechanics
	ME2304	Introduction to Materials Science and Manufacturing Engineering

3.6 Specialisation Courses

Specialisation courses shall be offered in the three major fields of study viz. Civil and Environmental Engineering, Electrical and Information Engineering and Mechanical and Manufacturing Engineering. The number of students admitted to the specialisation courses will be limited by the number of places available in each specialisation. Admission of a student to a particular specialisation course is based on the student's preference and academic performance in the Common Core Course.

Core modules for each specialisation shall consist of the following:

3.6.1 Civil and Environmental Engineering

01. CE 3301 Building planning and cost estimating
02. CE 3202 Concrete Technology
03. CE 3203 Engineering Surveying
04. CE 3304 Fluid Mechanics
05. CE 3205 Structural Analysis I
06. IS 3301 Complex Analysis and Mathematical Transforms

07. CE 4301 Design of Concrete structures I
08. CE 4302 Engineering Geology and Soil Mechanics
09. CE 4203 Structural Analysis II
10. CE 4304 Transportation Engineering
11. CE 4305 Water and Wastewater Engineering.
12. IS 4301 Probability and Statistics

13. CE 5201 Design of Steel Structures
14. CE 5302 Highway Engineering Design
15. CE 5303 Hydraulic Engineering
16. CE 5204 Structural Analysis III
17. IS 5301 Numerical Methods

18. CE 6301 Construction Process and Technology
19. CE 6302 Design of Concrete Structures II
20. CE 6303 Engineering Hydrology
21. CE 6304 Environmental Engineering Design
22. CE 6305 Geotechnical Engineering
23. CE 6106 Surveying Work Camp
24. IS 6301 Mathematical Modelling

25. CE 7301 Construction Management
26. CE 7402 Comprehensive Design Project
27. CE 7203 Computer Analysis of Structures
28. CE 7304 Environmental Management
29. CE 7305 Geotechnical Engineering Design
30. CE7206 Introduction to Research Methodology

3.6.2 Electrical and Information Engineering

01. EE3301 Analog Electronics
02. EE3302 Engineering Electromagnetism
03. EE3303 Electric Machines
04. EE3204 Graphical User Interface Programming
05. EE3205 Signals and Systems
06. IS 3301 Complex Analysis and Mathematical Transforms

07. EE4301 Communication Theory
08. EE3106 Group Project
09. EE4302 Digital Electronics
10. EE4303 Data Structures and Algorithms
11. EE4204 Electrical and Electronic Measurements
12. EE4305 Power Systems
13. EE4106 Software Engineering Principles
14. IS 4301 Probability and Statistics

15. EE5201 Computer Architecture
16. EE5302 Computer Networks
17. EE5203 Data Management Systems
18. EE5204 Energy and Environment
19. EE5305 Power Electronics
20. EE5306 Sensors, Transducers and Measurement Techniques
21. IS 5301 Numerical Methods

22. EE6301 Control System Design
23. EE6302 Communication Systems
24. EE6303 Electric Machines and Drives
25. EE6304 Embedded System Design
26. EE6205 Software Projects
27. IS 6301 Mathematical Modelling

28. EE7601 Undergraduate Project

3.6.3 Mechanical and Manufacturing Engineering

01. ME3301 Fluid Mechanics
02. ME3302 Metallurgy for Engineers
03. ME3303 Modeling of Dynamic Systems
04. ME3304 Strength of Materials
05. IS 3301 Complex Analysis and Mathematical Transforms

06. ME4301 Applied Thermodynamics
07. ME4302 Design of Machine Elements
08. ME4303 Manufacturing Engineering
09. ME4304 Mechanics of Machines
10. IS 4301 Probability and Statistics

11. ME5301 Computer Aided Design
12. ME5302 Electrical Power and Machines
13. ME5303 Mechanical Engineering Design
14. ME5304 Refrigeration and Air Conditioning
15. IS 5301 Numerical Methods

16. ME6301 Advanced Fluid Mechanics
17. ME6302 Automatic Control Engineering
18. ME6303 Computer Aided Manufacturing
19. ME6304 Production Planning and control
20. IS 6301 Mathematical Modelling

21. ME7301 Maintenance Management
22. ME7302 Production and Operations Management
23. ME7303 Solid Mechanics
24. ME7424 Undergraduate Project

25. ME8301 Heat Transfer
26. ME8302 Industrial Fluid Dynamics

The core module Industrial Training is conducted outside the normal semesters, inside or outside the Faculty. A minimum of five credits are required from Industrial Training to satisfy the graduation requirement. Industrial Training comprises Industrial Training attachments, Work Camps and/or Training Courses prescribed by the Faculty Board as mandatory. The number of credits awarded shall be as described under section 3.4. A grade 'Pass-H' indicating a high achievement or a grade 'Pass-M'

indicating a mediocre achievement or a grade 'Pass-S' indicating a satisfactory achievement is required to be awarded on successful completion of this module. Graduation shall be withheld if Industrial Training is not successfully completed by a student.

The Technical Elective (TE) and General Elective (GE) modules offered in any particular academic year are subject to the availability of resources and the need as determined by the Faculty Board. The modules approved by the Faculty Board and the Senate for conducting in a semester shall be announced to the students ahead of the commencement of that semester. From time to time, each department can define, with the approval of the Faculty Board, certain limiting criteria with regard to the choice of Technical and General Elective modules.

During the degree programme, a student is required to take a minimum total of 150 credits, that comprising all the Core modules, a number of Technical Elective (TE) modules, General Elective (GE) modules which are counted for SGPA and Industrial Training. Technical Elective (TE) modules and General Elective (GE) modules must be chosen from the list offered by the relevant Department satisfying the accreditation requirements for an engineering degree as specified by the Institution of Engineers Sri Lanka (IESL).

A student is allowed to follow a core or an elective module, only if the student has fulfilled the prerequisites for that module and the module level is not greater than the highest semester of eligibility of the student (section 3.8), as determined by his/her Class Standing. To fulfil the requirement of prerequisites specified, a student should have at least followed the module/s specified as prerequisites of a particular module before registering for the said module.

With relevant permissions, a student is allowed to add or drop modules after the registration only within the period prescribed by the Faculty Board, and the registration form should be amended accordingly.

