Faculty of Engineering
University of Ruhuna
Galle
Sri Lanka

HANDBOOK
Academic Year 2016/2017
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Published by:

Faculty of Engineering
University of Ruhuna
Hapugala, Wakwella
Galle 80000
Sri Lanka
http://www.eng.ruh.ac.lk
Our Vision

To be the prime intellectual thrust of the nation

Our Mission

To advance knowledge and skills through teaching, research and services to serve the society
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1.1 Introduction

University of Ruhuna was established on 1st September 1978, as Ruhuna University College by a Special Presidential Decree. Currently, University of Ruhuna constitutes with nine faculties, namely Agriculture, Engineering, Fisheries and Marine Sciences & Technology, Humanities and Social Sciences, Management & Finance, Medicine, Science, Technology and Graduate Studies.

Faculties of Humanities and Social Sciences, Fisheries and Marine Sciences & Technology, Management & Finance, Science and Graduate Studies are located at the main University premises at Wellamadama (Matara). Faculties of Agriculture, Engineering and Medicine are located in Mapalana (Kamburupitiya), Hapugala (Galle) and Karapitiya (Galle) respectively. The Faculty of Technology is temporary located at the Wellamadama premises until the facilities are completed. The central administration unit of the University is also located at the Wellamadama University complex.

The University offers Bachelor, Master and PhD degrees in their respective disciplines. In addition, Diploma and Certificate courses are conducted in various disciplines.

At the first recruitment of the University of Ruhuna for the Bachelors’ degree programmes in 1978, a total of 272 students were enrolled and in the year 2015

<table>
<thead>
<tr>
<th>Name of the Faculty</th>
<th>No. of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>830</td>
</tr>
<tr>
<td>Engineering</td>
<td>924</td>
</tr>
<tr>
<td>Fisheries and Marine Sciences &amp; Technology</td>
<td>148</td>
</tr>
<tr>
<td>Humanities and Social Sciences</td>
<td>1685</td>
</tr>
<tr>
<td>Management and Finance</td>
<td>1502</td>
</tr>
<tr>
<td>Medicine</td>
<td>1265</td>
</tr>
<tr>
<td>Science</td>
<td>890</td>
</tr>
<tr>
<td>Total student population of the University</td>
<td>7244</td>
</tr>
</tbody>
</table>
it has been increased to 7244 students, across seven faculties (Table 1.1),
recording its fast growth during the past four decades.

1.2 Location of the University

University of Ruhuna main campus is located 4 Km away from Matara along
the Colombo Hambantota (A2) main road. Matara (Sinhala: මාතර Tamil:
மாத்தறை) (originally Mahathota) is a city on the southern coast of Sri Lanka,
160 km from Colombo. Matara historically belongs to the area called Ruhuna,
one of the three kingdoms in Sri Lanka. First Indians who arrived to the island
country according to the Mahawansa settled in the area, along the banks of
Nilwala River.

Traveling from Colombo to Matara can be made either by train or buses. There
are only a limited number of trains but buses are available every half an hour
through the normal route or expressway. The journey through normal route
takes about four hours from Colombo while one and half hours through
expressway. Matara is the last railway station where the railway lines end and
the last exit of the expressway in the South.

1.3 Officers of the University

**Chancellor**
Venerable Rajakeeya Panditha Pallaththara Sumanajothi Nayaka Thero

**Vice-Chancellor**
Snr. Professor Gamini Senanayaka
B.Sc., Agri. (Pera.),
PhD (Copenhagen)

**Deputy Vice Chancellor**
Dr. A.M.N Alagiyawanna
B.Sc. (Eng Hons) (Moratuwa), MEng (AIT), DEng (Nagaoka), C.Eng, MIE(SL)

**Registrar**
Mrs. P.S. Kalugama
BA (J’pura), MA (London), MBA(Ruh)
Dean, Faculty of Agriculture  
Prof. KL Wasantha Kumara  
BSc Agric., MSc, PhD  

Dean, Faculty of Engineering  
Dr. P.D. Chandana Perera  
B.Sc. Eng, PhD Eng, C.Eng, MIE(SL)  

Dean, Faculty of Fisheries and Marine Sciences & Technology  
Dr. R.A. Maithreepala  
B.Sc.(Ruhuna), M.Phil (Ruhuna), PhD (Taiwan)  

Dean, Faculty of Humanities and Social Sciences  
Professor S. Wawwage  
BA (Pera), M.Phil (Ruhuna)  

Dean, Faculty of Management and Finance  
Dr. T.S.L.W. Gunawardana  
PhD (Bodo, Norway), MSc (Agder, Norway), BBA (Ruh, SL)  

Dean, Faculty of Medicine  
Professor Sarath Lekamwasam  
MBBS, MD, FRCP, FCCP, PhD  

Dean, Faculty of Technology  
Professor W. D. G. Dharmarathna  
B.Sc. (Pera), MSc, PhD (Tufts, USA)  

Dean, Faculty of Science  
Prof. L. P. Jayantha  
B.Sc. (Kelaniya, Sri Lanka), M.Sc.(J’Pura,SL), Ph.D.(QUT,Australia)  

Dean, Faculty of Postgraduate Studies  
Prof. Jayathissa  
Ph D (Stirling, UK) M Phil (Ruh, SL), B Sc (Hons), (Ruh,SL)  

Librarian  
Mr. Ananda Karunarathna  

Bursar (Acting)  
Mr. A.M.A Siriwardhana  
B.Sc. (J’pura), ICASL (Intermediate)
1.4 Contact Information of the University

1.4.1 Postal Addresses

Main administration block of the University is located in Wellamadama. Also, Faculty of Fisheries & Marine Sciences & Technology, Faculty of Humanities & Social Sciences, Faculty of Management & Finance, Faculty of Science, Faculty of Graduate Studies are located in the Wellamadama.

University of Ruhuna,
Wellamadama, Matara, 81000,
Sri Lanka

Addresses of the other four campuses are as follows;

**Faculty of Agriculture**
University of Ruhuna
Mapalana, Kamburupitiya,
81100, Sri Lanka.

**Faculty of Engineering**
University of Ruhuna
Hapugala, Galle,
80000, Sri Lanka.

**Faculty of Medicine**
University of Ruhuna
Karapitiya,
Galle..
80000, Sri Lanka

**Faculty of Technology**
University of Ruhuna
Karagoda-Uyangoda
Kamburupitiya
81100, Sri Lanka

1.4.2 Telephone and Fax Numbers of the University

<table>
<thead>
<tr>
<th></th>
<th>Telephone</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellamadama Complex</td>
<td>+94(0)41222681-2</td>
<td>+94(0)41222683</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+94(0)412227001-4</td>
</tr>
<tr>
<td>Faculty of Agriculture</td>
<td>+94(0)41229220</td>
<td>+94(0)412292384</td>
</tr>
<tr>
<td>Faculty of Engineering</td>
<td>+94(0)912245765</td>
<td>+94(0)912245762</td>
</tr>
<tr>
<td>Faculty of Fisheries and Marine Science &amp; Technology</td>
<td>+94(0)412227026</td>
<td>+94(0)412227026</td>
</tr>
</tbody>
</table>
Faculty of Humanities and Social Sciences  +94(0)412227010  +94(0)412227010

Faculty of Management & Finance  +94(0)412227015  +94(0)412227015

Faculty of Medicine  +94(0)912234730  +94(0)912222314

Faculty of Science  +94(0)412222701  +94(0)412222701

1.4.3  Electronic Mail/Web

The university can be reached by electronic mail from anywhere in the world. The mail domain is ruh.ac.lk. The e-mail addresses of the academic staff and other offices are available in the University Web site: http://www.ruh.ac.lk.
### Internal Telephone Numbers (Main Campus)

<table>
<thead>
<tr>
<th>Position</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice Chancellor Office</td>
<td>2000</td>
</tr>
<tr>
<td>Deputy Vice Chancellor Office</td>
<td>2001</td>
</tr>
<tr>
<td>Registrar Office</td>
<td>2110</td>
</tr>
<tr>
<td>Dean, Faculty of Fisheries and Marine Sciences &amp; Technology</td>
<td>5101</td>
</tr>
<tr>
<td>Senior Assistant Registrar</td>
<td>5102</td>
</tr>
<tr>
<td>Dean, Faculty of Science Assistant Registrar</td>
<td>4101</td>
</tr>
<tr>
<td>Dean, Faculty of Humanities and Social Sciences Assistant Registrar</td>
<td>3101</td>
</tr>
<tr>
<td>Dean, Faculty of Management &amp; Finance Assistant Registrar</td>
<td>3901</td>
</tr>
<tr>
<td>Dean, Faculty of Technology Assistant Registrar</td>
<td>4501</td>
</tr>
<tr>
<td>Dean, Faculty of Graduate Studies Assistant Registrar</td>
<td>2147</td>
</tr>
<tr>
<td>Librarian</td>
<td>2210</td>
</tr>
<tr>
<td>Bursar</td>
<td>2150</td>
</tr>
<tr>
<td>Senior Assistant Bursar (Finance)</td>
<td>2108</td>
</tr>
<tr>
<td>Assistant Bursar (Finance)</td>
<td>2103</td>
</tr>
<tr>
<td>Assistant Bursar (Supplies)</td>
<td>2115</td>
</tr>
<tr>
<td>Deputy Registrar (General Administration)</td>
<td>2120</td>
</tr>
<tr>
<td>Deputy Registrar (Examinations)</td>
<td>2130</td>
</tr>
<tr>
<td>Assistant Registrar (Student Affairs)</td>
<td>2135</td>
</tr>
<tr>
<td>Senior Assistant Registrar (Academic Establishment)</td>
<td>2144</td>
</tr>
<tr>
<td>Senior Assistant Registrar (Non-Academic Establishment)</td>
<td>2140</td>
</tr>
<tr>
<td>Engineer</td>
<td>2145</td>
</tr>
<tr>
<td>Director, Physical Education</td>
<td>2223</td>
</tr>
<tr>
<td>Medical Officer</td>
<td>2121</td>
</tr>
<tr>
<td>Carrier Guidance Unit</td>
<td>2132</td>
</tr>
<tr>
<td>Chief Security Officer</td>
<td>2126</td>
</tr>
<tr>
<td>Office</td>
<td>2127</td>
</tr>
</tbody>
</table>

*Note:* Above extensions can be reached after dialling +94(0)41222681-2
Chapter 2

Faculty of Engineering

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.

