



Faculty of Technology
Wayamba University of Sri Lanka
Kuliyapitiya

HANDBOOK
FOR
ACADEMIC YEAR 2015/2016
ACADEMIC YEAR 2016/2017
ACADEMIC YEAR 2017/2018

The handbook provides information about the University, services, facilities, policies, performance evaluation criteria and by-laws etc. The information, statements and guidelines contained herein are subject to continued review and evaluation by the relevant officials of the University and its contents are subjected to change without prior notice. The University reserves the right to modify, amend or revoke such policies, procedures, statements and guidelines without prior notice or obligation. In addition to the handbook, you are strongly advised to continuously refer any updated circulars and other notices for updates and clarifications.

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CONTENTS

Title	Pages
1. Wayamba University of Sri Lanka	1
1.1 The University Crest	1
1.2 Vision and Mission of the University	1
1.3 University Song	2
1.4 Introduction	3
1.5 Location of the University	3
1.6 Officers of the University	4
1.7 Contacts of the University	5
1.7.1 Postal Addresses	5
1.7.2 Telephone and Fax Numbers	6
1.7.3 Electronic Mail/Web Addresses	6
2. Faculty of Technology	7
2.1 Vision and Mission	7
2.2 Officers of the Faculty of Technology	7
2.3 Non-Academic Staff of the Dean's Office	8
2.4 History	8
2.5 Graduate Profile	8
2.6 Accreditation and Quality Assurance of Degree Programmes	8
3. The Bachelor of Engineering Technology Honours Degree Programmes offered by the Faculty of Technology	9
3.1 Orientation & Intensive Programmes	9
3.2 Selection of a Specialization Area	9
3.3 Structure of the Bachelor of Engineering Technology Honours Degree Programme	10
3.3.1 Programme of Study	10
3.3.2 Credit Value of a Course Unit	10
3.3.3 Evaluation of Course Units	11
3.3.4 Absence for Continuous Assessments	11
3.3.5 Bachelor of Engineering Technology Honours in Construction Technology Degree Programme	11
3.3.6 Bachelor of Engineering Technology Honours in Electrotechnology Degree Programme	14
3.3.7 Bachelor of Engineering Technology Honours in Material and Nano Science Technology Degree Programme	17
3.3.8 Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology Degree Programme	22
4. Academic Regulations and Procedures	26
4.1 General Registration	26
4.2 Registration for Course Units	26
4.2.1 Add and Drop of Course Units	26
4.2.2 Renewal of the Registration for Course Units	26
4.3 Registration for Semester End Examinations	27
4.4 General Academic Calendar	27
4.5 Attendance Policy	27
4.6 Repeat Students	28
4.7 Procedure for submitting Medical Certificates	28
4.7.1 Illness during Academic Activities and submission of Medical Certificates	28
4.7.2 Illness during Examination Period and submission of Medical Certificates	28
4.8 Deferment from Academic Programme	29
5. Evaluation of Performance	30
5.1 Criteria for Evaluation of Performance	30

5.1.1	Continuous Assessments	30
5.1.2	Semester End Examination	30
5.2	Academic Work Load	30
5.3	Grade Point Average	30
5.4	Semester Grade Point Average	30
5.5	Successful Completion of a Semester	31
5.6	Cumulative Grade Point Average	31
5.7	Academic Progression	31
5.8	Provisional Registration	31
5.9	Grades and Grade Point Values	31
5.10	Percentage Marks Ranges for the Grades	33
5.11	Award of the Degree	33
5.11.1	Requirements for the Graduation	33
5.11.2	Award of Classes	33
5.12	Effective Date of the Degree	33
5.13	Maximum Period for the completion of the Degree	34
5.14	Award of Gold Medals	34
5.14.1	Conditions for “The Abans Engineering Gold Medals”	34
5.14.2	Conditions for “Senior Professor C.A.N. Fernando Gold Medal”	34
5.15	Re-scrutinizing of Marks and Grades of Undergraduates	34
5.15.1	Policy Guidelines	34
5.15.2	Procedure	35
6.	Department of Construction Technology	36
6.1	Expected Graduate Attributes	36
6.1.1	Knowledge	36
6.1.2	Skills	36
6.1.3	Values	37
6.2	Head of the Department	37
6.3	Members of the Academic Staff	37
6.4	Members of the Non-Academic Staff	37
6.5	Facilities	38
6.5.1	Materials and Geotechnical Laboratory	38
6.5.2	Surveying and Highway Laboratory	39
7.	Department of Electrotechnology	40
7.1	Expected Graduate Attributes	40
7.1.1	Knowledge	40
7.1.2	Skills	40
7.1.3	Values	40
7.2	Head of the Department	41
7.3	Members of the Academic Staff	41
7.4	Members of the Non-Academic Staff	41
7.5	Facilities	41
7.5.1	Electrical and Electronics Laboratory	42
7.5.2	Electrical Machines and Communications Laboratory	42
7.5.3	Measurement Laboratory	43
7.5.4	Computer Laboratory	43
8.	Department of Nano Science Technology	44
8.1	Expected Graduate Attributes	44
8.1.1	Knowledge	44
8.1.2	Skills	44
8.1.3	Values/ Attitudes	45
8.2	Head of the Department	45
8.3	Members of the Academic Staff	45
8.4	Members of the Non-Academic Staff	46
8.5	Facilities	46
8.6	Postgraduate and Other Programs	47
9.	Department of Mechanical and Manufacturing Technology	49
9.1	Expected Graduate Attributes	49

9.1.1	Knowledge	49
9.1.2	Skills	49
9.1.3	Values	50
9.2	Head of the Department	50
9.3	Members of the Academic Staff	50
9.4	Members of the Non-Academic Staff	51
9.5	Facilities	51
9.5.1	Physics Laboratory	51
9.5.2	Drawing Office	51
9.5.3	Manufacturing Laboratory	51
9.5.4	Workshop Units	51
9.5.5	Students' Project Room	52
9.6	Postgraduate and Other Programs	52
10.	Facilities available to the students	53
10.1	Department of English Language Teaching	53
10.1.1	Course Units offered by the Department of English Language Teaching	53
10.1.2	Members of the Academic Staff	53
10.2	Library	54
10.2.1	Staff of the Library	54
10.3	Information and Communication Technology Center	55
10.3.1	Staff of the Information and Communication Technology Center	55
10.4	Career Guidance Unit	55
10.4.1	Staff of the Career Guidance Unit	56
10.5	Department of Physical Education	56
10.5.1	Staff of the Department of Physical Education	56
10.6	University Medical Center	57
10.7	Facilities for Entrepreneurship Skill Development	57
10.8	Counselling Service	57
10.9	Financial Assistance	57
10.9.1	Mahapola Higher Education Scholarships	57
10.9.2	Bursaries	58
10.10	Accommodation Facilities	58
10.11	Cafeteria	58
10.12	Monthly Season Tickets	58
10.13	Banks	59
11.	Student Unions and Societies	60
11.1	Student Union of the Faculty of Technology	60
11.2	Student Societies	60
11.2.1	Registration of a Society	60
11.2.2	Renewal of Registration	60
11.2.3	Legal Status of a Society	61
11.2.4	Any change of s Society	61
11.2.5	Accounting Procedure of a Society	61
12.	University Administration	61
12.1	Administrative Officers of the University	61

1. Wayamba University of Sri Lanka

1.1 The University Crest



The crest of the Wayamba University of Sri Lanka contains six cultural symbols of national significance, namely a lotus, a book, a lamp, two sheaves of paddy, a conch shell and a lion with a sword in hand on top of it.

The **lotus** which adorns the moon stones of Sri Lanka is an acclaimed symbol of purity and serenity. Above the lotus is a **book** which is a manifest representation of knowledge that leads the University fraternity to an enlightened state of mind, a fact signified by the lamp placed on it with three bright burning flames.

The **lamp** is designed in such a way as to represent the top most flame in the shape of a **conch shell**. From one angle; it looks like a flame, which is symbolical of the light of knowledge. And from another angle, it is conch shell. What does the conch shell in the crest depict? It is firstly device of communication and secondly it implies fame and repute – an essential aspect in the university context. For universities as seats of learning and scholarship are meant to be known to the outside world and its glory should spread far and wide. The combination of flame of light and the conch shell signifies this particular attribute of university education.

The **two sheaves of paddy** represent prosperity. Prosperity is an extremely wide term which encompasses many shades of meaning. It may be economic prosperity, to begin with. But, it could also encompass in its folds various aspects of prosperity, in a wide sense, namely social, cultural and even scientific and technological prosperity. For prosperity, in this particular context is a term of national significance. There is yet another meaning attached to the two sheaves of paddy since it is identical of the agrarian society which is prevalent in the North Western Province of Sri Lanka.

Though our University is situated in the North Western Province, it is part and parcel of the national system of education. Its identity is significantly national rather than regional or provincial.

