UNDERGRADUATE HANDBOOK

2020/2021

Faculty of Applied Sciences
South Eastern University of Sri Lanka
Sammanthurai – 32200
Sri Lanka
www.seu.ac.lk

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Faculty of Applied Sciences
South Eastern University of Sri Lanka
Sammanthurai – 32200
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1 INTRODUCTION

1.1 South Eastern University of Sri Lanka

The South Eastern University of Sri Lanka (SEUSL) was first established as the South Eastern University College of Sri Lanka and commenced to function from 27th July 1995. It was then upgraded to the status of a fully-fledged university, SEUSL, from 15th May 1996. There are six faculties in SEUSL. The Faculties of Arts and Culture, Management and Commerce, Islamic Studies and Arabic Languages, Technology, and Engineering are located in the main campus at Oluvil while the Faculty of Applied Sciences (FAS), established in 1997, is located at Sammanthurai.

Vision

"*An internationally renowned centre in South Asia for higher learning and innovations in sciences, technologies and humanities"*

Mission

"To provide expanded opportunities for higher learning of international standards through generation and dissemination of knowledge and innovations focused on regional and national needs, social harmony and stakeholders' empowerment and satisfaction"

1.2 Faculty of Applied Sciences

The FAS consists of five departments, namely Biological Sciences, Chemical Sciences, Computer Science, Mathematical Sciences and Physical Sciences and offers undergraduate programs in Biological Sciences and Physical Sciences. Three-year General Degree and four-year Honours Degrees in Applied Geology, Applied Biology, Applied Statistics, Botany, Chemistry, Computer Science, Mathematics and Physics are offered. In addition, an extended four-year Honours Degree in Applied Sciences can be offered.

Further to the above undergraduate programs, the faculty also offers postgraduate degree programs and postgraduate diploma program as well.

Our main objectives are to:

- *Be Innovative in Undergraduate Teaching and Learning,*
- *Strengthen Research and Graduate Programmes,*
- *Enhance the employability of graduates through developing English language, IT skills, soft skills and promoting ethnic cohesion,*
- *Be a centre of excellence in the region for community and resource development,*
- *Capitalize on Globalization of Education.*

These objectives are integrated with the outcomes of the SEUSL Corporate Plan. The faculty plans to introduce a number of new initiatives to achieve the above objectives. The proposed new initiatives include: comprehensive curriculum revisions in all subjects; creating opportunities for enhancement of professional skills of students; efforts to increase research activities; increasing graduate enrolment and strengthening relationships with industries, local and foreign universities.

Vision

"To be a world-renowned knowledge hub in sciences"

Mission

"To produce competitive, creative and skilled human resources through quality undergraduate and graduate science programmes, generate knowledge through research and impact development through outreach programmes in keeping with local and global timely needs"

1.3 Graduate Profile of the Faculty of Applied Sciences

1.3.1 Honours Degree programmes

- Competent/Proficient in a specialized subject with an advanced knowledge and understanding of the core aspects of the subject.
- Capability to critically analyse and innovatively solve problems.
- Apply relevant experimental methods and modern technologies in research.

- Be an effective oral and written communicator in the subject.
- Perform successfully as an individual and as a team member or a team leader in multi-cultural and multi-disciplinary settings.
- Demonstrate ability to apply academically gained knowledge, skills, and commitment in pursuing group work in a wider context.
- Use information technology (IT) for applications and to search, evaluate, utilize, share, and create content.
- Be a social and environment friendly professional, entrepreneur/ manager.
- Possess a strong intellectual integrity, ethical values, commitment, and self-evaluation in completing responsibilities.
- Be more attentive to the community, national and global needs and demands.
- Be aware of own culture and values and appreciate and tolerate other cultures.
- Be equipped to pursue higher studies, compete in national and global arena, and to engage in independent and life-long learning to achieve personal and career goals.

1.3.2 General Degree programme

- Competent/Proficient in knowledge and understanding of the core aspects of selected subjects.
- Capability in analysing and solving problems.
- Perform successfully as an individual and as a team member or a team leader in multi-cultural and multi-disciplinary settings.
- Demonstrate ability to apply academically gained knowledge, skills, and commitment in pursuing group work in a wider context.
- Skilled in oral and written communication.
- Use information technology (IT) for applications and to search, utilize, share, and create content.
- Be a social and environment friendly professional, entrepreneur/ manager.
- Possess intellectual integrity, ethical values, commitment, and self-evaluation in completing responsibilities.

- Be attentive to community, national and global needs and demands.
- Be aware of own culture, values and appreciate and tolerate other cultures.
- Be equipped to pursue higher studies, compete in national and global arena and to engage in independent and life-long learning to achieve personal and career goals.

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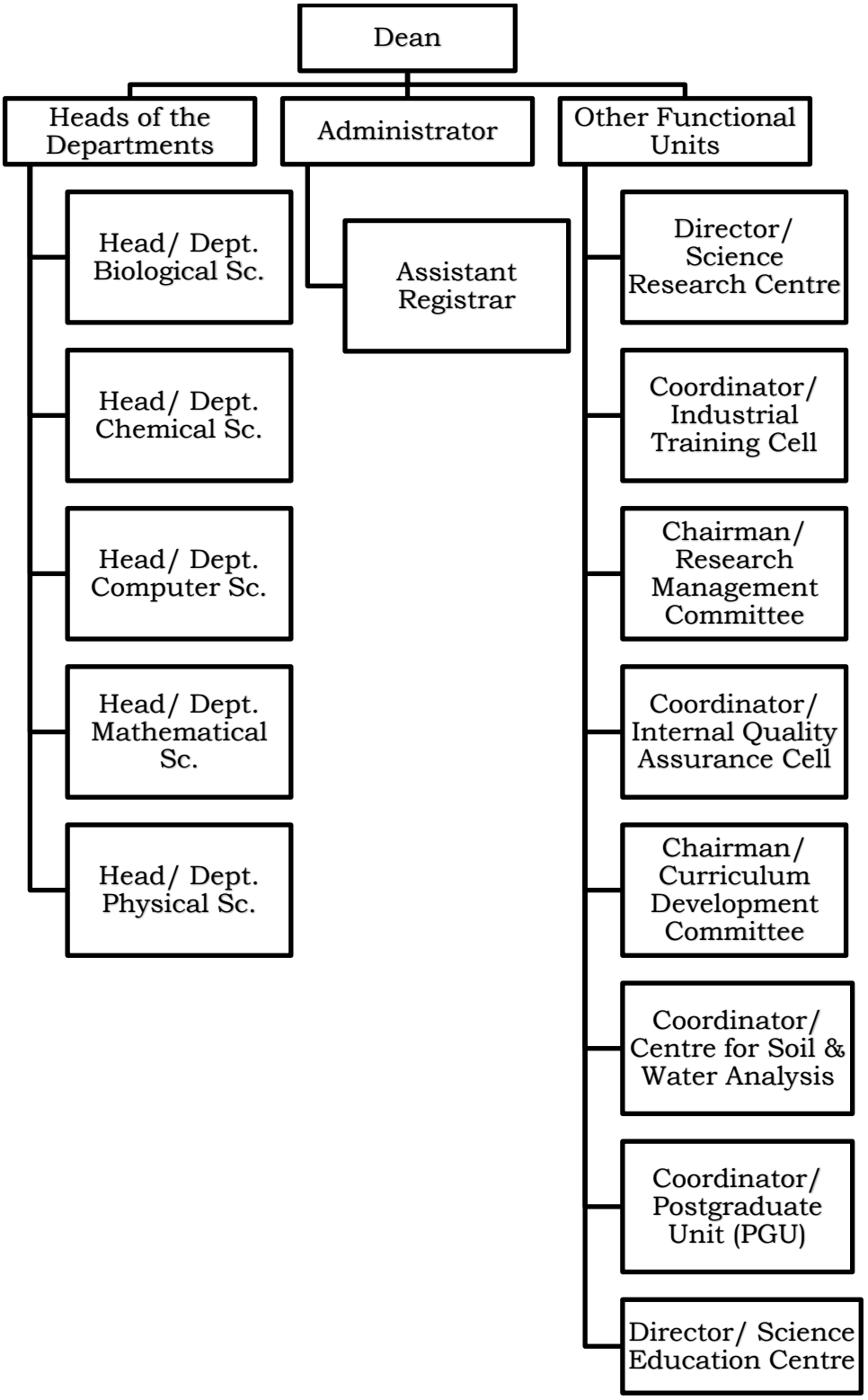
1.6 Organogram of the Faculty



2 UNDERGRADUATE STUDY PROGRAMMES

2.1 Introduction

The faculty offers General Degree, Honours Degree and extended Degree programmes. The academic programme is based on the semester system. Generally, a semester consists of 15 weeks of academic activities.

2.2 Medium of Instruction

The medium of instruction at FAS shall be **English.**

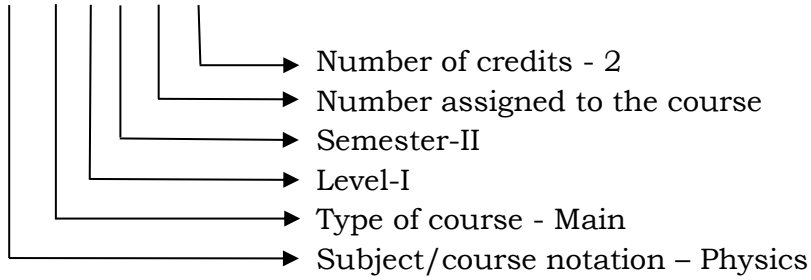
2.3 Course Unit System

The Degree programmes are conducted on a **Course Unit System** where each course is assigned credit values, a time-based quantitative measure. A **Credit** is equivalent to **15 hours of lecture component, 30 - 45 hours of practical component,** or **an appropriate proportion of both lecture and practical components.** The credit weight of a course unit may vary.

2.4 Course Notation

The course units are denoted by an alphanumeric code. The code consists of 05 numerals prefixed by 03 letters. The first 02 letters refer the subject area of the course unit and the 3rd letter indicates the type of course unit, whether it is a main course for the General Degree **(M),** a main course for the Honours Degree **(H),** an elective course **(E),** a compulsory course **(C)** or an auxiliary course **(A).** The first numeral denotes the level, the second numeral denotes the semester, the third and fourth numerals indicate the number assigned to the course unit by the department of study, and the fifth numeral indicates the credit value of the course unit referred to.

Example: PH M 1 2 21 2 – Physical Optics and Optical Instruments



Notations used for subjects are given below.

AS - Applied Statistics

BL - Biology

CH - Chemistry

CS - Computer Science

ES - Earth Science

HM - Higher Mathematics

MT - Mathematics

PH - Physics

2.5 Degree Programmes

The faculty offers the following undergraduate degree programmes:

a. Bachelor of Science (General) (3 Years)

b. Bachelor of Science Honours (4 Years)

i. Bachelor of Science Honours in Applied Biology

ii. Bachelor of Science Honours in Applied Geology

iii. Bachelor of Science Honours in Applied Statistics

iv. Bachelor of Science Honours in Botany

v. Bachelor of Science Honours in Chemistry

vi. Bachelor of Science Honours in Computer Science

vii. Bachelor of Science Honours in Mathematics

viii. Bachelor of Science Honours in Physics

c. Bachelor of Science Honours in Applied Sciences

2.6 Details of Courses Offered and Possible Course Combinations Students Could Follow

The faculty offers the core science subjects i.e., Biology, Physics, Chemistry, and Mathematics and Higher Mathematics, and the applied science subjects i.e., Computer Science, Applied Statistics, and Earth Science at all three levels. In addition, Auxiliary, Compulsory and Elective Courses are offered. The subjects and courses of different categories for the above-mentioned degree programmes and the conditions for the selection of courses for each level are given below.

2.6.1 Subjects/ Courses of Level-I

Table 1: Subjects and courses offered in Level-I

<table>
<tr><th>A</th><th>B</th><th>C</th><th>D</th></tr>
<tr><th>Subjects</th><th>Compulsory Courses</th><th>Elective Courses</th><th>Auxiliary Courses</th></tr>
<tr><td rowspan="2">AS (8C)
BL (8C)
CH (8C)
CS (8C)
ES (8C)
HM (8C)
MT (8C)
PH (8C)</td><td>BLC 11211 (1C)
MTC 11221 (1C)</td><td>CME 11211 (1C)
LTE 11221 (1C)
SME 11231 (1C)
SSE 11242 (2C)</td><td>ELA 11211 (1C)</td></tr>
<tr><td>BLC 12211 (1C)
MTC 12221 (1C)</td><td>ITE 12212 (2C)
PEE 12222 (2C)</td><td>ELA 12211 (1C)</td></tr>
</table>

Note: Figures within brackets indicate the credit values of the subject or course.