3.7 Academic Advisers

At the commencement of the Common Core Course, each student shall be assigned an Academic Adviser from among the members of the academic staff of the Faculty. Academic advisers will provide an opportunity for the student to discuss his/her fields of interest, career goals and seek advice on resolving academic matters and other pressing issues. This Faculty Member will also monitor the student's academic progress. An effort will be made to maintain the same Academic Adviser during the student's stay in the Faculty.

Students are required to consult their respective Academic Advisers and obtain their approval for academic load and choice of modules before registering for the next semester.

Adding or dropping modules after registration, with the approval of the academic adviser, is allowed only within the period prescribed by the Faculty Board

A student may appeal to the Dean when not in agreement with a decisions of the Academic Adviser.

3.8 Academic Load and Class Standing

The normal academic load of a full-time student in a semester shall be 18 credits. With the approval of the Academic Adviser, a student is permitted to take a maximum of 6 credits above or below the normal semester academic load. A student may, with valid reason, follow an academic load beyond the above limits, after obtaining the approval of the Faculty Board, given on the recommendation of the student's Academic Adviser.

Class Standing is determined by the total number of credits a student has earned by the end of the preceding semester.

Total Credits	Class Standing	Semesters of Eligibility
0-25	I	1, 2
26-61	II *	1, 2, 3, 4
62-95	III	1, 2, 3, 4, 5, 6
96 or more	IV	1,2, 3, 4, 5, 6, 7, 8

Note: * To reach Class Standing II a student shall have successfully completed the Developmental Programme.

3.9 Evaluation and Grading

The module coordinator, lecturers/ examiners for each module conducted in a semester shall be nominated by the Faculty Board and approved by the Senate. A committee comprising of the module coordinators and lecturers/ examiners for all modules under the supervision of the Head of the relevant Department, is responsible for evaluating the performance of a student in all modules offered by the Department and for issuing the respective grade. The Board of Examiners comprising examiners/ lecturers and coordinators of all modules and the Heads of the Departments relevant to the specialisation/ level of the course shall meet at the end of each semester and decide on the performance/ class standing of each student.

The performance of a student shall be evaluated for each course module as prescribed by the Senate on the recommendation of the Faculty Board subject to eligibility requirements stipulated in the Rules and Regulations. The evaluation of a Core module, a Technical Elective (TE) module and a General Elective (GE) module which is counted for Grade Point Average (GPA) shall be expressed by a letter grade on a Four Point Grading System as described below.

Grade	Grade Point Values (GPV)	Notes
A+	4.0	1
A	4.0	
A-	3.7	
B+	3.3	
B	3.0	
B-	2.7	
C+	2.3	
C	2.0	2
C-	1.7	3
E	0.0	4
N	-	5
W	-	6

Notes:

1. Grade A+ signifies superior performance.
2. Grade C or above is the normal requirement to pass a module.
3. Grade C- is a conditional pass grade and is counted in the calculation of the Semester Grade Point Average (SGPA). C- grade shall become pass grades and the student can earn credit only if he/she has achieved a SGPA of 2.00 or above and has, in that semester, no more than three grades at the level of C-. A student may improve a grade C- to a grade C by repeating the module.
4. Grade E signifies failure in the module. In order to complete the module, a student shall repeat the module. The grade is counted in the calculation of the Semester Grade Point Average (SGPA). The Continuous Assessment marks shall be carried forward up to maximum of two consecutive years and shall only be replaced with an improvement by reattempting. Improved Continuous Assessment marks shall be eligible for the improvement of overall grade to highest possible grade of C.
5. Grade N signifies Academic Concession which enables the student to repeat the module as the first attempt. In such case, SGPA will not be calculated.
6. Grade W signifies Results Withheld. In such a case, SGPA will not be calculated.

General Elective (GE) modules that are not evaluated based on the Four Point Grading System and Industrial Training are not counted towards SGPA. Upon successful completion of each of these modules, a grade 'Pass-H' indicating a high achievement or a grade 'Pass-M' indicating a mediocre achievement or a grade 'Pass-S' indicating a satisfactory achievement is awarded. A student who receives a fail grade 'Fail-E' may improve it to a grade 'Pass-S' by repeating the module. The grades N or W may also be assigned to these modules. However, individual Departments may, from time to time, allow the students the option of taking a number of General Elective (GE) Modules which are counted for GPA, in which case, their evaluation shall follow the procedure laid out in second paragraph of section 3.9.

The Continuous Assessment component may include marks from one or more of the following: class participation, marked assignments, laboratory/field reports, project(s) work, seminars, and in-class assessments. The minimum of 80% attendance for theory classes and completion of all laboratory sessions/field sessions/design sessions/work camp(s)/project(s) are required for a student to be eligible to appear for the end semester examination(s) of the relevant course module. In case of Industrial Training, attendance is required as prescribed in the Industrial Training Manual. The mode of assessment and the distribution of weight between continuous assessment and end-of-semester examination for each module shall be determined by the Senate on the recommendation of the Faculty Board.

An outline of the module, class activities, assignments, examinations and weights assigned shall be announced to the students by the coordinator/ lecturer-in-charge at the commencement of the module.

A student who has missed an end-of-semester examination because of illness or other acceptable reason may appeal with supporting documents to the Dean for an Academic Concession within one week from the date of the examination. An Academic Concession (grade N) shall require the approval of the Faculty Board. Documents supporting his/her claim for an Academic Concession should be in accordance with the Internal Circular issued by the University of Ruhuna for submitting Medical Certificates.

The highest grade obtainable at a repeat attempt is the Grade C (or Pass-S, as the case may be) except when an Academic Concession has been granted. Every grade shall be entered on the student's permanent record. The grade at the first attempt and the improved grade earned at a subsequent attempt, if any, shall be recorded alongside the number of attempts for each module.

All repeat students shall pay the prescribed fee and receipt should be attached to registration form.

3.10 Semester Grade Point Average

The grade earned by a student for any Core Module, Technical Elective Module or General Elective Module which is counted for GPA shall be converted into Grade Point Value (GPV) according to section 3.9 above. The calculation of the Semester Grade Point Average (SGPA) shall be based on the summation of Grade Point Values earned for all modules registered in the semester for credits, weighted according to the number of credits as in Equation 3.1. The Semester Grade Point Average (SGPA) shall not be calculated if grade N or W is received. The Semester Grade Point Average (SGPA) is rounded to the nearest second decimal place. The SGPA is reported on transcripts and Statement of Results. The SGPA is calculated as

$$SGPA = \frac{\sum_{j=1}^n c_j GPV_j}{\sum_{j=1}^n c_j} \quad \text{Equation (3.1)}$$

where, c_j is the number of credits for the module j , GPV_j is the Grade Point Value earned for the module j , and n is the number of modules with GPV for the particular semester.