**Vision Statement - Faculty of Engineering**

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

**Mission Statement - Faculty of Engineering**

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

### 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 Staff and Contact Information of the Faculty Office

<table>
<thead>
<tr>
<th>Email</th>
<th>Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean’s Office</td>
<td></td>
</tr>
<tr>
<td>Dean:</td>
<td></td>
</tr>
<tr>
<td>Dr. P.D.C. Perera</td>
<td></td>
</tr>
<tr>
<td>B.Sc.Eng. (Zhejiang),</td>
<td></td>
</tr>
<tr>
<td>Ph.D. (Aalborg, Denmark),</td>
<td></td>
</tr>
<tr>
<td>C.Eng., MIE(SL), MIEEE</td>
<td></td>
</tr>
<tr>
<td>+94 (0)91 2245761</td>
<td>1002</td>
</tr>
<tr>
<td><a href="mailto:dean@eng.ruh.ac.lk">dean@eng.ruh.ac.lk</a></td>
<td></td>
</tr>
<tr>
<td>Assistant Registrar:</td>
<td></td>
</tr>
<tr>
<td>Mrs. G.H.C. Nadeeshani</td>
<td></td>
</tr>
<tr>
<td>B.Sc. HRM (Hons) (USJP),</td>
<td></td>
</tr>
<tr>
<td>CIMA Passed Finalist.</td>
<td></td>
</tr>
<tr>
<td>+94 (0)91 2245764</td>
<td>1102</td>
</tr>
<tr>
<td><a href="mailto:reg@eng.ruh.ac.lk">reg@eng.ruh.ac.lk</a></td>
<td></td>
</tr>
<tr>
<td>Assistant Bursar:</td>
<td></td>
</tr>
<tr>
<td>Mrs. A.S.I. Fernando</td>
<td></td>
</tr>
<tr>
<td>B.Com. (Kelaniya)</td>
<td></td>
</tr>
<tr>
<td>+94 (0)91 2245763</td>
<td>1101</td>
</tr>
<tr>
<td><a href="mailto:bursar@eng.ruh.ac.lk">bursar@eng.ruh.ac.lk</a></td>
<td></td>
</tr>
</tbody>
</table>
**Engineering Education Centre**
Coordinator:
Dr. J. M. R. S. Appuhamy

eec@eng.ruh.ac.lk 1113

**Library**
Senior Assistant Librarian:
Mr. J. J. Garusing Arachchige
B.A.(Kelaniya), MLS(Colombo)
jagath@eng.ruh.ac.lk 1311

**Career Guidance Unit**
Coordinator:
Ms. S. N. Malkanthi

snmalkanthi@cee.ruh.ac.lk 2233

**Deputy Proctor:**
Dr. K.S. Wanniarachchci

wanniarachchi@cee.ruh.ac.lk 2221

**Student Counselling**
Deputy Senior Student Counsellor:
Dr. T.M. Rengarasu

rengarasu@cee.ruh.ac.lk 2231

Student Counsellors:
Dr. H. P. Sooriyaarachchi

harsha@cee.ruh.ac.lk 2132
Dr. M.R. Udawalpolo

rajitha@eie.ruh.ac.lk 3231
Dr. W.M.K.R.T.W. Bandara

wasala@cee.ruh.ac.lk 2231
Mr. D.S. De Silva

saman@eie.ruh.ac.lk 3131
Dr. (Mrs) Champika Ellawala

ellawala@cee.ruh.ac.lk 2323
Dr. H. C. P. Karunasena

chaminda@mme.ruh.ac.lk 5232
Dr. H. C. Ambawatte

chithral@mme.ruh.ac.lk 5231
Ms. N.M. Wagarachchi

mihirini@is.ruh.ac.lk 4206
Mr. J. J. Garusing Arachchige

jagathga@lib.ruh.ac.lk 1311

**Halls of Residence**
Academic Wardens:
Dr. G. G. T. Chaminda (Male Hostels)
tusharac@cee.ruh.ac.lk 2234
Ms. S. N. Malkanthi (Female Hostels)

snmalkanthi@cee.ruh.ac.lk 2233
Sub-wardens:
Mr. P. J. Hewawasam (Male Hostels) 1407
Ms. Priyani Nagahawaththa (Female Hostels) 1408

Academic Sub-wardens (Female Hostels):
Dr. D.M.K.N. Seneviratna seneviratna@is.ruh.ac.lk 4202
Ms. M. A. S. T. Ireshika ireshika@eie.ruh.ac.lk 3123

Academic Sub-wardens (Male Hostels):
Mr. K.C. Wickramasinghe krishan@mme.ruh.ac.lk 5223
Mr. M.T.T. Ranjan ranjan@mme.ruh.ac.lk 5124

Sports
Sports Advisors:
Dr. Champika Ellawala ellawala@cee.ruh.ac.lk 2323
Mr. H. W. H. L. Walpita harsha@eie.ruh.ac.lk 3034

Instructor in Physical Education:
Mr. P.K. Sanath Chandana sanath@eng.ruh.ac.lk 1410

Engineering Workshop
Workshop Engineer:
Mr. A. G. K. M. S. Sriyantha Konarathna ssriyantha@mme.ruh.ac.lk
B.Sc.Eng.(Peradeniya)

Telephone and Computer Network
Assistant Network Manager:
Mr. T. A. M. Kalpage thilina@eng.ruh.ac.lk 3211
Bsc.(Hons.) IT (Computer Systems and Networking) (SLIIT)

Programmer Cum System Analyst:
Mr. I. Muthumala iranga@eng.ruh.ac.lk 3213
B.Sc.(Ruhuna)

Computer Centre 4301
2.4 Degree Programs

The Bachelor of the Science of Engineering (B.Sc.Eng.) degree programme is a full-time course of modular structure, organised on a two-semesters-a-year system, over 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.
2.5 Specifications of the degree programme

2.5.1 SLQF

The Sri Lankan Qualifications Framework (SLQF) is a nationally consistent framework for all higher education qualifications offered in Sri Lanka. It recognizes the volume of learning of students and identifies the learning outcomes that are to be achieved by the qualification holders. SLQF comprises of ten levels and the descriptors of each of these levels are stated in a comprehensive manner. Since the volume of learning is considered in the SLQF, the number of credits that should be earned by students for each qualification is also given. To complete four years full time BSc Engineering degree programme, a student must earn minimum 150 credits which falls to SLQF Level 7.

2.5.2 Accreditation

B.Sc. Engineering Degree Programs conducted by Faculty of Engineering are accredited by Institute of Engineers Sri Lanka (IESL) a signatory to the “Washington Accord” of International Engineering Alliance (IEA) which is an International Accreditation agreement for professional engineering academic degrees. Being a signatory to the Washington Accord, the four year full time degree programmes accredited by the IESL are considered as substantially equivalent to the four year degree programmes that have been accredited by the other signatories to the Accord. Accordingly, graduates of three departments are well recognized by other signatory countries (Australia, Canada, Taiwan, Hong Kong, India, Ireland, Japan, Korea, Malaysia, New Zealand, Russia, Singapore, South Africa, Turkey, United Kingdom and the United States) as having met the academic requirements for entry to the practice of Engineering.

The faculty obtained its full IESL accredited status for the undergraduate programmes in 2010. IESL conducted re-accreditation in year 2016 and the degree programmes were granted unconditional “Full Accreditation” for next 5 years till year 2020.
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 the stipulated University Admission Criteria. Applicants with foreign qualifications referred for admission by the UGC will be admitted only with the consent of the Faculty Board of Engineering.

3.2 Registration

Students admitted to the Faculty must 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 must 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 13.2) before registration in every semester regarding the academic load (section 11.1) 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:

<table>
<thead>
<tr>
<th></th>
<th>Odd Semester (1st half)</th>
<th>7 weeks</th>
<th>Even Semester (1st half)</th>
<th>7 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-semester recess</td>
<td>1 week</td>
<td></td>
<td>Mid-semester recess</td>
<td>1 week</td>
</tr>
<tr>
<td>Odd Semester (2nd half)</td>
<td>7 weeks</td>
<td>Even Semester (2nd half)</td>
<td>7 weeks</td>
<td></td>
</tr>
<tr>
<td>Study leave</td>
<td>1 week</td>
<td></td>
<td>Study leave</td>
<td>1 week</td>
</tr>
<tr>
<td>Examination period</td>
<td>2 weeks</td>
<td>Examination period</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>Vacation</td>
<td>1 week</td>
<td></td>
<td>Industrial Training</td>
<td>12 weeks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Work Camp / Vacation</td>
<td>3 weeks</td>
</tr>
</tbody>
</table>

3.4 Orientation Programme

An Orientation Programme (Developmental Programme) of 8 – 10 weeks consisting of courses in English, Computer Awareness 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 would be awarded on successful completion of each course. A student, who receives a grade fail, ‘Fail-E’, could improve it to a grade “Pass-S”. Two repeat attempts along with supplementary sessions to improve the grade will be offered within the subsequent academic year. Registration for the specialisation courses will 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 will be considered on a case-by-case based on satisfactory attendance during Developmental Programme and completion of all modules in Semesters 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.
3.5 Course Structure

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

1. a common core course extending over the first two semesters, and
2. a specialisation course of three academic years’ duration extending over the next six semesters.

In the Common Core Course a student has to score 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, will have to 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 will be prescribed by the Senate on the recommendation of the Faculty Board.

3.5.1 Common Core Course

The Common Core Course offered jointly by all departments of study in the Faculty consists of 14 (fourteen) modules carrying thirty six (36) credits towards the graduation requirement.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 1301</td>
<td>CE 2201</td>
</tr>
<tr>
<td>Introduction to Civil Engineering</td>
<td>Fundamentals of Fluid Mechanics</td>
</tr>
<tr>
<td>EE 1301</td>
<td>CE 2302</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Mechanics of Materials</td>
</tr>
<tr>
<td>EE 1102</td>
<td>EE 2201</td>
</tr>
<tr>
<td>Introduction to Programming</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>ME 1201</td>
<td>EE 2202</td>
</tr>
<tr>
<td>Engineering Drawing</td>
<td>Introduction to Electronic Engineering</td>
</tr>
<tr>
<td>ME 1202</td>
<td>ME 2201</td>
</tr>
<tr>
<td>Fundamentals of Engineering Thermodynamics</td>
<td>Engineering Mechanics</td>
</tr>
<tr>
<td>IS 1302</td>
<td>ME 2302</td>
</tr>
<tr>
<td>Communication for Engineers</td>
<td>Introduction to Materials Science and Manufacturing Engineering</td>
</tr>
<tr>
<td>IS 1401</td>
<td>IS 2401</td>
</tr>
<tr>
<td>Mathematical Fundamentals for Engineers</td>
<td>Linear Algebra and Differential Equations</td>
</tr>
<tr>
<td>18 Total Credits</td>
<td>18 Total Credits</td>
</tr>
</tbody>
</table>

Note:

The first two letters a module number represent the department of study, first numeral stands for the semester number; 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 register for 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 11.2. Note that those who are reattempting the modules should follow the procedures mentioned in section 11.2.