The **lion** at the top of the crest is an articulate expression, that ours is a University of national magnitude. Our University, as any other University of Sri Lanka, is the pride of the nation-a fact the lion on the top of the logo symbolizes

1.2 Vision and Mission

Vision

To be a leading higher educational institute in Sri Lanka recognized for its outstanding academic programmes, innovative research, scholarship and outreach activities with the ultimate target of serving the mankind

Mission

To develop highly qualified and responsible citizens who contribute to the improvement of society and sustainable development of the country

1.3 University Song

ශ්‍රී ලංකා වයඹ දිසා
සුජාත ධරණි තලේ
සුරංජතු
සරසවි දිනිති අපේ
අරුන්ධතී
තරුව ලෙසේ - ලංකා අම්බරයේ

කලිකල් පැරකුම් කිවි නැණ පහනින
සුමහුල් සමිඳුන් සිහවිරු වදනින
හැම කල් රංජිත වයඹ යසෝ රැස
උරුමය වේ අපගේ
තුරුලිය මල්පල සම්පත වොරදන
කෙත්වතු අස්වනු ඉසුරින් සපුරන
නෙක් විදු නැණ දහරින් දැය පොබයන
මෙහෙවර වේ අපගේ

ශ්‍රී ලංකා වයඹ දිසා
සුජාත ධරණි තලේ
සුරංජතු
සරසවි දිනිති අපේ
අරුන්ධතී
තරුව ලෙසේ - ලංකා අම්බරයේ

ලෝකය නම් වූ මහ ගත පෙරළා
ඉසිවර නැණ සමුදා සදාලන
සරසවි මවුනි අපේ
නව වින්තනයේ උල්පත් මතු කොට
නව ලෝකය වෙත පියවර තබනුව
විවරණ දුන මැනවි ///

ප්‍රබන්ධය - ඩබ්ලිවු. ඒ. අබේසිංහ

1.4 Introduction

The Wayamba University of Sri Lanka was established with effect from 01st of October, 1999 for the purpose of providing, promoting and developing higher education in the branches of learning of Applied Sciences, Business Studies & Finance, Agriculture & Plantation Management and Livestock, Fisheries & Nutrition. Accordingly, four Faculties and 16 Departments of Study were assigned to the Wayamba University of Sri Lanka by the Government Notification in the Extraordinary Gazette No. 1093/8 issued on Tuesday, 17th of August, 1999.

new department has been established in the year 2016 in the Faculty of Agriculture & Plantation Management under the name of Bio-systems Engineering to offer a new degree programme in Bachelor of Bio Systems Technology (BBST) and two new departments have been established in the year 2016 in the Faculty of Applied Sciences under the names of Engineering Technology and Nano Science Technology.

After that, by two Extraordinary Gazettes of the Government No.1954/43 issued on 19th February 2016 and No. 2037/17 issued on 21st September 2017, the Faculty of Medicine with 15 departments and Faculty of Technology with 04 departments have been added to the Wayamba University of Sri Lanka, respectively. At present, there are 06 faculties in the Wayamba University of Sri Lanka.

1.5 Location of the University

Wayamba University is located at three premises - Kuliypitiya, Labuyaya and Makandura with easy access from Colombo, Kurunegala, and Kandy. These three locations are situated in an ideal environments surrounded by food and agribusiness, and industrial zones.

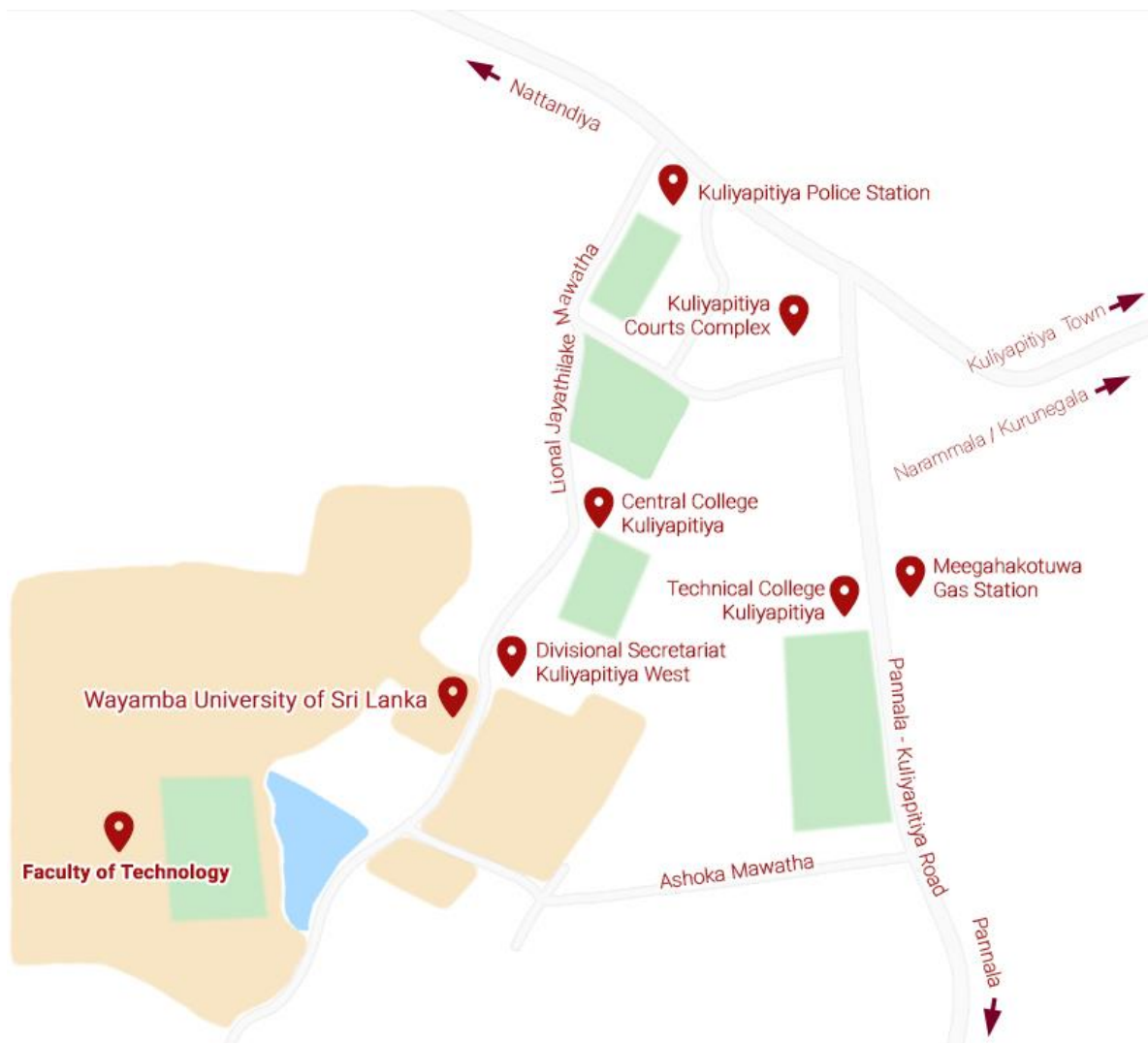


Fig. 1.5 Direction Map to Kuliypitiya premises of the Wayamba University of Sri Lanka

1.6 Officers of the University

Acting Vice-Chancellor

Dr. Sanjeewa Bowatte (Actg.)
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Deans of Faculties

Faculty of Agriculture and Plantation Management

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Faculty of Business Studies and Finance

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Faculty of Livestock Fisheries and Nutrition

Prof. B.P. A Jayaweera
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Faculty of Medicine

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Associate Member, Ceylon College of Physicians
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Faculty of Technology

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Registrar

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Bursar

Mr. D.A.U. Dharmadasa

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Acting Librarian

Mr. W. Punyawardena

B.A. in LIS (Kelaniya), PG Diploma in LIS (Kelaniya), ALA(SL), FLA(SL), Chartered Librarian, Master degree in Library and Information Science (UOC)

Tel: +(94) 37-2283169

Email: librarian@wyb.ac.lk

1.7 Contacts of the University and Faculties**1.7.1 Postal Addresses**

The Main Administration, Faculty of Technology, Faculty of Applied Sciences and Faculty of Business Studies and Finance of the Wayamba University of Sri Lanka are located in Kuliyapitiya premises. The Faculty of Medicine is located at Labuyaya. The Faculty of Livestock, Fisheries and Nutrition and Faculty of Agriculture and Plantation Management are located in Makandura premises.

University Address:

Wayamba University of Sri Lanka, Lional Jayathilake Mawatha, Kanadulla, Kuliyapitiya, 60200, Sri Lanka.

Email: info@wyb.ac.lk

Faculty Addresses:

Name of the Faculty	Address
Faculty of Applied Sciences	Wayamba University of Sri Lanka ,
Faculty of Business Studies and Finance	Lional Jayathilake Mawatha, Kanadulla, Kuliyapitiya 60200
Faculty of Technology	Sri Lanka.
Faculty of Medicine	Wayamba University of Sri Lanka , Labuyaya, Kuliyapitiya 60200

	Sri Lanka.
Faculty of Agriculture and Plantation Management	Wayamba University of Sri Lanka , Makandura, Gonawila, 60170
Faculty of Livestock, Fisheries and Nutrition	Sri Lanka.