3.11 Academic Dishonesty

Students are expected to act with full integrity in all academic endeavours: any use of words, formulas or ideas that are not one's own must be acknowledged whether the source is a book, an article, the internet, a lecture, or a peer. Providing or receiving unauthorized help on papers, examinations or other academic work is also a violation of the University's policies on academic integrity.

The consequences of cheating, plagiarism, unauthorized collaboration and other forms of academic dishonesty are serious, which, if proven, could result in the student's suspension or expulsion from the university.

3.12 Graduation Requirements

To be admitted to the degree of the Bachelor of the Science of Engineering (B.Sc. Eng.) a student shall satisfy the following requirements:

- a) A minimum total of 150 credits that comprising all the Core modules, a number of Technical Elective (TE) modules, General Elective (GE) modules and Industrial Training satisfying the conditions in section 3.9 as relevant.
- b) Technical Elective (TE) modules and General Elective (GE) modules must be chosen from the list offered by the relevant Department satisfying the accreditation requirements for an engineering degree as specified by the Institution of Engineers, Sri Lanka (IESL).
- c) Completion of the Developmental Programme, Industrial Training and any other mandatory requirements prescribed by the Faculty Board with the approval of the Senate.
- d) A minimum Overall Grade Point Average (OGPA) of 2.00.
- e) A residence requirement of four academic years as a duly registered full time student of the University.

The calculation of Cumulative Grade Point Average (CGPA) is based on the summation of final grade points earned for each Core, Elective module (Technical Elective module or General Elective Module which is counted for GPA), using only the highest grade for repeated modules weighted according to the credits assigned and the module level as given below.

Semesters 1 - 2	Weight of 0.05
Semesters 3 - 8	Weight of 0.15

The Overall Grade Point Average (OGPA) is the CGPA calculated at the end of the student's study programme in the Faculty, considering all the Core modules and, from the requisite number of Technical Elective (TE) modules and General Elective (GE) modules which is counted for GPA. The requisite numbers of Technical Elective and General Elective modules are counted from the list offered by the relevant Department satisfying the accreditation requirements for an engineering degree as specified by the Institution of Engineers Sri Lanka (IESL). If the number of Technical Elective and General Elective Module which is counted for GPA completed by a student exceeds the requisite number, the module grades are ranked and the requisite number from the top is selected. The OGPA is calculated using the equation (3.2).

$$OGPA = \sum_i^8 \frac{\sum_{j=1}^n C_j GPV_j}{\sum_{j=1}^n C_j} (w_i) \quad \text{Equation (3.2)}$$

where n is the number of modules taken to satisfy the graduation requirements, GPV_j is the Grade Point Values earned for the module j , C_j is the number of credits of the module j , and w_i is the weight assigned for the i^{th} semester.

A student shall not qualify for the award of the B.Sc. Eng. degree if the graduation requirements are not satisfied within eight academic years from the time of admission to the Common Core Course except with the consent of the Senate on the recommendation of the Faculty.

A student admitted to the degree programme in the Faculty shall be a candidate for a degree with Honours. A student shall be deemed to be eligible for the award of the degree of B.Sc.Eng. with Honours on satisfying the following requirements.

- a) A minimum total of 150 credits that comprising all the Core modules, a number of Technical Elective (TE) modules, General Elective (GE) modules and Industrial Training satisfying the conditions in section 3.9 as relevant.
- b) Technical Elective (TE) modules and General Elective (GE) modules must be chosen from the list offered by the relevant Department satisfying the accreditation requirements for an engineering degree as specified by the Institution of Engineers, Sri Lanka (IESL).
- c) Completion of the Developmental Programme, Industrial Training and any other mandatory requirements prescribed by the Faculty Board with the approval of the Senate.
- d) Completion of all programme requirements to the satisfaction of the Senate within a period of four academic years from the commencement of the common core course.
- e) A residence requirement of four academic years as a duly registered full time student of the University.
- f) An Overall Grade Point Average (OGPA) is not less than 3.00.

The award of B.Sc. Eng. degree with Honours shall be according to the Overall Grade Point Average values stipulated below.

<u>OGPA value</u>	<u>Honours Awarded</u>
$OGPA \geq 3.70$	First Class Honours
$3.30 \leq OGPA < 3.70$	Second Class Honours Upper Division
$3.00 \leq OGPA < 3.30$	Second Class Honours Lower Division

A student who has not satisfied the eligibility requirements for Honours shall be deemed to be eligible for the award of the degree of B.Sc. Eng. on satisfying the minimum graduation requirements stated for degree of B.Sc. Eng. above.

A student who satisfies the OGPA requirement for Honours but takes longer than four academic years to complete the programme requirements may be deemed to be eligible for the award of a B.Sc.Eng. degree with Honours as decided by the Senate on the recommendation of the Faculty Board under extenuating circumstances.

Notwithstanding the above provisions, individual cases may be dealt with on the basis of their own merits with the approval of the Senate on the recommendation of the Board of Examiners and the Faculty Board.

3.13 Maximum Allowed Duration of Study

A student shall not qualify for the award of the B.Sc. Eng. degree if the graduation requirements given are not satisfied within eight academic years from the date of commencement of the programme of study. Under medical reasons, with the recommendation of Faculty Board, the Senate may grant permission to extend the maximum allowed duration of study. Under exceptional circumstances other than medical reasons, the Senate may grant permission to extend the maximum allowed duration of study by not more than one additional academic year on the recommendation of the Faculty.

3.14 Effective Date of Award

The effective date of the award of the degree shall be reckoned as the first working day after the last date of examination of the relevant semester, following the satisfactory completion of the graduation requirements, as confirmed by the senate, and set out in section 3.12.

3.15 Annual Students Awards

Vice Chancellor's and Dean's Awards shall be awarded annually to the students with the best overall performances in the Faculty of Engineering. Full time undergraduate students who achieve prescribed criteria by the Senate for the evaluation of awards, and have no disciplinary actions against them, are eligible for awards. Only the Vice Chancellor's Award shall be noted on students' academic transcript.