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 according to 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.
3.6 Credit Framework Policy

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.

3.7 Selection of Course Units

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.
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 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 at least follow 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.
3.8 Attendance Requirement

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.

3.9 Medical Certificated

Students who become absent from theory classes/ laboratory sessions/ in class assessments/ field sessions/ design sessions/ work camp(s)/ project(s)/ the date of submission of 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 adviser. Appeal for the excuse should be submitted within one week from the date of report to the Faculty after the illness or any other acceptable reason. Submitted medical certificates should be in accordance with the Internal Circular issued by the University of Ruhuna.

3.10 By law of the Faculty

By Law of the faculty consists of all the academic related information, regulations and activities. The By law document is distributed among all the student in their enrolment process. All the students should aware and refer the by law of the faculty to continue their studies during the academic period.
Chapter 4

Management Information System (FEMIS)
Hostel Facilities and Scholarships

The FEMIS of Faculty of Engineering is an initiative taken for converting the conventional registration documenting activities to an online system for the purpose of improving the convenience of user access. This system grants access to Undergraduate/Postgraduate Students, Dean, Head of the Departments, Lecturers, Assistant Registrar, Librarian, Academic Supportive Staff and Non Academic Staff. All the tasks students have to carry out involving Faculty administration can be conducted through the FEMIS online.

An account is assigned for every student registered in the Faculty of Engineering. A student can access their account by entering their respective username and password (which would be facilitated by the Faculty administration) to the FEMIS website found through the following URL.


However, the students should change their password after their first attempt to login to the system. Using FEMIS, students can perform following functions.

- Register for Courses / Modules
- Register for Semester Examinations and Repeat Examinations
- View the registered courses
- View the results of completed courses
- View the eligibility for examinations, semester continuation and credit achievement
- View Notices corresponding to courses

4.1 Registration for Courses

It is a compulsory requirement for students to register for courses in the FEMIS before the commencement of each semester. The deadline for course selection would be announced by the faculty administration (Usually one week after commencement of the semester). Students are entirely responsible for registration process. Before the deadline, students should complete the course
selection process according to the guidelines given below under Phase 1 to Phase 3.

- **Phase 1:** In the 1st and 2nd semesters, all the courses been offered are compulsory courses. But from 3rd semester onwards, students should select technical and general elective courses offered by each department (given in sections 5.3, 6.3, 7.3 and 8.3) based on their interest and credit requirements given in sections 5.4, 6.4 and 7.4.

- **Phase 2:** Once the deadline is met, the finalized course selection should be approved by the academic advisor of the student in the FEMIS. The academic advisor would consider the factors such as work load of the students for a semester, shortages in credit achievements and any other special circumstances in which the students face difficulties on continuing the academic activities. Students are advised to meet the academic advisor while approving the registration. During this process students could request the academic advisor to drop any selected courses from the list of registered courses. A week after the initial deadline is given for this approving process.

- **Phase 3:** After the approval process, students are given another week for adding or dropping courses based on a request forwarded to the Assistant Registrar through a letter.

Before each semester registration, FEMIS would enable or disable students’ ability to register for that semester depending on their achievement of minimum credit requirement to be eligible for the next semester. If the student fails to acquire the minimum number of credits at the end of the semester, they would not be able to register for the courses through FEMIS.

### 4.2 Registration for Examinations

When a student is registered for a particular course, he or she would be automatically registered to the corresponding end semester examination of the course. The examination admission would be issued to the student before the exam. However, faculty administration would cancel the registration of the course if the student does not satisfy the following requirements.

- Attain 80% attendance for lectures of the course
• Satisfy the necessary requirement for Continuous Assessment marks of the course which is specified under the module information sheet of the course

4.3 Hostel Facilities and Policy

There are hostel facilities in the Faculty of Engineering for males and female students. All the Hostels are located at or near the vicinity of the faculty. All the hostels are administered under Wardens and Sub-wardens of the faculty. The academic sub-wardens (male and female) and non-academic sub-wardens are staying at every hostel for providing assistance to students whenever necessary.

Hostel policy followed by the University of Ruhuna is to grant priority to first and final year students when accommodating. To know the current hostel fee and room vacancies please contact non-academic sub-warden of the relevant hostel.

4.4 Scholarships

For students with high academic achievements and/or are facing financial difficulties are assisted through scholarship schemes that are offered by the Faculty of Engineering in addition to Mahapola Higher Education Scholarships.

4.4.1 Mahapola Higher Education Scholarships

This scholarship scheme is a nationwide scholarship granted for university students which is administered by the University Grants Commission (UGC). The students should submit the completed Mahapola application (received with the university application) to the UGC. The student's parent’s income, the number of siblings studying under 18 years of age, the distance from his/her home to the university and the student's rank at district level are considered when granting the scholarship. Amount and number of instalments of Mahapola scholarships is decided by the Mahapola trust fund.
4.4.2 Bursaries

The students who were not eligible for Mahapola Scholarship scheme are given the opportunity to apply for bursaries offered by the University. University administration would issue the bursary applications to all the students who gained admission to the university with their application. The same factors that were considered for Mahapola scholarship are applied for bursary selections.

4.4.3 Other Scholarships

There are several other scholarship schemes available for undergraduate students of Faculty of Engineering which are offered annually. In most cases Engineering Faculty Scholarship Committee (EFSC) is responsible for selecting the most suited and deserving candidates for the scholarships. Selection procedure for these scholarships might consider the factors such as level of the financial status, academic performance and achievement at extra-curricular activities of the students. Faculty will time to time advertise the availability and the selection criteria for the scholarships. Students are encouraged to apply.

<table>
<thead>
<tr>
<th>Scholarship Name / Scholarship Granting Institution</th>
<th>Selection Criteria*</th>
</tr>
</thead>
</table>
| 1 Association of Sri Lankan Engineers Australia (ASLEA) | - Academic Performance  
- Financial Difficulties |
| 2 Ruhuna Alumni Association of Civil and Environmental Engineering (RACEE) | - Financial Difficulties  
- For students of Department of Civil and Environmental Engineering |
| 3 Ceylon Steel Cooperation (LANWA) (Pvt) Ltd. through Department of Civil and Environmental Engineering | - Academic Performance  
- For final year students of Department of Civil and Environmental Engineering |
| 4 Engineering Faculty Scholarship Foundation | - Academic Performance  
- Financial Difficulties  
- Involvement and Achievements in Extra Curricular Activities |
5  Jayamini Samaraweera Scholarship
6  Chandrapala Weerakoon Scholarship - Academic Performance
7  Ensina Wickramasekara Scholarship - Financial Difficulties
8  K. G. K. Weditha Scholarship
9  Scholarships presented by anonymous Private Sponsors - Financial Difficulties
10 Matara Bhodi Arakshaka Sabha
11 YMBA - Colombo
12 Sujatha Guruge Foundation
13 Al – Agil Scholarship Fund
14 Scholarships offered by UGC

*Note: Selection criteria might change without notice.
Department of Civil and Environmental Engineering

5.1 Research Areas

- Infrastructure Planning
- Transportation Engineering
- Highway Engineering
- Water and Wastewater Engineering
- Concrete Engineering
- Building Dynamics
- Geology and soil mechanics
- Steel Structures
- Coastal Engineering
- Hydraulics
- Hydrology
- Renewable Energy
- Green Technology

5.2 Members of the Department

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5.3 Courses Offered by the Department

The curriculum offered by the Department of Civil and Environmental Engineering (DCEE) includes a rapidly developing set of courses that caters to the emerging requirements of the state of the art technologies. The curriculum is designed according to the guidelines offered by the Outcome Based Education (OBE) system introduced by the IESL. Modules follow strict guidelines of the Washington Accord requirement.

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

5.3.2 Compulsory Course Modules
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. CE 4301 Design of Concrete Structures I
07. CE 4302 Engineering Geology and Soil Mechanics
08. CE 4203 Structural Analysis II
09. CE 4304 Transportation Engineering
10. CE 4305 Water and Wastewater Engineering
11. CE 5201 Design of Steel Structures
12. CE 5302 Highway Engineering Design
13. CE 5303 Hydraulic Engineering
14. CE 5204 Structural Analysis III
15. CE 5251 Design of Timber and Masonry Structures (TE)
16. CE 5252 Graphical User Interface Programming (TE)
17. CE 5253 Infrastructure Planning (TE)
18. CE 5254 Integrated Solid Waste Management (TE)
19. CE 5255 Remote Sensing and GIS (TE)
20. CE 6301 Construction Processes and Technology
21. CE 6302 Design of Concrete structures II
22. CE 6303 Engineering Hydrology
23. CE 6304 Environmental Engineering Design
24. CE 6305  Geotechnical Engineering
25. CE 6106  Surveying Work Camp
26. CE 6251  Building Services Engineering (TE)
27. CE 6252  Dynamic & Control of Structures (TE)
28. CE 6253  Ecological Engineering (TE)
29. CE 6254  Coastal Engineering (TE)

30. CE 7301  Construction Management
31. CE 7402  Comprehensive Design Project
32. CE 7203  Computer Analysis of Structures
33. CE 7304  Environmental Management
34. CE 7305  Geotechnical Engineering Design
35. CE 7206  Introduction to Research Methodology
36. CE 7607  Undergraduate Research Project
37. CE 7251  Coastal Engineering – Application and Management (TE)
38. CE 7252  Ground Improvement Techniques (TE)
39. CE 7253  Highway Maintenance and Management (TE)
40. CE 7254  Water Reclamation and Reuse (TE)

41. CE 8252  Irrigation and Watershed Management (TE)
42. CE 8253  Water Resource Planning and Management (TE)
43. CE 8254  Analysis and Design of Large Structures for Dynamic Loadings (TE)

5.3.3 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 5254  Integrated Solid Waste Management (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)
5.4 Credit Requirement

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.