1.7.2 Telephone and Fax Numbers of University and Faculties

	Telephone	Fax
Administration Complex	+(94) 37 22 81412 +(94) 37 22 81414 +(94) 37 22 83614	
Faculty of Agriculture and Plantation Management	+(94) 31-2299875	+(94) 31-2299248
Faculty of Applied Sciences	+(94) 37-2283623	+(94) 37-2281663
Faculty of Business Studies and Finance	+(94) 37-2284215	+(94) 37-2284215
Faculty of Livestock, Fisheries and Nutrition	+(94) 31-2299870	+(94) 31-2299870
Faculty of Medicine	+(94) 37-3139796	-
Faculty of Technology	+(94) 37-3138054	-

1.7.3 Electronic Mail/Web Addresses

The University mail domain is wyb.ac.lk. E-mail address of the Faculty of Technology is dean_office@wyb.ac.lk. The e-mail addresses of the academic staff and other officers are available in the university website: <http://www.wyb.ac.lk>.

2. Faculty of Technology

The Faculty of Technology of the Wayamba University of Sri Lanka was established with effect from 21.09.2017. The Faculty is located at Kuliyaipitiya Premises of the University and consists of four Departments of Studies. This Faculty was established as the sixth Faculty of the Wayamba University of Sri Lanka. Phase 1 of the proposed new building complex has been constructed at Kuliyaipitiya Premises of the University and some of the academic activities are conducted at the new building. Rest of the academic activities and administration activities are still conducted at the premises of Faculty of Applied Sciences.

The Faculty conducts the Bachelor of Engineering Technology Honours (BETHons) degree programme in the following four specialization areas.

- i) Bachelor of Engineering Technology Honours in Construction Technology (BETHons in Const Tech)
- ii) Bachelor of Engineering Technology Honours in Electrotechnology (BETHons in Electrotech)
- iii) Bachelor of Engineering Technology Honours in Material and Nano Science Technology (BETHons in Mat & Nano Sc Tech)
- iv) Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology (BETHons in Mech & Mfg Tech)

Four-year BETHons degree programmes are conducted in English medium. Engineering Technology degrees are well-recognized around the world and designed to produce Technologists who fit in between Engineers and Technicians. Technology degree programmes will be internationally accredited according to the Sydney Accord.

The Engineering Technology degree programmes offered by the Faculty of Technology will also be evaluated for granting the accreditation under the Sydney Accord in due course by the Institution of Engineers Sri Lanka. The curriculums of the degree programmes have been developed to satisfy the requirements specified in the Accreditation Manual of the Sydney Accord and Sri Lanka Quality Assurance Frame Work. All four degree programmes have been designed to meet the requirements of SLQF Level 6.

2.1 Vision and Mission of the Faculty

Vision

To be the centre of excellence in technology education, innovations, and research and developments through outstanding academic programmes.

Mission

To produce highly qualified graduate technologists capable of creating innovative, viable, sustainable and ethical solutions to the real-world technological problems.

2.2 Officers of the Faculty of Technology

Dean

Dr. A.M.N. Alagiyawanna (Actg.)

B.Sc. (Eng.) (Hons.) (Moratuwa), M.Eng. (AIT), D.Eng. (Nagaoka), C.Eng., MIESL, MSLGS,
Email: deanfot@wyb.ac.lk

Assistant Registrar

Ms. E.M.S.S.K. Ekanayake,

B.Sc. (Insurance & Valuation) (WUSL), MBA (WUSL)

Email: arfot@wyb.ac.lk

2.3 Non-Academic Staff of the Dean's Office

Management Assistant

Ms. N.K.D.N. Lakmali
B.Sc. Business Administration (General) (SJP)

Ms. C.H.M.S.D. Chandrasekara

Works Aide

Ms. D.S.L.K. Amarapala

Mr. W.N.A.S.S. Weerasinghe
Diploma in Business Management, Dip. in IT (WUSL)

2.4 History of the Faculty of Technology

Having identified the need to expand technology education, the Government of Sri Lanka introduced the new Technology stream at GCE A/L from the year 2013 onwards. The Government intended to create a higher educational pathway at university level for these students. Therefore, the University Grants Commission (UGC) requested the universities to formulate new degree programs in technology streams for the enrolment of A/L Technology stream students in mid-2016. In response to this, the Faculty of Applied Science of Wayamba University of Sri Lanka prepared a two degree programmes named Bachelor of Engineering Technology and Bachelor of Engineering Technology in Nano Science Technology and approvals of the University authorities and the University Grants Commission were received. The first batch of students was enrolled in December 2016 for following the Bachelor of Engineering Technology (Honours) degree programmes in above two specialization areas.

Thereafter, by Extraordinary Gazette of the Government No. 2037/17 issued on 21st September 2017, the Faculty of Technology with four Departments was established in the Wayamba University of Sri Lanka. Those four departments of studies are:

- i) Department of Construction Technology
- ii) Department of Electrotechnology
- iii) Department of Nano Science Technology
- iv) Department of Mechanical and Manufacturing Technology

2.5 Graduate Profile of the Faculty of Technology

The graduate of the Faculty of Technology are capable of applying knowledge of basic sciences and engineering fundamentals in order to provide innovative, viable, sustainable and ethical solutions to real-world technological problems. They are expected to be technically competent to use modern engineering tools with independent and lifelong learning, and are motivated to engage in research and development with intellectual, practical and transferable skills, and values.

2.6 Accreditation and Quality Assurance of Degree programmes

The Faculty Quality Assurance Cell (FQAC) of the Faculty of Technology has also been functioning since 2019 to facilitate implementation of Quality Assurance related policies of the University and University Grants Commission.

The Bachelor of Engineering Technology degree is placed at level 6 of the Sri Lanka Qualification Framework (SLQF) and complies with the SLQF Level 6 Qualification Descriptor, Level Descriptor and Volume of Learning for a minimum 120 credits. Total duration of the degree programme is four academic years. Accordingly, the Bachelor of the Engineering Technology degree programme is recognized as an Honours degree.

The University Grants Commission has decided that the Bachelor of Engineering Technology Honours degree programmes to be recognized and accredited by the Institution of Engineers Sri Lanka (IESL), according to the Sydney Accord.

3. The Bachelor of Engineering Technology Honours Degree Programmes offered by the Faculty of Technology

3.1 Orientation and Intensive Programmes

An Orientation Programme of two weeks is conducted for all the new students immediately after the enrollment in order to facilitate the new students to familiarize with the University life, environment, culture and activities. Activities of this Orientation Programme are scheduled and carried out by the Dean, Heads of Departments and Orientation and Intensive Programmes Coordinators of the Faculty of Technology, Officers of the University, and resource persons from Library, Career Guidance Unit, Physical Education Unit and External Organizations etc.

Further, special programmes are also organized to assure harassment free environment for the new students. The mentoring program of the Faculty assigns each new student to a lecturer to provide mentoring throughout the University life. The students are encouraged to keep good contacts with the academic staff to receive maximum benefit for their educational and other issues that may be arisen in the University life.

Immediately after the two weeks Orientation Programme, an Intensive Programme of 8 to 12 weeks is conducted to prepare the students to follow the Bachelor of Technology Honours Degree Programmes in four specialization areas. This Intensive Programme offers course units in “English”, Mathematics and Information and Communication Technology as relevant to specialization areas. However, the length of the Orientation and Intensive Programmes may depend on the availability of time between the enrollment of students and the commencement of their regular academic works.

3.2 Selection of a Specialization Area

The students, on admission to the Faculty of Technology, Wayamba University of Sri Lanka can apply for the following specialization areas in their priority order:

- i) Bachelor of Engineering Technology Honours in Construction Technology (BETHons in Const Tech)
- ii) Bachelor of Engineering Technology Honours in Electrotechnology (BETHons in Electrotech)
- iii) Bachelor of Engineering Technology Honours in Material and Nano Science Technology (BETHons in Mat & Nano Sc Tech)
- iv) Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology (BETHons in Mech & Mfg Tech)

In general, the total number of placements for the specialization areas (i), (ii) and (iv) is about 100 and that for the specialization area (iii) is about 60 and the student intake is streamed into the above two groups during the Orientation Programme. These quotas may vary depending on the annual intake of the Faculty of Technology and the decisions taken by the Faculty Board. If there is a higher demand for one group than the approved capacity in a particular intake, the selection of students is carried out based on the Advanced Level Z-Scores of the students enrolled from different districts.