3.16 Gold Medals

Recipients of Gold Medals are recommended by the Faculty Board of Engineering considering the overall academic performance during the course and will be awarded at the convocation ceremony.

Ronnie De Mel Gold Medal – Awarded for the best Engineering Graduand who obtained the highest Overall Grade Point Average with the First Class Honours.

Dr. A.D.V. Premaratne Memorial Gold Medal - Awarded for the Best Engineering Graduand who obtained the highest Overall Grade Point Average in the Department of Electrical and Information Engineering.

S. D. Jayasundere Memorial Gold Medal - Awarded for the Graduand who qualified for the Degree of Bachelor of the Science of Engineering with the best performance in the best final year undergraduate project in the Department of Electrical and Information Engineering.

4 ACADEMIC DEPARTMENTS

4.1 Department of Civil and Environmental Engineering (DCEE)

4.1.1 Main Subdivisions

1. Structural Engineering and Construction Materials
2. Geotechnical and Geo-environmental Engineering
3. Water and Environmental Engineering
4. Infrastructure Development and Management

4.1.2 Technical Elective Modules

Technical Elective modules are generally arranged to offer from third semester onwards. However, the Department will announce the modules to be offered in particular semester at the commencement of the semester based on the availability of resource persons and number of students registering to follow the modules. Some Technical Elective modules relevant to Civil and Environmental Engineering course are:

CE 5251	Design of Timber and Masonry Structures (TE)
CE 5252	Graphical User Interface programming (TE)
CE 5253	Infrastructure Planning (TE)
CE 5255	Remote Sensing and GIS (TE)
CE 6251	Building Services Engineering (TE)
CE 6252	Dynamic & Control of Structures (TE)
CE 6253	Ecological Engineering (TE)
CE 6254	Introduction to Coastal Engineering (TE)
CE 7251	Coastal Engineering-Applications and Management (TE)
CE 7252	Ground Improvement Techniques (TE)
CE 7253	Highway Maintenance and Management (TE)
CE 7254	Water Reclamation and Reuse (TE)
CE 8251	Design of Bridge Structures (TE)
CE 8252	Irrigation Engineering (TE)
CE 8253	Water Resource Planning and Management (TE)

In order to satisfy the IESL accreditation requirements, students should select above Technical Elective modules (TE) and General Elective modules (GE) offered by the Department of Interdisciplinary Studies or any other Department as follows.

Category	Module Code and Module Name	Minimum Credit Requirement
Engineering Sciences and Engineering Design	CE 5251 Design of Timber and Masonry Structures (TE) CE 5252 Graphical user Interface Programming (TE) CE 5253 Infrastructure Planning (TE) CE 5255 Remote sensing and GIS (TE) CE 6251 Building Services Engineering (TE) CE 6252 Dynamic and Control of Structures (TE) CE 6254 Introduction to costal Engineering(TE) CE 7251 Coastal Engineering-Applications and Management (TE) CE 7252 Ground Improvement Techniques (TE) CE 7253 Highway Maintenance and Management (TE) CE 8251 Design of Bridge Structures (TE) CE 8252 Irrigation Engineering (TE) CE 8253 Water Resource Planning and Management (TE)	Minimum 9 credits should be obtained from this category.
Engineering Sciences and Engineering Design - Environmental Engineering	CE 5255 Integrated Solid Waste Management (TE) CE 6253 Ecological Engineering (TE) CE 7254 Water reclamation and reuse (TE)	Minimum 2 credits should be obtained from this category
Management, Engineering Economics and Communication	IS 3303 Basic Economics (GE)* IS 5303 Financial Management (GE)* IS 5304 Industrial Management (GE)* IS 6203 Entrepreneurship and Project Management (GE)* IS 6304 Management and Organizational Behavior (GE)* IS 8201 English for the Professional World (GE)*	Minimum 7 credits should be obtained from this category.
Humanities, Social Sciences, Arts and Professional Ethics	IS 3302 Society and the Engineer (GE)* IS 3104 Graphics Design (GE) IS 3105 Creative Dance and Oriental Ballet (GE) IS 3106 Physical Development and Health Management (GE) IS 3107 Introduction to Astronomy (GE) IS 4302 Technology and Society (GE) IS 4103 Appreciation of Music (GE) IS 4104 Digital Modeling and Animation (GE) IS 4205 Aesthetics and Design (GE) IS 4106 Spiritual Development (GE) IS 5202 Industrial Safety and Resource Management (GE) IS 6202 Introduction to Sociology (GE) IS 7101 Engineering Ethics (GE)*	Minimum 5 credits should be obtained from this Category.

* Students are allowed to select these modules as GPA or Non-GPA

4.1.3 Laboratory Facilities

1. Building Materials and Construction Laboratory
2. Hydraulics and Coastal Engineering Laboratory
3. Geotechnical Engineering Laboratory
4. Environmental Engineering Laboratory
5. Structural Mechanics Laboratory
6. Transportation Engineering and Surveying Laboratory

4.2 Department of Electrical and Information Engineering (DEIE)

4.2.1 Main Subdivisions

1. Electrical Power Engineering
2. Electronics and Communication Engineering
3. Computer Engineering and Information Systems

4.2.2 Technical Elective Modules

Technical Elective modules are generally arranged to offer from third semester onwards. However, the Department will announce the modules to be offered in particular semester at the commencement of the semester based on the availability of resource persons and number of students registering to follow the modules. Some Technical Elective modules relevant to Electrical and Information Engineering course are:

EE 5207 Internet Technologies (TE)

EE 5208 Advanced Electronics (TE)

EE 6206 Operating Systems and Programming (TE)

EE 6207 Wireless and Mobile Communications (TE)

EE 7202 Power Electronic Applications (TE)

EE 7203 Power systems Analysis (TE)

EE 7204 Scientific Computing (TE)

EE 7205 Object Oriented Design (TE)

EE 7206 Mobile Application Development (TE)

EE 7207 Computer Vision and Image Processing (TE)

EE 7208 Advanced Data Communication (TE)

EE 7209 Digital Signal Processing (TE)

EE 7210 Telecommunication Networks (TE)

EE 7211 Optical Fiber Communication (TE)

EE 7212 Introduction to Research (TE)

EE 8301 High Voltage Engineering (TE)

EE 8202 Electrical Systems in Buildings (TE)

EE 8203 High Performance Computing (TE)

EE 8204 Information Theory (TE)

EE 8205 Software Architecture (TE)

EE 8206 Computer Graphics (TE)

EE 8207 Optimization Techniques for Engineers (TE)

EE 8208 Intelligent System Design (TE)

EE 8209 Microwave Communications (TE)

EE 8210 Digital Communication (TE)

EE 8211 Design and Management of Data Networks (TE)

EE 8212 Biomedical Engineering (TE)

EE 8213 Photonic Devices (TE)

In order to satisfy the IESL accreditation requirements, students should select the above Technical Elective modules (TE) and General Elective modules (GE) offered by the Department of Interdisciplinary Studies or any other Department as follows.

