Faculty of Technology
University of Ruhuna,Sri Lanka

STUDENT HANDBOOK 2019

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University of Ruhuna
Matara, Sri Lanka

Faculty of Technology

Student Handbook
(2018/2019)

The student handbook provides information about University services, facilities, policies and By-Laws. The information, statements and guidelines contained herein are subject to continued review and evaluation by relevant University officials and its contents are subjected to change without notice. The University reserves the right to modify, amend or revoke such policies, procedures, statements and guidelines without notice or obligation. In addition to the handbook, you are highly advised to refer the updated circulars for clarifications.

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http://www.tec.ruh.ac.lk/

Vision of the University

To be the prime intellectual thrust of the nation

Mission of the University

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

Contents

1 University of Ruhuna

1.1 Introduction

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

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

The University offers Bachelor, Master and PhD degrees in their respective disciplines. In addition, Diploma and Certificate courses are conducted in various disciplines. At the first recruitment of the University of Ruhuna for the Bachelors degree programmes in 1978, a total of 272 students were enrolled and in the year 2017 it has been increased to 9050 students, across nine faculties (Table 1.1), recording its fast growth during the past four decades.

Table 1.1 Distribution of students among the faculties (As at 31.12.2017).

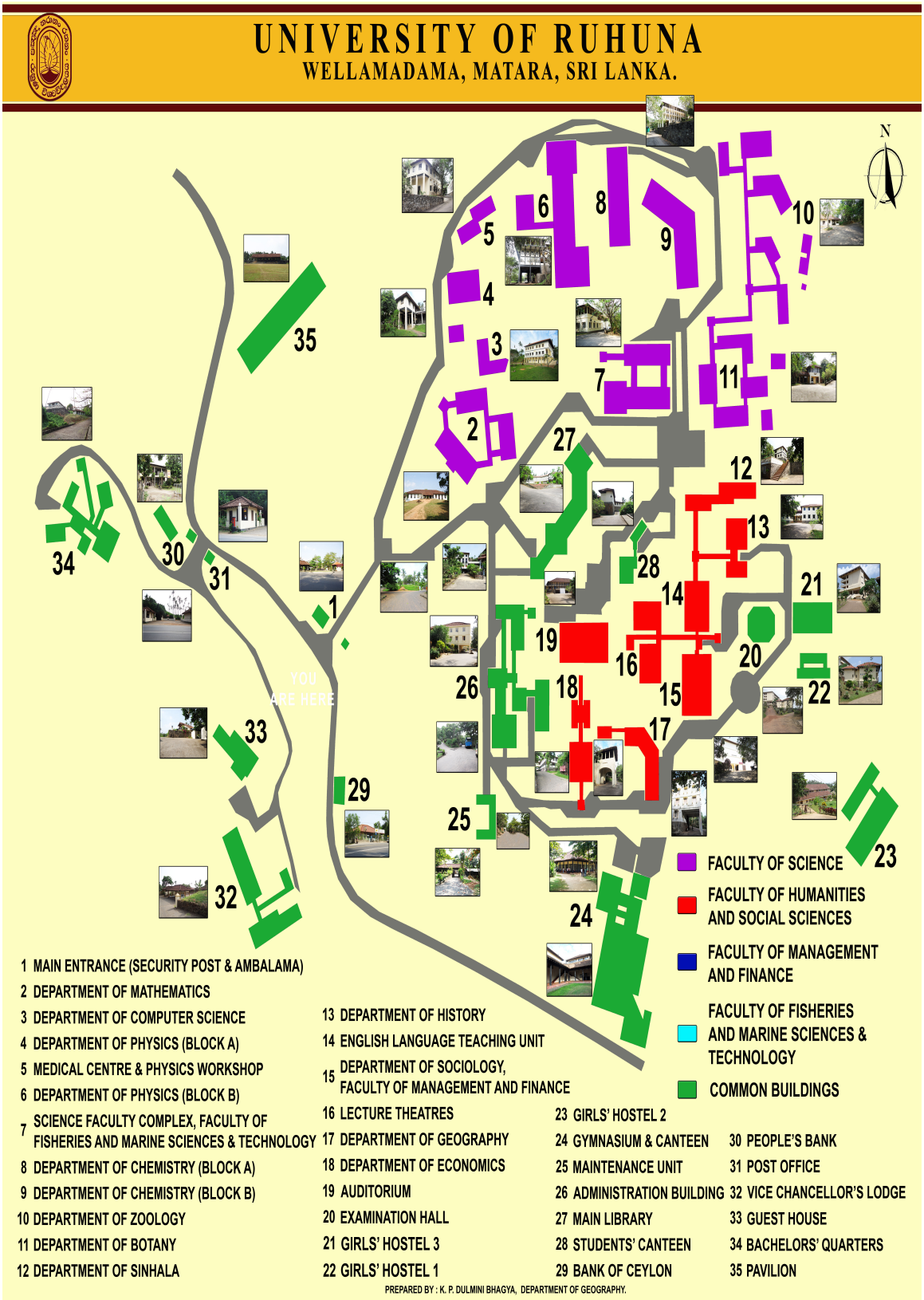
Faculty-wise student registration	
Name of the Faculty	**No. of Student**
Agriculture	972
Humanities and Social Sciences	2062
Engineering	1120
Medicine	1001
Science	1310
Management & Finance	1802
Fisheries and Marine Sciences & Technology	169
Allied Health Sciences	345
Technology	269
Total student population of the University	**9050**

1.2 Location of the University

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

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

1.3 Map of Wellamadama Premises



1.4 Officers of the University

Chancellor
Ven. Rajakeeya Panditha Pallaththara Sumanajothi Nayaka Thero

Vice-Chancellor
Senior Professor Sujeewa Amarasena
MBBS (Ruhuna), MD (Colombo), DCH(Colombo), DCH(Sydney)

Deputy Vice-Chancellor
Prof. Saman Chandana Ediriweera
B.Sc. (Ruhuna), M.Phil (Ruhuna), Ph.D (Japan)

Registrar
Mrs.P.S.Kalugama
B.A. (J'pura), M.A. (London), MBA (Ruh)

Deans of Faculties

Technology
Senior Professor W. G. D. Dharmaratna
B.Sc. (Pera.), M.Sc., Ph.D. (Tufts, USA)

Engineering
Dr. H.P. Sooriyaarachchi,
B.Sc.(Eng Hons) ((Moratuwa)),M.Eng.(Tokyo), Ph.D.(Sheffield,UK), C.Eng, MIE(SL)

Humanities and Social Sciences
Dr. Upali Pannilage
B.A., M.Phil, Ph.D.(Ruhuna),PG Dip.(Colombo)

Medicine
Professor Vasantha Devasiri,
MBBS(Ruhuna), DCH (Paed-Col.), MD(Col.)

Science
Professor P.A. Jayantha,
B.Sc.(Kelaniya), M.Sc.(JPura), Ph.D. (QUT,Australia)

Agriculture
Professor Sudas D. Wanniarachchi
B.Sc.,Agric.(Ruhuna), M.Sc., Ph.D. (Guelph, Canada)

Management & Finance
Dr. T.S.L.W. Gunawardana
BBA (Ruh), MSc (Agder, Norway), PhD (Bodo , Norway)

Fisheries and Marine Sciences & Technology
Dr.(Mrs.) H.B. Asanthi
B.Sc.(Ruhuna),PhD (Montpellier, France)

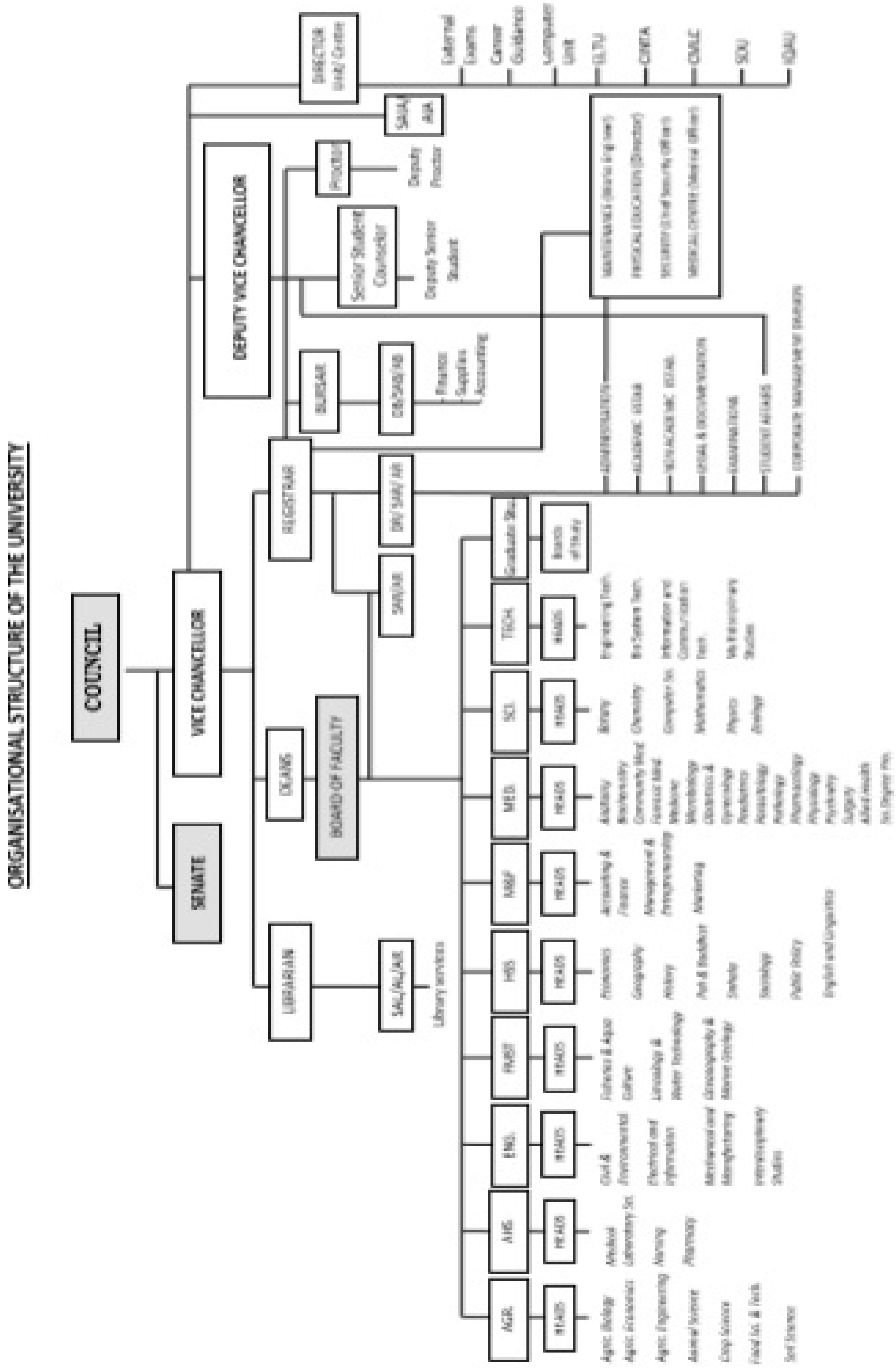
Allied Health Sciences
Dr. K.G. Imendra
BDS (Peradeniya) Ph.D. (Japan)

Faculty of Graduate Studies
Senior Professor (Mrs.) Mirani V. Weerasooriya
MBBS (Pera), Dr.Med.Sci.((Parasitology)Kyushu University, Japan)

Librarian
Mr.Ananda Karunarathna, B.Dev. Studies (Statistic) (Colombo),
Dip.Lib.& Inf. Science (Kelaniya,S.L.), M.Sc. (Kelaniya,S.L.)

Bursar
Mr. A.M.A Siriwardhana,
B.Sc. (Jpura), ICASL (Inter Mediate)

1.5 Organization Structure



1.6 Contacts of University of Ruhuna

Postal Addresses

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

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

Table 1.2 shows the addresses of the other five Faculties outside the Wallamadama.

Table 1.2 Addresses of the other five faculties

Postal Addresses of Five Faculties of the University of Ruhuna		
Faculty of Medicine University of Ruhuna Karapitiya Galle 80000, Sri Lanka	Faculty of Engineering University of Ruhuna Hapugala Galle 80000, Sri Lanka	Faculty of Allied Health Sciences University of Ruhuna Godakanda Galle 80000, Sri Lanka
Faculty of Agriculture University of Ruhuna Mapalana Kamburupitiya 81100, Sri Lanka	Faculty of Technology University of Ruhuna Karagoda,Uyangoda Kamburupitiya, 81100, Sri Lanka	

Telephone and Fax Numbers of the University

Table 1.3 Telephone and Fax Numbers

Faculty-wise Telephone and Fax Numbers		
	Telephone	**Fax**
Wellamadama Complex	+94(0)41-2222681-2 +94(0)41-2227001-4	+94(0)41-2222683
Faculty of Agriculture	+94(0)41-2292200	+94(0)41-2292384
Faculty of Engineering	+94(0)91-2245765	+94(0)91-2245762
Faculty of Fisheries and Marine Science & Technology	+94(0)41-2227026	+94(0)41-2227026
Faculty of Humanities and Social Sciences	+94(0)412227010	+94(0)412227010
Faculty of Management & Finance	+94(0)412227015	+94(0)412227015
Faculty of Medicine	+94(0)912234730	+94(0)912222314
Faculty of Science	+94(0)412222701	+94(0)412222701
Faculty of Technology	+94(0)413006134	+94(0)41-2222683

Electronic Mail/Web

The University mail domain is ruh.ac.lk. E-mail address of office of Faculty of Technology is *office@tec.ruh.ac.lk* . The e-mail addresses of the academic staff and other officers are available in the university website: http://www.ruh.ac.lk and faculty website http://www.tec.ruh.ac.lk/.

Internal Telephone Numbers

Table 1.4 Intercom Numbers

General:	
Vice-Chancellor	2000
office	2101
Deputy Vice-Chancellor	2001
office	2137
Registrar	2110
office	2109
Dean, Faculty of Fisheries and Marine Sciences & Technology	5101
Assistant Registrar	5102
Dean, Faculty of Science	4101
Assistant Registrar	4102
Dean, Faculty of Humanities and Social Sciences	3101
Senior Assistant Registrar	3102
Dean, Faculty of Management & Finance	3901
Assistant Registrar	3902
Dean, Faculty of Graduate Studies	2147
Assistant Registrar	2160
Bursar	2150
Librarian	2210
Senior Assistant Bursar (Finance)	2108
Assistant Bursar (Finance)	2103
Assistant Bursar (Supplies)	2115
Deputy Registrar (General Administration)	2120
Deputy Registrar (Examinations)	2130
Assistant Registrar (Student Affairs)	2135
Senior Assistant Registrar (Academic Establishment)	2144
Senior Assistant Registrar (Non-Academic Establishment)	2140
Works Engineer	2145
Director, Physical Education	2223
Medical Officer	2121
Carrier Guidance Unit	2132
Chief Security Officer	2126
Security Office	2127
Faculty of Technology:	
Dean, Faculty of Technology	94-41 3006130
Assistant Registrar, Faculty of Technology	94-41-3001131
Office, Faculty of Technology	94-41-3006136
Head, Department of Engineering Technology	94-41-3006138
Office, Department of Engineering Technology	94-41-3006138
Head, Department of ICT	94-41-3006133
Office, Department of ICT	94-41-3006133
Head, Department of Biosystems Technology	94-41-3006134
Office, Department of Biosystems Technology	94-41-3006134
Head, Department of Multi Disciplinary Studies	94-41 3006130
Office, Department of Multi Disciplinary Studies	94-41 3006130

2 Faculty of Technology

2.1 Vision and Mission of the Faculty

Vision of the Faculty

To be excellent in nurturing the nation's experts for the next generation of technology

Mission of the Faculty

To produce accredited professional technologists to meet the needs of the world of technology

2.2 Dean of the Faculty

Senior Professor W. G. D. Dharmaratna
B.Sc.(Special in Physics) - University of Peradeniya, M.Sc.(in Physics) - Tufts University - U.S.A., Ph. D. - Tufts University - U.S.A.
Senior Professor of Physics

2.3 General Information

In supporting the Government policy and the request made by UGC to introduce degree programmes for students, who are expecting to enter universities to follow Bachelors degrees in Technology, the Faculty of Science proposed to establish a Faculty of Technology, which was included in the Corporate Plan of the Faculty of Science and the University of Ruhuna in 2014. Faculty of Technology, proposed as the 9th faculty of the University of Ruhuna, was established under the gazette notification issued on 26th April 2016. The Faculty comprises of four departments; Department of Engineering Technology (ET), Department of Information and Communication Technology (ICT), Department of Biosystems Technology (BST) and Department of Multidisciplinary Studies (MS). It provides opportunity to obtain university education for A/L students in the technology stream, which was introduced as another pathway in the higher education system in Sri Lanka.