A student in **Level-I** should select courses to the value of **30 to 33 credits** (excluding auxiliary courses) that fulfil the following conditions:

- A student should follow 3 subjects from Column A.

  Note:

  i. Biological Science stream students cannot follow MT, and HM and Physical Science stream students cannot follow BL. Students cannot select HM without MT.

ii. Out of the three subjects, at least one should be a core science subject (Refer 2.6).

iii. Those who wish to pursue an Honours Degree in Mathematics should select both MT and HM from the 3 subjects chosen from Column A).

- A student in the Biological Science stream must follow MTC 11221 and MTC 12221 from Column B.
- A student in the Physical Science stream must follow BLC 11211 and BLC 12211 from Column B.
- A student can select any courses up to the value of **4 to 7 credits** from Column C.

  i. The CME 11211 course is only offered to students who do not take Mathematics (MT) as their primary subject.

  ii. The SSE 11242 course is only offered to students who do not take Applied Statistics (AS) as their primary subject.

  iii. The ITE 12212 course is only offered to students who do not follow Computer Science (CS) as their primary subject.
- All students must complete both courses in Column D (2 credits).

2.6.2 Subjects/ Courses of Level-II

Table 2: Subjects and courses offered in Level-II

A	E	F
Subjects	**Elective Courses**	**Auxiliary Courses**
BL (8C) MT (8C) CH (8C) PH (8C) HM (8C) AS (8C)	HRE 21212 (2C) ILE 21222 (2C) TPE 21231 (1C) WAE 21241 (1C) BCE 21252 (2C) CME 21261 (1C)	ELA 21211 (1C)
CS (8C) ES (8C)	MLE 22212 (2C) NIE 22221 (1C)	ELA 22211 (1C) SHA 22221 (1C)

	PAE 22232 (2C) PLE 22242 (2C) TOE 22251 (1C)	

Note: Figures within brackets indicate the credit values of the subject or course.

A student in **Level-II** should select courses to the value of **30 to 33 credits** (excluding auxiliary courses) to fulfil the following conditions:

- A student must continue the **3 subjects** followed in Level I from Column A.
- A student must follow courses to the value of **6 to 9 credits** from Column E.
    i. Courses WAE 21241 and NIE 22221 are only offered to students who do not take Computer Science (CS) as a main subject.
- A student must follow all courses in Column F (Minimum of 03 credits should be taken in one semester).

2.6.3 Subjects/ Courses of Level-III

Table 3: Subjects and courses offered in Level-III (General Degree)

A	G	H
Subjects	**Elective Courses**	**Auxiliary Courses**
BL (8C) MT (8C) CH (8C) PH (8C) HM (8C)	CCE 31211 (1C) EEE 31222 (2C) ELE 31231 (1C) EPE 31242 (2C) FME 31251 (1C) LME 31261 (1C) RME 31272 (2C)	CDA 31211 (1C)
AS (8C) CS (8C) ES (8C)	DSE 32212 (2C) EIE 32222 (2C) ELE 32231 (1C) FSE 32241 (1C) GEE 32252 (2C)	

	IIE 32262 (2C) MGE 32272 (2C) BEE 32281(1C) CPE 32292 (2C)	

Note: Figures within brackets indicate the credit values of the subject or course.

A student pursuing a Level-III General Degree should select courses to the value of **30 to 33 credits** (excluding auxiliary courses) to fulfil the following conditions:

A student must continue the **3 subjects** followed in Level II from Column A.

- A student must complete courses to the value of **6 to 9 credits** hours from Column G.
    i. DSE 32212 – Knowledge of electronics is a prerequisite to follow this course
    ii. ELE 32231 – To follow this course, ELE 31231 is a prerequisite.
    iii. MGE 32272 – This course is only offered to students who do not take Computer Science (CS) as a main subject.
- A student must follow the course in Column H.

Table 4: Subjects and courses offered in Level-III (Honours Degree)

P	Q	G	H
General Degree Courses for Honours Programmes	**Honours Degree Courses**	**Elective Courses**	**Auxiliary Course**
Level III general Degree courses from the subject of specialization	Special courses from the subject of specialization	CCE 31211 (1C) EEE 31222 (2C) ELE 31231 (1C) EPE 31242 (2C)	CDA 31211 (1C)

(8 credits for subjects other than Botany and Mathematics. 4 credits for Botany and/16 credits for Mathematics)	**(18 credits for subjects other than Botany and Mathematics/ 24 credits for Botany and 10 credits for Mathematics)**	FME 31251 (1C) LME 31261 (1C) RME 31272 (2C) DSE 32212 (2C) EIE 32222 (2C) ELE 32231 (1C) FSE 32241 (1C) GEE 32252 (2C) IIE 32262 (2C) MGE 32272 (2C) BEE 32281(1C) CPE 32292 (2C)	

A student in a **Level-III** Honours degree should select courses to the value of **30 to 33 credits** (excluding auxiliary courses) to fulfil the following conditions:

- A student should follow all general degree courses in the subject of specialization at level III (Column P), except Botany honours students. The Botany honours students should follow only the four courses of Semester I of Level III of the general degree.
- He/she must follow all the courses in the subject of specialization offered in Level III (Column Q).
- He/she also has to follow courses to the value of **4 to 7 credits** from Column G.
    i. DSE 32212 – Knowledge of electronics is a prerequisite to follow this course
    ii. ELE 32231 – To follow this course, ELE 31231 is a prerequisite.
    iii. Particular departments of study may insist on following certain courses relevant to the specialization.
- A student should follow the course, CDA (Career Development) in column H.
- A student specializing in mathematics should have followed MT and HM in Levels I and II.

2.6.4 Subjects/ Courses of Level-IV

Table 5: Courses offered in Level-IV (Honours degree)

Courses	Elective Courses Y
All courses in the subject of specialization (30 C).	ELE 41211 (1C) ELE 42211 (1C)

A student in **Level-IV** honours degree should select courses to the value of **30 to 32 credits** to fulfil the following conditions:

- He/she can follow courses to the value of **0 to 2 credits** from Column Y.
    i. ELE 41211 – requires the prerequisite of ELE 32231 to follow this course
    ii. ELE 42211 – requires the prerequisite of ELE 41211 to follow this course

Table 6: Courses offered in Level-IV (Applied Science Honours Degree)

Courses	Elective Courses Y
Relevant applied courses and industrial training prescribed by the faculty (30 C).	ELE 41211 (1C) ELE 42211 (1C)

A student in **Level-IV** Honours degree in Applied Sciences should follow all courses (30 credits) subject of specialization.

- courses to the value of **0 to 2 credits** from Column Y.

    i. ELE 41211 – To follow this course, ELE 32231 is a prerequisite.
    ii. ELE 42211 – To follow this course, ELE 41211 is a prerequisite.

2.7 Course Requirements for Degree Programmes

2.7.1 Bachelor of Science (General Degree)

In order to earn a Bachelor of Science (General) degree, a student must complete a **minimum of 90 credits, excluding auxiliary courses,** in three

academic levels as summarized in Table 2.7.

Table 2.7: Summary of credit requirements for the general degree programme

Level	Number of credits
Level I	30 – 33
Level II	30 – 33
Level III	30 – 33
Total	**90 – 99**

Note: Elective courses can be used only to satisfy the minimum credit value requirement of 90 credits.

2.7.2 Bachelor of Science Honours Degree

Students are admitted to the Bachelor of Science Honours Degree Programmes at the beginning of Level III. This allows students to pursue an in-depth study of the selected subject of specialization.

In order to earn a Bachelor of Science Honours Degree, a student must complete a **minimum of 120 credits, excluding auxiliary courses,** in four academic levels as summarized in Table 2.8.

Table 2.8: Summary of credit requirements for Honours Degree programmes

Level	Number of credits
Level I	30 – 33
Level II	30 – 33
Level III	30 – 33
Level IV	30 – 32
Total	**120 – 131**

Note: Elective courses can be used only to satisfy the minimum credit value requirement of 120 credits.

Some of the courses offered by the other departments may be considered as main courses and thus would be considered to make up the minimum number of credit requirement (72 credits) of subject of specialization. Students should consult the respective department of subject of specialization for that particular degree programme before selecting such elective courses.

2.7.2.1 Eligibility Requirements to Follow the Honours Degree Programmes

Students will be selected for the Honours Degree programmes based on their academic performance. Students who have registered and followed the required courses in Levels I and II, and met the following minimum requirements, may apply to follow a Honours degree programme.

The minimum requirements are; at the end of the Semester II of Level II, he/she should have obtained;

1. no 'E' grade in any course of the subject he/she has applied to specialize,
2. a minimum overall GPA **2.50** for all the course he/she followed, and
3. a minimum GPA of **2.70** for the course he/she has applied to specialize.

Note 1: The following conditions apply in the process of selection of students for Honours programmes, for **courses exempted** in Levels I and II under **medical reasons**. The conditions are;

a.
   i. maximum credit value for the courses that can be exempted from any subject of specialization is **three** except in Mathematics, where it is **six**.

   ii. the maximum credit value for the courses that can be exempted from subjects other than the subject of specialization is **three**.

   iii. The maximum number of total credit values for all the courses that can be exempted is **six.**

iv. However, the **credit values** of the exempted courses **will not be exempted** from the GPA calculation.

b. Credit value and the GPA of the course TPE 21041 will not be considered for the overall GPA calculation.

Note 2: Students who are eligible and wish to follow a Honours Degree Programme should submit an application using the prescribed form on or before the deadline given.

Note 3: The maximum number of students admitted to a particular Honours degree programme will be varied depending on the resources available in the Department. In case, if there is a greater number of eligible applicants, only the most eligible candidates will be selected based on the merit order of their GPA of the subject of specialization.

Note 4: The Faculty Board may decide to consider only the results up to Semester I of Level II, in case of any unavoidable delay in releasing the results of the Semester II of Level II.

2.7.3 Bachelor of Applied Sciences Honours Degree

Admission of students for this degree programme shall be made at the end of Level III according to the eligibility criteria.

In order to earn a Bachelor of Applied Sciences Honours Degree, a student should complete a minimum of 120 credits in all four academic levels as summarized in Table 2.9.

Table 2.9: Summary of credit requirements for Applied Sciences Honours degree programme

Level	Number of credits
Level I	30 – 33
Level II	30 – 33
Level III	30 – 33
Level IV	30 – 32
Total	**120 – 131**

Note: Elective courses can be used only to satisfy the minimum credit value requirement of 120 credits.

2.7.3.1 Eligibility Requirements to Follow the Applied Sciences Honours Degree Programme

The minimum requirements to follow the Applied Sciences Honours degree programme are:

a. The student should have completed all the requirements to be awarded the general degree in three academic levels as stated in Section 2.7.1, and
b. He/she should have obtained a GPA of **not less than 2.7.**

Students selected for the Applied Science Honours Degree programme should be prepared to undertake industrial training recommended by the Faculty Board in any part of the island.

2.8 Maximum Period to Complete a Degree Programme

The maximum period allowed to complete a three-year General Degree is **six academic years,** and a four-year Honours Degree is **seven academic years** from the date of first registration, excluding periods of absence caused by medical or other valid reasons acceptable to the Faculty Board.

2.9 Sickness During Academic Sessions

If a student falls sick during the academic session, he/she or his/her guardian should inform the **Faculty Registrar** within a period of **48 hours in writing**. This information should be **confirmed within** a period of **two weeks** with a

valid medical supporting document.

However, if a student is unable to attend **continuously for 8 academic weeks** in a semester, then the student is deemed to have withdrawn from the particular academic year and needs to continue his/her studies from where he/she stopped in the next academic year.