<table>
<thead>
<tr>
<th>Category</th>
<th>Module Code and Module Name</th>
<th>Minimum Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Sciences and Engineering Design</td>
<td>CE 5251 Design of Timber and Masonry Structures (TE)</td>
<td>Minimum 7 credits should be obtained from this category.</td>
</tr>
<tr>
<td></td>
<td>CE 5252 Graphical user Interface Programming (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 5253 Infrastructure Planning (TE)</td>
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<tr>
<td></td>
<td>CE 5255 Remote sensing and GIS (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 6251 Building Services Engineering (TE)</td>
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</tr>
<tr>
<td></td>
<td>CE 6252 Dynamic and Control of Structures (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 6254 Introduction to Coastal Engineering(TE)</td>
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</tr>
<tr>
<td></td>
<td>CE 7251 Coastal Engineering-Applications and Management (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 7252 Ground Improvement Techniques (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 7253 Highway Maintenance and Management (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 8251 Design of Bridge Structures (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 8252 Irrigation Engineering (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CE 8253 Water Resource Planning and Management (TE)</td>
<td></td>
</tr>
<tr>
<td>Engineering Sciences and</td>
<td>CE 5254 Integrated Solid Waste Management (TE)</td>
<td>Minimum 2 credits should be obtained from this category.</td>
</tr>
<tr>
<td>Engineering Design</td>
<td>CE 5254 Integrated Solid Waste Management (TE)</td>
<td></td>
</tr>
</tbody>
</table>

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| Engineering Design – Environmental Engineering | CE 6253 Ecological Engineering (TE)  
CE 7254 Water reclamation and reuse (TE) | be obtained from this category |
| Management, Engineering Economics and Communication | IS 3303 Basic Economics (GE)*  
IS 5202 Industrial Safety and Resource Management (GE)  
IS 5303 Financial Management (GE)*  
IS 5304 Industrial Management (GE)*  
IS 6203 Entrepreneurship and Project Management (GE)*  
IS 6304 Management and Organizational Behaviour (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 3206 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 Modelling and Animation (GE)  
IS 4205 Aesthetics and Design (GE)  
IS 4106 Spiritual Development (GE)  
IS 6202 Introduction to Sociology (GE)  
IS 7101Engineering Ethics (GE)* | Minimum 5 credits should be obtained from this category. |

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

5.5 **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
Chapter

6

Department of Electrical and Information Engineering Department

6.1 Research Areas

- Artificial Intelligence based controlling
- Biomedical Engineering Applications
- High Performance Computing
- Information Security Protocols
- Internet of Things (IoT)
- Machine Learning
- Power Electronics
- Sensor Fusion Techniques
- Smart Grid technologies
- Renewable Energy
- Underwater Devices and Communication
- Wireless and Cooperative Communication

6.2 Members of the Department

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6.3 Courses Offered by the Department

The curriculum offered by the Department of Electrical and Engineering (DEIE) includes a rapidly developing set of courses that caters to the emerging requirements of the state of the art technologies. The Compulsory Core Modules of the department curriculum are mainly focused on providing fundamental engineering knowledge and practice in the specialized fields of Electrical, Electronic, Telecommunication and Information Engineering. The elective modules offered by the department are designed and updated to cater the requirements of the industry and novel technological advancements. The curriculum is designed according to the guidelines offered by the Outcome Based Education (OBE) system introduced by the IESL.

6.3.1 Main Subdivisions

1. Electrical Engineering
2. Electronic Engineering
3. Telecommunication Engineering
4. Software Engineering
### 6.3.2 Compulsory Course Modules

Core modules for Electrical and Information Engineering specialisation shall consist of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 3301</td>
<td>Analog Electronics</td>
</tr>
<tr>
<td>EE 3302</td>
<td>Engineering Electromagnetism</td>
</tr>
<tr>
<td>EE 3303</td>
<td>Electric Machines</td>
</tr>
<tr>
<td>EE 3204</td>
<td>Graphical User Interface Programming</td>
</tr>
<tr>
<td>EE 3205</td>
<td>Signals and Systems</td>
</tr>
<tr>
<td>EE 3108</td>
<td>Electronic Project</td>
</tr>
<tr>
<td>IS 3301</td>
<td>Complex Analysis and Mathematical Transforms</td>
</tr>
<tr>
<td>EE 4301</td>
<td>Communication Theory</td>
</tr>
<tr>
<td>EE 4302</td>
<td>Digital Electronics</td>
</tr>
<tr>
<td>EE 4303</td>
<td>Data Structures and Algorithms</td>
</tr>
<tr>
<td>EE 4204</td>
<td>Electrical and Electronic Measurements</td>
</tr>
<tr>
<td>EE 4305</td>
<td>Power Systems</td>
</tr>
<tr>
<td>EE 4106</td>
<td>Software Engineering Principles</td>
</tr>
<tr>
<td>IS 4301</td>
<td>Probability and Statistics</td>
</tr>
<tr>
<td>EE 5201</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>EE 5302</td>
<td>Computer Networks</td>
</tr>
<tr>
<td>EE 5203</td>
<td>Data Management Systems</td>
</tr>
<tr>
<td>EE 5304</td>
<td>Power Electronics</td>
</tr>
<tr>
<td>EE 5305</td>
<td>Sensors, Transducers and Measurement Techniques</td>
</tr>
<tr>
<td>EE 5206</td>
<td>Software Project</td>
</tr>
<tr>
<td>IS 5301</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>EE 6301</td>
<td>Communication Systems</td>
</tr>
<tr>
<td>EE 6302</td>
<td>Control System Design</td>
</tr>
<tr>
<td>EE 6303</td>
<td>Electric Machines and Drives</td>
</tr>
<tr>
<td>EE 6304</td>
<td>Embedded System Design</td>
</tr>
<tr>
<td>EE 6205</td>
<td>Energy and Environment</td>
</tr>
<tr>
<td>IS 6301</td>
<td>Mathematical Modelling</td>
</tr>
<tr>
<td>EE 7601</td>
<td>Undergraduate Project</td>
</tr>
<tr>
<td>IS 7101</td>
<td>Engineering Ethics</td>
</tr>
</tbody>
</table>

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6.3.3 Technical Elective (TE) Modules

The department offers Technical Elective modules from third semester onwards. The bulk of the TE modules are offered in the final two semesters (7 and 8). Students are encouraged to select the TE modules based on their specialization interest. However, the Department will announce the modules to be offered in a particular semester at the commencement of the semester based on the availability of the resource person(s) and number of students registered to follow the modules. Some Technical Elective modules relevant to Electrical and Information Engineering course are:

EE 3207 Planning and Management for Electrical Engineers
EE 5207 Internet Technologies
EE 5208 Electronic Circuit Design
EE 6206 Operating Systems Programming
EE 6207 Wireless and Mobile Communication
EE 7202 Power Electronic Applications
EE 7203 Power System Analysis
EE 7204 Scientific Computing
EE 7205 Object Oriented Design Patterns and Principles
EE 7206 Mobile Application Development
EE 7206 Machine Learning
EE 7207 Computer Vision and Image Processing
EE 7208 Advanced Data Communication
EE 7209 Digital Signal Processing
EE 7210 Telecommunication Networks
EE 7211 Optical Fibre Communication
EE 7212 Introduction to Research
EE 8301 High Voltage Engineering
EE 8202 Electrical Systems in Buildings
EE 8203 High Performance Computing
EE 8204 Information Security
EE 8205 Software Architecture
EE 8206 Computer Graphics
EE 8207 Optimization Techniques for Engineers
EE 8208 Intelligent Systems Design
EE 8209 Microwave Communications
EE 8210 Digital Communication
EE 8211 Design and Management of Data Networks
EE 8212 Biomedical Engineering
EE 8213 Photonic Devices
EE 8115 Introduction to Hardware Description Languages
EE 8117 Video Compression and Communication

6.4 Credit Requirements based on Subject Categories

In order to satisfy the IESL accreditation requirements and the faculty graduation requirements, students should select the above TE modules and General Elective (GE) modules offered by the Department of Interdisciplinary Studies in accordance to the minimum credit requirements given in the following table.

<table>
<thead>
<tr>
<th>Category</th>
<th>Module Code and Module Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Science and Design</td>
<td>EE5207 Internet Technologies (TE)</td>
<td>Minimum 15 credits should be obtained from this category.</td>
</tr>
<tr>
<td></td>
<td>EE5208 Electronic Circuit Design (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EE6206 Operating Systems and Programming (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EE6207 Wireless and Mobile Communication (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EE7202 Power Electronic Applications (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EE7203 Power systems Analysis (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EE7204 Scientific Computing (TE)</td>
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<tr>
<td></td>
<td>EE7205 Object Oriented Design Patterns and Principles (TE)</td>
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<td></td>
<td>EE7206 Mobile Application Development (TE)</td>
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<td></td>
<td>EE7206 Machine Learning (TE)</td>
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<tr>
<td></td>
<td>EE7207 Computer Vision and Image Processing (TE)</td>
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<td>EE7208 Advanced Data Communication (TE)</td>
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<tr>
<td></td>
<td>EE7209 Digital Signal Processing (TE)</td>
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<tr>
<td></td>
<td>EE7210 Telecommunication Networks (TE)</td>
<td></td>
</tr>
<tr>
<td>EE7211 Optical Fibre Communication (TE)</td>
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<td></td>
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<tr>
<td>EE7212 Introduction to Research (TE)</td>
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<tr>
<td>EE8301 High Voltage Engineering (TE)</td>
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<tr>
<td>EE8202 Electrical Systems in Buildings (TE)</td>
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<tr>
<td>EE8203 High Performance Computing (TE)</td>
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<tr>
<td>EE8204 Information Security (TE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EE8205 Software Architecture (TE)</td>
<td></td>
<td></td>
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<tr>
<td>EE8206 Computer Graphics (TE)</td>
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<td></td>
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<tr>
<td>EE8207 Optimisation Techniques for Engineers (TE)</td>
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<td></td>
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<tr>
<td>EE8208 Intelligent Systems Design (TE)</td>
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<td></td>
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<tr>
<td>EE8209 Microwave Communications (TE)</td>
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<tr>
<td>EE8210 Digital Communication (TE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EE8211 Design and Management of Data Networks (TE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EE8212 Biomedical Engineering (TE)</td>
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<td></td>
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<tr>
<td>EE8213 Photonic Devices (TE)</td>
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<tr>
<td>EE8115 Introduction to Hardware Description Languages (TE)</td>
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<tr>
<td>EE8117 Video Compression and Communication (TE)</td>
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<tr>
<td>EE8208 Intelligent Systems Design (TE)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Management, Engineering Economics and Communication</th>
<th>Sub Category: General Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS33303 Basic Economics* (GE)</td>
<td></td>
</tr>
<tr>
<td>IS5303 Financial Management (GE)</td>
<td></td>
</tr>
<tr>
<td>IS5304 Industrial Management* (GE)</td>
<td></td>
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<tr>
<td>IS5205 Information Literacy and Scientific Communication Skills (GE)</td>
<td></td>
</tr>
<tr>
<td>IS6203 Entrepreneurship and Project Management* (GE)</td>
<td></td>
</tr>
<tr>
<td>IS6304 Management and Organizational Behaviour (GE)</td>
<td></td>
</tr>
<tr>
<td>IS8201 English for the Professional World (GE)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum 12 credits should be obtained from this category.
Sub Category: Management for Electrical Engineers
EE3207 Planning and Management for Electrical Engineers (TE)