The mission of the Faculty is to produce professional technologists with accredited degrees to deliver the needs of the world of technology. The Faculty offers three degree programmes, Bachelor of Engineering Technology (BET) and Bachelor of Information and Communication Technology (BICT) in the first year and Bachelor of Biosystems Technology (BBST) in 2018. Initially, the student intake would be 75, 50 and 50 for BET, BICT and BBST, respectively. However the total annual intake would be 200 when the faculty is fully operational after the completion of the construction of new buildings. The academic buildings for the Faculty and two hostels are constructed in the area of 76 acres at the Karagoda Uyangoda in Kamburupitiya, which is close to the Faculty of Agriculture. The hostels facilities are enough to cater all 800 students at the Faculty.

2.4 Broad Objective of the Faculty

One of the main problems in Sri Lanka is the shortage of professionals to face and handle technological advances that develop rapidly at the work place. Many institutes, hospitals and industries import modern equipment, with advanced technology in order to improve the quality of services and products, enhance the efficiency of procedures and production lines. However, the country at large, faces difficulty because of not having a trained work force to properly use technological advances for the development of industries in the country. Proper management of equipment is a well-known problem even in universities and research institutes in the country, mainly due to lack of professionals to train technical officers. The degree programmes under this faculty are designed

to produce quality Technologists out of the students expected to enter universities through the Technology Stream, to fulfill such needs of the country.

The Technologists produced through this faculty, in the areas of Engineering Technology, Biosystems Technology and ICT would certainly fulfill the need of the country to bring new technology to industries. Furthermore, they would have the basic knowledge in management to work as professional Technologists. The courses are structured to provide relevant knowledge on essential technical subjects so that the graduates would be employable in various fields.

2.5 Objectives of the Degree Programme

2.5.1 Engineering Technology

Engineering Technology degrees are well-recognised around the world, which are designed to produce Technologists who would fit in between Engineers and Technical Officers professionally. The course is structured to provide the Electromechanical Engineering Technology knowledge applicable to many areas so that the graduate would have employable opportunities in various fields. Graduates with Engineering Technology degrees are internationally accredited according to Sydney Accord, while Engineers are accredited according to Washington Accord and Technicians are accredited according to Dublin Accord. Furthermore, Institute of Engineers, Sri Lanka (IESL) has produced an Accreditation Manual for Engineering Technology Programmes outlining the criteria and procedures for accreditation, in parallel with the Sydney Accord. This degree programme is designed to produce internationally recognized Technologists in the area of Electromechanical Engineering Technology.

Main Objectives:

1. *To offer a quality degree programme for students who enter the university through Advanced Level Engineering Technology stream.*
2. *To produce graduates qualified to be professional Electromechanical Engineering Technologists locally as well as internationally.*
3. *To provide expertise to design, develop and manage Electrical, Electronic and Mechanical systems in modern working environment.*
4. *To provide qualified manpower to enhance the productivity, quality, efficiency and sustainability of local industries through the use of relevant technologically developed Electrical, Electronic and Mechanical systems.*
5. *To produce Technologists with competent broad knowledge on electromechanical engineering technology in vast areas of applications.*
6. *To produce graduates qualified to teach in Engineering Technology streams in schools and in Technical Colleges and knowledge transfer to society.*

The curriculum of this degree programme focusses on electromechanical instrumentations and process control, which incorporates elements of both electrical and mechanical engineering technology. The electrical component of the curricular includes course works on basic knowledge in electricity and magnetism, current electricity, analog circuits, digital circuits, circuit analysis and faults diagnosis, electrical power systems, operation and maintenance of computer hardware and computer networking. The mechanical component of the curricular includes mechanical and engineering properties of matter, computer aided drafting, basic motor mechanics, hydraulic pumps, robotics, mechatronics and several workshop training course units. Integration of electrical and mechanical components takes place through several course units on applications. Relevant knowledge in Basic Science and Mathematics, ICT knowledge and Basic Management knowledge would be provided through relevant course units.

2.5.2 Information and Communication Technology

The proposed BICT degree programme has been focused on Application Development, which is one of the degree programme proposed by Computer Society of Sri Lanka under new ICT Degree Programme Accreditation Framework. The main objective is to produce quality application developers with relevant subject knowledge on application development principles & ICT principles and relevant complementary subject knowledge, who could build professional carriers in the field of ICT.

The main objectivesof the degree program can be listed as follows.

Main Objectives:

1. *Prepare graduates for positions in software development careers by providing industry-relevant applied education in application development.*
2. *Produce graduates with a broad knowledge on current industry trends including Web, cloud and mobile applications, as well as industry practices.*
3. *Prepare graduates to meet current and future industry needs and emerging software trends.*
4. *Produce high quality software developers with personal skills for a successful career in research and development, industry or other commercial application development related enterprises.*

The curriculum of this degree programme is designed to produce graduates with the subject knowledge on application development and with the knowledge on complementary subjects on Ethics, Economics, Accounting and Management relevant to businesses.

2.5.3 Biosystems Technology

The curriculum of this degree programme focuses on producing Technologists with the knowledge and technical expertise on Biosystems in Agricultural, Biomedical, Bioprocessing and Environmental fields. Relevant knowledge on Basic Science and Statistics, soft skills, ICT, entrepreneurship and basic management would be provided through the relevant course units. As per the approval of the University Grant Commission Sri Lanka (UGC), the National Biotechnology Industry Association, Sri Lanka (NBIA) is responsible for the accreditation of Biosystems Technology programmes in Sri Lanka and in providing consultative feedback on the development of Biosystems Technology education programmes comparable to global practice. The National Biotechnology Industry Association (NBIA), Sri Lanka evaluates Biosystems Technology degree programme and accords accreditation in accordance with established criteria and procedures, through its Accreditation Board.

The main objectives of the degree program can be listed as follows.

Main Objectives:

1. *To offer a quality degree programme for students who enter the university through Advanced Level Biosystems Technology stream.*
2. *To produce graduates qualified to be professional Biosystems Technologists locally as well as internationally.*
3. *To provide expertise to design, develop and manage Biosystems in modern working environment.*
4. *To provide qualified manpower to enhance the productivity, quality, efficiency and sustainability of local industries through the use of relevant technologically developed Biosystems.*
5. *To produce Technologists with broad knowledge on Biosystems.*
6. *To produce graduates qualified to teach in the Biosystems Technology streams in schools and in Technical Colleges and to transfer the knowledge in technology to the society.*

2.6 Programme Outcomes for Technologists

2.6.1 Engineering Technology

1. *Engineering Technology Knowledge: Apply knowledge of Mathematics, Science and Electromechanical Engineering Technology to defined and applied procedures, processes, systems or methodologies.*

2. *Problem Analysis: Identify, formulate and analyse broadly-defined Technology problems reaching substantiated conclusions using Mathematics, Basic Sciences, ICT and Electromechanical Technology.*

3. *Design development of solutions: Design solutions for broadly-defined Technical problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.*

4. *Investigation: Conduct investigations of broadly-defined problems using technical knowledge and experience to provide valid outcome.*

5. *Modern Tool Usage: Create, select and apply appropriate techniques, resources, and modern Technology and IT tools, including prediction and modelling, to broadly-defined Electromechanical Technology activities, with an understanding of the limitations.*

6. *The Technologist and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional Technological practices.*

7. *Environment and Sustainability: Understand the impact of professional Technological solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.*

8. *Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of Technological practice.*

9. *Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.*

10. *Communication: Communicate effectively on broadly-defined Technological activities with the professional community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.*

11. *Project Management and Finance: Demonstrate knowledge and understanding of Technical and management principles and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments*

12. *Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the context of technological changes.*

2.6.2 Information and Communication Technology

1. *Theoretical Knowledge: Understand knowledge on relevant basic Mathematics, Statistics, Social Business, ICT and application development principles, practices and languages, and apply such knowledge to collect and analyse details related to ICT-based application development environments.*

2. *Practical Knowledge and Application: Design and develop ICT-based application level solutions to business and social problems meeting the specified needs of the domain under consideration and apply knowledge of ICT and application development principles, practices and languages, to defined and applied procedures, processes, systems or methodologies of software development.*

3. *Modern Tool Usage: Create, select and apply appropriate techniques, resources, and modern Technology and IT tools, to application development activities, with an understanding of the limitations.*

4. *The Technologist and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional software development practices.*

5. *Environment and Sustainability: Understand the impact of professional application-level solutions in societal and environmental contexts and demonstrate knowledge of and need of such systems for sustainable development.*

6. *Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of software development practices.*

7. *Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.*

8. *Communication: Communicate effectively with different stakeholders in application development environments, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.*

9. *Project Management and Finance: Demonstrate knowledge and understanding of Technical and management principles related to managing software development projects and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.*

10. *Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the context of technological changes.*

2.6.3 Biosystems Technology

1. *Biosystems Technology Knowledge: Apply knowledge of Biosystems, Bioprocesses and Applied Biosystems Technology to defined and applied procedures, processes, systems or methodologies.*

2. *Problem Analysis: Identify, formulate and analyze broadly-defined technology problems reaching substantiated conclusions using Basic Sciences, biometrics, ICT and Biosystems Technology.*

3. *Design development of solutions: Design solutions for broadly-defined Technical problems and design systems, components or processes that meet specified needs with appropriate consideration for agricultural, public health and safety, cultural, societal, and environmental considerations.*

4. *Investigation: Conduct investigations of broadly-defined problems using technical knowledge and experience to provide valid outcome. Exploration of new and low-cost raw materials.*

5. *Modern Tool Usage: Create, select and apply appropriate techniques, resources, and modern Technology and IT tools, including prediction and modelling, to broadly-defined Biosystems Technology activities, with an understanding of limitations.*

6. *The Technologist and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional Technological practices.*

7. *Environment and Sustainability: Understand the impact of professional Technological solutions in societal and environmental contexts and demonstrate knowledge and need for the sustainable development.*

8. *Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of Technological practice.*

9. *Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.*

10. *Communication: Communicate effectively on broadly-defined technological activities with the professional community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.*

11. *Project Management and Finance: Demonstrate knowledge and understanding of technical and management principles and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.*

12. *Lifelong learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the context of technological changes.*

3 Academic Regulations and Procedures

3.1 General Registration

All applicants for the admission to Bachelors Degree programmes in the Faculty of Technology must satisfy the general university admission requirements for the faculties of Technology as laid down by the University Grants Commission.

Applicants with equivalent qualifications gained from foreign universities and transfer students referred by the University Grants Commission for admission to this faculty shall be admitted only with the consent of the Faculty Board. Students admitted to the faculty register as fulltime students after fulfilling the requirements for registration laid down by the University Grants Commission and the University. Each student is required to maintain his/her registration during the total period of study in the faculty.

3.2 General Academic Calendar

The general academic calendar consists of levels (academic years) and semesters. Each level comprises of two semesters. The Degree Programme is of four levels (eight semesters). The faculty will notify commencement of the academic years and semesters, with prior approval from the Faculty Board. A typical academic year will be as shown in the following table.

Table 3.1 General academic calendar of the Faculty of Technology

First semester	Weeks	Second semester	Weeks
1st half	8	1st half	8
Mid semester recess	1	Mid semester recess	1
2nd half	7	2nd half	7
Study leave period	1	Study leave period	1
Examination period	3	Examination period	4
Vacation periods and Holidays			11
Total			52

3.3 Orientation Programme

Foundation programme offers Course Units on English (Intensive Course), Mathematics, ICT and Skills in Common Disciplines. This programme is provided as a preparation to the Bachelor of Technology Degree and is mandatory. However, the length of the orientation programme may depend on the availability of time after the enrollment of students.

3.4 Structure of the Degree Programme

The details of the course structure, the methods of evaluation, grading system, requirements to complete the degree and conditions to award classes are given in this section. As decided at the Technology Standing Committee, degree programme of four years is designed with minimum of 120 credits. In addition, non-GPA English course units are offered during the first five semesters. Standard credits system, 15 lecture hours or 30-45 practical hours is considered as one credit and industrial training period of one month is one credit.

Programme of Study

1. Duration of the Degree of Bachelor of Technology programme shall be 4 academic years. Six months shall be used for Industrial Training. Some non-GPA English course units shall be offered during the first five semesters.

2. The degree programme shall consist of Theory Course Units, Practical Course Units, Project Design and Industrial Training.

3. Degree programme shall be classified into three areas as Engineering Technology and Information and Communication Technology and Biosystems Technology.

4. Each academic year will normally consist of two semesters.

5. A student, during the course of study;
   i)attend a specified course of lectures, and
   ii)perform specified work for practical/continuous assessments, and
   iii)undertake approved projects, industrial training, seminars and other related work as approved by the Faculty.

6. The medium of instruction would be English.

Table 3.2 Main streams of Courses conducted by the Faculty of Technology

Stream	**Subjects**	**Prefix**
Engineering Technology	Mathematics and Science	TMS
	Engineering Technology	ENT
	Complementary Subjects	TCS
	English	ENG
Biosystems Technology	Biosystems Technology	BST
	Complementary Subjects	TCS
	English	ENG
Information and Communication Technology	Information Technology	ICT
	Mathematics and Statistics	TMS
	Complementary Subjects	TCS
	English	ENG

3.5 Course Structure

3.5.1 Engineering Technology

The degree programme is designed with a minimum of 120 total credits of course units. The course units are structured as follows:

Engineering Science and Design = 73 Credits
Mathematics, Basic Science and Computing = 26 Credits
Complementary Studies = 30 Credits
Industrial Training = 06 Credits

The course units are designed to produce an Engineering Technologists with a broad knowledge in the area of Electromechanical Technology with the relevant foundation knowledge in Mathematics, Basic Sciences and ICT. Course units under complementary studies provide the relevant non-technical subject knowledge to complement the technical subjects.