2.10 Main Courses of General Degree

Biology		
Course Code	**Course Title**	**Credit Value**
BLM 11211	Principles of Biology	1
BLM 11221	Biological Chemistry	1
BLM 11231	Continuity of Life	1
BLM 11241	Practical Biology I *	1
BLM 12211	Fundamentals of Ecology	1
BLM 12221	Fundamentals of Microbiology	1
BLM 12231	Forms and functions of Animals	1
BLM 12241	Practical Biology II *	1
BLM 21211	Structure and functions of plants	1
BLM 21221	Ecosystems of Sri Lanka: Ecology, Conservation and Management	1
BLM 21231	Field Ecology	1
BLM 21241	Practical Biology III *	1
BLM 22212	Molecular Genetics and Biotechnology	2
BLM 22221	Animal Behaviour	1
BLM 22231	Practical Biology IV *	1
BLM 31212	Horticulture	2
BLM 31221	Applied Entomology	1
BLM 31231	Practical Biology V *	1
BLM 32211	Aquaculture	1
BLM 32221	Applied Parasitology	1
BLM 32231	Animal Husbandry	1
BLM 32241	Practical VI *	1
Total Credits		**24**

Note: (*) are Practical Courses

Mathematics		
Course Code	**Course Title**	**Credit Value**
MTM 11212	Fundamentals of Mathematics	2
MTM 11222	Vector Algebra and Geometry	2
MTM 12211	Number Theory	1
MTM 12221	Group Theory I	1
MTM 12231	Elementary Differential Equations	1
MTM 12241	Vector Spaces	1
MTM 21212	Numerical Analysis I	2
MTM 21222	Ordinary Differential Equations	2
MTM 22212	Real Analysis	2
MTM 22222	Integral Transforms	2
MTM 31212	Linear Programming	2
MTM 31222	Mathematical Modeling	2
MTM 32212	Complex Analysis	2
MTM 32222	Linear Algebra	2
Total Credits		**24**

Applied Statistics		
Course Code	**Course Title**	**Credit Value**
ASM 11212	Introduction to Statistics	2
ASM 11221	Elementary Probability Theory	1
ASM 11231	Data Analysis using SPSS *	1
ASM 12212	Probability Distributions	2
ASM 12221	Bivariate Probability Theory	1
ASM 12231	Data Analysis using MINITAB *	1
ASM 21212	Theory of Statistics	2
ASM 21221	Categorical Data Analysis	1
ASM 21231	Data Analysis using SPSS and MINITAB *	1
ASM 22212	Applied Regression Analysis	2
ASM 22221	Non-Parametric Methods	1
ASM 22231	Statistical Computing using SPSS and MINITAB *	1
ASM 31212	Experimental Design and Analysis	2
ASM 31221	Sampling Techniques	1
ASM 31231	Statistical Computing using SAS *	1
ASM 32212	Statistical Quality Control	2
ASM 32221	Time Series Analysis	1
ASM 32231	Statistical Computing using Eviews *	1
Total Credits		**24**

Note: (*) are Practical Courses

Chemistry		
Course Code	**Course Title**	**Credit Value**
CHM 11212	Essentials of Inorganic Chemistry	2
CHM 11221	Chemical Kinetics	1
CHM 11231	Practical Chemistry I *	1
CHM 12211	Chemical Thermodynamics	1
CHM 12222	Essentials of Organic Chemistry	2
CHM 12231	Practical Chemistry II *	1
CHM 21211	Electrochemistry	1
CHM 21221	Organic Spectroscopy	1
CHM 21231	Analytical Chemistry	1
CHM 21241	Practical Chemistry III *	1
CHM 22211	Co-ordination Chemistry	1
CHM 22221	Organic Synthesis and Reaction Mechanisms	1
CHM 22231	Quantum Chemistry and Surface Chemistry	1
CHM 22241	Practical Chemistry IV *	1
CHM 31212	Solid State Chemistry and Organometallic Chemistry and Practical Chemistry V *	2
CHM 31221	Chemistry of Biomolecules	1
CHM 31231	Industrial Chemistry	1
CHM 32211	Separational Techniques in Chemistry	1
CHM 32221	Biosynthesis of Natural Products	1
CHM 32231	Environmental Chemistry	1
CHM 32241	Practical Chemistry VI *	1
Total Credits		**24**

Note: (*) are Practical Courses

Computer Science		
Course Code	**Course Title**	**Credit Value**
CSM 11211	Computer Systems and Digital Organization	1
CSM 11222	Programming and Programming Languages	2
CSM 11231	Programming Practical *	1
CSM 12211	Object-Oriented System Analysis and Design	1
CSM 12222	Object Oriented Programming	2
CSM 12231	Object Oriented Programming Practical *	1
CSM 21212	Data structures, Algorithms and Complexity Analysis	2
CSM 21221	Operating Systems	1
CSM 21231	Advanced Algorithms Practical *	1
CSM 22211	Server-side Web Programming and Web Services	1
CSM 22222	Data Communication, Mobile Computing and Internet of Things	2
CSM 22231	Web Programming, Networking and IOT Practical *	1
CSM 31212	Software Engineering	2
CSM 31221	Database Management System	1
CSM 31231	DBMS Practical *	1
CSM 31212	Machine Learning and Data Science	2
CSM 32221	Digital Image Processing	1
CSM 32231	Image Processing Practical *	1
Total Credits		**24**

Note: (*) are Practical Courses

Earth Science		
Course Code	**Course Title**	**Credit Value**
ESM 11212	Dynamic Earth	2
ESM 11221	Earth Processes	1
ESM 11231	Practical in Fundamental Geology *	1
ESM 12212	Earth Materials (Rocks, minerals, crystals)	2
ESM 12221	Optical Mineralogy	1
ESM 12231	Practicals in Crystallography and Mineralogy *	1
ESM 21213	Petrology	3
ESM 21221	practical in Petrology *	1
ESM 22211	Geochemistry	1
ESM 22222	Structural Geology	2
ESM 22231	Tectonics and Field Geology	1
ESM 31212	Engineering Geology and Mechanics of Earth Materials	2
ESM 31221	Exploration Geophysics	1
ESM 31231	Engineering Testing in Earth Materials	1
ESM 32212	Geology of Sri Lanka	2
ESM 32221	Hydrology and Hydrogeology	1
ESM 32231	practical in hydrology and hydrogeology *	1
Total Credits		**24**

Note: (*) are Practical Courses

Higher Mathematics		
Course Code	**Course Title**	**Credit Value**
HMM 11212	Graph Theory	2
HMM 11222	Tensor Calculus	2
HMM 12212	Vector Calculus	2
HMM 12222	Differential Geometry	2
HMM 21212	Classical Mechanics	2
HMM 21222	Partial Differential Equations	2
HMM 22211	Group Theory II	1
HMM 22221	Mathematical Software (Mat Lab) *	1
HMM 22231	Metric Space	1
HMM 22241	Riemann Integrals and Infinite Series	1
HMM 31211	Topology	1
HMM 31221	Function of Several Variables	1
HMM 31232	Numerical Analysis II	2
HMM 32212	Fluid Dynamics	2
HMM 32222	Operational Research	2
Total Credits		**24**

Note: (*) are Practical Courses

Physics		
Course Code	**Course Title**	**Credit Value**
PHM 11212	General Physics	2
PHM 11221	Physics in Biology and Medicine	1
PHM 11231	General Physics Laboratory I*	1
PHM 12212	Physical Optics and Optical Instruments	2
PHM 12221	Nanoscience and Nanotechnology	1
PHM 12231	Optical Physics Laboratory*	1
PHM 21212	Thermal and Statistical Physics	2
PHM 21221	Energy and Environmental Physics	1
PHM 21231	General Physics Laboratory II*	1
PHM 22211	Solid State Physics	1
PHM 22222	Electromagnetism	2
PHM 22231	General Physics Laboratory III *	1
PHM 31212	Electronics	2
PHM 31221	Quantum Mechanics	1
PHM 31231	Electrical and Electronic Laboratory*	1
PHM 32211	Special Theory of Relativity	1
PHM 32221	Atomic and Nuclear Physics	1
PHM 32231	Astrophysics I	1
PHM 32241	General Physics Laboratory IV*	1
Total Credits		**24**

Note: (*) are Practical Courses

2.11 Compulsory, Elective and Auxiliary Courses

2.11.1 Auxiliary Courses

Level I		
Course Code	**Course Title**	**Credit Value**
ELA 11211	English Level I	1
ELA 12211	English Level II	1
Level II		
Course Code	**Course Title**	**Credit Value**
ELA 21211	English Level III	1
ELA 22211	English Level IV	1
SHA 22221	Social Harmony	1
Level III		
Course Code	**Course Title**	**Credit Value**
CDA 31211	Career Development	1

2.11.2 Compulsory Courses

Level I		
Course Code	**Course Title**	**Credit Value**
BLC 11211	Biology for Physical Sciences I	1
MTC 11221	Mathematics for Biological Sciences I	1
BLC 12211	Biology for Physical Sciences II	1
MTC 12221	Mathematics for Biological Sciences II	1

2.11.3 Electives Courses

Level I		
Course Code	**Course Title**	**Credit Value**
CME 11211	Computational Mathematics - I	1
LTE 11221	Leadership and Team Work	1
SME 11231	Stress Management	1
SSE 11242	Statistics for Science	2
ITE 12212	Information Technology **	2
PEE 12222	Principles of Economics	2

Level II		
Course Code	**Course Title**	**Credit Value**
HRE 21212	Human Resource Management	2
ILE 21222	Information Literacy	2
TPE 21231	Thousand Point Scheme	1
WAE 21241	Web Application Development *	1
BCE 21252	Basic Climatology	2
CME 21261	Computational Mathematics - II	1
MLE 22212	Medical Laboratory Techniques	2
NIE 22221	Networking and Internet of Things **	1
PAE 22232	Project Analysis	2
PLE 22242	Principle of Land Surveying	2
TOE 22251	Introduction to Toxicology	1
Level III		
Course Code	**Course Title**	**Credit Value**
CCE 31211	Practical Computational Chemistry *	1
EEE 31222	Environmental Economics	2
ELE 31231	English Level V - Business Communication I	1
EPE 31242	Environmental Policy and Law	2
FME 31251	Introduction to Financial Mathematics	1
LME 31261	Laboratory and Quality Management	1
RME 31272	Research Methodology	2
DSE 32212	Data Acquisition and Signal Processing	2
EIE 32222	Environmental Impact Assessment	2
ELE 32231	English Level VI - Business Communication II	1
FSE 32241	Food Science	1
GEE 32252	Geotechnical Engineering	2
IIE 32262	Intensive Industrial Training	2
MGE 32272	Multimedia and Graphic Design **	2
BEE 32281	Bio Ethics	1
CPE 32292	Computational Physics	2
	Level IV	
Course Code	**Course Title**	**Credit Value**
ELE 41211	English Level VII - Professionals	1
ELE 42211	English Level VIII - Graduate Studies	1

Note:

i. Courses from the above table will be offered in each semester according to the availability of resources.

ii. (*) is a practical course.

iii. (**) is a theory with practical course.

2.12 MAIN COURSES OF HONOURS DEGREES

Honours Degree in Applied Statistics				
Level	**Semester**	**Course Code**	**Course Title**	**Credit Value**
III	I	ASH 31213	Advanced Experimental Designs	3
		ASH 31223	Advanced Data Analysis using R	3
		ASH 31233	Mathematical Modelling for Statistics*	3
		ASH 31243	Mathematical Analysis**	3
	II	ASH 32213	Advanced Regression Analysis	3
		ASH 32223	Advanced Quality Control Statistics	3
		ASH 32233	Operational Research	3
IV	I	ASH 41212	Stochastic Process	2
		ASH 41223	Statistical Simulation Techniques	3
		ASH 41232	Data Mining	2
		ASH 41242	Seminar, Exposure Visits and Report Writing	2
		ASH 41252	Industrial Training	2
		ASH 41266	Research Project - Applied Statistics	6
	II	ASH 42212	Survival Analysis	2
		ASH 42222	Econometrics	2
		ASH 42233	Binary and Categorical Data Analysis	3
		ASH 42243	Advanced Time Series Analysis	3
		ASH 42253	Multivariate Data Analysis	3

* Offered only for Physical Science students

** Offered only for Biological Science students

Honours Degree in Applied Biology				
Level	**Semester**	**Course Code**	**Course Title**	**Credit Value**
III	I	BLH 31212	Apiculture	2
		BLH 31223	Economic Marine Biology	3
		BLH 31232	Natural Resource Management	2
		BLH 31241	Animal Breeding	1
		BTH 31252	Aquatic Ecology	2
	II	BTH 32232	Analytical Techniques	2
		BLH 32223	Marine Bio-resources and Management	3
		BTH 32213	Plant Pathology	3
		BTH 32242	Post-Harvest Technology of Fruits, Vegetables and Grains	2
		BTH 32272	Environmental Microbiology	2
IV	I	BLH 41211	Animal Husbandry	1
		BLH 41221	Seminar – Applied Biology	1
		BLH 41232	Industrial Training – Applied Biology	2
		BLH 41242	Advanced parasitology and vector biology	2
		BTH 41212	Plant Tissue Culture	2
		BTH 41222	Bioinformatics	2
		BTH 41232	Enzymology	2
		BTH 41252	Science Research Methodology	2
		BTH 41262	Experimental Designs and Analysis	2
	II	BTH 42212	Plant Breeding	2
		BTH 42222	Industrial and Food Microbiology	2
		BTH 42232	Restoration Ecology	2
		BTH 42242	Biodiversity Conservation and Management	2
		BLH 42216	Research Project - Applied Biology	6