The course units offered for the specialization areas (i), (ii) and (iv) are common during the first three semesters (Level 1 – Semester I and II and Level 2 – Semester I). However, these students who are following common course units should apply again for further specialization in one of the above three programmes at the end of Level 1 Semester II. In general, the number of placements for each of the above three specialization areas [(i), (ii) and (iv)] is about 40. If more students have applied for a particular specialization area, the selection will be based on their choices of specialization areas and Cumulative Semester Grade Point Average at the end of Level 1.

3.3 Structure of the Bachelor of Engineering Technology Honours Degree Programme

3.3.1 Programme of Study

The Bachelor of Engineering Technology Honours (BETHons) degree programme is designed with minimum of 120 credits. Duration of the degree programme is 4 academic years (Level 1 - 4). Each academic year normally consists of two semesters (Semester I and II). The medium of instruction is English.

The BETHons degree programme consists of theory course units, practical course units, group design projects, individual research projects and industrial training etc. For the degree programmes (i), (ii) and (iv) in Section 3.3.1, the individual research project should be started during the industrial training period and completed by the end of Level 4 Semester II. Students who are following BETHons in Mat & Nano Sc Tech should do one year research project and a six months industrial training research project individually. The research project can be initialized from Level 2 onwards with the help of the academic staff of the Department of Nano Science Technology. The industrial training period is six months and students are placed in relevant industries for training through National Apprentice and Training Authority (NAITA). Several non-GPA and/or GPA English course units are offered during the first four to six semesters. A student should:

- attend a specified course of lectures, and
- perform specified works for practical/ designs/field works/continuous assessments, and
- undertake projects, industrial training, seminars and other related works,

during the course of study as approved by the Faculty as mandatory requirements.

3.3.2 Credit Value of a Course Unit

Each course unit has a specific credit value. A **Credit** is a time based quantitative measure assigned to each course unit. One credit is equivalent to 15 contact hours of Lectures or to 30 - 45 hours of Practical or to 30 - 45 hours of Design Project and Research Project or to one month (04 weeks) of Industrial Training. One **Active Hour** is defined to be equal to one lecture hour or to two practical or tutorial hours, etc. by considering such time durations per one week. **Notional Learning Hours** are the clock hours that a student has to spend on all learning related activities to earn credits. Notional Learning hours include direct contact hours (measured in clock hours) with teachers and trainers, time spent in self-learning, preparation for assignments, carrying out assignments and assessments. Student workload of a full time study programme is defined as 1500 notional learning hours per academic year. One credit is approximately equal to 50 Notional Hours. In order to earn 30 credit per academic year requires students to spend 1500 Notional Hours a year according to the SLQF guidelines and thus a student taking 30 credits per academic year (of 40 working weeks) would have to spend 4 to 5 hours every day on self-studies during the working weeks.

Term	Description or Definition
1 Credit	Equivalent to 15 contact hours of Lectures or to 30 - 45 hours of Practical or to 30 - 45 hours of Design Project and Research Project or to one month (04 weeks) of Industrial Training. It is approximately equal to 50 Notional Hours.
1 Active Hour	Equivalent to one (1) hour of lecture or two (2) hours of tutorial, laboratory, design or field work per week
Notional Learning Hours	Total number of clock hours a student has to spend on all learning activities including in self-learning, preparation for assignments, carrying out assignments and assessments, etc. Approximately 1500 hours per academic year or 50 hours per one Credit.
Expected self-learning duration per day	4 to 5 hours every day during working weeks of academic year

3.3.3 Evaluation of Course Units

In general, a greater weightage is given for the semester-end examinations. However, the performances at continuous assessments of a particular course unit which includes semester-mid evaluation are equally important because they account for better overall grade for the course unit.

The overall mark of a course unit is typically calculated as follows:

The overall mark (100%) = 30% - 50% (continuous assessments that may include a combination of tutorials, assignments, designs, quizzes, semester-mid evaluation etc.) + 50% - 70% (semester-end examination). However, there may be exceptions to the above formula depending on the nature of course unit. The Course Unit Coordinator provides necessary information to students at the commencement of the course unit.

The time duration of a semester-end examination paper is determined based on the credit value of the course unit and is typically set as follows:

Two credits theory paper	- 2 hours
Three credits theory paper	- 2 ½ hours
Four credits theory paper	- 3 hours
Practical examination	- 2 hours

3.3.4 Absence for Continuous Assessments

Medical certificates and any other excuses are usually not considered for continuous assessments including semester-mid evaluations. In such a case, absent students do not receive marks for particular assessments and/or semester-mid evaluations and it may lower the total marks of continuous assessments.

Any appeals with medicals or any other excuses should be considered at the Faculty Board and the decision of the Faculty Board shall be the final. The decision of the Faculty Board should include how the decision affects the eligibility for academic progression at Level 3 Semester I as stated in Section 5.

3.3.5 Bachelor of Engineering Technology Honours in Construction Technology degree programme

The degree programme is designed with the total credits of 120 to 126. Specialization courses are offered from Level 2 - Semester II onwards after selecting the students for different specialization areas.

The course units are designed to produce graduate engineering technologists with a broad knowledge in Construction Technology with relevant foundation knowledge in Mathematics, Basic Sciences, Information and Communication Technology. Course units under complementary studies provide the relevant non-technical subject knowledge to complement the technical subjects.

The structure of the curriculum with all course units available for a student who wishes to specialize in Construction Technology programme is shown Table 3.3.5(a) for Academic Year 2015/2016 and Table 3.3.5(b) for Academic Year 2016/2017 and 2017/2018.

Table 3.3.5(a) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Construction Technology Degree Program (Academic Year 2015/2016)

Level	Module Code	Module Title	No. of Credits	Compulsory / Optional
1	Semester I (15 credits)			
	ETAC 1112	Engineering Measurements	2	Compulsory
	ETAC 1122	Ethics, Professionalism, and Society	2	Compulsory
	ITEC 1132	Computer Fundamentals	2	Compulsory
	ITEC 1143	Computer Programming	3	Compulsory
	ITEC 1151	Practical Computing	1	Compulsory
	EMGT 1162	Principles of Management	2	Compulsory
	EMAT 1173	Fundamental Mathematics I	3	Compulsory
	ELPC 1110	English Language Proficiency Course I	0	Compulsory
Semester II (15-17 credits)				

	ETAC 1212	Material Science	2	Compulsory
	ETAC 1222	Electrical Circuits	2	Compulsory
	EPHY 1233	Engineering Physics I	3	Compulsory
	EMAT 1242	Fundamental Mathematics II	2	Compulsory
	EMAT 1252	Mathematics for Engineering Technology I	2	Compulsory
	ITEC 1262	Object Oriented Programming	2	Optional #
	EMGT 1272	Principles of Accounting	2	Optional #
	EMGT 1282	Marketing Management	2	Optional #
	ELPC 1210	English Language Proficiency Course II	0	Compulsory
		Credits from Level 1 (Cumulative Credits)	30 (30-32)	
2	Semester I (15 credits)			
	ETAC 2113	Engineering Drawing	3	Compulsory
	ETAC 2122	Engineering Mechanics I	2	Compulsory
	ITEC 2132	Computer Architecture	2	Compulsory
	EPHY 2143	Engineering Physics II	3	Compulsory
	EMGT 2152	Economics for Technology	2	Compulsory
	EMAT 2163	Mathematics for Engineering Technology II	3	Compulsory
	ELCS 2110	English Language & Communication Skills I	0	Compulsory
	Semester II (16 credits)			
	ETAC 2212	Presentation and Technical Report Writing	2	Compulsory
	ETAC 2222	Industrial Health & Safety	2	Compulsory
	ETAC 2233	Workshop Technology	3	Compulsory
	ETSC 2243	Engineering Mechanics II	3	Compulsory
	ETSC 2252	Structural Analysis	2	Compulsory
	ETCC 2292	Geo-mechanics	2	Compulsory
	ETCC 22A2	Building Design & Construction Technology	2	Compulsory
	ELCS 2210	English Language & Communication Skills II	0	Compulsory
		Credits from Level 2 (Cumulative Credits)	31 (61-63)	
3	Semester I (16 credits)			
	EMGT 3112	Entrepreneurship & Small Business	2	Compulsory
	ETAC 3124	Production and Operations Technology	4	Compulsory
	ETAC 3132	Solid and Hazardous Waste Management	2	Compulsory
	ETSC 3142	Fluid Mechanics	2	Compulsory
	ETCC 3183	Reinforced Concrete Design	3	Compulsory
	ETCC 3193	Surveying	3	Compulsory
	Semester II (17 - 19 credits)			
	EMGT 3212	Human Resource Management	2	Compulsory
	EMAT 3222	Statistics for Engineering Technology	2	Compulsory
	ETAC 3232	Air Conditioning, and Refrigeration	2	Compulsory
	ETAC 3242	Research Methodology	2	Compulsory
	ETAC 3252	Group Design Project	2	Compulsory
	ITAO 3262	Web Designing	2	Optional #
	ETSC 3272	Environment and Sustainability	2	Compulsory
	ETSC 3283	Steel Structure Design	3	Compulsory
	ETCC 32B2	Transport & Highway Engineering	2	Compulsory
		Credits from Level 3 (Cumulative Credits)	33-35 (94-98)	
4	Semester I (10 credits)			
	ETAC 4116	Industrial Training	6	Compulsory
	ETAC 4126	Individual Research Project	6	Compulsory
	Semester II (16 credits)			
	ETAC 4212	Business & Industrial Law	2	Compulsory
	ETAC 4222	Innovative Technological Entrepreneurship	2	Optional #
	ETSC 4252	Computer Aided Structural Design	2	Compulsory
	ETCX 4262	Building Service Technology	2	Compulsory
	ETCC 42A2	Foundation Engineering Techniques	2	Compulsory
	ETCC 42B2	Hydrology and Hydraulic Design	2	Compulsory
	ETCC 42C4	Construction Planning and Management	4	Compulsory
		Credits from Level 4 (Cumulative Credits)	26-28 (120-126)	

These modules are electives to satisfy overall and annual credit requirements.