3.5.2 Information and Communication Technology

The course units are structured as follows:
Information Technology = 94 Credits
Mathematics and Statistics = 09 Credits
Complementary Studies = 25 Credits
Industrial Training = 06 Credits

3.5.3 Biosystems Technology

The course units are structured as follows:
Biosystems Technology =96 Credits
Complementary Studies =24 Credits
Industrial Training = 06 Credits

3.6 Credit Value of a Course Unit

Course Units have Credit Values. A credit is a time based quantitative measure used to determine the weightage of a particular Course Unit as shown below.

Table 3.3 Different types of Course Units and Credit Values

Description		**Credit Value**
Theory Course Units:	15 contact hours	01
e.g.	30 hour Course Unit	02
	45 hour Course Unit	03
Practical Course Units:	30-45 hour Course Unit	01
	60-90 hour Course Unit	02
Projects:	30-45 hour Project	01
Combined Course Units:		
e.g.		
30 theory hours and 30-45 practical hours		03
15 theory hours and 30-45 practical hours		02

3.7 Selection of Course Units

There are several options for selection of course units. Available options will be announced at the commencement of the semester. The course unit pathways have been designed to ensure a significant degree of diversification within the degree programme. Compulsory course units should be followed by all students in accordance with the streams selected. Optional course units can be selected at the discretion of the student, according to the selection criteria prescribed by the Faculty/Department. English course units are not counted for Cumulative GPA (CGPA) (called as Non-GPA), however, they will be counted for Semester GPA (SGPA) and has to fulfill the requirement for satisfactory completion of each semester.

3.7.1 Engineering Technology Stream

The third batch of students who opted to follow engineering technology stream subjects in schools have sat for the A/L examinations in 2017 and expected to enter universities in 2018. This document is providing the details of the degree programme, Bachelor of Engineering Technology, designed for students to be entered in 2018 under A/L Technology stream. The degree programme is designed focusing on Electromechanical Technology,to produce professional Technologists to suit the need of the country with the relevant knowledge in Electrical, Electronic and Mechanical systems and applications. Initially, the student intake for this degree programme would be 75 students selected under standard procedure of UGC according to the Z-score.

3.7.2 Information and Communication Technology Stream

The third batch of students who opted to follow information and communication technology stream subjects in schools have sat for the A/L examinations in 2017 and expected to enter universities in 2018. University of Ruhuna, has taken a decision to introduce this BICT degree programme, which is targeting the students who have selected the subjects, Science for Technology, Engineering Technology and ICT in A/L Technology stream. The main objective is to produce quality

application developers with relevant subject knowledge on application development principles and ICT principles and with relevant complementary subject knowledge, who could build professional careers in the field of ICT.

3.7.3 Biosystems Technology Stream

The third batch of students who opted to follow Biosystems Technology stream in schools have sat for the A/L examinations in 2017 and expected to enter universities in 2018. This document is providing the details of the degree programme, Bachelor of Biosystems Technology, designed for students to be entered in 2018 under A/L Technology stream. Aim of this degree programme is to produce professional technologists to suit the country with the relevant knowledge in Biosystems Technology and its applications. Initially, the student intake for this degree programme would be 50 students selected under standard procedure of UGC according to the Z-score.

3.7.4 Multidisciplinary Subjects

It should be emphasized that multidisciplinary subject knowledge has to be provided for undergraduates to produce employable graduates in the present job market. Therefore, it is proposed to establish the Department of Multidisciplinary Studies.

The undergraduate programme in the Faculty of Technology comprises of a large number of course units offered by individual departments. In addition to the course units under the subject areas, several other course units from different disciplines (for example English, Management, personnel development etc.) are also available. These course units are offered by the Department of Multidisciplinary Studies and the denotations of such course units are Complementary Subjects Course (Unit codes starting with TCS).These Multidisciplinary course units offered for all two suject streams.

Theory course units consist of lectures, assignments and tutorials. Combined course units consist of both theory and practical components. In addition, students are also given the opportunity to conduct research projects in an area/problem of his/her interest under a particular course unit.

3.8 Identification of Course Units

An alphanumeric code is used to identify a unit. The code consists of four digits prefixed by a set of three letters denoting the subject/Course Unit as described by the example given below:

Table 3.4 Identification of Course Units

Eg. ENT1232		General Options
ENT	Engineering Technology	TMS: Mathe., Basic Sci. and Computing ENT: Engineering Technology, T=Theory, P=Practical, BST: Biosystems Technology TCS: Complementary Studies, ICT: Infor. and Com. Techn.
1	Level 1	1: Level I, 2: Level II, 3: Level III, 4: Level IV
2	Semester 2	1: Semester I, 2: Semester II, 0: Offered during two semesters
3	Unit number is 3	1: Unit I, 2: Unit II, 3: Unit III, 4: Unit IV
2	Number of Credits are 2	1: 1 credit , 2: 2 credits, 3: 3 credits etc.

Character(s)	Representation	Examples
First three characters	Subject	ENT: Engineering Technology
Fourth character	Level	2 - Level II, 1 - Level I
Fifth character:	Semester of the year	2 - Second Semester
Sixth character:	Number given by the department	4 - Fourth course unit
Seventh character:	Credit value	3 - Three credits,

4 Online Documentation of the Management Information System (MIS) of Faculty of Technology (TEC), University of Ruhuna - (TECMIS)

The TECMIS is meant to assist management of the information system of Faculty of Technology. Its present version has been designed after a careful assessment of the requirements of the users of the system. The users are Students, Dean, Assistant Registrar, Heads of Departments, Lecturers, Academic Supportive Staff and Non-academic Staff.

Users of the TECMIS can perform various different tasks. Every user is assigned a user name and a password to log-in to the system. However, for security reasons all user accounts are created by the Dean of the Faculty of Technology. Students must change the given temporary password at the first time they login to the system.

All students must use TECMIS to register for course units and examinations. There are many facilities for students in TECMIS, such as, view own course units they registered, attendance of classes, eligibility for examinations, results/GPA and notices etc. Changes in registrations are allowed within the specified time limit at the beginning of the semester. All students must complete and update their personal information page.

4.1 Registration process

1. Start Registration : The relevant time periods will be announced by the Dean's Office for students to register/drop course units.

2. Close the registration : The system will be closed for students after the given time period and student will not be allowed to register through the TECMIS after the closing dates.

3. Change of registration : After the closing date of registration, students are allowed to modify course units registered through the Dean's office within a given period, generally two weeks from the beginning of the Semester.

4. Confirmation: Registration for course units will be confirmed by the Deans office and the confirmation of each course unit can be seen in the system. This confirmation indicates that the registration is successful. If any course unit is not confirmed, the students are advised to contact SAR/Technology at the Deans Office.

4.2 Attendance of Classes

Students' attendance for course units they registered can be viewed. It contains daily attendance, number of medical submissions and current attendance percentage for the course units. A student must maintain an 80% attendance for classes in order to be eligible to sit for the examination of a course unit.

4.3 Registration for examinations

All students are advised to register for examinations before the dead line as the dates are announced by the Deans office. Students can register for examinations of registered course units only. A student who registered to repeat an examination should submit the relevant paying voucher to the Dean's Office to obtain the confirmation.

After the registration for examinations is completed the eligibility for each course unit, which depends on the percentage of attendance (80%), will be displayed in the system. It is the responsibility of the student to register for examinations and to maintain the required attendance.

4.4 Results of Examinations

The released results of course units will be posted on the system. The students can view the results of a given course unit or all results of past examinations after login to their accounts.

4.5 Notices

The notices relevant to students will be posted on TECMIS. It is the responsibility of students to see the notices and announcements .

- Web Address for the TECMIS http://paravi.ruh.ac.lk/tecmis/

Department of Engineering Technology

5 Department of Engineering Technology

Engineering Technology degrees are well-recognised around the world, which are designed to produce Technologists who would fit in between Engineers and Technical Officers professionally. Graduates with Technology degrees are internationally accredited according to Sydney Accord, while Engineers are accredited according to Washington Accord and Technicians are accredited according to Dublin Accord. Furthermore, Institute of Engineers, Sri Lanka (IESL) has produced an Accreditation Manual for Engineering Technology Programmes outlining the criteria and procedures for accreditation, in parallel with the Sydney Accord. This degree programme is designed to produce internationally recognized Technologist in the area of Electromechanical Engineering Technology. The Department of Engineering Technology conducts courses in all major fields on Electromechanical Technology, to produce professional Technologists to suit the need of the country with the relevant knowledge in Electrical, Electronic and Mechanical systems and applications. In addition to this, research facilities are planning to offer to those students seeking postgraduate qualifications such as M. Sc., M.Phil. and Ph.D. Degrees in Engineering Technology and related fields.

5.1 Expected Graduate Attributes

- Background knowledge in Electromechanical Technology and ability to identify, analyse and solve broadly defined problems in Electrical, Electronic and Mechanical systems.
- Ability to identify the impact of technological advances on the environment, health and the society and utilization of resources efficiently for sustainable development.
- Ability to design, develop and manage electromechanical systems and manage relevant workforce at a technology-intensive organization based on knowledge and experience.
- Ability to functioning as an individual and as a member or team leader in a technology oriented environment as a socially and ethically responsible technologist.
- Ability to communicate effectively on broadly-defined electromechanical technology activities with the workforce and with the society at large.
- Ability to critically think and technological development at workplace and ability to undertake lifelong learning.

The Department has the following infrastructure facilities: two large elementary laboratories to cater up to 80 undergraduate students, one well equipped technology workshop, One well equipped technology drawing unit, one Computer laboratory , one lecture theater, a seminar room.Ground floor of the new building would be the workshop. Another floor would be available for other laboratories.

5.2 Head of the Department

Dr. K.G.S. Harshadewa Gunawardana, B.Sc. (Peradeniya, SL), Ph.D. (Oklahoma, USA)
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Address : Head, Department of Engineering Technology, Faculty of Technology, University of Ruhuna,Karagoda,Uyangoda, Kamburupitiya, Matara, Sri Lanka

5.3 Members of the Academic Staff

Designation	Name	Specialization
Head of the Department	Dr. K.G.S. H. Gunawardana B.Sc. (Peradeniya, SL) Ph.D. (Oklahoma, USA) Postdoc: Division of Material Sci. & Eng, Ames Lab, USDOE, USA	Theoretical Condensed Matter Physics Nano-scale heat transport in Graphene/Carbon nanotubes Thermodynamic in metallic sys. /interfaces
Designation	**Name**	**Specialization**
Senior Lecturers	Dr. A. Milhan Ajward B.Sc.(Ruhuna, SL) Ph.D. (Cincinnati, USA)	Experimental Condensed Matter Physics, Organic-Semicon. Applied Physics/Electronics Nano-Materials,Physics
	Dr. B. L. Sanjaya Thilakarathne B.Sc. (Colombo, SL) M.Sc. (Kelaniya, SL) D.Eng. (Saitama, JP)	Bio-Physics Interferometry Techniques Eng. Physics, Optical Sensing Management and IT Nanometric measurements
	Dr. P. A. Praveen Janantha B.Sc. (Colombo, SL) Ph.D. (Colorado State, USA) Research Fellow: NUS	Microwave Magnetics and Nonlinear Magneto Dynamics
Probationary Lecturers	Mrs. G. C. Pathiraja (S. Leave) B.Tech. (Uva Wellassa, SL) M.Phil. (PGIS, Peradeniya, SL)	Materials Science and Tech. Electrochemical Techniques Nanomaterials and Computational Chemistry
	Eng. E.A Dinesh Kumara (S. Leave) B.Sc.Eng. (Ruhuna, SL) AMIE(SL), AMIMechE(UK)	Fluid Dynamics, Energy Mgt. Auto Mobile, Thermodynamics Manu. Process Improvements Marine Engineering
	Eng. H.G.T.Milinda B.Tech Hons. (Open, SL) B.Sc. (Applied) (Rajarata, SL), AMIE(SL), AMIMechE(UK)	Mobile Robot, Data Mining Soft Robotics and Service Robot Artificial Intelligent
	Eng. Harshana Laknath B.Sc.Eng. (Ruhuna, SL) AMIE(SL)	Fluid Dynamics Energy Mgt. Auto Mobile, Thermodynamics Manu. Process Improvements Marine Engineering
	Eng. Uditha Muthumala B.Tech Hons. (Open, SL) MBA (Cardiff Metropolitan,UK) AMIE(SL), MIEEE(USA)	Artificial Intelligent Data Science, Deep learning Data Communication Electronic designs
	Eng. (Ms.) H.C Ganege B.Sc.Eng. (Ruhuna, SL), M.Sc. (Moratuwa,SL)(Reading) AMIE(SL)	Power Systems, Electrical Installation Renewable Energy Building Management System

5.4 Course Unit Combinations - Engineering Technology Stream

The detailed course structure is given below. The names of the course units and number of credits for respective course units are given under three main sections of the degree programme, namely, Mathematics, Basic Science and Computing, Engineering Science and Design,and Complementary Studies. The details of objectives, expected output, course content, assessment method and text books for each course unit is avalable in website.

5.4.1 BET Level I

B. Eng. Tec. Level I Semester I					
Engineering Science and Design	Credits	Mathematics, Basic Science Computing	Credits	Complementary Studies	Credits
ENT1111: Workshop Technology I	01 (45h)	TMS1113: Foundation of Mathematics	03	ENG1114: English I (4-hours/ week)	04
ENT1121:Foundation for Technology	01 (45h)	TMS1122: Chemistry of Materials	02		
		TMS1132:Computer Fundamentals and PC Applications	02 T+P		
		TMS1143: Physics of Mechanical Systems	03		
		TMS1152: Applied Calculus I	02		
		TMS1161: Common Practical I (Mechanical Systems)(Physics)	01 45(h)		
	02		**13**		**04**
Level I Sem. I Total Credits					**19**

B. Eng. Tec. Level I Semester II					
Engineering Science and Design	Credits	Mathematics, Basic Science Computing	Credits	Complementary Studies	Credits
ENT1253: Eng. Properties of Matter	03 (45h)	TMS1213: Applied Calculus II	03	ENG1212: English II (2-hours/ week)	02
ENT1242: Electricity and Magnetism	02	TMS1223:Computer Programming Techniques	03	TCS1222: Fundamentals of Management	02
ENT1231:Common Pract. II (Eng. Properties of Matter)	01 (45h)				
ENT1221:Common Pract. III (Electricity and Magnetism)	01 (45h)				
ENT1211: Workshop Technology II	01 (45h)				
	08		**06**		**04**
Level I Sem. II Total Credits					**18**

5.4.2 BET Level II

B. Eng. Tec. Level II Semester I					
Engineering Science and Design	Credits	Mathematics, Basic Science Computing	Credits	Complementary Studies	Credits
ENT2113:Analogue Electronic Systems	03	TMS2112 Basic Environmental Science	02	TCS2132: Business Economics	02
ENT2121:Electronic Laboratory I	01 P			TCS2122: Soft Skills	02 T+P
ENT2132: Renewable and Alternative Energy Technology	02			ENG2112: English III (2-hours/ week)	02
ENT2142:Object Oriented Programming	02 T+P				
ENT2152: Properties of Materials and Applications	02				
	10		**02**		**06**
Level II Sem. I Total Credits					**18**

B. Eng. Tec. Level II Semester II					
Engineering Science and Design	Credits	Mathematics, Basic Science Computing	Credits	Complementary Studies	Credits
ENT2213: Digital Electronic Systems	03	TMS2213: Probability and Statistics	03 T+P	ENG2212: English IV (2-hours/ week)	02
ENT 2221: Electronic Laboratory II	01 P			TCS2122: Accounting for Technologists	02
ENT2232: Instrumentation and Calibration	02 T+P				
ENT2242: Basic Automobile Technology	02 T+P				
ENT2251: Introduction to Robotics Laboratory (Common Practical IV)	01 P				
ENT 2261: Technical Drawing & Computer Aided Drafting	02 T+P				
	11		**03**		**04**
Level II Sem. II Total Credits					**18**

** Depending on the needs there could be changes in the level III and IV sylabus **

5.4.3 BET Level III

B. Eng. Tec. Level III Semester I					
Engineering Science and Design	Credits	Mathematics, Basic Science Computing	Credits	Complementary Studies	Credits
ENT3112: Electrical Power Systems	02			TCS3111: Safety and Risk Management	01
ENT3122: Electri./Electro. and Mechanical Equipment Mainten.	02 T+P			ENG3112: English V (2-hours / week)	02
ENT3132:Computer Hardware and Network Maintenance	02 T+P			TCS3121: Ethics for Technologists	01
ENT3142: Circuit Analysis and Faults Diagnosis	02 T+P				
ENT3152: Introduction to Robotics	02 T+P				
ENT3161: Workshop Technology III	01 T+P				
ENT3172: Welding Techniques	02 T+P				
	13				**04**
Level III Sem. I Total Credits					**17**

5.4.4 BET Level III : Industrial Training

Level III Semester II has to be released for Industrial Training after Level III Semester I Examination to the beginning of Level IV academic year.