<table>
<thead>
<tr>
<th>Humanities, Social Sciences, Arts and Engineering Ethics</th>
<th>IS3302 Society and the Engineer* (GE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS3104 Graphics Design (GE)</td>
<td>IS3105 Creative Dance and Oriental Ballet (GE)</td>
</tr>
<tr>
<td>IS 3106 Physical Development and Health Management (GE)</td>
<td>IS3207 Introduction to Astronomy (GE)</td>
</tr>
<tr>
<td>IS 4302 Technology and Society (GE)</td>
<td>IS4103 Appreciation of Music (GE)</td>
</tr>
<tr>
<td>IS4104 Digital Modelling and Animation (GE)</td>
<td>IS4205 Aesthetics and Design (GE)</td>
</tr>
<tr>
<td>IS4106 Spiritual Development (GE)</td>
<td>IS5202 Industrial Safety and Resource Management* (GE)</td>
</tr>
<tr>
<td>IS6202 Introduction to Sociology (GE)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum 04 credits 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

6.5 Laboratory Facilities

1. Electric Machines and Power Systems Laboratory
2. High Voltage and Renewable Energy Laboratory
3. Electronics and Measurements Laboratory
4. Electronics Workshop
5. Communication and Systems Laboratory
6. Computer and Information Engineering Laboratory
7. Networking Laboratory
8. Undergraduate Project Development Laboratory
7.1 Research Areas

- Manufacturing Engineering
- Industrial Engineering and Management
- Materials Engineering
- Fluid Mechanics and Fluid Power Systems
- Thermal Engineering and Energy Management
- Automobile Engineering
- Marine Engineering
- Renewable Energy
- Nanotechnology
- Applied Mechanics
- Mechatronics
- Control Systems
- Robotics and Automation

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    AMIE(SL)
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   (Moratuwa), MIEEE, AMIE(SL)  
   darshana@mme.ruh.ac.lk  5323

6. Mr. S.D. Gunawardhana  
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7. Mr. M.T.T. Ranjan  
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8. Mr. K.C. Wickramasinghe  
   B.Sc.Eng.(Hons) (Ruhuna),  
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Lecturers (Temporary):

1. Mr. A.H. Thalakotunage  
   B.Sc.Eng.(Hons) (Ruhuna),  
   M.Sc.(Thammasa, Thailand),  
   AMIE (SL)  
   thalakotunage@mme.ruh.ac.lk  5224

2. Mr. H.L. Subasinghe  
   B.Sc.Eng.(Hons) (Ruhuna),  
   AMIE(SL)  
   lknath@mme.ruh.ac.lk  5311
7.3 Courses Offered by the Department

The Department of Mechanical and Manufacturing Engineering presently conducts BSc Engineering degree programme in Mechanical and Manufacturing Engineering, and postgraduate programmes leading to MPhil degrees in Engineering. The Department in recent times has undergone significant changes and expanded its scope widely to accommodate challenges of the 21st century. A major expansion was undertaken in Computer Aided Design and Manufacturing, Mechatronics, Nanotechnology, Industrial Engineering and undergraduate/postgraduate research. A comprehensive curriculum revision was also carried out in the areas; Materials, Manufacturing, Applied Mechanics, Control and Mechatronics, Thermal and Fluid Engineering to accommodate the Outcome Based Education (OBE) system introduced by Institution of Engineers Sri Lanka (IESL) in 2013.

7.3.1 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

7.3.2 Compulsory Course Modules

Core modules for Mechanical and Manufacturing Engineering specialisation shall consist of the following:

- ME 3301 Fluid Mechanics
- ME 3302 Metallurgy for Engineers
- ME 3303 Modelling of Dynamic Systems
- ME 3304 Strength of Materials
- IS 3301 Complex Analysis and Mathematical Transforms
ME 4301  Applied Thermodynamics
ME 4302  Design of Machine Elements
ME 4303  Manufacturing Engineering
ME 4304  Mechanics of Machines
IS 4301  Probability and Statistics

ME 5301  Computer Aided Design
ME 5302  Electrical Power and Machines
ME 5303  Mechanical Engineering Design
ME 5304  Refrigeration and Air Conditioning
IS 5301  Numerical Methods

ME 6301  Advanced Fluid Mechanics
ME 6302  Automatic Control Engineering
ME 6303  Computer Aided Manufacturing
ME 6304  Production Planning and control
IS 6301  Mathematical Modelling

ME 7301  Maintenance Management
ME 7302  Production and Operations Management
ME 7303  Solid Mechanics
ME 7604  Undergraduate Project

ME 8301  Heat Transfer
ME 8302  Industrial Fluid Dynamics

7.3.3  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 3111  Engineering Design Methodology (TE)
ME 4311  Analog and Digital Electronics (TE)
ME 4312  Automobile Engineering (TE)
ME 5311 Mechatronics (TE)
ME 5312 Marine Engineering Knowledge (TE)
ME 5113 Technical Report Writing (TE)
ME 5214 Advanced Automobile Engineering (TE)

ME 6211 Nanotechnology (TE)
ME 6312 Robotics (TE)
ME 6213 Research Methodology and Ethics (TE)
ME 6114 Technical Presentation Skills (TE)

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)
ME 8213 Individual Research Project (TE)

### 7.4 Credit Requirement

In order to satisfy the IESL accreditation requirements and the faculty graduation 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Module Code and Module Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Design and Projects</td>
<td>ME 3111 Engineering Design Methodology (TE)</td>
<td>Minimum 07 credits should be obtained from this category.</td>
</tr>
<tr>
<td></td>
<td>ME 4311 Analog and Digital Electronics (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ME 5311 Mechatronics (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ME 6312 Robotics (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ME 7313 Industrial Automation and Control (TE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ME 8213 Individual Research Project (TE)</td>
<td></td>
</tr>
<tr>
<td>Engineering Discipline Specialization</td>
<td>ME 4312 Automobile Engineering (TE)</td>
<td>Minimum 09 credits should be</td>
</tr>
<tr>
<td></td>
<td>ME 5312 Marine Engineering Knowledge (TE)</td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>Courses</td>
<td>Credits Required</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>------------------</td>
</tr>
</tbody>
</table>
| Management, Engineering Economics and Communication | IS 3303 Basic Economics* (GE)  
IS 5202 Industrial Safety and Resource Management (GE)  
IS 5303 Financial Management (GE)  
IS 5304 Industrial Management* (GE)  
IS 5205 Information Literacy and Scientific Communication Skills (GE)  
ME 5113 Technical Report Writing (TE)  
IS 6203 Entrepreneurship and Project Management* (GE)  
IS 6304 Management and Organizational Behaviour (GE)  
ME 6114 Technical Presentation Skills (TE)  
IS 8201 English for the Professional World (GE)  
ME 8312 Energy Management (TE) | 6 |
| Humanities, Social Sciences, Arts and Engineering Ethics | IS 7101 Engineering Ethics (GE)* | 1 |

Minimum 06 credits should be obtained from Management, Engineering Economics and Communication category.
Minimum 01 credit should be obtained from Humanities, Social Sciences, Arts and Engineering Ethics category.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>mandatory credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 3302</td>
<td>Society and the Engineer* (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 3104</td>
<td>Graphics Design (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 3105</td>
<td>Creative Dance and Oriental Ballet (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 3206</td>
<td>Physical Development and Health Management (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 3207</td>
<td>Introduction to Astronomy (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 4302</td>
<td>Technology and Society (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 4103</td>
<td>Appreciation of Music (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 4104</td>
<td>Digital Modelling and Animation (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 4205</td>
<td>Aesthetics and Design (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 4106</td>
<td>Spiritual Development (GE)</td>
<td></td>
</tr>
<tr>
<td>IS 6202</td>
<td>Introduction to Sociology (GE)</td>
<td></td>
</tr>
<tr>
<td>ME 6213</td>
<td>Research Methodology and Ethics (TE)</td>
<td></td>
</tr>
</tbody>
</table>

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

### 7.5 Laboratory Facilities

1. Engineering Workshop
2. Manufacturing Engineering Laboratory
3. Engineering Materials Laboratory
4. Thermodynamics Laboratory
5. Automobile Laboratory
6. Fluid Mechanics Laboratory
7. Applied Mechanics and Mechatronics Laboratory
8. Computer Aided Design Laboratory
8.1 Research Areas

- Applied Mathematics
- Artificial Neural Networks
- English Language and Literature
- Entrepreneurship Development of Engineering Graduates
- Evaluation and Seismic Retrofitting of Structures
- Financial Data Analysis
- Innovation Management
- Numerical Methods
- Organizational Behaviour
- Quantum Mechanics
- Semiconductor Physics
- Small Business Development
- Strategic Orientation
- Time Series Forecasting
8.2 Members of the Department

Department of Interdisciplinary Studies  4001

Head:  +94 (0)91 3927426  headis@is.ruh.ac.lk  4000
Mr. W. T. G. Samantha

Senior Lecturers:
1. Mr. W.T.G. Samantha  samantha@is.ruh.ac.lk
   B.Sc. Special in Industrial Mgmt. (Hons) (Kelaniya), MBA (AIT), MIM  4203
2. Dr. J.M.R.S. Appuhamy  ruwan@is.ruh.ac.lk
   B.Sc.Eng. (Hons) (Peradeniya),
   M.Sc.(Pavia), Ph.D.(Ehime), AMIE(SL), MTS(Hawaii), MJSCE(Japan)  4201
3. Dr. D.M.K.N. Seneviratna  seneviratna@is.ruh.ac.lk  4202
   B.Sc. Special in Maths (Hons) (Ruhuna),
   M.Sc.(J'Pura), Ph.D. (Wuhan, China)
4. Dr. Aruna Wanninayake  aruna@is.ruh.ac.lk  4205
   B.Sc. (Kelaniya), M.Sc.( Peradeniya),
   M.S. (Omaha, USA), M.S. (Milwaukee, USA), Ph.D. (Milwaukee, USA),

Lecturers :
1. Ms. N. M. Wagarachchi  mihirini@is.ruh.ac.lk  4206
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Lecturers (Probationary):
1. Ms. R. L. Perera  ranjika@is.ruh.ac.lk  4211
   B.Sc. Special in (MIT) (Hons) (Kelaniya),
   PCM(CIM), FHRM(IPM), MBA (AIT)

Lecturers (On Study Leave):
1. Ms. W.M.I Udayanganie  iresham@is.ruh.ac.lk
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   Dip in HRM (IPM), MBA (Ruhuna)
2. Ms. M.H.M.R.S. Dilhani  rasika@is.ruh.ac.lk
   B.Sc. Special in Maths (Hons) (Ruhuna)
Lecturers (Temporary):

1. Ms. Saumya Batuwatta
   BA (J’pura), MA (Reading, Kelaniya), Visharadha of Music (Bathkandhe Sangeeth Vidyapit - Lucknow India)

   saumya@is.ruh.ac.lk  4212

8.3 Courses offered by the Department

The Department of Interdisciplinary Studies 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.