Abbreviations:

ET**Y****δ** Engineering Technology

Y: [A – All; C – Construction; E – Electrotechnology; M – Mechanical & Manufacturing; S – Construction and Mechanical & Manufacturing; D – Electrotechnology and Mechanical & Manufacturing]

δ: C – Compulsory

O – Optional

X – Compulsory for specified but optional for others

EMAT Engineering Mathematics

EPHY Engineering Physics

EMGT Management for Engineering Technology

ITEC Information Technology

ELPC English Language Proficiency Course

ELCS English Language & Communication Skills

Number Suffix: [Level][Semester][Subject Index in hexadecimal][No. of Credits] ; † indicates both semesters

Table 3.3.5 (b) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Construction Technology Degree Program (Academic Year 2016/2017 and 2017/2018)

Level	Course Code	Course Title	No. of Credits	Compulsory / Optional
1	Semester I (15 credits)			
	ETAC 1112	Engineering Measurements	2	Compulsory
	ETAC 1122	Exploration of University, Society, and Professional World	2	Compulsory
	ITEC 1132	Computer Fundamentals	2	Compulsory
	ITEC 1143	Computer Programming	3	Compulsory
	ITEC 1151	Practical Computing	1	Compulsory
	EMGT 1162	Principles of Management	2	Compulsory
	EMAT 1173	Fundamental Mathematics I	3	Compulsory
	ELPC 1110	English Language Proficiency Course I	0	Compulsory
	Semester II (15 credits)			
	ETAC 1212	Material Science	2	Compulsory
	ETAC 1222	Electrical Circuits	2	Compulsory
	EPHY 1233	Engineering Physics I	3	Compulsory
	EMAT 1242	Fundamental Mathematics II	2	Compulsory
	EMAT 1252	Mathematics for Engineering Technology I	2	Compulsory
	ITEC 1262	Object Oriented Programming	2	Compulsory
	EMGT 1272	Finance for Decision Making	2	Compulsory
	ELPC 1210	English Language Proficiency Course II	0	Compulsory
		Credits from Level 1 (Cumulative Credits)	30 (30)	
2	Semester I (15 credits)			
	ETAC 2113	Engineering Drawing	3	Compulsory
	ETAC2122	Engineering Mechanics I	2	Compulsory
	ITEC 2132	Computer Architecture	2	Compulsory
	EPHY 2143	Engineering Physics II	3	Compulsory
	EMGT 2152	Economics for Technology	2	Compulsory
	EMAT 2163	Mathematics for Engineering Technology II	3	Compulsory
	ELCS 2110	English Language & Communication Skills I	0	Compulsory
	Semester II (16-18 credits)			
	ETAC 2212	Presentation and Technical Report Writing	2	Compulsory
	ETAC 2222	Industrial Health & Safety	2	Compulsory
	ETAC 2233	Workshop Technology	3	Compulsory
	ETSC 2243	Engineering Mechanics II	3	Compulsory
	ETSC 2252	Structural Analysis	2	Compulsory
	ETCC 2292	Geo-mechanics	2	Compulsory
	ETCC 22A2	Building Design & Construction Technology	2	Compulsory
	EMGT 22D2	Marketing Management	2	Optional #
	ELCS 2210	English Language & Communication Skills II	0	Compulsory
		Credits from Level 2 (Cumulative Credits)	31-33 (61-63)	
Semester I (16 credits)				

3	EMGT 3112	Entrepreneurship & Small Business	2	Compulsory
	ETAC 3124	Production and Operations Technology	4	Compulsory
	ETAC 3132	Solid and Hazardous Waste Management	2	Compulsory
	ETSC 3142	Fluid Mechanics	2	Compulsory
	ETCC 3183	Reinforced Concrete Design	3	Compulsory
	ETCC 3193	Surveying	3	Compulsory
	Semester II (17 - 19 credits)			
	EMGT 3212	Human Resource Management	2	Compulsory
	EMAT 3222	Statistics for Engineering Technology	2	Compulsory
	ETAC 3232	Air Conditioning, and Refrigeration	2	Compulsory
	ETAC 3242	Research Methodology	2	Compulsory
	ETAC 3252	Group Design Project	2	Compulsory
	ITAO 3262	Web Designing	2	Optional #
	ETSC 3272	Environment and Sustainability	2	Compulsory
	ETSC 3283	Steel Structure Design	3	Compulsory
	ETCC 32B2	Transport & Highway Engineering	2	Compulsory
		Credits from Level 3 (Cumulative Credits)	33-35 (94-98)	
4	Semester I (12 credits)			
	ETAC 4116	Industrial Training	6	Compulsory
	ETAC 4126	Individual Research Project	6	Compulsory
	Semester II (14 - 16 credits)			
	ETAC 4212	Business & Industrial Law	2	Compulsory
	ETAO 4222	Innovative Technological Entrepreneurship	2	Optional #
	ETSC 4252	Computer Aided Structural Design	2	Compulsory
	ETCX 4262	Building Service Technology	2	Compulsory
	ETCC 42A2	Foundation Engineering Techniques	2	Compulsory
	ETCC 42B2	Hydrology and Hydraulic Design	2	Compulsory
	ETCC 42C4	Construction Planning and Management	4	Compulsory
		Credits from Level 4 (Cumulative Credits)	26-28 (120-126)	

Abbreviations: Refer the details under Table 3.3.5(a).

3.3.6 Bachelor of Engineering Technology Honours in Electrotechnology degree programme

The degree programme is designed with the total credits of 120 to 129. Specialization courses are offered from Level 2 - Semester II onwards after selecting the students for different specialization areas.

The course units are designed to produce graduate engineering technologists with a broad knowledge in Electrotechnology with relevant foundation knowledge in Mathematics, Basic Sciences, Information and Communication Technology. Course units under complementary studies provide the relevant non-technical subject knowledge to complement the technical subjects.

The structure of the curriculum with all course units available for a student who wishes to specialize in Electrotechnology programme is shown Table 3.3.6(a) for Academic Year 2015/2016 and Table 3.3.6(b) for Academic Year 2016/2017 and 2017/2018.

Table 3.3.6(a) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Electrotechnology Degree Program (Academic Year 2015/2016)

Level	Module Code	Module Title	No. of Credits	Compulsory / Optional
1	Semester I (15 credits)			
	ETAC 1112	Engineering Measurements	2	Compulsory
	ETAC 1122	Ethics, Professionalism, and Society	2	Compulsory
	ITEC 1132	Computer Fundamentals	2	Compulsory
	ITEC 1143	Computer Programming	3	Compulsory
	ITEC 1151	Practical Computing	1	Compulsory
	EMGT 1162	Principles of Management	2	Compulsory
	EMAT 1173	Fundamental Mathematics I	3	Compulsory
	ELPC 1110	English Language Proficiency Course I	0	Compulsory
	Semester II (15- 17 credits)			
	ETAC 1212	Material Science	2	Compulsory
	ETAC 1222	Electrical Circuits	2	Compulsory
	EPHY 1233	Engineering Physics I	3	Compulsory
	EMAT 1242	Fundamental Mathematics II	2	Compulsory