Engineering Science and Design	Credits
ENT3216: Industrial Training(6-month period)	06
Total credits	06

5.4.5 BET Level IV

B. Eng. Tec. Level IV Semester I					
Engineering Science and Design	Credits	Mathematics, Basic Science Computing	Credits	Complementary Studies	Credits
ENT4112:Introduction to Mechatronics	02			TCS4111: Art and Tradition	01
ENT4122: Nanotechnology	02			TCS4121: Communication for Technologists.	01
ENT4132: Bio Medical Equipment	02			TCS4132: Creativity, Innovation and Entrepren.	02
ENT4142: Refrigeration nd Air Conditioning	02			TCS4141: Industrial Sociology	01
ENT4151: Computer Laboratory on Operating Systems	01				
ENT4161:Common Pract. VI	01				
ENT4171:Common Pract. VII	01				
ENT4181:Common Pract. VIII	01				
ENT4090:Design Project	**				
	12				**05**
Level IV Sem. I Total Credits					**17**

B. Eng. Tec. Level IV Semester II					
Engineering Science and Design	Credits	Mathematics, Basic Science Computing	Credits	Complementary Studies	Credits
ENT4212: Nautical Technology	02			TCS4211: Human Resources Management	01
ENT4222: Hydraulic pumps and Machines	02			TCS4222: Operations Management for Technologist	02
ENT4232: Polymer Materials	02				
ENT4242: Marine Technology	02				
ENT4252: Hybrid Systems	02				
ENT4261:Common Pract. IX	01				
ENT4271:Common Pract. X	01				
ENT4083:Design Project	03				
	15				**03**
Level IV Sem. II Total Credits					**18**
Total for each section	**75+06**		**26**		**30**
TOTAL CREDITS FOR THE DEGREE					**137**

Department of Information and Communication Technology

6 Department of Information and Communication Technology

One of the main problems in Sri Lanka is the lack of sufficient IT professionals to cope up with the rapidly developing technological advances at the work place. Many institutes, hospitals and industries import equipment with advanced technology in order to improve the quality of their products and enhance the efficiency of their procedures and production lines. Most of these high tech equipments are computer controlled and some needs IT experts to operate and modify relevant software. Furthermore, it has been noticed that some industries could have improved their efficiency if technological advances in IT had been deployed. The proposed BICT degree programme has been focused on Application Development BICT, which is one of the degree programme proposed by Computer Society of Sri Lanka under new ICT Degree Programme Accreditation Framework. The main objective is to produce quality application developers with relevant subject knowledge on application development principles and ICT principles and with relevant complementary subject knowledge, who could build professional careers in the field of ICT.

6.1 Expected Graduate Attributes

- Ability to use application development principles and languages for the development of realistic software systems.
- Skills to use different approaches/tools to software development and apply effective strategies to manage the process of developing, designing, testing, and delivering a software application.
- Ability to develop software components meeting the design specifications.
- Capability to communicate effectively on ICT activities with the workforce and with the society at large.
- Ability to critically thinking on technological development at workplace and aptitude to undertake lifelong learning.
- Aesthetic skills to support innovative and creative thinking in software development.
- Accounting and management skills to support business-oriented thinking of software development.
- Knowledgeable on ethical principles, professional ethics, responsibilities and norms of Technological practices to work in a team of software developers.

6.2 Head of the Department

Mr. S.A.S. Lorensuhewa , B.Sc. (Colombo, SL), M.Sc. (Zhejiang, China)
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Address : Head, Department of Information and Communication Technology, Faculty of Technology, University of Ruhuna, Karagoda,Uyangoda, Kamburupitiya, Matara, Sri Lanka

6.3 Members of the Academic Staff

Designation	Name	Specialization
Head of the department	Mr. S.A.S. Lorensuhewa B.Sc. (Colombo, SL) M.Sc. (Zhejiang, China)	Computer Applications, Text Mining and Text Classification Data Mining, Rule Extraction and Knowledge Representation Applications of Machine Learning Techniques Webbased Application Development
Designation	**Name**	**Specialization**
Senior Lecturers	Dr.P.K.Subash Jayasinghe B.Sc.(Ruhuna, SL) M.Sc. (Ibaraki , Japan) Ph.D.(TUAT , Japan)	IT in Agriculture Image retrieval algorithm GIS and Remote sensing and HCI
Probationary Lecturers	Ms. U.H.W.A Hewage B.CS. (Ruhuna, SL)	Data Mining for Business Intelligence E-Commerce,Knowledge Management Project Management
	Ms.M.A.N.D.Sewwandi B.CS. (Ruhuna, SL)	Big Data Analysis, E- Commerce Knowledge Management, Web Services
	Mr. P. H. P. Nuwan Laksiri B.Sc.(IT) (Moratuwa, SL)	Enterprise Application Development Image Processing Database Management System
	Ms. Iromi R. Paranavithana B.Sc. (MIT) (Kelaniya, SL)	Data Science Big Data Analysis Data Mining and Business Intelligence
	Ms. C. R. Liyanage B.Sc.(CS) (Peradeniya, SL)	Data Mining and Warehousing Sentiment Analysis, Image Processing Human Computer Interaction
	Ms. K.H. Jayani Imalka B.Sc. (MIT) (Kelaniya, SL)	Natural Language Processing Text Mining, Data Mining Human Computer Interaction
	Ms. D. S. Vithanage B. Sc. (IT) (KDU, SL)	Bioinformatics, Data Mining Image Processing, Computer Applications Web based Application Development

6.4 Course unit combination - ICT Stream

The detailed course structure is given below. The names of the course units and number of credits for respective course units are given under three main sections of the degree programme, namely, Information Technology, Mathematics and Statistics and Complementary Studies. The details of objectives, expected output, course content, assessment method and text books for each course unit is available in website.

6.4.1 BICT Level I

BICT Level I Semester I					
Information Technology	Credits	Mathematics and Statistics	Credits	Complementary Studies	Credits
ICT1113: Essentials of ICT	03	TMS1113: Foundation of Mathematics	03	ENG1114: English I (4-hours/ week)	04
ICT1123:PC Applications and Computer Laboratory	03 T+2P				
ICT1133:Fundamentals of Computer Programming	03 2T+P				
ICT1143 : Web Technologies	03 T+2P				
	12		**03**		**04**
Level I Sem. I Total Credits					**19**

BICT Level I Semester II					
Information Technology	Credits	Mathematics and Statistics	Credits	Complementary Studies	Credits
ICT1213: Database Management Systems	03 2T+P	TMS1233: Discrete Mathematics	03	ENG1222: English II (2-hours/ week)	02
ICT1223: Object Oriented Analysis and Design	03			TCS1212: Fundamentals of Management	02
ICT1232: Computer Laboratory	02 2P				
ICT1242:Management Information System	02				
ICT1252: Computer Architecture	02				
	12		**03**		**04**
Level I Sem. II Total Credits					**19**

6.4.2 BICT Level II

BICT Level II Semester I					
Information Technology	Credits	Mathematics and Statistics	Credits	Complementary Studies	Credits
ICT2113:Data Structures and Algorithms	03 2T+P			TCS2112: Business Economics	02
ICT2123: Object Oriented Development	03 2T+P			TCS2122: Soft Skills	02
ICT2133:System Analysis & Design and Usability	03			ENG2112: English III (2-hours/ week)	02
ICT2142:Professional Issues in IT	02				
ICT2153:Internet Application Development	03 2T+P				
	14				**06**
Level II Sem. I Total Credits					**20**

BICT Level II Semester II					
Information Technology	Credits	Mathematics and Statistics	Credits	Complementary Studies	Credits
ICT2213:Operating System Concepts and Applications	03 2T+P	TMS2213: Probability and Statistics	03	ENG2212: English IV (2-hours/ week)	02
ICT2223: Computer Networks	03 2T+P			TCS2212: Accounting for Technologists	02
ICT2233: Software Engineering	03 2T+P				
ICT2243:E-Commerce Implementation, Management and Security	03 2T+P				
	12		**03**		**04**
Level II Sem. II Total Credits					**19**

6.4.3 BICT Level III

BICT Level III Semester I					
Information Technology	Credits	Mathematics and Statistics	Credits	Complementary Studies	Credits
ICT3113:Advanced Programming in Java/C++	03 2T+P			ENG3112: English V (2-hours per week)	02
ICT3123:IT Project Management	03 2T+P			TCS3111: Human Resources Management	01
ICT3132: Software Testing Methods and Tools	02				
ICT3142: Mobile Computing Principles	02				
ICT3152:Human Computer Interaction	02				
ICT3162:Rapid and Agile Software Development	02				
	14				**03**
Level III Sem. I Total Credits					**17**

BICT Level III Semester II					
Information Technology	Credits	Mathematics and Statistics	Credits	Complementary Studies	Credits
ICT3213- Group Project	03 3P				
ICT3223-Distributed and Cloud Computing	03 2T+P				
ICT3233-Mobile Application Development	03 2T+P				
ICT3243-Network, Computer and Application Security	03 2T+P				
ICT3253-Cloud Computing	03 2T+P				
ICT3262-Social Computing	02 T+P				
	17				
Level III Sem. II Total Credits (Additional hours given for English)					**17**

6.4.4 BICT Level IV

BICT Level IV Semester I					
Information Technology	Credits	Mathematics and Statistics	Credits	Complementary Studies	Credits
ICT4112:Data Mining and Business Intelligence	02			TCS4111: Communication for Technologists	01
ICT4123: Artificial Intelligence	03 2T+P			TCS4122: Creativity, Innovation and Entrepreneurship	02
ICT4132: Software Verification and Quality Assurance	02			TCS4131: Industrial Sociology	01
ICT4143: Game Programming	03 2T+P				
ICT4153: Advanced Database Management Systems	03 2T+P				
	13				**04**
Level IV Sem. I Total Credits					**17**

6.4.5 BICT Level IV : Induatrial Training

Level IV Semester II has to be released for Industrial Training after Level IV Semester I Examination to end of Level IV academic year.

Information Technology	Credits
ICT4216: Industrial Training(6-month period)	06
Total credits	06

Department of Biosystems Technology

7 Department of Biosystems Technology

The government through the Ministry of Education has introduced the Technology Stream in the school system in Sri Lanka to provide opportunities for students to learn more technology-oriented subjects with the expectation of producing a work force to suite the technological advances in the country. One of the main objectives was to provide facilities in schools to attract students to follow technology-oriented subjects instead of arts stream subjects, as many students do not have facilities to follow science-based subjects in schools. This degree programme is designed to fulfil the above need of the country on the request of the Ministry of Higher Education and UGC. One of the main problems in Sri Lanka is the lack of professionals to cope up with the rapidly developing technological advances at work places. Many institutes, hospitals and industries import equipment with advanced technology in order to improve the quality of their products and enhance the efficiency of their procedures and production lines. Furthermore, it has been noticed that some industries could have improved their productivity if technological advances had been implemented. Management of equipment is a well-known problem even in Universities and Research Institutes in the country, mainly due to lack of professionals, even to train Technical Officers. This degree programme is designed to address the above issues in the country by producing Technologists with the knowledge in the area of Biosystems Technology. In particular, Biosystems in Agricultural, Biomedical, Bioprocessing and Environmental fields will be focused. In addition, graduates would have sufficient knowledge and skills in ICT for day to day work. Furthermore, they would have the basic knowledge in management to work as a professional Technologist.

7.1 Expected Graduate Attributes

- Background knowledge in Biosystems technology and ability to identify, analyze and solve broadly defined problems in Biosystems.
- Ability to identify the impact of technological advances on the environment, health and the society and utilization of resources efficiently for sustainable development.
- Ability to design, develop and manage Biosystems and manage relevant workforce at a technology-intensive organization based on knowledge and experience.
- Ability to functioning as an individual and as a member or team leader in a technology-oriented environment as a socially and ethically responsible technologist.
- Ability to communicate effectively on broadly-defined Biosystems technology activities with the workforce and with the society at large.
- Ability to critically think on technological development at workplace and ability to undertake lifelong learning.

7.2 Head of the Department

Dr. (Mrs.) K.M.W Rajawatta, BSc in Agriculture (Ruhuna, SL), MM.Sc (Kelaniya, SL), PhD (China)

Contact details

Emails : wathsala@btec.ruh.ac.lk/ head@btec.ruh.ac.lk

Telephone Number:041-2222681 Ext.4710/ 041 3006134 (direct) Mobile +94 718116928

Address : Head, Dept. of Biosyetems Technology, Faculty of Technology, University of Ruhuna, Karagoda,Uyangoda Kamburupitiya, Matara, Sri Lanka

7.3 Members of the Academic Staff

Designation	Name	Specialization
Head of the department	Dr. (Mrs.) KMW Rajawatta B.Sc in Agriculture (Ruhuna, SL) M.Sc (Kelaniya, SL) PhD (China)	Crop Growth Modelling Agricultural Engineering ICT in Agriculture Hydroponics
Designation	**Name**	**Specialization**
Professors	Prof.E.P.S.Chandana B.Sc (Ruhuna,SL) M.Phil (Ruhuna, SL) PhD (Kyoto,Japan)	Molecular Biology and Biotechnology Biochemistry, Environmental Science, Research Methodology Conducting Research on Molecular Biology, Plant Based Medicines
Senior Lecturers	Dr. (Mrs.) KMW Rajawatta B.Sc in Agriculture (Ruhuna, SL) M.Sc (Kelaniya, SL) PhD (China)	Crop Growth Modelling Agricultural Engineering ICT in Agriculture Hydroponics
Senior Lecturers	Dr. Ellawala K.C.Pradeep B.Sc (Colombo, SL) M.Sc (Colombo, SL) PhD (KUT, Japan) Postdoc (KUT, Japan)	Nano Technology Analytical Chemistry Applied Physics Chemical Vapour Deposition Supercritical Fluids
Probationary Lecturers	Mrs. W.M. Champika. S. Jayaweera B.Sc in Agriculture (Ruhuna, SL)	Molecular Biology Environmental Science Plant Physiology, Biotechnology Agricultural Economics Econometrics, Statistics

7.4 Course unit combination - BST Stream

The detailed course structure is given below. The names of the course units and number of credits for respective course units are given under two main sections of the degree programme, namely, module name and complementary studies. The details of objectives, expected output, course content, assessment method and text books for each course unit is avalable in website.