8.3.1 Main Subdivisions

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

8.3.2 Compulsory Course Modules

The compulsory modules offered by the Department of Interdisciplinary Studies shall consist of the following:

IS 1401 Mathematical Fundamentals for Engineers
IS 1302 Communication for Engineers
IS 2401 Linear Algebra and Differential Equations
IS 3301 Complex Analysis and Mathematical Transforms
IS 4301 Probability and Statistics
IS 5301 Numerical Methods
IS 6301 Mathematical Modelling

8.3.3 General Elective Modules

General Elective modules offered by the Department of Interdisciplinary Studies belong to the following four categories:

GE – 1: Professional Ethics and Personal Development Category
GE – 2: Humanities, Arts and Social Sciences Category
GE – 3: Engineering Economics, Finance and Management Category
GE – 4: Communication Category
Students are encouraged to select at least one module from each category. These modules are 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-2)
IS 3105 Creative Dance and Oriental Ballet (GE-2)
IS 3206 Physical Development and Health Management (GE-1)
IS 3207 Introduction to Astronomy (GE-2)

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

IS 5202 Industrial Safety and Resource Management (GE-3)
IS 5303 Financial Management (GE-3)
IS 5304 Industrial Management (GE-3)
IS 5205 Information Literacy and Scientific Communication Skills (GE-4)

IS 6202 Introduction to Sociology (GE-2)
IS 6203 Entrepreneurship and Project Management (GE-3)
IS 6304 Management and Organizational Behaviour (GE-3)

IS 7101 Engineering Ethics (GE-1)

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

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.

9.2 English Language Teaching Unit

The English Language Teaching Unit (ELTU) is located in the Faculty of Humanities and Social Sciences, University of Ruhuna, Matara. It is common to all the students in all the faculties of the university since English as a compulsory constituent of their respective degree programmes. Currently, the English Intensive Course under the Orientation Programme is conducted by the ELTU. It offers academic programmes aiming at developing undergraduate's reading, writing, listening and speaking skills based on their academic fields.

9.3 Physical Education Unit

The main aim of the Physical Education unit is to produce graduates with good physical and mental standing who possess good leadership qualities and
obey common decisions and the law of the Nation. To fulfil the above aim, the department conducts many physical education and sports activities.

The Department is advised by a sports advisory board, which consists of officials of the department and two academics from each of the Faculty.

Figure 9.1 Organisational Structure of Physical Education Unit
All the sports and recreational activities are conducted by the Physical Education Unit of the Faculty. The staff of the physical education unit is mentioned below.

<table>
<thead>
<tr>
<th>Designation</th>
<th>Name</th>
<th>Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director</td>
<td>Mr. P. N. Weerasinghe</td>
<td><a href="mailto:phyedu@admin.ruh.ac.lk">phyedu@admin.ruh.ac.lk</a></td>
</tr>
<tr>
<td></td>
<td>B.Com. Sp. (Sri J'Pura),</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sports Dip. (Ministry of Sports)</td>
<td></td>
</tr>
<tr>
<td>Sports Advisory</td>
<td>Dr. Champika Ellawala</td>
<td><a href="mailto:ellawala@cee.ruh.ac.lk">ellawala@cee.ruh.ac.lk</a></td>
</tr>
<tr>
<td>Committee</td>
<td>Dept. of Civil and Environmental</td>
<td></td>
</tr>
<tr>
<td>Members (Academic)</td>
<td>Mr. H. W. H. L. Walpita</td>
<td><a href="mailto:harsha@eie.ruh.ac.lk">harsha@eie.ruh.ac.lk</a></td>
</tr>
<tr>
<td></td>
<td>Dept. of Electrical and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Information Engineering</td>
<td></td>
</tr>
<tr>
<td>Instructor</td>
<td>Mr. J. P. A. N De Silva</td>
<td><a href="mailto:anushanirmal@gmail.com">anushanirmal@gmail.com</a></td>
</tr>
<tr>
<td>(Non-Academic)</td>
<td>BSc. (Kelaniya)</td>
<td></td>
</tr>
</tbody>
</table>

The Physical Education unit is located at the top floor of the faculty canteen. The sports instructor is available in the office in weekdays from 8.30 am to 4.30 pm.

## 10.1 Available Sports in the Faculty

There are various sports available in the Faculty of Engineering. Such Indoor sports available are:

- Basketball (Men and Women)
- Badminton (Men and Women)
- Table Tennis (Men and Women)
- Weight Lifting (Men and Women)
- Volleyball (Men and Women)
• Chess (Men & Women)
• Taekwondo (Men & Women)
• Karate (Men & Women)
• Carrom (Men & Women)
• Netball (Women)
• Wrestling (Men)
• Swimming (Men & Women)

Indoor sports are carried out in the Faculty Gymnasium located near the Faculty Play Ground. The outdoor sports that are available for students are;

• Athletics (Men and Women)
• Hockey (Men and Women)
• Elle (Men and Women)
• Cricket (Men)
• Football (Men)
• Baseball (Men)

10.2 Sports Tournaments

The university is organizing several sports tournaments throughout the year. In addition, university level tournaments are organized by Sri Lanka University Sports Association (SLUSA).

• Fresher’s Sports Meet:
This tournament is organized among the first year students in all faculties in University of Ruhuna for the purpose of discovering talented students in sports to make the selections for the faculty teams at the earliest stages of their university life.

• Inter-Faculty Sports Tournament:
The Inter-faculty tournaments are organized within the university among faculties for each year. The faculty teams are selected based on the performance at faculty level selection games organized by the physical education unit of the faculty.

• Inter-University Sports Championship:
These games are organized throughout the two year in between SLUG tournaments in different universities depending on the sport. The university teams are selected from a pool of players that are picked based on the
performances and skills been demonstrated in the Inter-Faculty games. The selected players for university teams are eligible for subsistence’s and allowances granted from the university.

- Sri Lanka University Games (SLUG):
  The SLUG is a major sporting event that is being organized by SLUSA. SLUG tournaments are held once in three years with the participation of all the universities in the country. This tournament is hosted by a selected university, and the majority of the games are held there within a span of months.

In addition, winners of the SLUG and Inter-University Championship are given the opportunity to represent the country as university undergraduates in international tournaments such as Asian University Championship and World University Games, which are held once every two years.

10.3 Sports Facilities

The Engineering faculty is equipped with a novel gymnasium and a playground located near the vicinity of the faculty for carrying out indoor and outdoor sports. The upper floor of the faculty canteen is used as the physical fitness unit along with the weight lifting equipment, which is also facilitating carom, chess and table tennis. The coaching is available for university level teams and sometimes, services of an external coach / trainer is sought out on part time basis.

The university is granting special facilities for students who are representing the university team / pool in university level tournaments. Sports equipment and gear are available for them freely for playing. A subsistence of LKR. 500 is paid per day when a student participates in an event held outside the University. For team events, the required clothing is provided to students at a cost of only 20% of the value. If the student is representing several sports, the cost would be charged only once. For practice sessions of Inter University Championships, the University provides an amount of LKR. 50 per day per student as a nourishment allowance.
10.4 Colours

There are two types of colours awarded for university students who are engaging and demonstrating exceptional talent in sports activities.

- University Colours:
  University colours are awarded in the Colours Award Ceremony of the university, which is held once in every two years. The students who won the inter-university level competitions at certain sports are eligible to receive the university colours.

- Sri Lanka University Sports Association (SLUSA) Colours:
  The SLUSA colours are awarded to sportsman in universities who shows unprecedented talent at university level. A sub-committee would be formed by SLUSA for each sport for selecting the soothing candidates for colours. The skill level, commitment and achievements of sportsman would be assessed by the appointed sub-committees. This award is considered as the highest achievement a university level sportsman could receive in Sri Lanka.
11.1 Academic Load, Class Standing and Attendance

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.

Students can use the Faculty Online Registration System; FoEMIS at the beginning of each semester to register for modules in that semester. Registration for a particular semester and class standing depend upon the total number of credits earned by a student at the end of the preceding semester.

<table>
<thead>
<tr>
<th>Total Credits</th>
<th>Class Standing</th>
<th>Semesters of Eligibility</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25</td>
<td>I</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>26-61</td>
<td>II</td>
<td>1, 2, 3, 4</td>
<td>1, 2</td>
</tr>
<tr>
<td>62-95</td>
<td>III</td>
<td>1, 2, 3, 4, 5, 6</td>
<td>2</td>
</tr>
<tr>
<td>96 or more</td>
<td>IV</td>
<td>1, 2, 3, 4, 5, 6, 7, 8</td>
<td>2</td>
</tr>
</tbody>
</table>

Notes:

1. To reach Class Standing II a student shall have successfully completed the Developmental Programme.
2. When calculating the total number of credits for the eligibility of the semesters, the credits earned from the elective modules (TE and GE) are calculated in order to satisfy only the minimum credits requirements for the electives modules prescribed by the relevant degree offering Department.
Once registered for a module, they are required to attend all the lectures, laboratory classes, tutorials, continuous assessments, etc. which are parts of that module. A minimum of 80% of attendance for lecture classes are necessary in order to be eligible to sit for the corresponding end-of-semester examination.