	EMAT 1252	Mathematics for Engineering Technology I	2	Compulsory
	ITEC 1262	Object Oriented Programming	2	Optional #
	EMGT 1272	Principles of Accounting	2	Optional #
	EMGT 1282	Marketing Management	2	Optional #
	ELPC 1210	English Language Proficiency Course II	0	Compulsory
		Credits from Level I (Cumulative Credits)	30 - 32 (30 - 32)	
2	Semester I (15 credits)			
	ETAC 2113	Engineering Drawing	3	Compulsory
	ETAC 2122	Engineering Mechanics I	2	Compulsory
	ITEC 2132	Computer Architecture	2	Compulsory
	EPHY 2143	Engineering Physics II	3	Compulsory
	EMGT 2152	Economics for Technology	2	Compulsory
	EMAT 2163	Mathematics for Engineering Technology II	3	Compulsory
	ELCS 2110	English Language & communication skills I	0	Compulsory
	Semester II (16 credits)			
	ETAC 2212	Presentation and Technical Report Writing	2	Compulsory
	ETAC2222	Industrial Health & Safety	2	Compulsory
	ETAC 2233	Workshop Technology	3	Compulsory
	ETEC 2263	Analog Electronics	3	Compulsory
	ETEC 2273	Applied Electricity	3	Compulsory
3	ETEC 2283	Digital Electronics	3	Compulsory
	ELCS 2210	English Language & communication skills II	0	Compulsory
		Credits from Level II (Cumulative Credits)	31 (61-63)	
	Semester I (16 credits)			
	EMGT 3112	Entrepreneurship & Small Business	2	Compulsory
	ETAC 3124	Production and Operations Technology	4	Compulsory
	ETAC 3132	Solid and Hazardous Waste Management	2	Compulsory
	ETDC 3152	Electrical Installation	2	Compulsory
	ETDC 3163	Electrical Machines and Drives	3	Compulsory
	ETEC 3173	Instrumentation	3	Compulsory
	Semester II (18-20 credits)			
	EMGT 3212	Human Resource Management	2	Compulsory
	EMAT 3222	Statistics for Engineering Technology	2	Compulsory
	ETAC 3232	Air Conditioning, and Refrigeration	2	Compulsory
	ETAC 3242	Research Methodology	2	Compulsory
	ETAC 3252	Group Design Project	2	Compulsory
	ITAO 3262	Web Designing	2	Optional #
	ETEC 3293	Telecommunication Technology	3	Compulsory
	ETEC 32A3	Electrical Power and Protection Systems	3	Compulsory
	ETEC 32D2	Power Electronics	2	Compulsory
		Credits from Level III (Cumulative Credits)	34-36 (95-99)	
4	Semester I (10 credits)			
	ETAC 4116	Industrial Training	6	Compulsory
	ETAC 4126	Individual Research Project	6	Compulsory
	Semester II (15-18 credits)			
	ETAC 4212	Business & Industrial Law	2	Compulsory
	ETAC 4222	Innovative Technological Entrepreneurship	2	Optional #
	ETDO 4232	Emerging Vehicle Technology	2	Optional #
	ETDC 4243	Mechatronics and Industrial Automation	3	Compulsory
	ETEC 4273	High Voltage Technology	3	Compulsory
	ETEC 4283	Microcontroller-based Design	3	Compulsory
	ETEO 4293	Data and Computer Networking	3	Optional #
		Credits from Level IV (Cumulative Credits)	23-30 (120-129)	

Abbreviations: Refer the details under Table 3.3.5(a).

Table 3.3.6(b) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Electrotechnology Degree Program (Academic Year 2016/2017 and 2017/2018)

Level	Course Code	Course Title	No. of Credits	Compulsory / Optional
1	Semester I (15 credits)			
	ETAC 1112	Engineering Measurements	2	Compulsory
	ETAC 1122	Ethics, Professionalism, and Society	2	Compulsory
	ITEC 1132	Computer Fundamentals	2	Compulsory
	ITEC 1143	Computer Programming	3	Compulsory
	ITEC 1151	Practical Computing	1	Compulsory
	EMGT 1162	Principles of Management	2	Compulsory
	EMAT 1173	Fundamental Mathematics I	3	Compulsory
	ELPC 1110	English Language Proficiency Course I	0	Compulsory
	Semester II (15- 17 credits)			
	ETAC 1212	Material Science	2	Compulsory
	ETAC 1222	Electrical Circuits	2	Compulsory
	EPHY 1233	Engineering Physics I	3	Compulsory
	EMAT 1242	Fundamental Mathematics II	2	Compulsory
	EMAT 1252	Mathematics for Engineering Technology I	2	Compulsory
	ITEC 1262	Object Oriented Programming	2	Optional #
	EMGT 1272	Principles of Accounting	2	Optional #
	EMGT 1282	Marketing Management	2	Optional #
	ELPC 1210	English Language Proficiency Course II	0	Compulsory
		Credits from Level I (Cumulative Credits)	30 - 32 (30 - 32)	
2	Semester I (15 credits)			
	ETAC 2113	Engineering Drawing	3	Compulsory
	ETAC 2122	Engineering Mechanics I	2	Compulsory
	ITEC 2132	Computer Architecture	2	Compulsory
	EPHY 2143	Engineering Physics II	3	Compulsory
	EMGT 2152	Economics for Technology	2	Compulsory
	EMAT 2163	Mathematics for Engineering Technology II	3	Compulsory
	ELCS 2110	English Language & communication skills I	0	Compulsory
	Semester II (16 credits)			
	ETAC 2212	Presentation and Technical Report Writing	2	Compulsory
	ETAC2222	Industrial Health & Safety	2	Compulsory
	ETAC 2233	Workshop Technology	3	Compulsory
	ETEC 2263	Analog Electronics	3	Compulsory
	ETEC 2273	Applied Electricity	3	Compulsory
	ETEC 2283	Digital Electronics	3	Compulsory
	ELCS 2210	English Language & communication skills II	0	Compulsory
		Credits from Level II (Cumulative Credits)	31 (61-63)	
3	Semester I (16 credits)			
	EMGT 3112	Entrepreneurship & Small Business	2	Compulsory
	ETAC 3124	Production and Operations Technology	4	Compulsory
	ETAC 3132	Solid and Hazardous Waste Management	2	Compulsory
	ETDC 3152	Electrical Installation	2	Compulsory
	ETDC 3163	Electrical Machines and Drives	3	Compulsory
	ETEC 3173	Instrumentation	3	Compulsory
	Semester II (18-20 credits)			
	EMGT 3212	Human Resource Management	2	Compulsory
	EMAT 3222	Statistics for Engineering Technology	2	Compulsory
	ETAC 3232	Air Conditioning, and Refrigeration	2	Compulsory
	ETAC 3242	Research Methodology	2	Compulsory
	ETAC 3252	Group Design Project	2	Compulsory
	ITAO 3262	Web Designing	2	Optional #
	ETEC 3293	Telecommunication Technology	3	Compulsory
	ETEC 32A3	Electrical Power and Protection Systems	3	Compulsory
	ETEC 32D2	Power Electronics	2	Compulsory
		Credits from Level III (Cumulative Credits)	34-36 (95-99)	
4	Semester I (10 credits)			
	ETAC 4116	Industrial Training	6	Compulsory
	ETAC 4126	Individual Research Project	6	Compulsory
	Semester II (15-18 credits)			
	ETAC 4212	Business & Industrial Law	2	Compulsory
	ETAC 4222	Innovative Technological Entrepreneurship	2	Optional #
	ETDO 4232	Emerging Vehicle Technology	2	Optional #

	ETDC 4243	Mechatronics and Industrial Automation	3	Compulsory
	ETEC 4273	High Voltage Technology	3	Compulsory
	ETEC 4283	Microcontroller-based Design	3	Compulsory
	ETEO 4293	Data and Computer Networking	3	Optional #
		Credits from Level IV (Cumulative Credits)	23-30 (120-129)	

Abbreviations: Refer the details under Table 3.3.5(a).

3.3.7 Bachelor of Engineering Technology Honours in Material and Nano Science Technology degree programme

The degree programme is designed with the total credits of 122 to 123. Specialization courses are offered from Level 1 - Semester I onwards after selecting the students for this specialization area at the enrollment.

The course units are designed to produce a graduate engineering technologist in product designing with a broad knowledge in Material and Nano Science Technology with relevant foundation knowledge in Mathematics, Basic Sciences, Information and Communication Technology. Course units under complementary studies provide the relevant non-technical subject knowledge to complement the technical subjects.

The structure of the curriculum with all course units available for a student who wishes to specialize in Material and Nano Science Technology programme is shown Table 3.3.7(a) for academic year 2015/2016, Table 3.3.7(b) for academic year 2016/2017 and Table 3.3.7(c) for academic year 2017/2018.