Honours Degree in Botany				
Level	**Semester**	**Course Code**	**Course Title**	**Credit Value**
III	I	BTH 31212	Plant Morphology and Anatomy	2
		BTH 31222	Algal Diversity	2
		BTH 31232	Embryophyte Diversity	2
		BTH 31242	Fungal Diversity and Biology	2
		BTH 31252	Aquatic Ecology	2
	II	BTH 32213	Plant Pathology	3
		BTH 32222	Advanced Plant Physiology	2
		BTH 32232	Analytical Techniques	2
		BTH 32242	Post-Harvest Technology of Fruits, Vegetables and Grains	2
		BTH 32252	Plant Systematics	2
		BTH 31262	Evolutionary Biology	2
		BTH 32272	Environmental Microbiology	2
IV	I	BTH 41212	Plant Tissue Culture	2
		BTH 41222	Bioinformatics	2
		BTH 41232	Enzymology	2
		BTH 41242	Economic Botany	2
		BTH 41252	Science Research Methodology	2
		BTH 41262	Experimental Designs and Analysis	2
		BTH 41271	Seminar Presentation– Botany	1
		BTH 41282	Integrated Pest Management	2
		BTH 41292	Industrial Training – Botany	2
	II	BTH 42212	Plant Breeding	2
		BTH 42222	Industrial and Food Microbiology	2
		BTH 42232	Restoration Ecology	2
		BTH 42242	Biodiversity Conservation and Management	2
		BTH 42256	Research Project - Botany	6

Honours Degree in Chemistry				
Level	**Semester**	**Course code**	**Course Title**	**Credit value**
III	I	CHH 31211	Mineralogy and Metallurgy	1
		CHH 31222	Advanced Organic Chemistry I	2
		CHH 31232	Advanced Chemical Thermodynamics	2
		CHH 31242	Advanced Practical Organic Chemistry	2
		CHH 31252	Advanced Practical Inorganic Chemistry	2
	II	CHH 32211	Advanced Heterocyclic Chemistry	1
		CHH 32222	Applications of Group Theory and Diffraction Methods	2
		CHH 32231	Advanced Chemical Kinetics	1
		CHH 32242	Advanced Environmental Chemistry and Chemical Ecology	2
		CHH 32251	Conformational analysis	1
		CHH 32262	Advanced Practical Physical Chemistry	2
IV	I	CHH 41211	Seminar and Essay writing	1
		CHH 41221	Organo-transition Metal Chemistry	1
		CHH 41232	Pericyclic Reactions and Organic Photochemistry	2
		CHH 41242	Advanced Organic Chemistry II	2
		CHH 41252	Applied Natural Product Chemistry	2
		CHH 41262	Advanced Quantum Chemistry	2
		CHH 41272	Advanced Coordination Chemistry and Magneto Chemistry	2
		CHH 41286	Research Project - Chemistry	6
	II	CHH 42212	Molecular Dynamics & Molecular modelling	2
		CHH 42222	Advanced Techniques in Analytical and Spectroscopic Methods	2
		CHH 42232	Advanced Topics in Physical Chemistry	2

		CHH 42242	Biochemistry and Molecular Biology	2
		CHH 42251	Bioinorganic Chemistry, Nuclear and Radio- Chemistry	1
		CHH 42262	Chemical Synthesis of Secondary Metabolites and Therapeutic Agents	2
		CHH 42271	Application of Biotechnology	1

Honours Degree in Computer Science				
Level	**Semester**	**Course code**	**Course Title**	**Credit value**
III	I	CSH 31213	Mathematics for Computing and Mathematical Modelling	3
		CSH 31221	Software Project Analysis and Management	1
		CSH 31232	Operating Systems Theory and Shell Programming	2
		CSH 31242	Compiler Design and Theory of Computation	2
		CSH 31252	Group Software Project	2
	II	CSH 32212	Formal Methods	2
		CSH 32221	Advanced Computer Architecture	2
		CSH 32233	Natural Language Processing	3
		CSH 32242	Distributed and Cloud Computing	2
		CSH 32251	Industrial Exposure Visits	Non-GPA
IV	I	CSH 41211	Research Seminar and Report Writing	1
		CSH 41223	Artificial Intelligence and Logic Programming	3
		CSH 41233	Advanced Database Systems and Data Analytics	3
		CSH 41242	High-Performance Computing	2
		CSH 41253	Information Theory, Coding and Cryptography	3
		CSH 41262	Computer Vision	2
		CSH 41276	Research Project – Computer Science	6
	II	CSH 42212	Industrial Training	2
		CSH 42222	Computer Graphics and Graphics Programming	2
		CSH 42233	New Paradigms in Computing	3
		CSH 42242	Scientific Computing	2

Honours Degree in Mathematics				
Level	**Semester**	**Course code**	**Course Title**	**Credit value**
III	I	MTH 31213	Mathematical Methods	3
		MTH 31222	Numerical Linear Algebra	2
	II	MTH 32212	Multivariate Calculus	2
		MTH 32223	Group Theory	3
IV	I	MTH 41213	Further Mathematical Modeling	3
		MTH 41223	Numerical Solutions of Ordinary Differential Equations	3
		MTH 41233	Further Topology	3
		MTH 41246	Research Project	6
	II	MTH 42213	Measure Theory	3
		MTH 42223	Functional Analysis	3
		MTH 42233	Further Complex Analysis	3
		MTH 42243	Financial Mathematics	3
		MTH 42253	Optimization	3

Honours Degree in Physics				
Level	**Semester**	**Course Code**	**Course Title**	**Credit Value**
3	I	PHH 31212	Mathematical Methods in Physics	2
		PHH 31223	Advanced Solid State Physics	3
		PHH 31232	Advanced Classical Mechanics	2
		PHH 31242	Advanced Physics Laboratory I	2
	II	PHH 32213	Advanced Optics	3
		PHH 32222	Advanced Quantum Mechanics I	2
		PHH 32232	Advanced Electronics I	2
		PHH 32241	Ceramics	1
		PHH 32252	Advanced Physics Laboratory II	2
4	I	PHH 41212	Advanced Quantum Mechanics II	2
		PHH 41222	Advanced Electronics II	2
		PHH 41232	Advanced Nuclear Physics	2
		PHH 41243	Electromagnetic Theory and Waves	3
		PHH 41252	Advanced Statistical Physics	2
		PHH 41261	Field Visit and Presentation	1
		PHH 41271	Astrophysics II	1
		PHH 41282	Advanced Physics Laboratory III	2
	II	PHH 42212	Polymer Physics	2
		PHH 42222	Advanced Nanoscience and Nanotechnology	2
		PHH 42232	Superconductivity and Application	2
		PHH 42242	Particle Physics	2
		PHH 42256	Research Project - Physics	6

Honours Degree in Applied Geology				
Level	**Semester**	**Course Code**	**Course Title**	**Credit Value**
3	I	ESH 31212	Petrology for Applied geology	2
		ESH 31221	Practical in applications of Petrology	1
		ESH 31232	Mineral resources and processing	2
		ESH 31241	Practical in Mineral Processing	1
		ESH 31252	Environmental geology	2
		ESH 31261	Geo-hazards Management	1
	II	ESH 32211	Advanced Field Geology	1
		ESH 32221	GIS and Remote sensing	1
		ESH 32231	Practical in GIS and RS	1
		ESH 32242	Coastal Geology	2
		ESH 32252	Geological Health Hazards	2
		ESH 32262	Industrial Training	2
4	I	ESH 41211	Seminar on Current Earth Science Interest	1
		ESH 41222	Analytical Techniques and Geostatistics	2
		ESH 41232	Advanced Geochemistry	2
		ESH 41242	Marine resources and protection	2
		ESH 41252	Applied Hydrogeology	2
		ESH 41266	Research Project	6
	II	ESH 42212	Field assignment on individual site investigations	2
		ESH 42223	Oceanography	3
		ESH 42232	Waste management and treatments	2
		ESH 42242	Contaminated land and remediation	2

		ESH 42252	Water Resources and Watershed Management	2
		ESH 42262	Mineral water interactions	2
		ESH 42272	Geotourism	2

2.13 Special Course Units for Applied Sciences Honours Degree

Level	Semester	Course Code	Course Title	Credit value
IV	I	APS 41013	Water Quality Management	3
		EIE 32222	Environmental Impact Assessment	2
		APS 41033	Toxicology	3
		APS 41043	Pharmacology	3
		APS 41053	Systems and Network Administration	3
	II	BTH 41222	Bioinformatics	2
		APS 42073	Geographical Information Systems	3
		APS 42081	Industry and Environment	1
		APS 42093	Industrial Quality Control	3
		APS 42106	Industrial Training	6

3 GENERAL GUIDELINES FOR INDEPENDENT RESEARCH PROJECT AND GROUP ACTIVITES

3.1 Independent Research Project

These are the general guidelines to the students who follow the independent research project as a partial fulfilment of their Honours Degree programme. It is highly expected to adhere to the given guidelines completely and strictly.

a. Since this course unit has a credit weight of six, it is expected that each student should spend at least 600 notional learning hours, including preparation of presentation for oral examination and of the dissertation.
b. At the very beginning of the 1st semester of their fourth year, each student should identify a research problem with his/her interest, closely related with the specialization of the subject/field and should select an appropriate supervisor/s internally or externally.
c. Each student should submit the details of the research project and of the selected supervisor/s to the department head before the end of the third week of the 1st semester of their fourth year.
d. If the research project is planned to conduct externally with external supervisor/s, one internal supervisor should be chosen to monitor the progress of the work.
e. During the research work, each student should maintain a "diary or note book" describing the progress of the work, set of important measurements /data / information, the findings, etc.
f. At the end of the project, each student should submit a draft of the dissertation to the respective Dept. before the stipulated deadline for the evaluation by a 2nd examiner.
g. The student should present a research work for half an hour duration (oral examination) for the evaluation of the work on the stipulated date by the Dept.
h. After the oral examination, the updated final version of the dissertation, incorporating all corrections, moderations and suggestions set by examiners, should be prepared according to the standard format.

i. Five copies of the dissertation (at least two hard bound) having the signatures of the student and supervisor/s should be submitted to the Dept. before the deadline. The front page of the hard bound should be in Brown.
j. The guidelines stipulated above are subjected to change with respect to the Department concerned upon the approval of the Faculty Board.
k. Sample template of that is available in the University Website (www.seu.ac.lk/fas).

3.2 Group Activities

It is expected that students should adhere to the following guidelines during group activities. It will pave the way towards the successful completion of the objective of the course.

a. Be honest but respectful to others when expressing your opinion and ideas: Avoid aggressive statements.
b. Respect each other's ideas and opinions: Let all the members be heard, Minimize the interruptions when other group members expressing their ideas.
c. Share the responsibilities and group work equally: All the group members should undertake an equal amount of work, tasks, and responsibilities.
d. The common goal/s of the group activity should be identified and agreed upon.
e. Be willing to compromise: Be flexible to discuss different opinions. Always obey the majorities' idea, in the case of a disagreement.
f. Communicate clearly and effectively: Convey your ideas fully and properly regardless of their scope, Listen carefully.
g. Manage time efficiently and effectively: Attend and arrive on time to all group meetings; Be flexible about meeting times.

4 DETAILS OF COURSE CONTENTS

Details of all courses offered by the faculty including learning outcomes and important references are available in the University Website (www.seu.ac.lk/fas).

5 EXAMINATION PROCEDURES

5.1 Period of examinations

The end-semester examination of a course unit shall be held at the end of the semester in which the course unit is completed. Continuous assessments are held throughout the course during the semester.

5.2 Requirements to sit examinations

5.2.1 Registration

A person who has been registered in the university as an internal student for a particular degree can sit for relevant examinations. Students who fail to complete their intended degree at the end of the specified period should renew their registration to be eligible to re-sit failed credits at the next available opportunity.

5.2.2 Application

A student to sit for an examination should **submit an application** in the **prescribed form** within the **stipulated period**. The eligible students will be issued with an admission card for the particular examination.

5.2.3 Attendance requirement

Eighty percent (80%) attendance during teaching sessions is **compulsory** for **both theory and practical courses**. A student who has less than 80% attendance for a particular course unit may not be allowed to sit the end-semester examination of that course unit. Such candidate will have to re-sit that particular examination at the next available opportunity.

However, if a student has less than 80% attendance in practical course, he/she has to complete missed practical before the examination.