Category	Module Code and Module Name	Minimum Credit Requirement
Engineering Sciences and Engineering Design	EE 5207 Internet Technologies (TE) EE 5208 Advanced Electronics (TE) EE 6206 Operating Systems and Programming (TE) EE 6207 Wireless and Mobile Communications (TE) EE 7202 Power Electronic Applications (TE) EE 7203 Power systems Analysis (TE) EE 7204 Scientific Computing (TE) EE 7205 Object Oriented Design (TE) EE 7206 Mobile Application Development (TE) EE 7207 Computer Vision and Image Processing (TE) EE 7208 Advanced Data Communication (TE) EE 7209 Digital Signal Processing (TE) EE 7210 Telecommunication Networks (TE) EE 7211 Optical Fiber Communication (TE) EE 7212 Introduction to Research (TE) EE 8301 High Voltage Engineering (TE) EE 8202 Electrical Systems in Buildings (TE) EE 8203 High Performance Computing (TE) EE 8204 Information Theory (TE) EE 8205 Software Architecture (TE) EE 8206 Computer Graphics (TE) EE 8207 Optimization Techniques for Engineers (TE) EE 8208 Intelligent System Design (TE) EE 8209 Microwave Communications (TE) EE 8210 Digital Communication (TE) EE 8211 Design and Management of Data Networks (TE) EE 8212 Biomedical Engineering (TE) EE 8213 Photonic Devices (TE)	Minimum 15 ACs credits should be obtained from this category.
Management, Engineering Economics and Communication	IS 3303 Basic Economics* (GE) IS 5303 Financial Management (GE) IS 5304 Industrial Management* (GE) IS 6203 Entrepreneurship and Project Management* (GE) IS 6304 Management and Organizational Behavior (GE) IS 8201 English for the Professional World (GE)	Minimum 12 ACs credits should be obtained from this category.
Humanities, Social Sciences, Arts and Professional Ethics	IS 3302 Society and the Engineer* (GE) IS 3104 Graphics Design (GE) IS 3105 Creative Dance and Oriental Ballet (GE) IS 3106 Physical Development and Health Management (GE) IS 3207 Introduction to Astronomy (GE) IS 4302 Technology and Society (GE) IS 4103 Appreciation of Music (GE) IS 4104 Digital Modeling and Animation (GE) IS 4205 Aesthetics and Design (GE) IS 4106 Spiritual Development (GE) IS 5202 Industrial Safety and Resource Management* (GE) IS 6202 Introduction to Sociology (GE)	Minimum 4 ACs should be obtained from this Category.

* - Students are allowed to select these modules as GPA or Non-GPA.

4.2.3 Laboratory Facilities

1. Power Systems and High Voltage Laboratory

2. Electrical Machines and Power Electronics Laboratory
3. Electronics and Electrical Measurements Laboratory
4. Communication and Systems Engineering Laboratory
5. Computer and Information Engineering Laboratory
6. Computer Resource Centre

4.3 Department of Mechanical and Manufacturing Engineering (DMME)

4.3.1 Main Subdivisions

1. Materials and Manufacturing Engineering
2. Thermal and Fluid Engineering
3. Applied Mechanics, Control and Mechatronics
4. Automobile, Marine Engineering and Engineering Design

4.3.2 Technical Elective Modules

Technical Elective modules are generally arranged to offer from third semester onwards. However, the Department will announce the modules to be offered in particular semester at the commencement of the semester based on the availability of resource persons and number of students registering to follow the modules. Some Technical Elective modules relevant to Mechanical and Manufacturing Engineering course are:

ME 4311	Analog and Digital Electronics (TE)
ME 4312	Automobile Engineering (TE)
ME 5311	Introduction to Mechatronics (TE)
ME 5312	Marine Engineering Knowledge (TE)
ME 5113	Technical Report Writing (TE-NGPA)
ME 6311	Introduction to Nanotechnology (TE)
ME 6312	Introduction to Robotics (TE)
ME 6113	Mini Research Project (TE-NGPA)
ME 7311	Advanced Marine Engineering (TE)
ME 7312	Energy Technology (TE)
ME 7313	Industrial Automation and Control (TE)
ME 7314	Polymer Technology (TE)
ME 8311	Aerospace Engineering (TE)
ME 8312	Energy Management (TE)
EE 8212	Biomedical Engineering (TE)

In order to satisfy the IESL accreditation requirements, students should select the above Technical Elective modules (TE) and General Elective modules (GE) offered by the Department of Interdisciplinary Studies or any other Department as follows