Table 3.3.7(a) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Material and Nano Science Technology Degree Program (Academic Year 2015/2016)

Level	Module Code	Module title	No. of Credits	Compulsory/Optional
1	Semester I (15 Credits)			
	NANO1112	Elements of Nanoscience and Nanotechnology	2	Compulsory
	NANO1122	Chemical Concepts and Calculations	2	Compulsory
	NANO1132	Basic Mathematics	2	Compulsory
	NANO1142	Cell and Biomolecules	2	Compulsory
	NANO1153	Fundamentals of Electronics	3	Compulsory
	NANO1162	Introduction to Computing	2	Compulsory
	NANO1172	General Chemistry for Nanotechnology	2	Compulsory
	ETCH 1110	English for Technology I	0	Compulsory
	NANO1180	Leadership Development	0	Compulsory
	Total Credits for Semester		15	
	Semester II (15 Credits)			
	NANO1211	Chemistry laboratory I	1	Compulsory
	NANO1222	Physical Chemistry for Nanotechnology I	2	Compulsory
	NANO1232	Fundamentals of Physics	2	Compulsory
	NANO1242	Computer Programming I	2	Compulsory
	NANO1252	Electronic Circuits	2	Compulsory
	NANO1261	Basic Instrumental techniques	1	Compulsory
	NANO1273	Introduction to Biotechnology	3	Compulsory
	NANO1282	Basic Statistics	2	Compulsory
	ETCH 1210	English For Technology II	0	Compulsory
	Total Credits for Semester		15	
	Credits from level 1 (Cumulative credits)		30 (30)	
2	Semester I (16 Credits)			
	NANO2112	Mathematics for Nano Science Technology I	2	Compulsory
	NANO2122	Fundamentals of Nano-Electronics	2	Compulsory
	NANO2132	Analogue Electronics	2	Compulsory
	NANO2142	Software Development	2	Compulsory
	NANO2151	Principles of Material Science Engineering	1	Compulsory
	NANO2162	Engineering Design & Drawings	2	Compulsory
	NANO2172	Physical Chemistry for Nanotechnology	2	Compulsory

	NANO2182	Management for Engineering	2	Compulsory
	ETCH2111	English Language & Communication Skills I	1	Compulsory
	PDEV2110	Career Development II	0	Compulsory
	Total Credits for Semester		16	
	Semester II (16 Credits)			
	NANO2212	Fermentation Technology	2	Compulsory
	NANO2222	Finance for Decision Making	2	Compulsory
	NANO2232	Material Synthesis and Characterization	2	Compulsory
	NANO2242	Mathematics for Nano Science Technology II	2	Compulsory
	NANO2252	Polymer and Nanocomposites	2	Compulsory
	NANO2261	Special areas in Nano Technology I	1	Compulsory
	NANO2272	Digital Electronics	2	Compulsory
	NANO2282	Introduction to Research Designing	2	Compulsory
	ETCH2211	English Language & Communication Skills II	1	Compulsory
	INDV2210	Industrial Visits I	0	Compulsory
	PDEV2210	Career Development III	0	Compulsory
	Total Credits for Semester		16	
	Credits from level 2 (Cumulative credits)		32 (62)	
3	Semester I (17 Credits)			
	NANO3112	Carbon Nanotechnology	2	Compulsory
	NANO3122	Statistical Methodology	2	Compulsory
	NANO3132	Mathematics for Nano Science Technology III	2	Compulsory
	NANO3141	Special Areas in Nano Technology II	1	Compulsory
	NANO3152	Marketing Management	2	Compulsory
	NANO3162	Electrical & Magnetic Properties of Materials	2	Compulsory
	NANO3172	Immunology	2	Compulsory
	NANO3182	Polymer Science	2	Compulsory
	NANO3191	Material Synthesis Laboratory I	1	Compulsory
	ETCH3111	Advanced English for Engineering Technology	1	Compulsory
	Total Credits for Semester		17	
	Semester II (16 credits)			
	NANO3212	Basic Quantum Mechanics	2	Compulsory
	NANO3222	Ceramic Science	2	Compulsory
	NANO3232	Small Business Management & Entrepreneurship	2	Compulsory
	NANO3242	Advanced Polymer Science	2	Compulsory
	NANO3252	Economics for Technology	2	Compulsory
	NANO3262	Advanced Techniques in Bio Technology	2	Compulsory
	NANO3272	Metals and Alloys	2	Compulsory
	NANO3281	Sustainable Consumption & Production	1	Optional
	NANO3291	Material Synthesis Laboratory II	1	Compulsory
	ETCH3210	Business English for Engineering Technology	0	Compulsory
	Total Credits for Semester		16	
	Credits from level 3 (Cumulative credits)		33 (95)	
4	Semester I (12 credits)			
	NANO4116	Industrial Training	6	Compulsory
	NANO4116	Research Project	6	Compulsory
	Total Credits for Semester		12	
	Semester II (18 credits)			
	NANO4212	Special Areas in Nano Technology III	2	Compulsory
	NANO4222	Photovoltaic Technology	2	Compulsory
	NANO4232	Minerals Technology	2	Compulsory
	NANO4242	Professional and Employment Skills Development	2	Optional
	NANO4252	Entrepreneurship Skills Development	2	Optional
	NANO4262	Advanced Material Characterization	2	Compulsory
	NANO4272	Environmental Nanotechnology	2	Compulsory
	NANO4282	Human Resource Management	2	Compulsory

	NANO4292	Applications of Polymers	2	Compulsory
	ETCH4210	Academic Writing and Presentation Skills	0	Compulsory
	Total Credits for Semester		18	
	Credits from level 4 (Cumulative credits)		30 (125)	

Abbreviations:

NANO - Material and Nano Science Technology

ETCH - English for Technology

INDV - Industrial Visits

PDEV - Personal Development

† - Throughout the year

Table 3.3.7(b) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Material and Nano Science Technology Degree Program (Academic Year 2016/2017)

Level	Module Code	Module title	No. Credits	of	Compulsory/Optional
1	Semester I (15 Credits)				
	NANO1112	Elements of Nanoscience and Nanotechnology	2		Compulsory
	NANO1123	General Chemistry for Technology	3		Compulsory
	NANO1132	Basic Mathematics	2		Compulsory
	NANO1142	Cell Biology	2		Compulsory
	NANO1152	Fundamentals of Electronics	2		Compulsory
	NANO1162	Introduction to Computing	2		Compulsory
	NANO1172	Fundamentals of Physics I	2		Compulsory
	ETCH1110	English for Technology I	0		Compulsory
	PDEV1110	Outbound Training	0		Compulsory
	Total Credits for Semester		15		
	Semester II (15 Credits)				
	NANO1211	Chemistry Laboratory I	1		Compulsory
	NANO1222	Chemical Concepts and Calculations	2		Compulsory
	NANO1232	Fundamentals of Physics II	2		Compulsory
	NANO1242	Computer Programming	2		Compulsory
	NANO1252	Electronic Circuits	2		Compulsory
	NANO1261	Basic Instrumental Techniques	1		Compulsory
	NANO1273	Introduction to Biotechnology	3		Compulsory
	NANO1282	Basic Statistics	2		Compulsory
	ETCH1210	English for Technology II	0		Compulsory
	PDEV1210	Career Development I	0		Compulsory
	Total Credits for Semester		15		
	Credits from level 1 (Cumulative credits)		30 (30)		
2	Semester I (16 Credits)				
	NANO2112	Mathematics for Nano Science Technology I	2		Compulsory
	NANO2122	Fundamentals of Nano-Electronics	2		Compulsory
	NANO2132	Digital Electronics	2		Compulsory
	NANO2142	Introduction to Software Development	2		Compulsory
	NANO2151	Principles of Material Science Engineering	1		Compulsory
	NANO2162	Engineering Design & Drawings	2		Compulsory
	NANO2172	Physical Chemistry for Nanotechnology	2		Compulsory
	NANO2182	Management for Technology	2		Compulsory
	ETCH2111	English Language & Communication Skills I	1		Compulsory
	PDEV2110	Career Development II	0		Compulsory
	Total Credits for Semester		16		
	Semester II (16 Credits)				
	NANO2212	Fermentation Technology	2		Compulsory

	NANO2222	Finance for Decision Making	2	Compulsory
	NANO2232	Material Synthesis and Characterization	2	Compulsory
	NANO2242	Mathematics for Nano Science Technology II	2	Compulsory
	NANO2252	Nano-composites	2	Compulsory
	NANO2261	Special areas in Nano Technology I	1	Compulsory
	NANO2272	Introduction to Experimental Designing	2	Compulsory
	ETCH2211	English Language & Communication Skills II	1	Compulsory
	PDEV2210	Career Development III	0	Compulsory
	Total Credits for Semester		14	
	Credits from level 2 (Cumulative credits)		30 (60)	
3	Semester I (17 Credits)			
	NANO3112	Carbon Nanotechnology	2	Compulsory
	NANO3122	Statistical Methodology	2	Compulsory
	NANO3132	Mathematics for Nano Science Technology III	2	Compulsory
	NANO3141	Special Areas in Nano Technology II	1	Compulsory
	NANO3152	Marketing Management	2	Compulsory
	NANO3162	Electrical & Magnetic Properties of Materials	2	Compulsory
	NANO3172	Immunology	2	Compulsory
	NANO3182	Polymer Science	2	Compulsory
	NANO3191	Material Synthesis Laboratory I	1	Compulsory
	ETCH3111	Advanced English for Engineering Technology	1	Compulsory
	Total Credits for Semester		17	
	Semester II (16 credits)			
	NANO3212	Basic Quantum Mechanics	2	Compulsory
	NANO3222	Ceramic Science	2	Compulsory
	NANO3232	Small Business Management & Entrepreneurship	2	Compulsory
	NANO3242	Advanced Polymer Science	2	Compulsory
	NANO3252	Economics for Technology	2	Compulsory
	NANO3262	Advanced Techniques in Bio Technology	2	Compulsory
	NANO3272	Metals and Alloys	2	Compulsory
	NANO3281	Sustainable Consumption & Production	1	Optional
	NANO3291	Material Synthesis Laboratory II	1	Compulsory
	ETCH3210	Business English for Engineering Technology	0	Compulsory
	Total Credits for Semester		16	
	Credits from level 3 (Cumulative credits)		33 (93)	
4	Semester I (12 credits)			
	NANO4116	Industrial Training	6	Compulsory
	NANO4116	Research Project	6	Compulsory
	Total Credits for Semester		12	
	Semester II (18 credits)			
	NANO4212	Special Areas in Nano Technology III	2	Compulsory
	NANO4222	Photovoltaic Technology	2	Compulsory
	NANO4232	Minerals Technology	2	Compulsory
	NANO4242	Professional and Employment Skills Development	2	Optional
	NANO4252	Entrepreneurship Skills Development	2	Optional
	NANO4262	Advanced Material Characterization	2	Compulsory
	NANO4272	Environmental Nanotechnology	2	Compulsory
	NANO4282	Human Resource Management	2	Compulsory
	NANO4292	Applications of Polymers	2	Compulsory
	ETCH4210	Academic Writing and Presentation Skills	0	Compulsory
	Total Credits for Semester		18	
	Credits from level 4 (Cumulative credits)		30 (123)	