5.3 Re-sit candidates

5.3.1 Missing the first attempt

A student who does not appear for an end-semester examination of a particular course at the first opportunity available without a valid medical certificate

and/or the approval of the Faculty Board and the Senate, shall forfeit the chance of sitting that examination and re-sit at the next available opportunity.

5.3.2 Sickness during Examination

If a student falls sick during the examinations, he/she or his/her guardian should inform the faculty (Senior Assistant Registrar/ Assistant Registrar) within a **period of 48 hours in writing**. This information **should be confirmed** with a valid medical supporting document within a period of **two weeks** from the last date of the particular semester examination. On approval of this request by the Faculty Board and the Senate, the student should sit the course unit at the next immediately available examination as a proper candidate.

5.3.3 Maximum number of repeat attempts

A candidate cannot repeat a course unit more than **three times** excluding the proper attempt. A grace chance may be permitted with the approval of the Faculty Board and the Senate.

5.3.4 Medical Certificate

This is a document that conforms to the format of **Medical Certificate issued by the government hospital**. Such a Medical Certificate should be obtained from any one of the following medical practitioners; A University Medical Officer (UMO), District Medical Officer (DMO), Consultant Specialist in a particular field or an Ayurvedic Physician Registered in the Ayurvedic Medical Council. Under exceptional circumstances, a medical certificate issued by a private hospital or a SLMC registered private practitioner endorsed by the University medical officer may be accepted.

5.4 Re-sitting Examinations

5.4.1 Repeat Examinations

Any examination conducted by the faculty will not be repeated. Therefore, a student who has obtained **E grade** for a particular course unit or who could not appear for the end semester examination of a particular course unit has to

re-sit at the next available opportunity of the particular course unit.

5.4.2 Improving Lower Grades

A student who has obtained **C-, D+ or D grade** for a particular course unit is advised to repeat it. However, if the grade obtained in the second sitting is less than that of the first sitting, he/ she shall be entitled to his/ her former grade. The maximum grade for a credit repeated shall be C or grade point value 2.0. A candidate, even with E grades may proceed to the following year of study. However, he/ she should repeat those course units at a subsequent examination.

5.4.3 Special Needs Students

Students who come under the special in-take from UGC may be given a wide range of evaluation methods (Open book, Additional hours, any other different mode of exam etc.) approved by the Senate to complete their degree programme.

5.5 Re-scrutinizing the marks and grades

The prescribed guidelines of the UGC Circular No. 978, shall be adopted in the provision for requesting re-scrutinization of the mark and grades through the Results Verification board.

As, the cost of re-scrutinization process must be borne by the student, a non-refundable fee, calculated on the basis of actual cost of re-scrutiny shall be levied on the student.

5.5.1 Procedures

- SAR/AR of the faculty will notify the students of the relevant examination the period during which the requests for verification of the results are entertained by displaying a notice in the notice board of Office of Dean.
- Submission of application shall be limited only during the **02 weeks immediately** following the **release of results** of an examination at the office of SAR/AR of the faculty.
- A payment of Rs. 500/= (subject to revision) per course/subject of an end

semester examination/ year end examination/ final examination would be charged for verification of the marks and grades.

- Issue of application will be done only upon the submission of receipt for the prescribed examination.

5.5.2 After the meeting of the Results Verification Board

a) If the marks and the grades are not changed; the candidate shall be informed by the Dean through the SAR/AR of the faculty.

b) If the marks and the grades are changed; the outcome of the verification shall be notified to the candidate(s) only after the ratification of results by the Special Results Board of the faculty in the case of end semester/Year end examination.

c) Whereas, in the case of final examination; final results should only be released only after obtaining the approval of the Senate and Council of the SEUSL.

The results issued to the student(s) following the re-scrutiny of marks and grades shall be the final and no more requests shall be entertained thereafter.

6 EVALUATION CRITERIA

6.1 Introduction

Students are evaluated by both continuous assessments and end-semester examinations. The continuous assessments are of the form of open and closed book tests, take away assignments, quizzes, presentations etc. Assessments could also be conducted using the techniques available in the University Virtual Learning Environment (http://vle.seu.ac.lk/ or http://vle.fas.seu.ac.lk/). In case of practical courses, the methods of assessments could be different depending on the nature of the subject. The continuous assessments are held throughout the course and are not repeated. Therefore, regular attendance for lectures and practical classes is very important.

6.2 Theory Courses

Duration of a question paper for end-semester examination shall be 01-03 hours depending on the credit value of the course unit. The number of questions shall be **02 per credit** and **all the questions should be answered**.
Computation: End-semester examination, 70% + Continuous Assessment, 30%.

6.3 Practical Courses

Practical Courses will be evaluated by end-semester examination (50%) as well as continuous assessments (50%) (Practical Recordings, Assessment, Attendance, etc.). Those who don't meet the 80% attendance requirement should repeat the practical sessions in appropriate duration before appearing to the final practical examination (i.e., Proper or repeat candidate).
Computation**:** Final Evaluation, 50% + Continuous Assessment, 50%.

Condition: For above **6.2 & 6.3** a candidate to qualify for the 'D' grade or above he/ she should have obtained a minimum of 25 % marks in the end semester examination of the respective course. Obtaining required marks from continuous assessments alone will not qualify the candidate for a particular grade. A course unit (theory/practical) will be considered **IC** if the marks

obtained for that course unit at the end semester examination is less than 25%, even if the total mark obtained for that course unit is higher than or equal to 25%.

When a candidate is repeating a course, the final marks will be calculated by two methods:

Method-I

Continuous assessment marks (30%) will be added with the final marks of end semester examination (70%) and the grade will be given.

Method-II

Continuous assessment marks (30%) will be waived off from the final marks of the end semester examination and grades will be given considering the end semester examination marks alone for 100%.

If the Method-II gives a better grade than Method-I, than the grade obtained from Method II will be given to the student otherwise the method I will be implemented for giving grades.

6.5 Evaluation of Auxiliary Courses

Only end-semester examination marks for Auxiliary Courses will be considered for awarding grades.

6.6 Scheme of Grading

The marks obtained for each course unit will be assigned a grade and a grade point. The range of marks is divided into sequence of suitable sub-range (as decided by the faculty) and the sub ranges are designated by the grades.

These grades are assigned grade point according to the following scheme.

Marks Range	Grade	Grade Points
85 - 100	A^+	4.00
75 – 84	A	4.00
65 – 74	A^-	3.70
60 – 64	B^+	3.30
55 – 59	B	3.00
50 – 54	B^-	2.70

45 – 49	C^+	2.30
40 – 44	C	2.00
35 – 39	C^-	1.70
30 – 34	D^+	1.30
25 – 29	D	1.00
00 – 24	E	0.00

6.7 Calculation of Grade Point Average (GPA)

GPA is the credit-weighted arithmetic mean of all Grade Points obtained by a student for the course units he/she offered excluding auxiliary courses. This will be calculated to the second decimal place according to the following formula.

$$GPA = \frac{\sum G_i N_i}{\sum N_i}$$

Where, G_i is the grade point of the i^{th} course unit, N_i is the number of credits belonging to the i^{th} course unit.

In case, a student has offered more credits than the minimum credit requirements (for General Degree 90 credits and Honours Degree 120 credits) the grade points obtained for the main courses and the best grade points among the elective courses offered by him/her will be considered for GPA calculation. Accordingly, for the above scenario OGPA will be calculated as

$$\text{OGPA} = \frac{\sum_i^{n-1} (\text{GP})_i \, C_i + (\text{GP})_n \, x C_n}{\sum_i^{n-1} C_i + x C_n}$$

n – The number of modules considered for OGPA calculation.

C – Module credit value

GP – Module credit point

x – Fraction applied to the n^{th} module

7 DEGREE AWARDING CRITERIA

7.1 General Degree

To be eligible for the B. Sc. (General Degree), a student should have completed a minimum of **90 credits**, excluding enhancement/ auxiliary courses and fulfilling the following requirements:

(a) Obtained a minimum GPA of **2.00**,

(b) Obtained no **E** grades in any registered course,

(c) Obtained minimum of **C grades** in English courses in Level I & II,

(d) Completed the degree programme within **six** academic years excluding Senate approved deferment period.

Award of Honours:

In addition to the above requirements, award of Honours will be decided by the board of examiners using the following criteria as guideline.

First Class:

(a) Obtained a minimum GPA of **3.70,**

(b) Completed the relevant requirements within a period of **three** consecutive academic years.

Second Class (Upper Division):

(a) Obtained a minimum GPA of **3.30,**

(b) Completed the relevant requirements within a period of **three** consecutive academic years.

Second Class (Lower Division):

(a) Obtained a minimum GPA of **3.00,**

Completed the relevant requirements within a period of **three** consecutive academic years.

7.2 Bachelor of Science Honours Degree

To be eligible for the Bachelor of Science Honours Degree, a student should have completed at least a total of **120 credits**, excluding enhancement/ auxiliary courses and of this a minimum of 72 credits must be in the subject of specialization and fulfilling the following requirements:

(a) Obtained a minimum GPA of **2.00**,

(b) Obtained no **E** grades in any registered course,

(c) Obtained minimum of C grades in English courses in Level I & II,

(d) Completed the degree programme within **seven** academic years excluding Senate approved deferment period.

Award of Class:

In addition to the above requirements, award of Honours will be decided by the board of examiners using the following criteria as guideline.

First Class:

(a) Obtained a minimum GPA of **3.70,**

(b) Completed the relevant requirements within a period of **four** consecutive academic years.

Second Class (Upper Division):

(a) Obtained a minimum GPA of **3.30,**

(b) Completed the relevant requirements within a period of **four** consecutive academic years.

Second Class (Lower Division):

(a) Obtained a minimum GPA of **3.00,**

(b) Completed the relevant requirements within a period of **four** consecutive academic years.

7.3 Bachelor of Applied Sciences Honours Degree

To be eligible for the Bachelor of Applied Sciences Honours Degree, a student should have completed at least a total of **120 credits**, excluding enhancement/ auxiliary courses and of this the fourth year should comprise with significant exposure to applications with practical training and fulfilling the following requirements:

(a) Obtained a minimum GPA of **2.00**,

(b) Obtained no **E** grades in any registered course,

(c) Obtained minimum of C grades in English courses in Level I & II,

(d) Completed the degree programme within **seven** academic years excluding Senate approved deferment period.

Award of Honours:

In addition to the above requirements, award of Honours will be decided by the board of examiners using the following criteria as guideline.

First Class:

(a) Obtained a minimum GPA of **3.70**,

(b) Completed the relevant requirements within a period of **four** consecutive academic years.

Second Class (Upper Division):

(a) Obtained a minimum GPA of **3.30**,

(b) Completed the relevant requirements within a period of **four** consecutive academic years.

Second Class (Lower Division):

(a) Obtained a minimum GPA of **3.00**,

(b) Completed the relevant requirements within a period of **four** consecutive academic years.

7.5 Conferment of Degree

a. A degree may be conferred on persons who are certified by the Senate to have fulfilled all the conditions required for admission to the relevant particular degree program.
b. No degree will be conferred on any person until he/she has paid the prescribed fees, and has signed the declaration appearing in the special form provided for the purpose or in his application for a particular degree, to be awarded at convocation or in absentia.
c. The name that will be written on the certificate will be the name so spelled in the formal application submitted at the time of enrolment. Those who have changed their names subsequently must inform the Examination Division accordingly, and attend to legal certification requirements.

7.6 Effective Date of the Degree

The effective date of the Degree is the date on which the following day date of the last examination subject was held or the dissertation report was submitted (whichever occurs at the last).

7.7 Award of Medals

1. Professor Sultanbawa Memorial Medal for the Best Student in Chemistry
2. Dr. M. H. M. Ashraff Memorial Medal for the Best Student in Sciences

8 Fall back option

According to Commission Circular no. 04/2021, the provision will be provided to the eligible students.

9 EXAMINATIONS RULES AND PUNISHMENTS

9.1 By-Law No. 02 of 1996 - Conduct at Examinations

Prepared under section 135 of the Universities Act No. 16 of 1978 as amended by the Universities Amendment Act No. 07 of 1985 and approved by the University Council on 24.08.1996. This By-Law as cited as By-Law No. 02 and came into force on 15th July, 1996 and is amended on 13/02/2019 and shall come into force on 13/02/2019

Rules pertaining to the Conduct of Examinations:

9.1.1 A candidate shall have fulfilled the attendance requirement of 80% as prescribed in order to be eligible to sit the examination of a course. The candidate should submit a medical certificate in support of his/her absence to lectures within two weeks after commencement of his/her absence. The medical certificate shall confirm to the regulations given under section 2.1.

9.1.2 Candidates shall be present at the Examination Hall at least 15 minutes before the commencement of each paper and shall enter the Hall only when they are requested to do so by the Supervisor.