7.4.1 BBST Level I

BBST Level I Semester I			
Module Name	Credits	Complementary Studies	Credits
BST1112: Information Technology I	02 T+P	ENG1114: English I	04
TMS 1113 : Foundation of Mathematics	03 T		
BST1132: General Biology	02 T+P		
BST1142 : Plant Physiology	02 T+P		
BST1152 : Animal Physiology	02 T+P		
BST1162 :Introduction to Environmental Science	02 T+P		
BST1172 : Analytical Chemistry	02 T+P		
BST1181 : Thermodynamics	01 T		
	16		**04**
Level I Sem. I Total Credits			**20**

BBST Level I Semester II			
Module Name	Credits	Complementary Studies	Credits
BST1212: Information Technology II	02 T+P	ENG1212: English I	02
BST1222: Electronics for Biosystems Technology	02 T+P		
BST1232: Organic Chemistry	02 T+P		
BST1242 : Basic Biochemistry	02 T+P		
BST1251 : Fundamental Genetics	01 T		
BST1262 : Basic Microbiology	02 T+P		
BST1272 :Introduction to Fisheries Biology	02 T+P		
BST1282 : Fundamentals in Agriculture	02 T+P		
	15		**02**
Level I Sem. II Total Credits			**17**

7.4.2 BBST Level II

BBST Level II Semester I			
Module Name	Credits	Complementary Studies	Credits
BST2112:Application of Biosystems Technology	02 T+P	ENG2112:: English III	02
BST2123:Engineering Properties of Biomaterials	03 T+P	TCS2112: Business Economics	02 T
BST2132: Enzyme Technology	02 T+P	TCS2122: Soft Skills	02 T+P
BST2142 : Bioenergy Systems	02 T+P		
BST2152 : Bio-separation Processes	02 T+P		
BST2162 : Biomechanics	02 T+P		
	13		**06**
Level II Sem. I Total Credits			**19**

BBST Level II Semester II			
Module Name	Credits	Complementary Studies	Credits
BST2212: Conservation technologies I	02 T+P	ENG2212: : English IV	02
BST2222:Geoinformatics and Biosystems	02 T+P	TCS2212:Fundamentals of Management	02
BST2232:Indigenous knowledge in Biosystems managemen	02 T+P	TCS2221:: Ethics for Technologists	01
BST2242 : Nanotechnology	02 T+P		
BST2253 : Gene technology	03 T+P		
BST2262 :Statistical applications in biosystems technology	02 T+P		
	13		**05**
Level I Sem. I Total Credits			**18**

7.4.3 BBST Level III

BBST Level III Semester I			
Module Name	Credits	Complementary Studies	Credits
BST3113:Environmental Monitoring and Waste Management I	03 T+P	TCS3111:Safety and Risk Management	01
BST3123:Tissue Culture Technology	03 T+P	TCS3122: Accounting for Technologists	02
BST3133:Industrial Microbiology	03 T+P	TTCS3131: Art and Tradition	01
BST3142 : Biomedical Technology	02 T+P	ENG3110: English V	02
	11		**06**
Level I Sem. I Total Credits			**17**

7.4.4 BBST Level III : Induatrial Training

Level III Semester II has to be released for Industrial Training after Level III Semester I Examination to end of Level III academic year.

Information Technology	Credits
BST3216: Industrial Training(6-month period)	06
Total credits	06

7.4.5 BBST Level IV

Students can select either

1. Food, Fisheries and Agriculture Technology Stream or
2. Natural Products and Environmental Technology Stream

(1) Food, Fisheries and Agriculture Technology

BBST Level IV Semester I			
Module Name	Credits	Complementary Studies	Credits
BSTF4113:Technological Perspectives of Food Processing and Packaging	03 T+P	TCS4111: Communication for Technologists	01
BSTF4122:Food Analyses and Quality Assurance	02 T+P	TCS4122: Creativity, Innovation Entrepreneurship	02
BSTF4132: Fish Production Systems	02 T+P	TCS4131: Industrial Sociology	01
BSTF4142: Fisheries Technology	02 T+P		
BSTF4152 : Horticulture Technology	02 T+P		
BSTF4162 :Nursery Management Technology	02 T+P		
BSTF4170 :Design Project/ Research Project (Shall be completed in level iv)			
	13		**04**
Level IV Sem. I Total Credits			**17**

BBST Level IV Semester II			
Module Name	Credits	Complementary Studies	Credits
BSTF4214: Crop and Livestock Production Systems	04 T+P	TCS4211: Human Resources Management	01
BSTF4222: Pest Controlling Technology	02 T+P	TCS4222:Operations Management for Technologist	02
BSTF4231: Postharvest Technology	01 P	TCS 4232: for Active Citizenship	02
BST2242 :Farm power, Machinery and Alternative Energy Systems	02 T+P		
BSTF4276 :Design Project/ Research Project	06		
	15		**05**
Level IV Sem. II Total Credits			**20**

(2) Natural Products and Environmental Technology Stream

BBST Level IV Semester I			
Module Name	Credits	Complementary Studies	Credits
BSTE4112: Soil Conservation and Land Management	02 T+P	TCS4111: Communication for Technologists	01
BSTE4122:Soil Water and Drainage Management Technology	02 T+P	TCS4122: Creativity, Innovation and Entrepreneurship	02 02
BSTE4133:Landscape Design and Construction	03 T+P	TCS4131: Industrial Sociology	01
BSTE4142 : Built Environment Design	02 T+P		
BSTE4152:Field Methods in Hydrogeology	02 T+P		
BSTE4162: Ecotourism Management	02 T+P		
BSTE4170:Design Project/ Research Project (Shall be completed in level iv)			
	13		**04**
Level IV Sem. I Total Credits			**17**

BBST Level IV Semester II			
Module Name	Credits	Complementary Studies	Credits
BSTF4212: Water Technology	02 T+P	TCS4211: Human Resources Management	01
BSTF4222: Forest Resources and Wood Science	03 T+P	TCS4222:Operations Management for Technologist	02
BSTE4232:Natural Products Development Technology	02 P	TCS 4232: for Active Citizenship	02
BSTE4242 :Weather Forecasting Technology	02 T+P		
BSTF4276 :Design Project/ Research Project	06		
	15		**05**
Level IV Sem. II Total Credits			**20**

Department of Multidiscipilinary Studies

English Lectures

8 Department of Multidiscipilinary Studies

Graduates with Technology degrees are expected to be knowledgeable on complementary subjects in addition to the subject matter of the relevant area. For example, according to the accreditation guidelines of Sydney Accords as well as IESL, Engineering Technology graduates are expected to complete about 18 credits of complementary subjects relevant to produce a professional Technologist. This is mainly due to the fact that having only the subject knowledge cannot produce a quality professional Technologist to perform well at the workplace. It is equally important to have relevant knowledge in subjects like Fundamentals of Management, Human Resource Management, Communication Skills, Ethics at Workplace, Creativity, Invention and Innovation Skills, Entrepreneurship etc. to be successful at work. The Department of Multidisciplinary studies is established in the Faculty of Technology to offer Course Units on Complementary Subjects to fulfill the expected graduate outcome and the graduate profile.

8.1 Expected Graduate Attributes

In order to achieve the graduate attributes of each degree programme listed above, the Department of Multidisciplinary studies offers Course Units on Complementary Subjects listed in Table 7.1 under each degree programme. The course codes of these Course Units begin with TCS. Relevant TCS units are offered at all levels, from Level I to Level IV.

TCS Course units shall be selected at the discretion of the student according to the selection criteria prescribed by the faculty.

8.2 Head of the Department

Senior Professor W. G. D. Dharmaratna (Acting Head)
B.Sc. (Special in Physics) - University of Peradeniya, M.Sc.(in Physics) - Tufts University - U.S.A., Ph. D. - Tufts University - U.S.A.
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8.3 Members of the Academic Staff

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Ms. H. M. N.N Herath
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8.4 Course units Offered by the Department

The course units offered by the Department of Multidisciplinary Studies under Engineering Tech-

nology and ICT degrees are listed in the Table given under section 7.4.1, which are also listed in sections 5.4 and 6.4, respectively in the third column of relevant tables. For the second batch of students all these course units, as listed in the Table given under section 7.4.1 are compulsory.

8.4.1 Complementary Subjects

Information and Communication Technology	
Level and Semester	**Complementary Studies(Credits)**
Level I Semester II	TCS1212: Fundamentals of Management (02)
Level II Semester I	TCS2112: Business Economics (02) TCS2122: Soft Skills (02)
Level III Semester I	TCS3122: Accounting for Technologists (02)
Level III Semester II	TCS3211: Human Resources Management (01)
Level IV Semester I	TCS4111:Communication for Technologists (01) TCS4122: Creativity, Innovation & Entrepreneurship (02) TCS4131: Industrial Sociology (01)
Engineering Technology	
Level and Semester	**Complementary Studies**
Level II Semester I	TCS2112: Business Economics (02) TCS2122: Soft Skills (02)
Level II Semester II	TCS2212: Fundamentals of Management (02) TCS2221: Ethics for Technologists (02)
Level III Semester I	TCS3111: Safety and Risk Management (02) TCS3122: Accounting for Technologists (02) TCS3131: Art and Tradition (02)
Level IV Semester I	TCS4111:Communication for Technologists TCS4122: Creativity, Innovation & Entrepreneurship (02) TCS4131: Introduction to Sociology (02)
Level IV Semester II	TCS4211: Human Resources Management (02) TCS4222: Operations Management for Technologist (02)

8.4.2 English

English Language is one of the main subjects coordinated by the Department of Multidisciplinary Studies. Courses related to English language are conducted by the English lecturer attached to the department with the aid of visiting lecturers recruited in each year. The English program offered by the department is aimed at developing writing skills and spoken skills in relation to language in common usage and scientific communication.

Courses offered during academic years

The ELTU offers English as Non-credit complementary course units for BET and BICT students during the Level I to III of the Degree Programme. Course content will be provided at the beginning of each semester.

Table 7.2 shows the semester wise time allocation.

Semester	**Time**	**Credit Value**
Level I Semester I	English I - ENG1114	4
Semester II	English II - ENG1212	2
Level II Semester I	English III - ENG2112	2
Semester II	English IV - ENG2212	2
Level III Semester I	English V - ENG3112	2

Requirement for the completion of English Course Units

The credit values of these course units are given in table 7.2. Their grades and credit values shall be considered for the calculation of Semester GPA (SGPA), which has to satisfy the clause 6.3.4 of the By-Laws (See Sec. 10 of the handbook) for the successful completion of a Semester. These credits are counted for the total credits earned but not counted for the minimum requirement of 120 credits and for the Cumulative GPA (CGPA). CGPA (Clause 6.3.5 of the By-Laws) is used for Requirement of the Graduation (Clause 7 of By-Laws) and for Award of Classes (Clause 8 of By-Laws)

Clause 6.3.4 of the By-Laws is given below:

6.3.4 Successful Completion of a Semester : A student is considered to have completed a semester successfully only if he/she has achieved a SGPA of 2.00 or above, and has, in that semester no E, E*or F grades and no more than, three grades at the levels of C- , D+ or D.

9 Learning Resources

9.1 Library Facilities

The Library of University of Ruhuna being a central research library in the southern region of Sri Lanka caters for vast variety of communities in the country. The Ruhuna University Library has four branch libraries in addition to the Main Library,which serve the Faculty of Agricultural at Mapalana, Faculty of Engineering at Hapugala, Faculty of Medicine at Karapitiya and Faculty of Allied Health Sciences at Mahamodara..

Main Library located in the Wellamadama university premises which serves the communities of five faculties; Faculty of Humanities and Social Science, Faculty of Fisheries and Marine Sciencec & Technology, Faculty of Science, Faculty of Management and Finance and Faculty of Graduate Studies. In addition to that services are provided for outside communities too.Main Library serves the Faculty of Technology until it moves to the new site at Kamburupitiya.

9.1.1 Library Opening Hours

A description of hours of opening is given in Table 8.1.

Table 8.1 Description of hours of opening - Main library (Wellamadama)

Description of the period	**Days of opening**	**Hours of opening**
Semester	Monday to Friday	8.00 a.m. to 6.00 p.m.
	Saturdays	8.30 a.m. to 5.00 p.m.
	Sundays	Closed
Study leave and Examination	Monday to Friday	8.00 a.m. to 8.00 p.m.
	Saturdays and Sundays	8.30 a.m. to 5.00 p.m.
Long Vacation	Monday to Friday	8.00 a.m. to 5.00 p.m.
	Saturdays	8.30 a.m. to 5.00 p.m.
	Sundays	Closed
Public Holidays and Poya Days	–	Closed

Note: Opening hours of the library may be revised.

Table 8.2 Description of hours of opening - Faculty library (Kamburupitiya)

Days of opening	**Hours of opening**
Monday to Friday	8.30 a.m. to 4.30 p.m.
Saturdays and Sundays	Closed
Public Holidays and Poya Days	Closed

Note: Opening hours of the library may be revised.

9.1.2 Staff of the Library

Staff of the Library of University of Ruhuna consisted of 13 Academic staff members and two administrative staff members.

Academic Staff Members

Librarian	Mr.Ananda Karunarathna B.Dev. Studies (Statistic) (Hons) (Colombo), MSSc. (Lib. & Inf. Science) (Kelaniya) Dip. in Lib. & Inf Science(Kelaniya)
Assistant Librarian (Faculty of Technology)	Mr. J.A Ajith B.A. (Hons) (J'pura), M.A (J'pura), MIT (Colombo)
Senior Assistant Librarian (Faculty of Agriculture)	Mrs. S.L. Gammanpila B.Sc. Agri (Hons) (Ruhuna), MLS (Colombo)
Senior Assistant Librarian (Technical Services)	Mr. N. Hettiarachchi B.Sc. (Hons) (Ruhuna), MSSc. (Lib. & Inf. Science) (Kelaniya)
Senior Assistant Librarian (Reader Services)	Mr. U.A. Lal Pannila B.A. (Hons) (P'deniya), MSSc. (Lib. & Inf. Science) (Kelaniya)
Senior Assistant Librarian (Faculty of Engineering)	Mr. J.J. Garusing Arachchi B.A. (Hons) (Kelaniya), MLS (Colombo) Reading for Ph.D. (Colombo)
Senior Assistant Librarian (Periodical Section)	Mrs. T. Kuruppuarachchi B.Sc. (Hons) (Ruhuna), MLS.(Colombo), Reading for Ph.D. (Australia)
Senior Assistant Librarian (Faculty of Medicine)	Mr. K.T.S. Pushpakumara B.Sc. (Hons) (Ruhuna), MLS.(Colombo),
Senior Assistant Librarian (Technical Services)	Dr. K.H. Ramanayaka B.Sc.(Hons) (Ruhuna), MSSc. (Lib. & Inf. Science) (Kelaniya) , Ph.D. (China)
Senior Assistant Librarian (Electronic Services)	Mr. I.D.K.L. Fernando B.Sc (Hons) (Ruhuna), M.ISM. (Colombo)
Senior Assistant Librarian (Cataloguing & Classification)	Mrs. Sakunthala Senevirathna B.A. - Lib Sci. (Hons) (Kelaniya),Dip. in Journalism (Colombo), MSSc. (Lib. & Inf. Science) (Kelaniya)
Senior Assistant Librarian (Acquisitions)	Ms. P.K. Jayasekara B.Sc. Agri (Hons) (Ruhuna), MLS (Colombo)
Senior Assistant Librarian (Faculty of Allied Health Sciences)	Mr. P.G.Nishantha B.Sc.(J'pura), MLS (Colombo)

Administrative Staff Members

Senior Assistant Registrar (Library Services)	Mr. C.P.K. Edirisinghe B.A.(Hons) (J'Pura, SL), PDBA (Ruhuna)
Senior Assistant Registrar (Library Services)	Mrs. G.A. Jagathi Hemmali

9.1.3 Library Collections in Main Library

The library consisted of sections for lending, reference, periodicals and special collections. In detailed descriptions of library collections are given below.