11.2 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.
<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Point Values (GPV)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
<td>1</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td></td>
</tr>
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<td>C</td>
<td>2.0</td>
<td>2</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>0.0</td>
<td>4</td>
</tr>
<tr>
<td>N</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>W</td>
<td>-</td>
<td>6</td>
</tr>
</tbody>
</table>

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). In the proper attempt, students can earn credits for C- grades 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-. In the repeat attempts, students cannot earn credits for C- grades. A student may improve a grade C- to the highest possible grade of C by repeating the module. Except grade C- other grades obtained in the A, B and C category cannot be improved 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 academic years (except the proper attempt) and shall only be replaced with an improvement by reattempting. Improved Continuous Assessment marks shall be eligible for the improvement of overall grade to the 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 11.2.

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 should immediately inform the Dean by a telegram and may appeal with supporting documents to the Dean for an Academic Concession within one week from the date of report to the Faculty. An Academic Concession (grade N) shall require the approval of the Faculty Board. Medical certificates submitting for 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.

11.3 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 10.2 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 11.1. 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

$$SGPA = \frac{\sum_{j=1}^{n} c_j GPV_j}{\sum_{j=1}^{n} c_j}$$

Equation (11.1)

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.

11.4 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.
11.5 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:

1. 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 11.2 as relevant.
2. 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).
3. Completion of the Developmental Programme, Industrial Training and any other mandatory requirements prescribed by the Faculty Board with the approval of the Senate.
4. A minimum Overall Grade Point Average (OGPA) of 2.00.
5. 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.

<table>
<thead>
<tr>
<th>Semesters</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 2</td>
<td>0.05</td>
</tr>
<tr>
<td>3 - 8</td>
<td>0.15</td>
</tr>
</tbody>
</table>

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 (11.2).

\[ OGPA = \sum_{i}^{n} \left( \frac{\sum_{j=1}^{n} C_j GPV_j}{\sum_{j=1}^{n} C_j} \right) (w_i) \]  

Equation (11.2)

where \( n \) is the number of modules taken to satisfy the graduation requirements in the \( i^{th} \) semester, \( GPV_j \) 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.

1. 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 11.2 as relevant.
2. 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).
3. Completion of the Developmental Programme, Industrial Training and any other mandatory requirements prescribed by the Faculty Board with the approval of the Senate.
4. 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.
5. A residence requirement of four academic years as a duly registered full time student of the University.
6. 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.

<table>
<thead>
<tr>
<th>OGPA value</th>
<th>Honours Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>OGPA ≥ 3.70</td>
<td>First Class Honours</td>
</tr>
<tr>
<td>3.30 ≤ OGPA &lt; 3.70</td>
<td>Second Class Honours Upper Division</td>
</tr>
<tr>
<td>3.00 ≤ OGPA &lt; 3.30</td>
<td>Second Class Honours Lower Division</td>
</tr>
</tbody>
</table>

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.

11.6 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.
11.7 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 11.5.
University of Ruhuna and Faculty of Engineering has many awards and medals for students performing well in academics. University will call application from the eligible candidates students are encouraged apply.

### 12.1 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.

### 12.2 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 qualifies 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.
Mr. Colombapatabandige Jinasena Memorial Gold Medal - Awarded for the Graduand who qualifies for the Degree of Bachelor of the Science of Engineering specialized in Mechanical and Manufacturing Engineering with at least a Second Class (Upper Division) Honours, securing the highest Overall Grade Point Average.

12.3 Best Student Awards

The certificates are awarded to the Graduand who excel in the identified areas in each Engineering Degree Programme.
13.1 Student Counselling Service

Counselling services are offered on a confidential basis to students by deputy senior student counsellor and student counsellors appointed 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. Students are urged to use the student counselling service to get advice on personal problems.

13.2 Academic Advisory Service

In addition to Deputy senior student counsellor and student counsellors, the faculty will appoint an academic advisor for each student. Students are urged meet the academic advisors on a regular basis and to use the academic advisory service to get advice on academic related problems.

13.3 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 connection with the Career Guidance Unit of the University of Ruhuna.
13.4 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.

13.5 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. 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, Newspapers and photocopying service are some of the facilities available in the Student Centre.
14.1 Student Union of the Faculty

Engineering Faculty Student Union (EFSU) is the students’ body which represents fellow students of the Faculty. The EFSU consist 13 representatives of students and one office bearer as Senior Treasurer from academic staff in the Faculty of Engineering, University of Ruhuna, who are elected for a period of one year. Students can get actively involved with the union by becoming a committee member and attending councils and general meetings or by becoming an elected officer.

The EFSU is at the fore front to help lift the faculty for academic excellence in engineering sciences and applications through education, knowledge creation, innovation and transfer of technology while encouraging students to improve their leadership qualities to become world class graduates. The EFSU organizes social service programs and entertainment events to provide students a solid platform and exposure to express their talents during the stay at the university. Some of the specific activities carried out by the EFSU include:

- Holding Annual General Meeting to elect office bearers for tenure of one year.
- Holding common meetings to make decisions on students’ issues
- Maintaining Ruhuna Engineering Faculty Scholarship Foundation (REFSF) to provide financial scholarships to needy students in the faculty
- Organizing entertaining and musical events in collaboration with the Art Society of the Faculty
- Organizing sport events in collaboration with the Sports Club of the Faculty
- Organizing various social programs as community services to the society being the recipients of benefits of free education.
14.2 Other Societies of the Faculty

14.2.1 Civil and Environmental Engineering Society (CEES)

Civil and Environmental Engineering Society (CEES) is the main society within the department that consists of the academic staff and students. The role of academic staff within the society is mainly advisory. The goal of the Civil and Environmental Engineering Society is to upgrade student’s life in the department giving them opportunity to improve their leadership and interpersonal qualities. Apart CEES represent the department in inter-university, national and international activities.

Some of the specific activities carried out by the CEES include:

- Holding Annual General Meeting to elect office bearers for tenure of 12 months.
- Organizing guest lectures by inviting key personnel from the industry and research organizations.
- Organizing charity work to promote and encourage students of serving underprivileged sectors of the society.
- Organizing a campaign on public’s awareness of the environment to celebrate the World Environmental Day.
- Conducting “Civil Engineering Research Exchange Symposium (CERES)” every year, collaborating with Civil Engineering Societies of the University of Peradeniya and University of Moratuwa.
- Conducting Graduate Symposium to share the research outcomes of undergraduate research work.

14.2.2 Highway Engineering Society (HES)

Student chapter of Highway Engineering Society was established as the second student chapter after University of Moratuwa. Aims of this society are to enhance the student knowledge on highway related works by organising workshops, expert forums and field visits.

14.2.3 Ruhuna Alumni Association of Civil and Environmental Engineering Society (RACEE)

In addition to being known as extremely talented and capable engineers, the graduates of the Department of Civil and Environmental Engineering of Ruhuna University, are known for good networking among themselves. The Ruhuna Alumni Association of Civil and Environmental Engineering Graduates (RACEE) is founded with the aim of formalizing such strong
relationships among the department and its graduates who are practicing as Engineers now. Initiated in 2012, the association is expected to pave way for active collaborations among the stake holders,

- to provide an opportunity to interact with the Department of Civil and Environmental Engineering, Faculty of Engineering after graduation.
- to further the professional development of the graduates.
- to provide an opportunity to network among Ruhuna Civil Engineering Graduates.
- to foster relationship among graduates and the undergraduates of the Department of Civil and Environmental Engineering.
- to facilitate the department to shape the undergraduate programme to meet the current demand of the industry.

Empowered by its constitution, the organization continues to achieve its objective under the guidance of the Department of Civil and Environmental Engineering.

14.2.4 Electrical and Information Engineering Society

Electrical and Information Engineering Society (EIES) is the main society within the department that consists of the academic staff and students. The academic staff of the department facilitates to EIES as an advisory board and the students lead each and every activity organized by the society. The goal of the Electrical and Information Engineering Society is to upgrade student’s life in the department giving them opportunity to improve not only academic and technical skills but also their leadership interpersonal and professional qualities. Some of the specific activities carried out by the EIES include:

- Holding Annual General Meeting to elect office bearers for tenure of 12 months.
- Organizing guest lectures by inviting key personnel from the industry and research organizations.
- Organizing workshops to junior students who have entered to Electrical and Information Engineering stream as their field of specialization.
- Organizing charity work to promote and encourage students of serving underprivileged sectors of the society.
- Conducting “XbotiX” every year, collaborating with IEEE Student Branch University of Ruhuna, IET Ruhuna Chapter and MMESS.
- Organizing workshops for school children.
14.2.5 Institute of Electrical and Electronics Engineers (IEEE) Student Branch, Faculty of Engineering

IEEE is the world’s largest technical professional organization dedicated to advancing technology for the benefit of humanity. There are over 3,000 Student Branches in over 100 countries, globally. The IEEE Student Branch, University of Ruhuna which was initiated in 2012, is one of the conspicuous student branches in Sri Lanka. The society has been at the forefront of conducting many annual activities to enhance socio-dynamic and technical skills of the students. They include ‘XbotiX’ Annual Robotic Competition, Application Development Contests, IEEE Invictus Day, IEEE Xtreme Coding Competition and workshops in Electronics, Power Engineering, Telecommunication and related fields. Further it helps conduct workshops in robotics, field visits and laboratory sessions, educational, charity events for school children as a service to the society.

14.2.6 The Institution of Engineering and Technology Young Professional Section (IET-YP) Ruhuna Chapter

The Institution of Engineering and Technology (IET) is an international Professional Institution for Engineering professionals and Technical related personal, having headquarters in UK and consists branches in 127 countries and many members across the world. IET promotes the advancement of electrical, electronic, communication, and manufacturing engineering disciplines, and facilitates the exchange of knowledge and ideas. It also provides a broad range of services to members in assisting them in developing their careers by improving their capabilities as engineers.

The IET-Young Professionals’ Sri Lanka Network in under the umbrella of the main IET of Sri Lanka, members of the IET-YP are Undergraduates and young professionals involved in Engineering and Technology fields. At present there are IET-YP chapters at the Engineering faculties of the Universities of Moratuwa, Peradeniya and Ruhuna.