9.1.3 On the admission to the Examination Hall, the candidates shall occupy the seats allocated to them.

9.1.4 No candidate shall have in his person or in his clothes or on the admission card, time table and record book or on any other object that is permitted to be brought to the examination hall any notes, signs, diagrams of formula or any other unauthorized materials. Books, notes, parcels, file covers, bags, mobile phones, electronic devices etc. which the candidate has brought with him should be kept at a place indicated by the Supervisor or invigilators. A calculator may be allowed only for the subjects for which it is permitted.

9.1.5 No candidate shall be admitted to the examination hall after the expiry of half an hour from the commencement of the examination nor shall a

candidate be allowed to leave the hall until half an hour has elapsed from the commencement of the examination or during the last 15 minutes of the paper.

9.1.6 A candidate shall bring into the examination hall his/her Student Record Book or his/her University Identity Card which should bear the candidate's photograph~~y~~ and his/her signature duly certified by the Registrar or the Authorized officer. If there is a discrepancy between the names indicated in the Record book or the Identity Card and the name under which the candidate appears for the examination the candidate shall produce a certificate endorsed by the Registrar to the effect that both names refer to one and the same person. In the absence of the above proof of identity, a candidate may produce his or her National Identity Card or a recently taken photograph~~hy~~ duly certified by an authorized person. If a candidate fails to produce the student record book or the university identity card, he/she shall sign a declaration in respect of the paper for which he/she had not produced and produce the student record book or the university identity card within the next three working days. If a candidate has lost his/her student record book or the university identity card during the examination period, he/she shall obtain a duplicate of student record book or the university identity card as the case may be from the Registrar or Senior Assistant Registrar/ Academic for production at the examination hall.

9.1.7 A candidate also shall bring the admission card on every occasion he/she presents himself/herself for a paper.

9.1.8 A candidate may be requested by the Supervisor to declare any items in his or her possession or person.

9.1.9 No candidate can either lend or borrow any material from any other candidate or attempt to communicate in any manner with another candidate or copy from the script of any other candidate. No candidate

shall attempt to help another candidate or conduct him / her negligently so that another candidate has the opportunity of copying.

9.1.10 No candidate shall copy or attempt to copy from any book or paper or notes of similar material or from the scripts of another candidate. No candidate shall watch any practical examination performed by him/her. No candidate shall use any other unfair means or obtain or render improper assistance at the examination.

9.1.11 If any candidate was found to have copied from another candidate by an examiner at the time of marking, he/ she would be treated as having committed a punishable offence.

9.1.12 Candidates shall write only on the writing paper issued during the current paper on that particular date and session.

9.1.13 Examination stationary (i.e. writing paper, graph paper, drawing paper, ledger paper, precise paper etc.) will be supplied as and when necessary. No sheet of paper or answer book supplied to a candidate may be torn, crumpled, folded or otherwise mutilated. No papers other than those supplied to him/ her by the Supervisor/ invigilator shall be used by candidates. Log tables or any other material provided shall be used with care and left behind on the desk. All materials supplied, whether used or unused, shall be left behind on the desk and not removed from the examination halls.

9.1.14 Every candidate shall enter his/ her Index Number on the answer book and every continuation sheet, before using such answer book or continuation sheet. No candidate shall write his/ her name or any identifying mark on the answer script. Any candidate who inserts on his script an Index Number other than his/ her own is liable to be regarded as having attempted to cheat.

9.1.15 A script that bears no index number/ registration number of has an index number/ registration number which cannot be identified, is liable

to be rejected. No candidate shall write his/ her name or any other identifying mark.

9.1.16 All calculations and rough work shall be done only on paper supplied for the examination and shall be cancelled and attached to the answer script. Such work should not be done on admission cards, time table, question papers, record books or on any other paper. Any candidate who disregards these instructions runs the risk of being considered as having written notes or outline of answers with intention of copying.

9.1.17 Every candidate shall conduct himself/ herself in the examination hall and its precincts so as not to cause disturbance or inconvenience to the Supervisor or his staff or to other candidates. In entering and leaving the hall, he/she shall conduct himself/ herself as quietly as possible. A candidate is liable to be excluded from the examination hall for disorderly conduct.

9.1.18 No candidate shall submit a practical or field book, dissertation, thesis, project study, model or product, a programme or software, answer script or assignment which has been done wholly or partly by anyone other than the candidate himself/ herself. In terms of group projects, input from group members only are allowed.

9.1.19 A Candidates shall bring his/ her own pens, ink, mathematical instruments, drawing instruments, erasers, pencils or any other approved equipment or stationery which he/ she has been instructed to bring. No candidate shall bring a programmable calculator into the examination.

9.1.20 No person shall impersonate a candidate at the examination nor shall any candidate allow himself/ herself to be so impersonated by another person.

9.1.21 The Supervisor/ Invigilator is empowered to require any candidate to make a statement in writing on any matter which may have arisen

during the course of the examination and such statement shall be signed by the candidate. No candidate shall refuse to make such a statement or to sign it.

9.1.22 Candidates shall stop work promptly when ordered by the Supervisor/ Invigilator to do so.

9.1.23 Absolute silence shall be maintained in the examination hall and its precincts. A Candidate is not permitted to communicate or to have nay dealings with any person other than the Supervisor/ Invigilator(s). Attention of the Supervisor/ Invigilator shall draw by a candidate by raising the hand from where he/ she is seated.

9.1.24 During the course of answering a question paper no candidate shall be allowed to leave the examination hall temporarily. In case of any emergency, the Supervisor/ Invigilator may grant permission to do so but the candidate will be under his/ her surveillance.

9.1.25 No candidate shall impersonate a candidate at the examination nor shall any candidate allow himself/ herself to be impersonated by another person.

9.1.26 Any candidate receiving unauthorized assistance from any person shall be deemed to have committed an examination offence.

9.1.27 No candidate shall contact any person other than the Vice Chancellor, Dean, Head of Department or AR/ SAR/ DR Examination regarding any matter concerning the examination.

9.1.28 Every candidate shall hand over the answer script personally to the Supervisor/Invigilator or remain in his/ her seat until it is collected. On no account shall a candidate hand over his/ her answer script to an attendant, a minor employee or another candidate.

9.1.29 A candidate who is registered for a course unit shall sit for the examination unless he/she has withdrawn the registration within the

prescribed period for dropping course units. The candidate should submit a medical certificate in support of his/her absence, prior to the commencement of the examination. If such a certificate cannot be submitted before the commencement of the examination, the candidate shall inform his/her inability to attend the examination in writing preferably by registered post to the Dean of the faculty within two weeks after commencement of the examination with a valid medical certificate. The medical certificate shall confirm regulations given under section 9.2.1.

9.1.30 A student who is found guilty of an examination offence shall not be eligible for Honours.

9.1.31 No student shall sit an examination of a course if he/she has exhausted the number of attempts that he/she is allowed to sit that particular examination, unless he/she has been granted special permission to do so by the Senate with the recommendation of the relevant Faculty Board.

9.2 Regulations pertaining to acceptance of Medical Certificates submitted by students

9.2.1 Students are required to support their absence for lectures, practical classes, field works, study tours, field visits, etc. and examinations due to illness by a valid medical certificate confirming to the format of a medical certificate issued by a government hospital. Such medical certificate should be obtained from the following persons:

University Medical Officer
District Medical Officer
Consultant Specialist in the particular field
Head of Government Base Hospital
Medical Superintendent of a Provincial Ayurvedic / Homeopathic Government Hospital

Medical certificates issued by private hospitals of registered private practitioners could be considered by the University Medical Board.

9.2.2 Student who fall ill during semester or examination time should contact the University Medical Officer at the University Health Centre immediately.

9.2.3 If a student falls sick at home or elsewhere during semester or examination time the student or his/her guardian should inform the Dean of the respective Faculty within seven (07) days by tele-mail/fax/email or other means followed by a letter indicating the nature of the illness and the name of the doctor attending to illness. A medical certificate supporting the illness also should be sent to the Dean. If a student could not submit the medical certificate within seven days, he/ she may appeal to the Faculty Board with a medical certificate within two weeks in case of a private medical certificate and within one month in case of a government medical certificate.

Upon receipt of the medical certificate(s), the Dean should follow the following procedures:

9.2.3.1 In case of a Western Medical Certificate is submitted

a. The medical certificate should be referred to the University Medical Officer of his/her observation and recommendation.
b. The University Medical Officer if wishes may summon the student for examination and thereafter send his/her observations and recommendations to the Dean.
c. In cases where the University Medical Officer wishes to convene the Western Medical Board he/she may make arrangements to convene the Board and refer the recommendation of the Board to the Dean.
d. The Dean open receipt of the recommendations, should forward it to the Faculty Board for ratification.

9.2.3.2 In case of an Ayurvedic Medical Certificate is submitted

a. Ayurvedic medical certificates submitted by student(s) should be circulated among the members of the Ayurvedic Medical Board for their observations by the AR/SAR of the Faculty under the guidance of the Dean of the respective Faculty

b. Each member of the Ayurvedic Medical Board may send his/ her observations and recommendations on the face of the medical certificate to the Dean of the respective Faculty through the AR/SAR of the Faculty.

c. In case where the opinions of the members of the Board vary, the AR/SAR of the Faculty with the consultation of the Dean of the Faculty may convene a meeting of the Board.

d. The Board may examine the documentary evidence provided or may summon the student and examine the student concerned.

e. Recommendation of the Board should be sent to the Faculty Board through the Dean of the faculty for ratification.

f. The originals of the medical certificates submitted should be kept in the files in the Faculty while copies of the certificates should be sent to the University Medical Officer for the purpose of records.

9.2.3.3 There shall be two medical boards, viz. Western Medical Board and Ayurvedic Medical Board

a. Western Medical Board

- The Western Medical Board shall consider the cases where the University Medical Officer has doubt about the validity of the medical certificate upon which the request of students to be excused for absence from lectures etc. or examination.
- Medical Officer of the University shall convene the Board if and when necessary

- Board has the right to call students before the Board when necessary for the purpose of interview, examination and investigations.
- Recommendations of the Board should be sent to the Faculty Board through the Dean of the respective Faculty.
- The Board should consist of a physician, surgeon, a psychiatrist and the University Medical Officer.

b. Ayurvedic Medical Board

- This Board shall consist of three (03) persons appointed by the Senate of the University.
- This Board may consider Ayurvedic medical certificates submitted by students requesting exemption from examination or lectures etc. and make recommendations to the Senate through the Dean of the respective Faculty.
- The Board shall meet at least once within a semester. The SAR/academic in consultation with the Deans of respective Faculties shall convene the Board whenever necessary.
- Board has the right to call students before the Board when necessary for the purpose of interview, examination and investigations. The SAR / Academic should request the student's presence at the Board.
- Recommendations of the Board should be sent to the Faculty Board through the Dean of the respective Faculty.
- Caution should be exercised when accepting the Ayurvedic Medical Certificates. Medicals should only be considered from those who are registered under the Ayurvedic Medical Council.
- General or special registered Ayurvedic Medical Practitioners could recommend, on any one occasion, leave upto14 days at a stretch. Those with more than the above amount should get an endorsement from the Medical Officer

in Charge of the closest Government Ayurvedic Hospital or Government Ayurvedic Dispensary.

- The Board may decide on the number of days recommended for leave even though recommended in the Ayurvedic medical certificate.
- The Board has the right to question the validity of any Ayurvedic Medical Certificate.
- The Board has the right to summon any student submitting Ayurvedic Medical Certificates, if necessary.

9.3 Procedure for inquiry and determination of punishment due to those found guilty of examination offences

Examination offences shall be reported by the supervisor of the examination to Senior Assistant Registrar / Examination Branch. This will be inquired by the Examination Offences Committee appointed by the Vice Chancellor. The findings of this Committee will be reported to the Senate. The Senate shall after consideration of the report, determine the punishments due to those found guilty of the examination offences.

9.4 Examination Offences and Punishments

9.4.1 Offences

Any candidate who violates examination rule 1.4 shall be deemed guilty of the offence of procession of unauthorized documents/items and his/her candidature for the examinations of that semester shall be cancelled and he/she shall be prohibited from sitting any examination of this University for a period varying from 1 – 4 semesters.