Category	Module Code and Module Name	Minimum Credit Requirement
Engineering Sciences and Engineering Design	ME 4311 Analog and Digital Electronics(TE) ME 4312 Automobile Engineering(TE) ME 5311 Introduction to Mechatronics(TE) ME 5312 Marine Engineering Knowledge(TE) ME 5113 Technical Report Writing (TE-NGPA) ME 6311 Introduction to Nanotechnology(TE) ME 6312 Introduction to Robotics(TE) ME 6113 Mini Research Project (TE-NGPA) ME 7311 Advanced Marine Engineering(TE) ME 7312 Energy Technology(TE) ME 7313 Industrial Automation and Control(TE) ME 7314 Polymer Technology(TE) ME 8311 Aerospace Engineering(TE) ME 8312 Energy Management(TE) EE8212 Biomedical Engineering(TE)	Minimum 12 ACs credits should be obtained from this category.
Management, Engineering Economics and Communication	IS 3303 Basic Economics* (GE) IS 5303 Financial Management (GE) IS 5304 Industrial Management* (GE) IS 5205 Information Literacy and Scientific Communication Skills (GE) IS 6203 Entrepreneurship and Project Management* (GE) IS 6304 Management and Organizational Behavior (GE) IS 8201 English for the Professional World (GE)	Minimum 12 ACs credits should be obtained from this category.
Humanities, Social Sciences, Arts and Professional Ethics	IS3302 Society and the Engineer* (GE) IS3104 Graphics Design (GE) IS3105 Creative Dance and Oriental Ballet (GE) IS 3106 Physical Development and Health Management (GE) IS3207 Introduction to Astronomy (GE) IS 4302 Technology and Society (GE) IS4103 Appreciation of Music (GE) IS4104 Digital Modeling and Animation (GE) IS4205 Aesthetics and Design (GE) IS4106 Spiritual Development (GE) IS5202 Industrial Safety and Resource Management* (GE) IS6202 Introduction to Sociology (GE) IS 7101 Engineering Ethics (GE)*	Minimum 4 ACs should be obtained from this Category.

*Students are allowed to select these modules as GPA or Non-GPA. All other GE modules are Non-GPA

4.3.3 Laboratory Facilities

1. Engineering Workshop I
2. Engineering Workshop II and Automobile Laboratory
3. Thermodynamics Laboratory
4. Fluid Mechanics Laboratory
5. Applied Mechanics, Control and Mechatronics Laboratory
6. Materials and CAD Laboratory

4.4 Department of Interdisciplinary Studies (DIS)

4.4.1 Main Subdivisions

1. Mathematics
2. Management
3. Economics
4. Personal Development

4.4.2 General Elective Modules

Basically, General Elective modules offered by the Department of Interdisciplinary Studies are belongs to the following four categories:

- GE-1: Personal Development Category
- GE-2: Humanities and Social Sciences Category
- GE-3: Economics and Finance Category
- GE-4: Management and Entrepreneurship Category

Students are encouraged to select at least one module from each category. Only one module is recommended from category GE-1 in a particular semester. These modules are typically arranged to offer as follow from third semester onwards. However, the Department will announce what are the modules to be offered in particular semester at the commencement of the semester based on the availability of resource persons and number of students registering to follow the modules.

- IS 3302 Society and the Engineer (GE-2)
- IS 3303 Basic Economics (GE-3)
- IS 3104 Graphic Design (GE-1)
- IS 3105 Creative Dance and Oriental Ballet (GE-1)
- IS 3106 Physical Development and Health Management (GE-1)
- IS 3107 Introduction to Astronomy (GE-2)

- IS 4302 Technology and Society (GE-2)
- IS 4103 Appreciation of Music (GE-1)
- IS 4104 Digital Modeling and Animation (GE-1)
- IS 4205 Aesthetics and Design (GE-2)
- IS 4106 Spiritual Development (GE-1)

- IS5202 Industrial Safety and Resource Management (GE-2)
- IS 5303 Financial Management (GE-3)
- IS 5304 Industrial Management (GE-4)
- IS 5205 Information Literacy and Scientific Communication Skills (GE-4)

- IS 6202 Introduction to Sociology (GE-2)
- IS 6203 Entrepreneurship and Project Management (GE-4)
- IS 6304 Management and Organizational Behaviour (GE-4)

- IS 7101 Engineering Ethics (GE-2)

- IS 8201 English for the Professional World (GE-4)

4.4.3 Service Facilities

Computer Centre:

Computer Centre is equipped with over 100 personal computers with Internet access facilities. The Computer Centre is kept opened for longer hours and during weekends when the academic works are in progress. All students are encouraged to make maximum use of the services available at the Computer Centre to develop their computer and IT skills.

Seminar Room:

Seminar Room is equipped with Audio and Video facilities and seating facilities for about 125 persons. Reservation has to be made in advance with the approval of the Head/Department of Interdisciplinary Studies.

5 COMMON SERVICE FACILITIES

5.1 Library Service

The library plays an important role in supporting self-learning at the University. It is the main source of information for finding out things and all students must make a habit of using the library regularly. The Faculty of Engineering library meets the basic needs of students and the academic staff, and contains text books, CDs, geographical maps, standards, and periodicals in Civil and Environmental, Electrical and Information, Mechanical and Manufacturing Engineering fields and Interdisciplinary subjects such as Mathematics, Management, Communication, Literature and Natural Sciences. All students are required to get themselves registered at the library to make use of its borrowing facilities. Please log on to the <http://www.eng.ruh.ac.lk> for more information regarding the Library.

5.2 Student Counselling Service

Counselling services are offered on a confidential basis to students by Student Counsellors appointed from among the members of the academic staff of the Faculty of Engineering. They will assist the students to overcome difficulties with learning as well as in personal problems that may interfere with the academic progress. When special attention is required they will arrange the service of a professional counsellor.

5.3 Career Guidance Service

Career Guidance services are available for students throughout their stay in the Faculty of Engineering. The services are beneficial for improving soft skills of the students and keep them at an advantageous position in the job market as well as their day to day life. There will be a series of seminars, workshops and a job fairs held for this purpose in condition with the Career Guidance Unit of the University of Ruhuna.

5.4 Health Service

Medical care is provided by the University health service. The service of medical staff will be available at the Health Centre located in Student Centre building.

5.5 Student and Welfare Services

Registrations for semesters and examinations shall be done at Dean's Office. Mahapola and Student bursaries can be obtained from Shroff counter on specified dates.

Accommodation facilities for eligible students are provided at the premises hostels as well as rented hostels located nearby areas during only their first year and final year as per University rules and regulations. All students in hostels shall abide by the hostel rules and regulations.

Social interactions among students are encouraged through facilities provided at the Student Centre. Canteen, News papers and photocopying service are some of the facilities available in the Student Centre.

5.6 Sports Facilities

Facilities for the sports such as cricket, badminton, volleyball, basketball, and table tennis are available in the Faculty. Moreover, equipment for weight lifting and various other exercises are available in the Faculty. The Faculty playground provides more benefit to the students for their sports activities. Physical education instructor is available in the Faculty for giving instructions to the students on sports activities. Students are encouraged to get maximum benefit from the sports facilities available in the Faculty.