The IET-YP conducts various activities throughout the year to develop and to nurture more competent and able resource personalities to the nation. While it conducts guest lectures with resource personal both locally and internationally, many field visits too are organized in order to allow the members firsthand experience to the field of study and to groom them to new emerging technologies.
14.2.7 Alumni Association of Ruhuna Electrical and Information Engineering (AAREIE)

Alumni Association of Ruhuna Electrical and Information Engineering (AAREIE) is the organization that nurtures lifelong relationships among the graduates, former and current academics of the Department of Electrical and Information Engineering (DEIE) of University of Ruhuna (UoR).

As a committed partner of DEIE, the association supports undergraduates and the academic staff in producing the best engineering professionals to the society. AAREIE connects remarkable people and ideas, creating opportunities to positively impact DEIE and work diligently to keep alumni connected to one another, foster their success and stay engaged with the department. AAREIE activities in brief;

- Workshop series for undergraduates to develop their professional & interpersonal skills.
- Go hand in hand with Electrical & Information Engineering Society of the department in special events planned by undergraduates.
- Support the department to fulfill its obligations towards achieving accreditations.
- Representation of alumni of DEIE, UOR at various forums arranged by the industry and professional institutions.
- Maintain undisruptive communication and social media channels to keep the members updated.
- Support newly pass out graduates to embark the journey of professional engineering.
- Organize Annual General Meeting and get-together for the alumni to meet each other and to update their relationship.

14.2.8 Mechanical and Manufacturing Engineering Students’ Society (MMESS)

Mechanical and Manufacturing Engineering Students’ Society (MMESS) is the main society within the department that consists of academic staff and students. The academic staff of the department facilitates to MMESS as an advisory board and the students lead each and every national and international activities organized by the society. The goal of the MMESS is to upgrade student’s life in the department giving them opportunities to improve not only academic and technical skills but also their leadership, interpersonal,
management and professional qualities. Some of the specific activities which are carried out each year by the MMESS include:

- Holding Annual General Meeting to elect office bearers for tenure of 12 months.
- Organizing workshops to junior students who have entered to Mechanical and Manufacturing Engineering stream as their field of specialization.
- Organizing guest lecturers by inviting key personnel from the industry and research organizations.
- Organizing charity work to promote and encourage students of serving underprivileged sectors of the society.
- Hosting some other cultural events.

14.2.9 Institution of Mechanical Engineers-United Kingdom, Ruhuna Student Chapter (IMechE, UK)

The Institution of Mechanical Engineers is the fastest growing professional engineering institution in the UK. Over 100,000 members work at the heart of the country’s most important and dynamic industries. Ruhuna Engineering Students Chapter - IMechE is the chapter established recently in order to provide a better relation between the Faculty and IMechE. University of Ruhuna was the first ever university in Srilanka to have a IMechE Student Chapter. IMechE Ruhuna student chapter helps coordinate

- Local and international competitions among undergraduate students (IMechE Formula Student Motorsport Competition, Speak Out for Engineering (SOFE) Presentation Competition, Engineering Design Competitions)
- Awareness sessions and membership drive campaigns
- Guest lectures on related technical and non-technical subjects.
- Annual general meetings and membership gatherings

14.2.10 Ruhuna Alumni Association of Mechanical and Manufacturing Engineering Society (RAMME)

The Ruhuna Alumni Association of Mechanical and Manufacturing Engineering (RAMME) was found to establish the solidarity of the graduates of the Department of Mechanical and Manufacturing Engineering (DMME). It provides opportunities for the graduates of the Department to encourage foster and promote close relations between the DMME and graduate engineers. Initiated in 2014, the association is expected to pave way for active collaborations among the stake holders.
Further it facilitates,

a) To assist and support the efforts of the DMME in raising funds for its development and any other important activities related to DMME.
b) To support the professional development of the graduates of DMME.
c) To provide an opportunity to network among Ruhuna Mechanical and Manufacturing Engineering graduates around the world.
d) To foster relationships among graduates and the undergraduates of the DMME.
e) To facilitate the DMME to shape the undergraduate program to meet the current demands of the industry.

Activities

- Annual General Meeting and Get-togethers of all alumni members.
- Fund raising activities for the benefit of needy students and the department.
- Activities to improve the quality of the undergraduate program and the students
- Activities which provide opportunities to interact with the Department of Mechanical and Manufacturing Engineering, Faculty of Engineering after graduation to benefit their professional and personal development through networking

14.2.11 Activating the Leadership Potential of Young People (AIESEC) Ruhuna Chapter

AIESEC is a global, independent, non-political, non-profit, youth-run organization. AIESEC does not discriminate on the basis of gender, sexual orientation, disabilities, creed, national ethnic group or social region. AIESEC is present in 126 countries and territories, 70,000 active members worldwide and 2,400 university representations.

The vision of AIESEC is to develop responsible and entrepreneurial young leaders who can meet the modern day challengers in the world by providing practical leadership experiences through volunteer experience and professional internships.

As an educational institution in Sri Lanka, University of Ruhuna has already launched its AIESEC chapter - AIESEC in University of Ruhuna with groundwork commenced by Faculty of Engineering. Now, it has been expanded among whole the university community. AIESEC is one of the
societies in which students and academic staff from all the departments of Faculty of Engineering works on a common platform.

Typical annual activities of AIESEC in University of Ruhuna include;

- Annual General Meeting to elect office bearers for a tenure of 12 months
- Participation for national conferences organized by AIESEC Sri Lanka Chapter; National Leadership Development Summit (NLDS), Expansion Conference (ExCon)
- Organizing charity activities with the collaboration of foreign students to serve underprivileged sectors in Sothern Province
- Providing opportunities for the students in University of Ruhuna to have international volunteer experience in abroad through Global Volunteer Program
- Providing opportunities to participate for internship programs in others countries through Global Internship Program

14.2.12 Art Society, Faculty of Engineering, University of Ruhuna

Engineering Faculty Art Society plays a great role to open up the talents of undergraduates by organizing various extracurricular activities/functions in a calendar year. The society was formed with the help of the student union, academic staff and the Dean of Faculty of Engineering, University of Ruhuna.

Typical functions of one calendar year;

- “Thambarawila”, Aesthetic Talent Show (Every other year).
- “Sinhala/Tamil New Year Festival” (Annual)
- “Sadhaham Bathi Gee” during the Wesak Season (Annual)
- “Carol” function in the Christmas Season (Annual)
- “Saraswathee Pooja” in October (Annual)
- “Padura” Outdoor Musical Show (Annual)
- “ Piriith Deshana and Alms Giving” (Annual)

14.2.13 Buddhist Society, Faculty of Engineering, University of Ruhuna

The Buddhist Society of the Faculty of Engineering, University of Ruhuna is for all who have an interest to experience the Buddhist philosophy. Membership of the society is free and open to students, academic staff and non-academic staff. We welcome everyone regardless of cultural or religious
background to join with us and discover the Buddha’s teaching, the Law of Dharma running through everything that exists beyond religious boundaries. The president of the Buddhist society is a senior academic member of the Faculty of Engineering, University of Ruhuna and the other office bearers of the society are elected from students, academic staff and non-academic staff. The objectives of the Buddhist society are,

- To encourage faculty community to achieve their spiritual development through Buddhist philosophy.
- To help live free from suffering, filled with joy and compassion according to the Dharma, the true Wisdom.
- To coordinate and organise Buddhist activities within the Faculty of Engineering, University of Ruhuna.
- To protect Buddhist culture and its values fast disappearing from the society.
- To contribute to the religious harmony within the university community and beyond.

**14.2.14 Green Club Ruhuna Engineering Faculty (GREF)**

The aim of the Green Club is to create an awareness of Green Concept and Sustainability among students, faculty, staff and administration of the Faculty of Engineering, University of Ruhuna and ultimately transform the Faculty of Engineering to a Sustainable Green Campus.

The purpose of the GREF shall be;

- to raise the environmental awareness of the students and staff of the Faculty of Engineering, University of Ruhuna and to contributing to the process of making Faculty of Engineering a more environmentally educated and responsible institution.
- to diminish the impact of ecological footprints by implementing the principles of sustainability at a possible level of faculty functioning.
- to encourage student and staff on technical innovation and research on Green Concept (eg: energy conservation, emissions reduction, sustainable water management, solid waste management, enhancing environmental quality, sustainable engineering, etc)
- to support sustainable green campus/education institute development in the country
14.2.15 Ruhuna Engineering Faculty Sports Club

Ruhuna Engineering Faculty Sports Club of University of Ruhuna guides the Engineering Faculty students in developing their sports skills and in carrying out regular practicing in a productive manner. Also by organizing intra-faculty sports tournaments REFSC is liable to promote sports in the Faculty of Engineering. Some of the specific activities carried out by the REFSS Include,

- Holding Annual General Meeting to elect office bearers for tenure of one year.
- Supports to meet the needs of students engage in sports.
- Helps to develop sporting facilities at the Faculty of Engineering.
- Organizing sports activities and competitions such as SOCCER 7's, Intra-faculty Cricket tournament, Intra-faculty Volleyball tournament, Intra-faculty Carrom tournament, Intra-faculty Table Tennis tournament, Intra-faculty Badminton tournament etc.
- Guides to instill discipline through sports.

14.2.16 Ruhuna Engineering Gavel Club

Ruhuna Engineering Gavel Club was initiated in 2015 aiming to enhance interpersonal and communication skills of engineering undergraduates. The society mainly comprises undergraduate students of the faculty. The present counselor of the club is Dr. Keerthi Gunawickrama, Head of the department, Electrical and Information Engineering. The club regularly conducts activities and workshops on English Speaking, Presentations, Leadership and Interpersonal skills which are essential to foster professional skills of undergraduates. The Gavel club helps students:

- Overcome nervousness when speaking before an audience.
- Organize and present ideas logically and convincingly.
- Listen carefully to others’ ideas.
- Participate and lead group discussions or meetings.
- Offer advices to help others improve their speaking and leadership skills.
15.1 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.

15.2 Guidelines to Good Study Practices

15.2.1 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.

15.2.2 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.

15.2.3 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 sessions/in class assessments/field sessions/design sessions/work camp(s)/project(s)/the date of submission of 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 adviser. Appeal for the excuse should be submitted within one week from the date of report to the Faculty after the illness or any other acceptable reason. Submitted medical certificates should be in accordance with the Internal Circular issued by the University of Ruhuna.

15.3 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 into 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 into the examination hall.
  - are only allowed to use non-programmable calculators. FX991-ES and FX991-ES Plus calculators are also allowed to use subject to the condition that memory of the calculator is erased before entering into 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.

15.4 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.

15.5 Standards of Conduct

The students are expected to be responsible for the wellbeing 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.

15.6 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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