Lending Section

Lending section is located in the second floor of the Library. Lending section issues books for a period of two weeks to undergraduates. If needed which can be extended for another two weeks through the "ISURu" database.

Reference Section

This section is located in the first floor of the Library. Reference section includes reference materials and permanent reference materials. Reference materials are issued to students for overnight use. Reference materials could be borrowed between 3.00 p.m. to 5.00 p.m. and should be returned before 10.00 a.m. of the due date.

Permanent reference materials (such as encyclopaedias, dictionaries, glossaries and other valuable books) are intended strictly for reference within the library. Reading facilities are provided in this section.

Periodical Sections

Periodical section is located in the first floor of the Library. The periodical section consists with different kinds of printed and online resources, such as; back volumes of printed journals, newsletters, printed periodicals currently subscribed by University of Ruhuna Library, online databases subscribed through Consortium of Academic Libraries of Sri Lanka (CONSAL) and past examination papers.

Printed periodicals currently subscribed by University of Ruhuna Library

- Scientific American
- National Geographic Magazine
- Time magazine
- Lanka Monthly Digest
- Journal of the National Science Foundation of Sri Lanka
- Databases subscribed through Consortium of Academic Libraries of Sri Lanka (CONSAL)
- Emerald
- Taylor & Francis
- SAGE Research Methods Online
- Oxford University Press
- Wiley online Journal
- HINARI
- AGORA
- OARE

Printed materials available in periodical section are meant to be used within the Library. This collection is opened from 9.00 a.m. to 4.00 p.m. on weekdays.

The Sri Lanka Collection (Ceylon room)

This collection is arranged in a separate room in the first floor. The library materials, which are useful to obtain various information about Sri Lanka, are arranged in this collection, such as;

- Government publications (Annual reports, statistical reports)
- Rohana collection
- Copies of Master's and Doctoral theses of Academic staff and students of the University of Ruhuna
- Professor Justin Labrooy collection
- Professor Alawaththagoda Premadasa collection
- Newspaper collection

Readers may not allow to remove library resources from this collection. This collection is opened from 9.00 a.m. to 4.00 p.m. on weekdays.

Legal Deposit Collection

Legal Deposit Collection is located in the second floor of the Library. Legal Deposit Collection is the latest collection in Main Library., University of Ruhuna. The University of Ruhuna has become fortunate to join the group of institutes in Sri Lanka that have been maintaining legal deposit collections since 2013. This collection consisted of all the publications published within Sri Lanka since 1990. Currently, this valuable collection consisting of about 200,000 items including books, newspapers, journals, magazines, handbooks, annual reports, pamphlets, government publications such as gazettes, hansards, acts and school text books, proceedings, posters etc. written in various languages. These items are stored under preservative conditions and only available for reference within the collection. This collection is opened from 9.00 a.m. to 4.00 p.m. on weekdays.

Colour Plate Collection

Colour plate collection is located in the first floor of the library. This collection consisted of books with valuable colour images. Colour plate collection is kept in a locked glass cupboard in the Reference section of the library for careful preservation. Students need to make a request to use this collection.

9.2 Library Resource Classification

The library materials in the University of Ruhuna Library is organized according to the Dewey Decimal Classification (DDC) system. DDC helps to arrange library materials by discipline. The main classes of DDC is given in Table 8.3;

Books are arranged according to the DDC System and the subject related classes for departments as follows (Table 8.4);

9.2.1 Library Catalogue

An Online Public Access Catalogue (OPAC) is a computerized online database of all the resources held in the library. Users can use OPAC to search library materials available in the library. It can be accessed from **URL: isuru.lib.ruh.ac.lk.** OPAC provides facilities to search library materials using keywords, title, author, subject, ISBN, series and call number

Table 8.3 Library resource classification

DDC number	Discipline
000	Computer science and general works
100	Philosophy and psychology
200	Religion
300	Social Sciences
400	Language
500	Natural sciences and mathematics
600	Technology (Applied science)
700	Arts; Fine arts and decorative arts
800	Literature and rhetoric
900	Geography and history

Table 8.4 Related classes for Departments

Department	DDC Number
Department of Engineering Technology	604, 620 629, 660 662
Department of Information and Communication Technology	003, 004, 005, 006
Department of Biosystems Technology	500 600
Department of Multidisciplinary Studies	330 339, 350 354, 650 659

9.2.2 Library Services

Ask a Librarian Service

Senior Assistant Librarians and Assistant Librarians of the University of Ruhuna Library provide reference services to the library users with direction to library materials, advices on library collections and services and searching multiple kinds of information from multiple sources.

Skill Development Programs

Library of University of Ruhuna is currently conducting Information Literacy course modules in Faculty of Fisheries and Marine Science & Technology, Faculty of Agricultural, Faculty of Engineering and Faculty of Medicine. The main purpose of these modules is to develop students information literacy and library skills. Academic staff of the library facilitates students throughout the course module with comprehensive theoretical and practical work.

In addition to this course unit, library conducting continuous student orientation, training and support with information management through workshops and seminars.

Inter-Library Loans (ILL)

Any book and photocopies of research articles in journals, which are not available in the University of Ruhuna Library, but available elsewhere, could be obtained via inter-library loan. readers who wish to avail themselves of the faculty should use the application available at the Library Office.

Library Resource Centre in Main Library

Library Resource Centre provides following facilities;

- Computer Lab - 20 users can occupy at a time
- Library Auditorium - can be used for 80 users with the modern electronic facilities

Photocopying Service in Main Library

The Library provides a photocopying service for those who requires copies of reference materials available in the Library. An agency photocopy service was installed to the Library.

Student Counselling

The student counselling service of the library provides services and programs which promote the personal development and psychological well-being of students. Students have the opportunity to discuss their various psychological, social and financial issues or any other difficulties they face during their university education and library use. counselling services maintain strict confidently.

Outreach Programs

Library of University of Ruhuna is conducting workshops, training programs and awareness programs to enhance the information literacy skills of teacher librarians, library science students and different target populations in Southern province.

9.3 Library Membership

Full membership of the library is available to all registered undergraduate and postgraduate students of University of Ruhuna. All students are required to register at the library by using the application form provided.

Borrowing Library Resources

With the exception of certain categories (i.e. Permanent reference materials, dictionaries, atlases, books under special collections etc.) all other books may be borrowed. The university record book or identity card must be produced when borrowing books. Books may be borrowed before 4.00 p.m. Details about the number of books can be borrowed is given in Table 8.5 .

Table 8.5 Number of books can be borrowed by students from the Main Library

Degree Programme and the Level	Lending Books	Reference Books	Electronic media
Level I	1	1	2
Level II	1		3
Level III	1	1	5
Level IV	1		6
Postgraduate	1	2	3

Notes

1. Level I students are only allowed to borrow one 'Student centred learning' material.
2. The students can be borrowed 01 lending books and 01 reference book from Faculty of Technology Library.
3. Number of books can be borrowed by students will be revised with expanding library collection.

Returning Library Resources

Borrowed books must be returned by 9.00 a.m. on the due date. The Borrowers remain responsible for books, which are issued to them.

If an issued book is lost or damaged, the matter should be reported to the library immediately. The borrower has to replace it with a new copy of the same edition or subsequent edition within due

date. If the book is not available in the market, the borrower will be charged for the replacement cost of the book and a processing fee of 25% from the value of the book.

All library resources borrowed must be returned and all outstanding fines must be paid when a student leaves the university. Users who fail to fulfil their obligations may have their degree certificate withheld until they return the borrowed resources and pay the fine.

Books Lending Period

The Lending Books issued for the 2 weeks period and Reference books issued for the overnight only. Reference Books (R) will be issued evening session (after 2.00 pm) on weekdays and books to be returned before 10.00 am of the very next library opening day.

Fines and Payments

A fine of Rs.5.00 per day will be imposed in respect of each lending book borrowed from Faculty of Technology library, if not returned by the due date. A fine of Rs.24.00 per day will be imposed in respect of each book borrowed from Faculty of Technology library, if not returned by the due date. All payments should be made to the Shroff of the Faculty.

Notes:

1. This fine rates will be revised with expanding library collection in Faculty of Technology Library.

2. All payments should be made to the Shroff of the University/Faculty.

10 Sports and Recreation

Activities pertaining to sports and recreation are conducted by the Department of Physical Education. The Department is advised by a sports advisory board, which consists of officials of the department and two academics from each of the faculties. Whenever necessary, external assistance is sought for coaching on part time basis.

Staff of Department of Physical Education

Table 9.1 Staff members information

Designation	**Name**
Director (Actg.)	Mr. P. N. Weerasinghe, B.Com. Sp. (Sri J'Pura), Sports Dip. (Ministry of Sports)
Instructors	Mrs. S. V. K. de Silva, Sports Dip. (Ministry of Sports)
	Mr. K. H. Keerthi Kumara, B.A(Kel)
	Mr. P. K. Sanath Chandana, Teachers Training(Ministry of Education)
	Mr. J.P.A.N.M de Silva

10.1 Our Vision

To socialize a law-abiding and socially productive graduate with the ability of effective leadership qualities and fair decision making, who is physically and mentally well balanced.

There are numerous student sports activities organized by the Department of Physical Education including both indoor and outdoor sports. A gymnasium with training facilities is located in the Wellamadama University Complex for indoor sports and it is open for the students after 10.00 a.m. on weekdays up to 7.00 p.m. The department has well equipped Strength Training Hall to develop the Physical Fitness for specially Sportsmen/women and other students.

10.2 Facilities for Sports

At present, Department of Physical Education provides the facilities for following indoor sports:

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

Outdoor sports facilities are provided to students at Wellamadama University grounds. Following sports facilities are made available free of charge to all students.

- Athletics (Men and Women)

- Hockey (Men and Women)
- Elle (Men and Women)
- Cricket (Men)
- Football (Men)
- Rugger (Men)
- Swimming (Men and Women)
- Baseball (Men)
- Swimming (Men, Women)

There are annual sports events such as Inter-Faculty and Inter-University tournaments. In addition, Sri Lanka University Games (SLUG) is held at a selected University once in three years. Students are able to participate in the World University Games and Asian University Championships, which is held once in two years. At the end of each two years, Colours Award Ceremony is held and those who excel in these sports activities at Inter University tournaments and meets are awarded colours.

The University provides several facilities for those who participate in sports events. Sports goods are freely available to students who participate in Inter University tournaments/meets and also for practice sessions. A subsistence of Rs. 300.00 is paid per day when a student participates in an event held outside the University. For team events, the required clothing is provided to students at a cost of only 20% of the value. For practice sessions of Inter University Championships, the University provides an allowance of Rs.30.00 per day per student to have a nourishment.

We have already started two academic courses for Level II students named "Physical Fitness & Health Management" and "Health Related Physical Fitness and Wellness". Fifteen (15) hours of theory classes and thirty (30) hours of practical classes includes for the first course and sixty (60) hours of practical classes for the second course.

11 Examinations

11.1 Degree Programmes of Faculty of Technology

The details of the requirements to receive Bachelors degrees from the Faculty of Technology are given in the By-Law No. 91-2016 of 2016 given below.

11.2 By-laws

By-Laws made by the Council of the University of Ruhuna, on 16th Feb 2017 under Section 135 of the Universities Act No. 16 of 1978 and its subsequent amendments.

BY-LAWS

1. These By-Laws may be cited as the Bachelor of Technology Degree Programmes By-Law No: 91-2016 of 2016.

2. Subject to these By-Laws, a student shall be awarded **Bachelor of Engineering Technology, Bachelor of Information and Communication Technology and Bachelor of Biosystems Technology Degrees.**

3. Subject to these By-Laws, a student shall be awarded a Degree if he/she has :

3.1 been admitted to the University as a student under Section 135 of the amended section of the Universities Act No. 16 of 1978 or in the case of a student with foreign qualifications referred for admission by the University Grants Commission admitted with the recommendation of the Faculty Board and the approval of the Senate, and

3.2 been a duly registered student of the University, for the period of study as set out in section 4.0, and

3.3 completed the courses of study as prescribed by these By-Laws and Regulations and Rules made there under to the satisfaction of the Senate, and

3.4 passed examinations as prescribed by these By-Laws and Regulations and Rules made there under, and

3.5 successfully completed all projects, seminars, industrial training and other work relevant to the course of study, as may be prescribed in the Rules and Regulations made there under, and

3.6 paid such fees as prescribed for his/her case by these By-Laws and the Regulations and Rules of the University, and

3.7 fulfilled all the above requirements within six academic years from the date of entry to the University provided that it shall be within the power of the Senate to declare for some specified reason that a student is eligible for the award of the Degree at a subsequent occasion.

4. Registration for the Degree Programme

4.1 A candidate admitted to the Degree Programme shall not be permitted concurrent registration for any other fulltime course of study.

4.2 Registration for each academic year of the programme shall be determined in accordance with the Rules and Regulations as laid down by the Faculty.

4.3 A candidate selected for admission shall register to follow course units corresponding to a minimum of 120 credits of the Degree Programme.

4.4 Prescribed fees for registration and examinations wherever relevant shall be paid as determined by the Council of the University (hereinafter referred to as the Council).

5. Programme of Study

5.1 Duration of the Degree programme shall be for a period of not less than four academic years including the period of Industrial Training/Research projects.

5.2 Each academic year will consist of two semesters as prescribed in the Rules and Regulations.

5.3 The course shall consist of Theory Course Units, Practical Course Units and Industrial Project or Industrial Training component.

5.4 A student, during the course of study, shall

5.4.1 attend a specified course of lectures, and

5.4.2 perform specified work for practical/continuous assessments, and

5.4.3 undertake approved projects, industrial training, seminars and other related work as approved by the Faculty.

5.5 The course shall consist of following components of Course Units for each degree programme.

5.5.1 Engineering Technology Degree

5.5.1.1 Engineering Science and Design (ENT)

5.5.1.2 Mathematics, Basic Science & Computing (TMS)

5.5.1.3 Complementary Studies (TCS)

or

5.5.2 Information and Communication Technology Degree

5.5.2.1 Information Technology (ICT)

5.5.2.2 Mathematics & Statistics (TMS)

5.5.2.3 Complementary Studies (TCS)

or

5.5.3 Biosystems Technology Degree

5.5.3.1 Biosystems Technology (BST)

5.5.3.2 Complementary Studies (TCS)

and

5.5.4 English (ENG)

and

5.5.5 Industrial Training

and

5.5.6 Any Foundation Course Units

5.6 A student shall complete a six-month period of Industrial Training, at Institutions/ Organizations recommended by the Industrial Training Centre of the Faculty and approved by the Faculty and shall earn a total of six (06) Credits per six (06) months of industrial training/project.