6 GUIDELINES TO STUDENTS

6.1 The Purpose of University Education

University courses offer opportunities for education, and the development of transferable, social and vocational skills. Socrates said that 'unexamined life is not worth living' and the purpose of education is to enable people to lead an examined life. Education is about understanding the human condition and enabling people to adapt their understanding in wide ranging ways. It will enable logical questioning of complex concepts, help consider ideas of the most abstract nature and encourage curiosity.

It is appropriate now to differentiate between education and training. The object of training is to develop the skills and the knowledge appropriate to the performance of specific tasks. Since technology changes very rapidly these skills frequently have a short useful life. Education, on the other hand, lets people assess their current position in terms of life and career, decide upon the desired position and construct the steps by which to achieve it.

In a large measure university education is built on books. In traditional university language an undergraduate does not study a subject but he reads that subject. This describes the main part of the process of learning. It is important for University students to acquire confidence and skill in using the library. Lectures are ancillary to reading. A graduate is not educated unless he has covered a wide range of reading in many fields of knowledge and experience, which are not directly tested by examination. More time should be spent on general education. A good general education not only helps in successful participation in every aspect of work as an engineer but also provides enrichment in personal life outside the profession. Success of University education depends on the depth and breadth of its foundations.

Transferable skills facilitate progress in any profession or activity. They include, for example, the ability for concise expression, both verbal and written; presentational skills; and the ability to extract critical points from a large volume of information.

Universities offer unique opportunities for the student to develop a range of cultural, social and sports interests. The period of university education is a period of heavy concentration and demands physical fitness which plays an important part by creating mental alertness. People who are physically fit live longer, have a greater resistance to disease, and can work harder and better. Physical fitness depends upon adequate physical exercise. Games are useful because they:

- Are a pleasant way of taking exercise;
- Teach the value of co-operative effort and leads to development of team spirit;
- Teach leadership;
- Improves efficient coordination and memory; and
- Keep the person healthier and less sluggish.

Most good students play games regularly. There are other forms of recreation like music, drama and literature, which help to stimulate healthy activity in the University and development of "character". A thing which is worth doing is worth doing well, and therefore one can win colours in sports and do well academically too.

The academic record is not the sole criterion for employment. Employers generally look for personal integrity, loyalty, interest in the job, the capacity for sustained and conscientious work.

Engineering is about improving the quality of life of people and hence it reflects society's values. The application of appropriate engineering systems involves understanding people in wide-ranging ways. The ability to interact appropriately with people from a wide range of backgrounds during both professional and social level is important to the engineer.

Engineering degree courses vary from the very theoretical type to the highly vocational and skill based. The programmes offered by the Faculty of Engineering cover the middle ground within the profession and combine elements of education, vocational training and transferable skills development. The students are also exposed to the deeper theoretical aspects of Engineering, recognising that they are drawn from the cream of the country and therefore need their intellects to be challenged to the utmost. The programmes permit a very high degree of flexibility in career choice.

6.2 Guidelines to Good Study Practices

6.2.1 Study Skills

University courses tend to guide students through a self-learning experience. This may be very different from your previous education at school. One of the most important things a university degree gives is the ability to pursue continuing Professional Development throughout the future career. It is the personal responsibility of the students to pursue studies, identify difficulties and approach teaching staff to remedy them. Teaching staff is there to assist the students and guide them to make the right decisions but the responsibility of learning lies with the student.

Continuous assessment helps the students to recognise their own strengths and weaknesses. They can notice the faults before being told and plan action accordingly. Academic Advisers are available to discuss study skills and self-learning techniques with the students.

Motivation or wanting to learn is the key to successful learning. It makes the task interesting and the learning process rewarding. Experiences that challenge the intellect require active participation. Problem solving skills promote this experience, and give the confidence of being competent and effective which enhances the self-esteem. The lecture room is the centre of educational activities but active participation is limited. Opportunities for more active learning, learning by doing and learning by observation is provided through laboratory experiments, field work, homework assignments, industrial visits and industrial training. In engineering education, laboratory experiments allow knowledge to be used. This makes it easier to understand the lectures and retain them longer.

Laboratory work is beneficial because they:

- add meaning to the theory ;
- give training in the use of laboratory equipment and techniques ;
- teach the scientific method of investigation;
- teach the method of analysing experimental data;
- provide experience in report writing and presentation;
- awaken curiosity and allows exercise of ingenuity; and
- cultivate good work habits, and provide experience in sharing responsibility and group activities.

Field trips, training programmes, films and other media provide opportunity for learning by observation. Homework assignments are aimed at improving understanding through reading, writing and problem solving exercises. Reports on assignments and projects teach students to present their thoughts in words. They develop the ability to think creatively, to identify problems and seek solutions and explain to others what has been learnt. Discipline of planning, drafting, editing and presenting written work is essential to clear thinking and effective writing. Ability to express ideas clearly on paper is important for academic success and is crucial for many aspects in life.

6.2.2 Personal Time Management

The work in the engineering course is demanding but it is a challenging and a rewarding experience of developing abilities. The performance and grades earned will have an important influence on the future career prospects and it is important to aim for excellence. It is important to adopt a planned approach with short term and long term objectives. Through a well prepared schedule it is possible to cover lot of work and derive positive enjoyment in study. The sense of achievement strengthens the confidence and constant successful experiences generate eagerness for more, and motivate one to do better. Nothing succeeds like success.

Time being a precious commodity, all possible time saving skills such as efficient studying, effective reading and speed learning and also better examination techniques must be adopted in organising the study plan. Preparation for examinations, though is a matter of some importance, should not dominate the student's life at the university.

A full-time undergraduate student will be studying about 6 modules in a semester or taking about 18 hours a week of lectures. Mere attendance at lectures, tutorials and practicals will not be sufficient. Over and above the timetabled contact hours, sufficient time should be allocated for self study. With private study time added, as much as 40 hours a week should be devoted for studies. Some of this time

will be on a continuous basis and some will be more intensive for specific tasks like writing reports. Use the schedule of submission deadlines and assessments to plan the work. Because there is virtually no time for revision between the last lectures and examinations in the semester system, students will be required to work continually throughout the semester and keep up with all modules. There is simply not enough time to catch up later. In order to complete a module successfully, all the tutorials and assignments must be attempted without being selective.