	Type of Offences	Recommended Punishments
1.	Name written on Answer Scripts	Written warning
2.	Possession of bag etc. on or near desk	Written warning

3. Possession in his/her person or in his/her clothes or on the admission card, time table and record book or on any other object that is permitted to be brought to the examination hall any notes, signs, diagrams of formula or any other unauthorized materials, books, notes, parcels, file covers, bags, mobile phones, electronic devices etc. which the candidate has brought with him/her (9.1.4)	The admission card on which that particular exam paper falls will be cancelled. This implies that the particular paper and all the other exam paper/s mentioned in the given admission with this particular paper will be cancelled. And/ Or Prohibited from sitting any examination of this university for a period from 1 to 4 semesters. This candidate will not be eligible for class awarding. These all-cancelled exam papers will be considered as repeat papers in future. And any other punishments recommended by the Senate.
4. Use any information devices in the Examination Hall	a. The admission card on which that particular exam paper falls will be cancelled. This implies that the particular paper and all the other exam paper/s mentioned in the given admission with this particular paper will be cancelled. And/ Or Prohibited from sitting any examination of this university for a period from 1st to 4th semesters.

	b. This candidate will not be eligible for class awarding. c. These all-cancelled exam papers will be considered as repeat papers in future. d. And any other punishments recommended by the Senate.
5. Attempt to copy from any unauthorized material (i.e., book or paper or notes of similar material etc.) (9.1.10) or copy from the script of any other candidate. (9.1.9) or watch any practical examination performed by another candidate (9.1.10).	The admission card on which that particular exam paper falls will be cancelled. This implies that the particular paper and all the other exam paper/s mentioned in the given admission with this particular paper will be cancelled. And/ Or Prohibited from sitting any examination of this university for a period from 1 to 4 semesters. This candidate will not be eligible for class awarding. These all-cancelled exam papers will be considered as repeat papers in future. And any other punishments recommended by the Senate.
6. Attempting to help another candidate or conduct him / her negligently so that another candidate has the opportunity of copying. (9.1.9)	The admission card on which that particular exam paper falls will be cancelled. This implies that the particular paper and all the other exam paper/s mentioned in the given

	admission with this particular paper will be cancelled.
7. If any candidate was found to have copied from another candidate by an examiner at the time of marking (9.1.11)	The admission card on which that particular exam paper falls will be cancelled. This implies that the particular paper and all the other exam paper/s mentioned in the given admission with this particular paper will be cancelled.
8. Disruption of examination or cause disturbance or inconvenience to the Supervisor or his staff or to other candidates 9.1.17. 9. Not abiding by the instructions provided by the supervisor, invigilator or violates the general rules and regulations of examinations.	A candidate is liable to be excluded from the examination hall for disorderly conduct. The admission card on which that particular exam paper falls will be cancelled. This implies that the particular paper and all the other exam paper/s mentioned in the given admission with this particular paper will be cancelled. Other punishments stipulated in the UGC Comm. Circular 946.
10. Impersonate a candidate at the examination or allow himself / herself to be so impersonated by another person. (9.1.25)	Whenever found while sitting for a particular paper and if it is by a student a. Debarment for two years and to be referred to disciplinary action. If the student in final year, debarment period depends on duration on completion of degree program and

	b. The admission card on which that particular paper falls will be cancelled. This implies that the particular paper and all the other paper/s mentioned in the given admission with this particular paper will be cancelled and c. This candidate will not be eligible for class awarding and d. These all-cancelled papers will be considered as repeat papers in future. e. And any other punishments recommended by the Senate If by an outsider, prosecution to be initiated and any other punishments recommended by the Senate Impersonator/s may also be liable to any punishment under the Penal Code/Criminal Law. In the event the impersonator is found to be a graduate of this University, his/her degree shall be withdrawn.
11. Copying an assignment, project work	Assign zero marks and written warning. And any other punishments recommended by the Senate.
12. Aiding and abetting	Whenever found while sitting for a particular paper,

13. Lending or borrowing any material from any other candidate or attempt to communicate in any manner with another candidate (9.1.9)	a. The admission card on which that particular paper falls will be cancelled. This implies that the particular paper and all the other paper/s mentioned in the given admission with this particular paper will be cancelled. b. This candidate will not be eligible for class awarding. c. These all-cancelled papers will be considered as repeat papers in future. d. And any other punishments recommended by the Senate.
14. Removal of University stationery and material (9.1.13)	Written warning by the supervisor with a copy placed in personal file. If found guilty for the same offence again, The admission card of the current examination will be cancelled. This implies that all the paper/s mentioned in the given admission card will be cancelled. Prohibit from sitting examination of this University for a period of 1 semester.
15. Attempt to obtain improper assistance	Cancellation of the paper and severe warning issued in writing with a copy in the personal file.

16. Not carrying out the Instructions of the Supervisor at the examination hall	Written warning by the supervisor with a copy placed in personal file. If found guilty for the same offence again, The admission card of the current examination will be cancelled. This implies that all the paper/s mentioned in the given admission card will be cancelled. Prohibit from sitting examination of this University for a period of 1 semester. Other punishments stipulated in the UGC Comm. Circular 946.
17. Submitting a practical or field book, dissertation, thesis, or project study, model or product, a programme or software, or answer script or assignment which has been done wholly or partly by anyone other than the candidate himself / herself. (Plagiarism) (9.1.18)	The examination of that particular subject will be cancelled. In terms of plagiarism in thesis or project work, the thesis or project work will not be accepted nor evaluated. The candidate has to repeat the same in a different attempt, which will be considered as a repeat attempt. And/ Or Prohibit from sitting examination of this University for a period of 2-4 semesters.
18. Any candidate receiving unauthorized assistance from any person shall be deemed to	The admission card of the current examination will be cancelled. This implies that all

have committed an examination offence. (9.1.26)	the paper/s mentioned in the given admission card will be cancelled. And/ or Prohibit from sitting examination of this University for a period of 2-4 semesters.
19. Any other offences which are not covered in the above sections	Inquired into and appropriate actions taken.

9.5 Procedure Regarding Examination Offences Committed by Candidates

9.5.1 Disciplinary Committee

There shall be an examination disciplinary committee consisting all the deans of the University. The committee should be convened within two weeks by the AR/SAR/DR of Examination branch upon the receipt of a complaint. The committee should inquire into the complaint and make recommendations including punishments based on this guideline and other rules and regulations of the University within a one week of meeting the committee. The report of the committee should be tabled at the next Senate for necessary actions.

9.5.2 Procedure

9.5.2.1 In all cases of violation of examination rules, the supervisor shall take action to forward his complaint / report to the Examination Branch (to AR/SAR/DR) through the Dean.

9.5.2.2 When the supervisor detects disorderly conduct of a candidate, in the first instance, he should warn the candidate to behave properly. If the conduct of a candidate is causing disturbance to the examination or if the candidate behaves continuously in a manner which is disturbing the examination, the supervisor may exclude the candidate from the examination hall and issue a letter with copies to the respective Dean, AR/SAR/DR examination and the AR/SAR of the respective Faculty cancelling his/her candidature.

9.5.2.3 In all cases of detecting examination offences, the supervisor should send a report to the relevant Dean with a copy to the AR/SAR/DR Examination along with all relevant material including material taken into custody. All the materials taken into custody, should be authenticated by keeping signatures of the candidate, supervisor and an invigilator. The report of the supervisor should be counter signed by an invigilator.

9.5.2.4 The Dean, after a preliminary inquiry, will submit his/her recommendations to the AR/SAR/DR examination to place the same at the disciplinary committee for further actions.

9.5.2.5 Any officer of the University (i.e. examiner, head, lecturers etc.) who detects an examination offence should report it to the relevant Dean who shall after a preliminary inquiry should submit the report to the AR/SAR/DR examination to place the same at the disciplinary committee for further actions. Any allegation or complaints received from any one on examination offences should be investigated initially by the relevant Dean and with his/her report; it should be tabled at the disciplinary committee.

9.5.2.6 The AR/SAR/DR should serve as the convener of the disciplinary committee.

9.6 The Decision

9.6.1 The decision(s) of the disciplinary committee should be submitted to the Senate for a decision and the Senate should ratify the decisions.

9.7 Appeal Procedure

9.7.1 The Vice Chancellor may appoint an appeal board consisting three members among Senior Professors, Professors or Associate Professors.

9.7.2 Any student on whom a punishment is imposed may appeal within two weeks from the date of communication of the punishment. The appeal should be addressed to the Vice Chancellor.

9.7.3 The appeals board may review the decision regarding the punishment imposed and may either affirm or revise the punishments and refer back to the Senate.

10 GENERAL INFORMATION

10.1 Student Registration

All students who are admitted to the university are required to register themselves before commencing their course of studies each academic year. Students are requested to complete the registration at the Academic and Examination branch of the university on or before the date specified.

10.2 Subject Registration

Students who are admitted to the faculty, requested to select courses available in the departments and register the selected courses for every semester of every year. Students are advised to select the subject combination of their choices carefully before registration. Students are requested to follow online subject registration procedure.

10.3 Issue of Student Record Book and Identity Card

On completion of registration, the University will issue every student a Student's Record Book and an Identity Card bearing his/ her photograph duly embossed with the seal of the University.

Every student shall carry his/ her record book or identity card whilst in the University premises, and shall produce such record book or identity card when called upon to do so by any member of the academic, administrative or security staff of the University.

10.4 Renewal of Registration

All Students who continue their course of studies during their second and subsequent years are required to renew their registration at the commencement of each academic year on or before the date notified. This registration can be done through online in parallel with subject registration after paying the renewal fee prescribed by the university.

10.5 Payments for Registration

Details of fee are given below and the payments should be credited to the South

Eastern University of Sri Lanka, Account **No. 228-100190001704,** People's Bank, Addalaichenai through any branch of the People's Bank.

Payments for Initial Registration for All Students

Registration Fees:	110/-
Annual Medical Fees:	50/-
Library Deposit:	100/-
Handbook:	25/-

Those seeking Hostel Accommodation

Hostel Fees (per year):	1200/-

Payments for Renewal of Registration for All Students

Renewal fees:	110/-
Medical fees:	50/-
Identity card:	100/-
Fees for repeat courses (per course):	100/-
Loss of Identity card:	300/-
Loss of Record Book:	300/-

Note: Maximum limit for the fees for repeat courses is 400/-.

10.6 Department of English Language Teaching (DELT)

The DELT is operating at the main campus and a staff has been assigned to look after the need of the FAS. The particular staff is organizing the English classes during the intensive programme with the help of visiting instructors from out of the university. In addition, the staff will be conducting the English classes during the first and second year of the academic programme.

10.7 Library and information services of FAS

The Science Library of the Faculty of Applied Sciences is housed on the second and third floor of the Admin block. The library is a part of the library system of the University, and it specializes in manifold aspects of system maintenance management.

Hours of Opening

Unless announced otherwise, operating hours of the library are as follows:

Weekdays	:	08:30h – 18:00h
Saturday	:	08:30h – 17:00h
Sunday	:	Closed except exam period
		(08:30h – 17:00h only during exam)
Public holidays	:	Closed

Readers

The main readership of the library comprises academics, students and professionals. Students who enrol for the postgraduate courses at the faculty are entitled to get membership of the library.

Library Collection

The collections of the library provide basic readings for course work and research at the faculty, in a number of areas of specialization. The readers will find a good collection of additional readings and references as well, at the Science library.

The main part of the collection consists of books more than 20,000 volumes in both reference and lending sections. The following special collections are available only for reference purposes:

- Sri Lanka Collection
- Theses, research papers, policy reports and case studies
- Pamphlet collection
- Reference Collection

Access to Scholarly Databases

SEUSL libraries have facilities to access scholarly databases subscribed by Consortia for Academic Libraries in Sri Lanka (CONSAL), UGC and several other open access resources. Emerald Insight, Taylor & Francis Journals and Oxford Online Journals are the main resources subscribed by CONSAL. Emerald Insight consists of 235 journals, Taylor & Francis consists of 1589 journals and

Oxford Online includes 258 titles. Library users can access these e-resources remotely by visiting the following link.
http://www.seu.ac.lk/library/online_journals.php

Organization

All the resources in the library are classified according to the Dewey Decimal Classification Scheme, and organized in a systematic way for easy retrieval. Shelf arrangements of the library are designed in such a way as to avoid air congestion, and allow the reader to freely move when searching for a book.

Services

a. Borrowing: Books will be issued for a period of two (02) weeks.
b. Reservation: Students can reserve any book they need. Librarian will inform when the book is ready for lending
c. Renewal: Readers can renew the borrowing period at once when they request.
d. Photocopying services – Photocopying facilities are available at a nominal fee, from 10:30h to 15:00h.
e. On-line public Access Catalogue – This is the main catalogue of the university libraries. Readers can access from anywhere, anytime.
f. Internet – Unlimited internet (wi-fi) facilities are available for current students.