5.7 A student shall be allowed a maximum of six academic years from the date of registration to complete a four-year degree, excluding periods of absence caused by medical or other valid reasons acceptable to the Faculty and the Senate.

5.8 Under Medical Grounds the Senate may grant permission to extend the duration of study beyond the maximum allowed duration by an amount not exceeding the approved leave on medical grounds.

5.9 Under exceptional circumstances other than Medical Grounds, the Senate may grant permission to extend the maximum allowed duration of study by not more than two additional years on the recommendation of the Faculty.

5.10 Subject to these By-Laws, the Course Units and their syllabi, the mode of evaluation of each Course Unit, examination criteria and schemes of award of Honours shall be prescribed by Rules and Regulations made by the Senate on the recommendations of the Faculty Board.

6. Evaluation and Grading

6.1 Evaluation

6.1.1 The performance of each student in each course unit shall be evaluated by continuous assessment (CA) and/or end-of-semester assessment (ESA) as announced at the commencement of the relevant semester.

6.1.2 End-of-Semester Assessment (ESA)

The evaluation at the end of the semester shall be based on a written examination, practical examinations or any other component as determined by the relevant Department.

6.1.3 Continuous Assessments (CA)

6.1.3.1 The continuous assessment of a students performance shall be based on specified combination of assignments including laboratory work, in-class tests, tutorials, quizzes, presentations, reports, mid-semester evaluations, oral examinations and participation in the course activities.

6.1.3.2 The eligibility of the candidates to sit for ESA is based on the satisfactory attendance (Clause 6.2) for the course unit and by fulfilling the assessment criteria stipulated in the course unit outline sheet for CA.

6.1.3.3 A student who does not fulfil the CA component outlined in section 6.1.3.2 will fail the course unit and receive a grade F.

6.2 Attendance

6.2.1 To be eligible to sit for the examination(s) of a relevant course unit, the minimum requirement of attendance for theory/practical classes, field work and project(s) shall be 80%. Those who do not fulfil this requirement will be given a grade E* for that particular Course Unit. In the case of Industrial Training, attendance is required as prescribed by the Faculty.

6.2.2 In the event if a student fails to maintain at least 40% attendance for each practical course unit of first academic year of the degree programme, he/she will not be allowed to sit for the examination of that particular course unit even as a repeat student and hence he/she has to leave the university.

6.3 Academic Work Load and Class Standing

6.3.1 Academic Work Load

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

6.3.2 Grade Point Average (GPA)

The performance of a student is determined by the Grade Point Average (GPA). The calculation of the GPA shall be based on the summation of Grade Point Values earned

for all course units considered for calculation of the GPA, weighted according to number of credits as per the following formula, where C_i is the number of credits for the i^{th} course unit and GPV_i is the Grade Point Value earned for that course unit and n is the number of GPA course units.

$$GPA = \frac{\sum_{i=1}^{n} C_i \; GPV_i}{\sum_{i=1}^{n} C_i}$$

6.3.3 Semester Grade Point Average (SGPA)

The performance of a student in a given semester is calculated using the above formula (Clause 6.3.2) for all course units (n) registered including non-GPA course units (except for those awarded with academic concessions) in that semester.

6.3.4 Successful Completion of a Semester

A student is considered to have completed a semester successfully only if he/she has achieved a SGPA of 2.00 or above, and has, in that semester no E, E*or F grades and no more than, three grades at the levels of C- , D+ or D.

6.3.5 Cumulative Grade Point Average (CGPA)

The Cumulative Grade Point Average (CGPA), which is calculated using the formula given in section 6.3.2, describes a student's current standing in terms of grade points earned for all GPA course units (n) registered up to a given point of time (except for those awarded with academic concession).

6.3.6 Class Standing

Class standing of a student is determined at the end of Level (II) considering results of level (I) and level (II) examinations based on the Cumulative Grade Point Average (CGPA). All course units including course units with grade C-, D+, D, E, E* and F shall be considered to calculate CGPA.

The following conditions shall be satisfied to fulfill the class standing to register for level (III).

6.3.6.1 CGPA shall not be less than 2.00

6.3.6.2 Successful Completion of each Semester as defined in section 6.3.4.

6.3.6.3 No MC, AC or WH grades are received.

6.3.7 Temporary Registration

If the three conditions under section 6.3.6 are not satisfied a student shall request for a temporary registration for Level III and such request shall be considered at a Faculty Board. If the above conditions are fulfilled at the end of level (III) under temporary registration, the students shall request for a proper registration for Level (III). It is the students responsibility to fulfill the above conditions within the period of temporary registration. Students shall not be qualified to participate in the Industrial Training under the temporary registration.

6.4 Grading

6.4.1 Grades will be allocated based on the performance of a student. The performance of a student shall be evaluated for each course unit as prescribed by the Senate on the recommendation of the Faculty Board subjected to eligibility requirements stipulated in the Rules and Regulations.

6.4.2 The Great Point Value (GPV) earned for a Course Unit, which is counted for Grade Point Average (GPA) shall be expressed by a letter grade on a Four Point Grading System as described below.

Grades	Grade Point Value (GPV)	Notes
A+	4.0	1
A	4.0	
A-	3.7	
B+	3.3	
B	3.0	
B-	2.7	
C+	2.3	
C	2.0	2
C-	1.7	3
D+	1.3	3
D	1.0	3
E,E*	0	3,4,6
F	0	3,5
AC	-	6
MC	-	7
WH	-	8

Note:

(1) Grade A+ signifies superior performance.

(2) Grade C or above is the normal requirement to pass a Course Unit.The maximum grade point accruing to a student repeating a course shall correspond to a grade C.

(3) Any grade below C is not accepted as a pass mark.

(4) A student failing ESA receives a grade E (or E*), and is required to repeat only the ESA component.

(5) A student failing in Continues Assessment (CA) receives an F grade, and must repeat both components CA and ESA.The Continuous Assessment marks shall be carried forward up to a maximum of two consecutive academic years (except the proper attempt) and shall only be replaced with an improvement by reattempting. Improved Continuous Assessment marks shall be eligible for the improvement of overall grade to the highest possible grade of C.

(6) A student who has missed an end-semester examination because of any reason other than medical may appeal with supporting documents to the Dean for a concession within one week from the date of the relevant examination. In case of failing to produce an acceptable reason, a grade of E* will be given. If the given reason is accepted by the Senate on the recommendation of the Faculty Board, a Letter AC will be given and such a student shall be allowed to sit for the next immediate examination and considered as the first attempt.

(7) Grade MC signifies the Concession granted on Medical reasons.

(8) Grade WH signifies the Withheld of Results.

6.4.3 A student who registered for a course unit shall be counted as having completed the proper attempt in the relevant examination irrespective of whether he/she sit for the examination or not at the end of the semester, except for AC or MC.

6.4.4 Industrial Training is a compulsory Course Unit students shall attend as prescribed in the Industrial Training Manual and earn a minimum of Pass-S grade to obtain a Bachelor of Technology Degree. A grade Pass-H indicating a high achievement or a grade Pass-M indicating a mediocre achievement or a grade Pass-S indicating a satisfactory achievement is required for the completion of the Industrial Training course unit. If the industrial training is not completed successfully grade F will be given.Graduation shall be withheld if Industrial Training is not successfully completed by a student.

6.4.5 The mode of assessment and the distribution of weight between continuous assessment and end-semester examination for each course unit shall be determined by the Senate on the recommendation of the Faculty Board.

6.4.6 A student who has missed an end-semester examination because of illness shall appeal with supporting documents to the Dean for a concession within one week from the date of the examination. Letter MC given in such occasion shall require the approval of the Faculty Board. Documents supporting his/her claim for a medical concession should be in accordance with the Internal Circular issued by the University of Ruhuna for submitting Medical Certificates.

7. Requirement for the Graduation

A student shall be deemed to have passed the Bachelor of Technology Degree Examination, if he/she has:

7.1 Completed a minimum of 120 GPA credits including the credits from industrial training course unit.

7.2 Completed any other mandatory requirements prescribed by the Faculty.

7.3 Successfully completed all semesters as stipulated under section 6.3.4

7.4 Obtained a Cumulative Grade Point Average (CGPA) of 2.00 or more.

7.5 Successfully completed mandatory training course units, incentives, foundation course units as prescribed by the Faculty Board with the approval of the Senate.

8. Award of Classes : A student who has satisfied conditions given in Section 07 is eligible for an award of a Class if he/she completes the requirements indicated below within four academic years.

GPA value	Class Awarded
CGPA≥ 3.70	First Class
3.30 ≤ CGPA< 3.70	Second Class (Upper Division)
3.0 ≤ CGPA < 3.30	Second Class (Lower Division)

A student who has not satisfied the eligibility requirements for a Class shall be deemed to be eligible for the award of the degree of Bachelor of Technology on satisfying the minimum graduation requirements.

9. The effective date of the degree shall be the day after the last date of the semester examinations or the viva-voce examination of industrial training, which satisfies the conditions stimulate under section 7.

10. Special considerations

Notwithstanding the above provision, each individual case may be dealt with on the basis of its own merits by the Faculty Board, subjected to approval by the Senate.

11. Revision of By-Law/ Rules and Regulations

11.1 Rules and Regulations under this By-Law may be revised/amended by the Senate as and when necessary.

11.2 All other common Rules and Regulations applicable to Universities in Sri Lanka and to the University of Ruhuna in particular are also applicable to students registered for this degree programme.

11.3 This By-Law may be revised/amended as and when necessary.

12. These By-Laws shall be operative from the academic year 2016/2017 inclusively.

13. Interpretations

13.1 In this By-Law unless the context otherwise requires:

"University" means "the University of Ruhuna, Sri Lanka " as established by the Gazette Notification No. 281/07 dated 24-01-1984.

"Council" means "the Council of the University of Ruhuna", constituted by the Universities Act No.16 of 1978 and amendments thereof.

"Senate" means "the Senate of the University of Ruhuna", constituted by the Universities Act No. 16 of 1978 and amendments thereof.

"Faculty of Technology" or "Faculty" means "the Faculty of Technology, University of Ruhuna".

"Faculty Board" means "the Faculty Board of the Faculty of Technology, University of Ruhuna".

"Dean" means"the Dean of the Faculty of Technology, University of Ruhuna".

"Head of the Department" means the "Head of the Relevant Department of Faculty of Technology where the student is enrolled".

13.2 Any question regarding the interpretation of this By-Law shall be referred to the Council whose decision thereon shall be final and conclusive.

11.3 Verification of Marks

Students are given the opportunity for the verification of marks after releasing results of course units by paying a fee at each semester. Further detials of the process of the verification of marks are available at the faculty office. The final reccommendation that will be made by the committee appointed for the verification of marks will be submitted to the approval of the Senate of the University of Ruhuna.

12 Student Service Facilities

There is a Student Affairs Branch with a Senior Assistant Registrar at the University to look after the needs of the students outside their courses. It is located in the second floor of the administration building. Many services such as registration of students, Mahapola scholarships, bursaries, student hostels and cafeterias are operated by the Student Affairs branch.

In addition, this branch coordinates two other important services, Student Counselling Service and Health Service.

12.1 Counselling Service Centre

The counselling centre is located in the Technology Faculty Complex. Counselling service centre's mission is to provide services and programmes, which promote the personal development and psychological well being of students, and to encourage a university atmosphere which is conducive to growth and which maximizes students' educational attainments. Students have the opportunity to discuss their various mental, social, economical problems or any other matters which they face during their University education. Counsellors, who are Senior academics, offer their assistance, advice and guidance to those students in need. Each faculty has its own group of Student Counsellors. In addition, students also have the opportunity to discuss their problems with other academics.

Senior Student Counsellor of the University
Prof. E. P. S. Chandana

Deputy Senior Student Counsellor of the Faculty
Dr.B.L.Sanjaya Thilakarathne

Student Counsellors of the Faculty of Technology
Dr. A. Milhan Ajward
Dr. (Mrs.) KMW Rajawatta
Dr. EKC Pradeep
Mr.Nuwan Laksiri
Ms. H.M. Navoda N Herath
Ms. Iromi R. Paranavithana
Ms. C.R. Liyanage
Mr.H.G.T.Milinda
Ms. D.S Vithanage
Ms. W.M.C.S. Jayaweera

12.2 University Medical Facilities

The medical center and the Dental Clinic are located in a building close to the Department of Physics. There is an also ayurvedic medical center located near Bachelors Quarters. These centers provides health care to staff and students.

Medical Officers:

University Medical Officers	Dr. A Weerasinghe / Dr. L.G.S Yapa
Dental Surgeon	Dr.(Mrs.) S. Atapattu
Ayurvedic Medical Officer	Dr. M. A. T. T. Wickramasinghe

Every student of the university at the first enrollment must face a medical test. The aim of this test is to determine whether the student has suitable health condition to continue the academic career without difficulties. If a student is found to be suffering from a severe decease, he/she is directed to special clinics in the hospital for treatments. During the academic year, the medical centre is open for treatment for students as well as staff from 8.00 am to 5.00 pm on weekdays. All drugs are free of charge. If a prescribed drug is not available in the clinic, the University will reimburse the expenses.

12.2.1 Medical Certificates

If a student is unable to attend lectures and/or practical classes due to an illness he/she should inform the university medical officer within a week. If a student wishes he/she can get medical assistance from a government or a private doctor. However, the University medical officer should approve the medical certificates issued by them.

12.2.2 Illness During Examination Period

If a student is unable to sit for the exam due to an medical reason, he/she should inform it officially to the Dean or Assistant Registrar of the Faculty immediately by sending a telegram or letter. He/ She should provide the medical certificates within one week, after completing the medical leave. All the medical certificates should be obtained from the University medical officer, Government Hospitals or Consultant doctors. For more information refer the Internal Circular Number 2015/01.

Whenever necessary students should follow the above procedure in producing medical certificate for smooth functioning of their education during stipulated period of study.

12.3 Financial Assistance

There are several financial assistance programmes to help students finance their education when their own family resources are inadequate. At present, students are offered the following financial assistance for their University education:

- Mahapola Higher Education Scholarships
- Student Bursaries
- Endowed Scholarships operated by UGC or University
- Other scholarships

12.3.1 Mahapola Higher Education Scholarships

The University Grants Commission sends application forms to all University entrees to apply for this scholarship. The student should send the completed forms to the University Grants Commission. The student's parents income, the number of siblings studying under 18 years of age, the distance from his/her home to the university and the student's rank at district level are considered when granting the scholarship. A merit scholarship is also granted according to student's merits. Amount of money paid for these two scholarships is given in the table below:

Merit scholarship	Rs.5050.00	Per installment
General scholarship	Rs.5000.00	Per installment

Recipients are entitled to maximum 10 installments per academic year for both Mahapola and Bursary scheme .

12.3.2 Bursaries

The students who are not granted Mahapola scholarships are able to apply for bursaries offered by the University. The University calls applications for student loans from University entrees. Family income, the number of siblings studying under 18 years of age and the distance from his/her home to the University are considered when granting the bursaries.