At the University, students are responsible for organising their own study patterns in a balanced and sensible manner to keep on top of the workload and to meet the deadlines in homework assignments, and still have time to relax and enjoy life. Make it a regular habit to prepare a schedule with list of things to do each week with time slots for independent study, revision, preparing notes, library use, attending to home assignments plus all other social commitments.

6.2.3 Attending Classes and What to Do if You Miss Them

By regulations, the minimum of 80% attendance for theory classes and completion of all laboratory sessions/field sessions/design sessions/work camp(s)/project(s) are required for a student to be eligible to appear for the end semester examination(s) of the relevant course module. In addition, by not attending lectures and simply copying other students' lecture notes much explanation that is rarely recorded in students' notes will be missed and there is the risk of repeating any errors that might have been made by others. Students who become absent from theory classes, laboratory classes or assignments because of illness, disability or any other acceptable reason should request excuse for the absence from the relevant module coordinator providing supporting documents with the recommendation of the academic advisor.

6.3 Procedures/ Guidelines for Examinations and Evaluations

- All students registered for proper semester in the Faculty do not have to register for the examinations of the same semester.
- All applicants for any repeat should register for the said examination during the period prescribed by the Faculty and make relevant payment. Students under academic concession for any module should also register for the relevant examination of the module.
- All students duly registered for the proper semester and those who registered for repeat examinations/ evaluations shall collect the admission cards during the period prescribed by the Faculty.
- All candidates sitting for any examination conducted by the Faculty:
 - must reach the examination hall at least 10 minutes before the scheduled time.
 - must make sure to carry the University Identity Card/ Record Book and Admission Card with them in to the examination hall and produce to duty staff whenever requested.
 - must make sure that no mobile phones and any unauthorised materials are brought into the examination hall.
 - must make sure that no short notes, equations or any subject related notes are written on calculator case, pencil case, palm or any part of the body or dress before entering in to the examination hall.
 - are only allowed to use non programmable calculators. FX991-ES Calculator is also allowed to use subject to the condition that memory of the calculator is erased before entering in to the examination hall.
 - are not permitted borrowing of calculators, drawing equipment or any stationary from other candidates in the examination hall.
 - must observe strict silence during examination.
 - must make sure that answer sheets, rough sheets are blank and date stamped before starting answering.
 - must not remove any used or unused examination stationary from examination hall.
- Continuous assessment marks of modules will be displayed prior to the end semester examinations.

6.4 Safety Guidelines

In preparation for the career as a professional engineer, safety consciousness and its practice must be developed while at the university. The following are intended as general guidelines:

- Students must not enter workshops or laboratories that display hazard signs unless accompanied by a member of departmental staff. Unauthorised visitors are not allowed into laboratories or workshops unless they are being conducted by a member of staff.
- Do not work alone in a laboratory or workshop. All laboratory and workshop activities must be supervised by a member of academic or technical staff. Do not operate laboratory or workshop equipment without permission and supervision.
- For practical work, loose clothing, jewellery or long hair could be a danger and compliance with Health and Safety requirements is necessary. Similarly, when outside the University on industrial visits or training programmes, safety requirements of the organisation must be complied with.
- As part of the course activities, if any safety equipment like gloves, goggles, overalls, helmet, earmuffs and film badges was issued, it must be used in the correct fashion. While been engaged in any activity where safety equipment should have been issued and was not, a member of academic or technical staff must be consulted.
- Any hazardous spillages, accidents or broken or defective equipment should be reported to a member of academic or technical staff. Do not attempt to clean up or rectify the matter without supervision.

6.5 Standards of Conduct

The students are expected to be responsible for the well being of the campus by respecting the codes of academic conduct and the safety of all members of the community and faculty property. In this respect, they are expected to act as responsible individuals, to conduct themselves with honesty and integrity both personally and academically, and to respect the rights of others. This faculty considers these standards as essential to its mission and its community.

All forms of academic dishonesty such as misrepresentation in coursework, cheating, submission of the work of another person, making false statements to a member of the faculty and alteration or misuse of university documents are considered serious offences within the university community.

Following forms of misconduct are considered serious offences and may be reported for disciplinary action.

- Any student commits or participates in any form of ragging within or outside the Faculty,
- Any student conduct which makes it difficult or impossible to proceed with scheduled lectures, seminars, discussion group meetings and related activities, and with examinations or tests.
- Any student's conduct which leads to damage to or theft of University properties or the personal properties of members of faculty and staff, or of fellow students. It also includes conduct which leads to physical injury to, or emotional disturbances of any of the above-mentioned persons.
- Violations of the rules and regulations of the Government and the University.
- Unauthorised use of University facilities, including unauthorised gatherings and having unauthorised guests in hostels.
- Safety violations.
- Violations of rules governing residence in university hostels or in other premises rented for accommodation of students.
- Failure to remit, return or submit financial obligations, property or records of the University, within the time prescribed by the University.

6.6 Some Practicalities

Access to Faculty buildings is restricted after normal working hours due to security, health and safety reasons. Students are not allowed in laboratories, lecture theatres, drawing offices outside normal working hours without special permission. The library and the computer centre will be kept opened for longer hours and students must vacate these premises on request at closing times. All students entering the Administration Building after 18.00 hrs should sign in and out at the registry maintain by the security.

Photocopying facilities are available during normal working hours in the Library and in the Student Centre. When copying from textbooks copyright laws must be adhered to and copies be made only for personal study purposes.

Universities attach a great deal of importance to lectures because they form an indispensable way of introducing the students to a new subject, of introducing fundamental concepts and ideas, giving them sources of information and reading material.

The taking of notes during a lecture is a matter for the student to decide. Efficient note taking keeps the student active while fixing the attention on what is said. It provides the raw material for preparing assignments and revision work for examinations.

To keep systematic notes of lectures, laboratory work, field work, design work and drawing work students are expected to possess basic equipment like science record books, drawing and writing paper, staples, hole puncher, scientific calculators and drawing equipment. Module Coordinator or Academic Adviser may be consulted on making purchase of such personal equipment.

All notices relating to time tabling, visiting lectures, guest lectures, examinations and other official announcements will be placed on notice boards in the administration building. Important notices are also displayed in the web page. Changes in time tables, lecture and laboratory schedules will be placed in the notice boards in lecture theatre building and laboratory buildings.

At various times throughout the course, students will be asked to complete questionnaires relating to various aspects of the degree programme. Responses to them will help to make improvements and take remedial action when necessary.

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