Rules

a. Library opening hours, as determined from time to time, will be posted on the Library's notice board and main entrance.
b. Readers are required to display their identity throughout their stay in the library.
c. Students entering or leaving the library shall allow books and other possessions to be checked by the library staff /security officer at the entrance.

d. Only reading and writing materials can be brought into the Library. Other materials such as bags, umbrellas, parcels, crash helmets, etc., are not to be brought into the library. Such articles may be left in the cloakroom of the Library. Library management accepts no responsibility for loss of any of these items.
e. The Library provides a cloakroom space solely for the use of patrons to the Library.
f. The cloakroom opens when the library opens and will close 10 minutes after the library closes.
g. You will receive a numbered token. If you lose the token, you must have proof of ownership of your items with the fine.
h. Items may not be left overnight in the cloakroom. Any items left at the end of the day will be handed over to the Chief Security Officer. They can be retrieved the next day with the fine.
i. Readers are kindly requested to refrain from leaving valuables & money in bags handed over to the cloakroom. We shall not be liable for any damage or loss of such items.
j. Hand-phone, Walkman, disc man and similar electronic gadgets are not allowed to be brought into the library.
k. Smoking, eating and drinking is strictly prohibited inside the library.
l. Silence is to be strictly observed in the Library.
m. Mutilating or stealing library materials/properties are liable to strict disciplinary action.
n. Readers are not allowed to remove or change the placement of chairs, tables or any other furniture in the Library.
o. The Library staff on duty has the authority to ask any customer, who causes disturbance to leave from the library.
p. Library officers have the authority to bar any person from using library facilities for any infringement of the Library Rules and Regulations.
q. Books must be returned on time. Ensure that books are returned in the same condition. Books should not be marked or defaced in any manner. A

penalty will be imposed for damaged or defaced books. When books are returned, make sure that the receiving date is stamped on the book.

r. The borrowing period for all books from the lending section is 14 (fourteen) days. The fine for delay is Rs. 10 per day.

s. Books and other reading materials once removed from the shelf by a reader must be kept on a table. Users must not return them to the shelf (as it is the task of the library staff).

t. Library Authority may amend Library Rules and Regulations as and when necessary. Abuse of library rules and regulations may result in loss of library privileges as a whole.

10.8 Student Support Service and Welfare System (SSS & WS)

The Student Support Service and Welfare System (SSS & WS) is a central entity, which located at the main campus to which the students and others could bring their grievances and issues and seek solutions and reliefs. Similarly, it oversees the coordination and cohesion among several service divisions and units to ensure smooth functioning of the system, to remedy shortcomings and deficiencies, and to extend assistance for the students in need.

SSS & WS encompasses six broader areas, namely Student services, Student accommodation and cafeteria services, Common amenities and services such as recreational and sports facilities, curative and preventive health care services and facilities for social, cultural, creative and aesthetic pursuits, Student welfare, grievance redress and counselling system that will coordinate with university authorities and faculty level student counselling system, Career Guidance Services, and Marshal and Security services.

Further, SSS & WS will entertain any complaints / problems / grievances from students as regard to food and lodging and financial, education and health matters etc., and provide assistance to needy students in liaison with relevant divisions/ units.

10.9 Facilities and Services

The students have facilities in the campus such as Library, Computer unit, Health Centre, student's common room, Places of worship, Multi shop, Sporting facilities, Canteen, Students' Unions, Societies, Hostels, Shroff's Office etc. Officers can be met by prior appointment.

10.10 Career Guidance Unit (CGU)

As part of educational reform proposals, Career Guidance has been identified as a priority since 1998; practically every university has started some activities in this regard.

CGU at main campus conducts career related programmes in the following focal areas: counselling and advising on careers, employability skills enhancement, career-related information provision, networking with the industries, availing work experience, graduate placement, entrepreneurship skills development and conducting seminars, conferences, workshops, exhibitions, festivals, industry days, career fairs, out bound training, etc.

10.11 Mentoring

Purpose of Mentoring Program is to support mentees to manage their own life in order to maximize their potential, develop their skills, and improve their performances during their studies in the University.

Therefore, each student will be assigned to a mentor from the beginning of the academic program and will be continued for the entire degree program.

Through the mentoring program, mentors will be able to deliver the following services;

- Provide advice and support to mentees in matters related to their academic progress and personal or professional development and support mentees in their welfare issues.
- Share information about the career path, as well as provide guidance, motivation, emotional support, and role-modelling.
- Assist mentees in acquiring knowledge, skills, and attitude.

- Provide information to mentees on other sources of guidance and support available in and outside the University.
- Identifying the poor performance students and advicing in therir degree plan.

10.12 Industrial Training Cell

Industrial Training Cell (ITC) of the Faculty of Applied Sciences (FAS) was established in 2018, with prime objective of producing science graduates who are skilled in variety of industrial activities specified by the Sri Lankan industries by exposing them to the actual working environments. The ITC organizes industrial training for the students, who have registered for the course of Intensive Industrial Training (IIE 32262) by linking with the relevant industries. This course is offered as an elective course in the second semester of level III for the general degree students. The main objective of the course is to enhance the employability of the FAS general degree holders. The training will be provided for a period of minimum 8- weeks and monitored by the ITC. All the details of the course of IIE 32052 (e.g. eligibility, placement, assessment methods etc.) are available in 'Guidelines for Intensive Industrial Training' issued by the ITC.

10.13 Science Research Centre

The Science Research Centre (SRC) is one of the units of the Faculty of Applied Sciences, South Eastern University of Sri Lanka. SRC supports to the research programs of the faculty members staff and students through the maintenance of shared facilities, to foster interdisciplinary collaborations in science-based research and to serve the university, community, state and region through research and development. The SRC shall be financially secure with core funding derived from either the university or other sources. In this regard, while the university may provide support to the SRC through its operating budget, the SRC is expected to seek external funding to support the activities (e.g. through grants, contracts, donations or fee-for-service).

The main commitments of the SRC are;

1. Coordinate the requirements of the Honours degree research activities of the faculty with interdisciplinary sophisticated resources of the faculty and external institutes.
2. Encourage research collaborations among different disciplines, departments, faculties and other relevant institutes.
3. Provide research training opportunities for staff and undergraduates and serve as a valuable information centre for the community.
4. Finding the potential postgraduate research areas and offer postgraduate degrees by research.
5. Organize seminars, workshops, research talks and symposia.

10.14 Science Education Centre (SECFAS)

Introduction

Community outreached programs are considered as one of the important activities of the Faculty of Applied Sciences (FAS). The FAS conducts such programs directly and through its Centre and Units available at the faculty time to time. Enhancement in development of science education specially for secondary school in the south eastern region is a long-felt need. Being located in this region, the FAS should find the way-out to contribute further to the education sector. Organizing interactive and collaborative programs such as hands-on training, seminars and practical sessions etc. would support tremendously developing science education in the region. The proposed Science Education Centre, FAS (SECFAS) would link the faculty and education community to achieve expected services and make easy to handle all related activities.

The SECFAS provides the best institutional opportunity to actualizing and maintaining productive connections between community and the university. The SECFAS will be a powerful mechanism for engaging students, faculty, and staff across faculty with the university, the state, their disciplines and professions, and their own learning and career development processes.

Aim: Promoting and assisting science education, and dissemination of scientific knowledge in the south eastern region of Sri Lanka.

Objectives:

i) To facilitate science teachers to use effective methods to teach science.

ii) To enrich the school curriculum by providing valuable hands-on learning experiences.

iii) To conduct seminar and practical sessions for teachers and students.

iv) To organize motivational programs such as science camps, quiz competition, etc.

v) To publish science monographs, books, etc.

vi) To carryout possible programs requested by educational sectors in this region as well other part of the country.

Sources of Fund:

The SECFAS shall generate income through its programs and university may allocate financial assistance for the community outreached programs.

10.15 Course Review by Students through online

The Institute considers this activity as highly important as students' feedback is a must for the management to continuously improve the quality
of the courses. This process will enable the management to know in advance the areas that need improvement. In fact, an important criterion of measurement is the feedback provided by the students on each of the courses followed by them. These evaluations project and highlight the programme of relevance as well as the emphasis that should be given to the major elements of each course and also any negative trends that demand review and revision.
What a student needs to do is to follow the instructions given below:

1. Log-in to the portal, the using the password.
2. Click-on the relevant course-name (one at a time) applicable to the current semester.

3. Find the link 'Course Evaluation' at the top of the course page. (If there are several faculty members involved in the course, look for separate links for each of them).
4. Click-on the link and carefully fill the form and then transmit.
5. Repeat from step 2 until all the relevant courses are covered.

It should be noted that:

1. This process will ensure complete privacy, confidentiality and anonymity of the evaluators, even though you log-in with your username and password.
2. No one, including the administrators of the system, can trace the 'owner' of the individual feedbacks.
3. Neither will the instructors have access to the feedbacks, other than the printed 'Summary' that will be provided to them at the end of each evaluation process.
4. The system will prevent you from submitting your choices more than once. Therefore, please select your answers carefully before you click on the 'Submit' button.

10.16 Virtual Learning Portal

In addition to the hard infrastructure facilities, students will have access to the Learning Portal in order to access learning material, communicate with faculty and batch-mates, participate in discussion-forums and peruse academic progress records. The web address of the site is https://vle.seu.ac.lk. The username and the password for each student to log-into the portal are given at the time of registration.

In order to use the Virtual Learning Environment (VLE) effectively, students are requested to follow the following instructions carefully:

a. After log into the site, you will see the list of courses you have enrolled for the relevant semester under "My Courses".
b. Click-on any of the course titles; you will see the course page for that particular course and one or more of the following items (blocks) will appear on the page:

Weekly outlines	Administration
Recent Activity	Messages
Search Forums	People
Course up-dates	Activities
Upcoming events	Latest news

c. Using 'Weekly Outline' you can open/download the study material available for the period concerned. Students are advised to use download software such as Download Accelerator Plus (www.speedbit.com) for downloading larger files.
d. To send group mails, click-on "Compose New Email" under the QUICKMAIL block.
e. Edit your profile by clicking-on your name which is displayed on the top right corner, using the Edit Profile tab. You can make any change that you wish in your profile, including your e-mail address. It is the student's responsibility to regularly update his/her profile as the Institute uses this information to communicate with the student on day-to-day matters.

10.17 Direction for FAQs/ Queries

10.17.1 Direction of study

The Department of Study, Science Research Centre and the Faculty Board of the University provide academic guidance to the programs under the direction of the University Senate and Council.

The promotion of institutional good governance and their success are the key requirements here, which will have an effect on the country's overall socioeconomic growth and advancement.

10.17.2 General Administration

Dean	Overall faculty growth and strategic planning; in strategy development, academic direction and guidance.

Heads of the Departments &/ or Coordinator	Academic programmes, structure/design, content of the programmes, quality, examination papers and assignments, course evaluations
Senior Assistant Registrar (SAR)/Assistant Registrar (AR) of the faculty	Academic administration, general administrative matters.
Senior Assistant Registrar (SAR)/Academic and Student Affairs	Student affairs, admissions, enrolment and cancellation of registration, elevation and documents transfer, Convocation related matters etc. Issue or renewal of Student ID, Student record book etc.
Deputy Registrar (DR)/ Examination	Examinations, results releasing, Issuance of certificates and transcripts and Degree.
Deputy Registrar (DR)/ Student and Staff Welfare	Mahapola/ Bursary payments, students' appeals, Student union and societies registration etc., Medical Centre, Canteen
Senior Assistant Bursar (SAB)/Assistant Bursar (AB)	Cashiering, billing, collection, donations, student account services and refund functions of the Institute; maintaining all accounts on receipts and disbursements; and administering of procurement functions and all other matters relating to the Institute's finance and cash-flow.
Academic Wardens/ Director/ Accommodation, Sub warden	Accommodation related matters
Senior Student Counsellor/Student Counsellors/ Mentors	Individual faculty members in charge of courses of study, as well as faculty mentors named for a specific group of students, may provide academic

	guidance, including course selection, texts and readings.
Academic Career Guidance Advisor	Academic guidance, including course selection, texts and readings.
Instructor/ Physical Education	Activities related to Physical Education
Science Library	Both library functions and facilities, as well as the internet and video library, are available. The library is open every day from morning to evening, as well as on weekends. Section 6.9 specifies the hours of operation.
Canteen	All endeavours are made to provide quality food and a courteous service to students. Hence, while cooperating with the canteen staff, students should maintain orderliness and cleanliness. Complaints, if any, should be brought to the notice of the Deputy Registrar/ SSW through Faculty Registrar. The Canteen is open for students from 08:00h to 20:00h on weekdays and from 08:00h to 18:00h on week-ends and public holidays.