Full student bursary	Rs.4000/=	Per installment
Half student bursary	Rs.3900/=	Per installment

12.4 Hostel Facilities

At present, the University supplies hostel facilities only for a limited number of students. However, further expansion of this facility is envisaged. First year and Final year students are given the priority. These hostels are looked after by a team consists of Wardens and Sub-wardens. A few university-own houses and rented houses as well are used as students' hostels. The tables below show details of currently available hostel facilities. At the new site at Kamburupitiya, hostel facilities could be provided for 800 students after the completion of two new hostel buildings.

Category	Hostel	Number of Students
Bikshu	Walawwatta	90
Male	Meddawatta	300
	Eliyakanda (old)	80
	Eliyakanda (new)	396
Female	Wellamadama I	92
	Wellamadama II	424
	Wellamadama III	416
	Pamburana II	80
	Eiyakanda (old)	180
	Eliyakanda (new)	396
	Rented House	30

Accommodation facilities are given according to the student ratio in the Faculties. A monthly rent of Rs. 50/= is charged from each student for hostels.

12.5 Miscellaneous Facilities

- **Cafeterias (for students & Staff)**
  There are three cafeterias located in the Wellamadama University Complex.
- **Shops**
  - The 'World University Service' maintains a bookshop (WUS Book Shop), which stocks stationary goods.
  - The University also maintains a co-operative store (SANASA) in university premises, and daily provisions can be bought from it.
  - Facilities of Barbour Saloon and Shoe repair are also available inside the university.
- **Monthly Season Tickets**
  Ruhuna University students are able to buy monthly season tickets at concessionary rates for the train service and for the public bus service.
- **Postal Service**
  Ruhuna University post- office is located opposite to the main entrance gate. It is open from Monday through Saturday from 8.00 am to 5.00 pm.
- **Banks**
  Branches of Bank of Ceylon and People's Bank are located at the University premises. The usual banking hours apply to these branches.

13 Student Unions and Societies

13.1 Technology Faculty Students' Union

According to the amended University act of 1988, Section 26, students of each faculty can form a Faculty Union comprised of all students of the faculty. The main objective of this union is to promote academic actions, to safeguard the rights of the student population, to work for the advancement and welfare of the students and the faculty.

13.2 Student Societies

Students of the Faculty could establish Student Societies with the recommendation of the Faculty board and the Senate and the approval of the Council. Each Student Society has to operate according to the constitution of the Society approved by the Council. Student shall prepare a constitution following the general guidelines approved by the University.

Interested Students shall consult relevant Academic Staff members for more details. The Senior Treasure and Patrons of any Student Society shall be Senior Academic staff members of the Faculty.

14 Fees

14.1 Fees Levied for Registration for a Degree Programme

Following table provides the details of fees to be paid for different activities by each undergraduate on registration for a degree programme.

Degree Programme	Fees per Level	Amount (Rs.)
Undergraduate	Registration fee:	900.00
	B.Tec. Degree - Level I	450.00
	B.Tec. Degree - Level II	200.00
	B.Tec. Degree - Level III	200.00
	B.Tec. Degree - Level IV	200.00
	Medical fee*	50.00
	Technology deposit	100.00
	Library deposit	100.00
*Should be paid at the beginning of every Level		

Any repeat student who wants to follow a relevant Theory Course Unit for another occasion may follow it after making a payment of Rs.250.00 per course Unit, only if the Faculty Board approval is granted.

14.2 Examination Fees

No examination fee is levied from all undergraduates, who are sitting for any examination for the first time. Students, who sit for examinations more than once, will have to pay an examination fee as lay down by the university. Information on present examination fees is listed below.

All theory course units		- per credit Rs. 20/=
All practical course units		- per credit Rs. 30/=
All combined course units		- per credit Rs.25/=

15 Career Guidance Unit

Career for undergraduates in Universities was recently recognized as a matter of policy by the Government of Sri Lanka. At the University of Ruhuna, the Career Guidance Unit was set up in March 2000 to provide Career Guidance Services to the undergraduates. Since then, the unit has implemented various programmes to make the undergraduates aware of the employment opportunities available, the professional qualities expected for responding to the job market need. The unit wishes to build up continuous links with the private sector as well as the government institutions to facilitate productive interaction between the undergraduates and such institutions. .

15.1 Staff of Career Guidance Unit

This unit comprises of a Director, Faculty Career Advisors and Career Guidance Counselors as mentioned below.

Director	Mr. A.C. Karunaratna / Senior Lecturer Tel: Office: 041 22222681 Ext: 2132 Mobile: 071 6054017 E-mail: acruhuna@gmail.com
Career Guidance Counselor	Mrs. Sujeewa Dilrukshi Vidanagamage BA (Hon), MA (Sociology), PGD (Counseling) Dip.in Coun. (IPC), MPC Mobile: 071 4475666 E mail: Email: sujeewapt@gmail.com
	Mrs. Pubudu Mallawarachchi BSC (Hon) (Ruhuna), Dip in Counseling (Ruhuna) Industrial Training (Korea) Mobile: 071 8359365 E-mail: bpkcgu@gmail.com (Assigned to Fac. of Technology)
	Ms. R.M.A.S. Rathnayaka BA (Image Art), Dip in Career Guidance Dip in Photography Mobile: 071 047 3119 Email : anushashamali@gmail.com
Computer Application Assistant/Clerk	Mr. N.B. R. Madhushanka
Office Assistant	Mr. R. Wasantha

Faculty Career Advisors

Faculty of Agriculture:	Mrs. K.N.N. De Silva / Senior Lecturer Department of Agricultural Economics Faculty of Agriculture Email: nadee@agecon.ruh.ac.lk Mobile : 071 7553936
Faculty of Engineering:	Ms. S.N. Malkanthi/ Senior Lecturer Department of Civil and Environmental Engineering Faculty of Engineering Email: snmalkanthi@cee.ruh.ac.lk Mobile: 077 2869264 E-mail: sandika@agecon.ruh.ac.lk
Faculty of Fisheries and Marine Sciences & Technology	Dr. P. N. Ranasinghe / Senior Lecturer Department of Oceanography & Marine Geology Faculty of Fisheries and Marine Sciences & Technology Email: nalakaranasinghe@hotmail.com Mobile : 071 8425475
Faculty of Management & Finance	Mr. A.G. Deepal / Senior Lecturer Department of Accounting and Finance Faculty of Management & Finance Email: deepalguru@gmail.com Mobile: 071 2168524
Faculty of Medicine:	Dr. Avindra Jayawerdeena / Senior Lecturer Department of Medical Education & Staff Development Unit Faculty of Medicine Email: avindrajaya@gmail.com Mobile: 077 0530249
Faculty of Science	Dr. K.K.G.U. Hemamali / Senior Lecturer Department of Botany Faculty of Science Mobile: 071 8209489 Email: upekshahe@yahoo.com
Faculty of Humanities and Social Sciences	Mr. Sumudu Walakuluge Department of Public Policy Mobile: 071 6362036 Email: walakulugeslfs@gmail.com

16 Other Information

16.1 The Cultural Centre

This center functions in collaboration with the Ministry of Cultural Affairs. It consists of an Aesthetic Unit and a Research Unit.

Aesthetic Unit helps to promote aesthetic sensitivity, creative skills among the university population. The unit conducts classes on oriental music, western music, violin, dancing, cinematic study, literacy efficiency, drawing and sculpting from 4.00 p.m. to 6.00 p.m. on weekdays and from 9.00 a.m. to 4.00 p.m. at weekends. Research Unit researches and conserves the regional cultural features and heritage of national importance. It is further expected to undertake activities to conserve the regional folk arts and folklore, to collect and conserve the cultural features endemic to this region, to publish classical articles and make documentary films on the traditional performing arts of the South and the artistes of the South.

Prof. Jayantha Amarasinghe officiates as the coordinator of the center and Mr. Mahinda K. Udawela who has been appointed by the Cultural Ministry functions as Cultural Officer.

16.2 Resource Centre for Modern Languages

Resource Centre for Modern Languages was established in April 2002 with the aim to provide students with opportunities to study various languages other than "Sinhala" and "English". The activities of this centre are (coordinated & looked after by) a committee of academics, which includes a Director (Dr.A.S.Ruhunuhewa) and one representative from each Faculty of the University.

Presently, the Language centre conducts classes an the languages of French, German, Japanese, Tamil and Swedish for students with the help of resource persons available in the University academic community.

16.3 Employment opportunities for graduates

16.3.1 Temporary Demonstrator

Almost all Departments recruit a considerable number of students as Temporary Demonstrators on completion of their final examination. These assignments normally last for three months up to two years. The selection is based on their performance at examinations as well as in the classes. Special attention is given to satisfactory attendance at lectures and practical classes and performance at English Examinations conducted by the English Language Teaching Unit of the University.

16.3.2 Research Assistantships

Graduates with satisfactory performance at academic programmes would have opportunities to obtain Research Assistantships depending on the facilities and grants available in different departments of the faculty. A limited number of Research Assistants will be allowed to proceed for postgraduate degrees such as M.Phil. and Ph.D.

17 University Administration

17.1 Administrative Officers of the University

Registrar
Mrs. P. S. Kalugama, *B.A. (Econ) (Sp.) Hons. (SJP), M.A. (Edu) London, UK, MBA (RUH)*

Bursar
Mr.A.M.A.Siriwardena, B.Sc. (SJP), ICASL (Inter Mediate)
Bursar

Administrative/ Finance Officers of Wellamadama Complex

1. **Legal & Documentation**
   Mr. G.L.Erathna, LL.B. (Sri Lanka) Attorney-At-Law, P.G. Dip. in Conflict Resolution (CMB)
   Deputy Registrar (Legal & Documentation)

2. **General Administration**
   Mr. E. G. Ajith Dhammika
   Assistant Registrar

3. **Examinations**
   Mrs. C. Seneviratne, B.Sc. (General) Hons. (RUH), PDBA (RUH), Dip. in English (CMB)
   Deputy Registrar

4. **Non Academic Establishments**
   Mrs. K. G. C. A. Bandarathilake, B.Sc. Management (Public) (Sp.) Hons. (SJP), ICASL (Inter Mediate), Executive Dip. in Accounting & Finance Part I (ICASL)
   Senior Assistant Registrar

5. **Academic Establishment**
   Mrs. H. G. N. Devika, B.A. (KLN)
   Senior Assistant Registrar

6. **Distance and Continuing Education unit**
   Mrs. G. N. P. Mallika
   Assistant Registrar

   Mrs. E.A.S.M Perera,
   Assistant Bursar

7. **Salaries & Payments**
   Ms. K.V.R.Vidyaratne, B.B.A. (Sp.) Hons (RUH), CBA (ICASL), MAAT, Dip. in English for Employment (RUH)
   Senior Assistant Bursar

8. **Accounts**
   Mr. D.L.R.De Zoysa
   Assistant Bursar

9. **Supplies**
   Ms. B. H. Chintha, B.Com. (Sp.) Hons. (KLN), PDBS (RUH), Dip. in English for Employment (RUH)
   Assistant Bursar

10. **Internal Audit**
Mr. O. V. L. P. Anura, BBA (Sp.) Hons. (RUH)
Senior Assistant Internal Auditor

Mr. S.W. Kodithuwakku, B.Com. (Sp.) (RUH), PG Dip. in ICASL
Senior Assistant Internal Auditor

11. **Library**

Ms.G.A.J.Hemmali
Senior Assistant Registrar (Library Service)

Mr. C.P.K. Edirisinghe, B.A. (Stat) Hons. (SJP), PDBA (RUH)
Senior Assistant Registrar (Library Service)

12. **International Affairs Unit & Internal Quality Assurance Unit**
Mrs. M. I. Dilhani, B.Sc. Agric.
Assistant Registrar

13. **Student Affairs**
Ms. P. N. N. Wickramasinghe, B.B. Management(HR) Special
Assistant Registrar

14. **Security Section**
Mr. H.N. Dias
Chief Security Officer

15. **Physical Education**
Mr. P.N.Weerasinghe, B.Com (Sp.) (SJP), Dip. in Sports (School of Sports)
Director of Physical Education

15. **Works Engineer**
Mr.S. Diyunuge,B.Sc. (Eng.) Hons. (MRT), PG. Dip. (BSE), MIES, AMIESL

Administrative Officers of Faculties

1. **Faculty of Technology**
Ms. Rasika Lakmali Hettiarachchi , B.B.A.(Finance)Sp. (UOC), Business Level (CASL)
Assistant Registrar

Mr. Romesh Chathuranga Ketipearachchi , B.Sc.(Accountancy)Sp. (Sri J'), Strategic Level I (ICASL)
Assistant Bursar

2. **Faculty of Humanities and Social Sciences**
Mr. P. A. Piyal Renuka B.A. Statistics (SJP), P.G. Dip. in Comty Devt (CMB), PDBA (RUH)
Senior Assistant Registrar

3. **Faculty of Science**
Ms.K.D.De.S. Jayasekara, B.Sc.(Env. Science)Sp.(COL.), M.Sc.(Natural Resource Management)(PDN)
Assistant Registrar

4. **Faculty of Management & Finance**
Mr. K. G. Nalintha Kumara
Assistant Registrar

5. **Faculty of Fisheries & Marine Sciences and Technology**
Mrs. D.M.H.C. Dasanayake, B.Sc. Hons. in Business Information Technology (Uni. of Greenwich)
Assistant Registrar

5. **Faculty of Graduate Studies**
Mr.W.W.Anura,B.A. Hons. (PDN), M.A. (CPDS) Tribhuwan, Nepal, &Dip. in English for Employment (RUH), Dip. in Psychological Counseling (RUH)
Senior Assistant Registrar

6. **Faculty of Agriculture**
Mrs. S.K.K. Mudalige, B.Sc. Agric. Hons. (RUH), M.Sc. (PDN), Certificate in Human Resource Management (Massey), MBA (RUH)
Senior Assistant Registrar

7. **Faculty of Engineering**
Mrs. G.H.C. Nadeeshani, B.Sc. HRM (Sp.) Hons. (SJP), CIMA (Final)
Assistant Registrar

8. **Faculty of Medicine**
Mr. L. Isuru Kalpage, B.Sc. (Finance) (Sp.) Hons. (SJP), Intermediate Level (ICASL)
Senior Assistant Registrar

Student Achievements

Mr. K.T. Methdasun Sandamal, won a gold medal at Bangkok IPITEx 2019

Free style dancing team won the 1st place at IFDLC -2018

Ms.Chamini Premathilaka on being selected to volunteer abroad for a life changing experience in Italy for the project EDUChange

Students participated in Rush Coder Competition 2018

Traditional Dancing team participated in IFDLC -2018

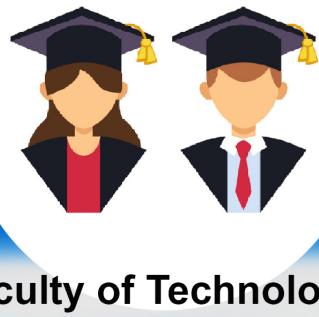
Expected Attributes of Ruhuna Technology Graduates

Lifelong Learning

Knowledge

Research

Invention & Innovation



Sustainability

IT Skills

Technology

Faculty of Technologhy

Attitudes

Ethics

Soft Skills

Faculty of Technology, University of Ruhuna, Matara
URL:http://www.tec.ruh.ac.lk/