Abbreviations: Refer the details under Table 3.3.7(a).

Table 3.3.7(c) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Material and Nano Science Technology Degree Program (Academic Year 2017/2018)

Level	Course Code	Course Title	No. of Credits	Compulsory/Optional
1	Semester I (15 credits)			
	NANO1112	Elements of Nanoscience and Nanotechnology	2	Compulsory
	NANO1123	General Chemistry for Technology	3	Compulsory
	NANO1132	Basic Mathematics	2	Compulsory
	NANO1142	Cell Biology	2	Compulsory
	NANO1152	Fundamentals of Electronics	2	Compulsory
	NANO1162	Introduction to Computing	2	Compulsory
	NANO1172	Fundamentals of Physics I	2	Compulsory
	ETCH1110	English for Technology I	0	Compulsory
	PDEV1110	Outbound Training	0	Compulsory
	Total Credits for Semester		15	
	Semester II (15 credits)			
	NANO1211	Chemistry Laboratory I	1	Compulsory
	NANO1222	Chemical Concepts and Calculations	2	Compulsory
	NANO1232	Fundamentals of Physics II	2	Compulsory
	NANO1242	Computer Programming	2	Compulsory
	NANO1252	Analogue Electronics	2	Compulsory
	NANO1261	Basic Instrumental Techniques	1	Compulsory
	NANO1273	Introduction to Biotechnology	3	Compulsory
	NANO1282	Basic Statistics	2	Compulsory
	ETCH1210	English For Technology II	0	Compulsory
	PDEV1210	Career Development I	0	Compulsory
	Total Credits for Semester		15	
	Credits from level 1 (Cumulative credits)		30 (30)	
2	Semester I (16 credits)			
	NANO2112	Mathematics for Nano Science Technology I	2	Compulsory
	NANO2122	Fundamentals of Nano-Electronics	2	Compulsory
	NANO2132	Digital Electronics	2	Compulsory
	NANO2142	Introduction to Software Development	2	Compulsory
	NANO2151	Principles of Material Science Engineering	1	Compulsory
	NANO2162	Engineering Design & Drawings	2	Compulsory
	NANO2172	Physical Chemistry for Nanotechnology	2	Compulsory
	NANO2182	Management for Technology	2	Compulsory
	ETCH2111	English Language & Communication Skills I	1	Compulsory
	PDEV2110	Career Development II	0	Compulsory
	Total Credits for Semester		16	
	Semester II (14 credits)			
	NANO2212	Fermentation Technology	2	Compulsory
	NANO2222	Finance for Decision Making	2	Compulsory
	NANO2232	Material Synthesis and Characterization	2	Compulsory
	NANO2242	Mathematics for Nano Science Technology II	2	Compulsory
	NANO2252	Nano-composites	2	Compulsory
	NANO2261	Special areas in Nano Technology I	1	Compulsory
	NANO2272	Introduction to Experimental Designing	2	Compulsory
	ETCH2211	English Language & Communication Skills II	1	Compulsory
	PDEV2210	Career Development III	0	Compulsory
	Total Credits for Semester		14	
	Credits from level 2 (Cumulative credits)		30 (60)	
3	Semester I (17 credits)			
	NANO3112	Carbon Nanotechnology	2	Compulsory
	NANO3122	Statistical Methodology	2	Compulsory
	NANO3132	Mathematics for Nano Science Technology III	2	Compulsory
	NANO3141	Special Areas in Nano Technology II	1	Compulsory
	NANO3152	Marketing Management	2	Compulsory
	NANO3162	Electrical & Magnetic Properties of Materials	2	Compulsory
	NANO3172	Immunology	2	Compulsory
	NANO3182	Polymer Science	2	Compulsory
	NANO3191	Material Synthesis Laboratory I	1	Compulsory
	ETCH3111	Advanced English for Engineering Technology	1	Compulsory
	Total Credits for Semester		17	

	Semester II 16 credits)			
	NANO3212	Basic Quantum Mechanics	2	Compulsory
	NANO3222	Ceramic Science	2	Compulsory
	NANO3232	Small Business Management & Entrepreneurship	2	Compulsory
	NANO3242	Advanced Polymer Science	2	Compulsory
	NANO3252	Economics for Technology	2	Compulsory
	NANO3262	Advanced Techniques in Bio Technology	2	Compulsory
	NANO3272	Metals and Alloys	2	Compulsory
	NANO3281	Sustainable Consumption & Production	1	Optional
	NANO3291	Material Synthesis Laboratory II	1	Compulsory
	ETCH3210	Business English for Engineering Technology	0	Compulsory
4	Total Credits for Semester			16
	Credits from level 3 (Cumulative credits)			33 (93)
	Semester I (12 credits)			
	NANO4116	Industrial Training	6	Compulsory
	NANO4116	Research Project	6	Compulsory
	Total Credits for Semester			12
	Semester II (18 credits)			
	NANO4212	Special Areas in Nano Technology III	2	Compulsory
	NANO4222	Photovoltaic Technology	2	Compulsory
	NANO4232	Minerals Technology	2	Compulsory
	NANO4242	Professional and Employment Skills Development	2	Optional
	NANO4252	Entrepreneurship Skills Development	2	Optional
	NANO4262	Advanced Material Characterization	2	Compulsory
	NANO4272	Environmental Nanotechnology	2	Compulsory
	NANO4282	Human Resource Management	2	Compulsory
	NANO4292	Applications of Polymers	2	Compulsory
	ETCH4210	Academic Writing and Presentation Skills	0	Compulsory
	Total Credits for Semester			18
	Credits from level 4 (Cumulative credits)			30 (123)

Abbreviations: Refer the details under Table 3.3.7(a).

3.3.8 Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology degree programme

The degree programme is designed with the total credits of 120 to 132. Specialization courses are offered from Level 2 - Semester II onwards after selecting the students for different specialization areas.

The course units are designed to produce graduate engineering technologists with a broad knowledge in Mechanical and Manufacturing Technology with relevant foundation knowledge in Mathematics, Basic Sciences, Information and Communication Technology. Course units under complementary studies provide the relevant non-technical subject knowledge to complement the technical subjects.

The structure of the curriculum with all course units available for a student who wishes to specialize in Mechanical and Manufacturing Technology programme is shown in Table 3.3.8(a) for Academic Year 2015/2016 and Table 3.3.8(b) for Academic Year 2016/2017 and 2017/2018.

Table 3.3.8(a) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology Degree Program (Academic Year 2015/2016)

Level	Module Code	Module Title	No. of Credits	Compulsory / Optional
1	Semester I (15 credits)			
	ETAC 1112	Engineering Measurements	2	Compulsory
	ETAC 1122	Ethics, Professionalism, and Society	2	Compulsory
	ITEC 1132	Computer Fundamentals	2	Compulsory
	ITEC 1143	Computer Programming	3	Compulsory
	ITEC 1151	Practical Computing	1	Compulsory
	EMGT 1162	Principles of Management	2	Compulsory
	EMAT 1173	Fundamental Mathematics I	3	Compulsory
	ELPC 1110	English Language Proficiency Course I	0	Compulsory

	Semester II (15-17 credits)			
	ETAC 1212	Material Science	2	Compulsory
	ETAC 1222	Electrical Circuits	2	Compulsory
	EPHY 1233	Engineering Physics I	3	Compulsory
	EMAT 1242	Fundamental Mathematics II	2	Compulsory
	EMAT 1252	Mathematics for Engineering Technology I	2	Compulsory
	ITEC 1262	Object Oriented Programming	2	Optional #
	EMGT 1272	Principles of Accounting	2	Optional #
	EMGT 1282	Marketing Management	2	Optional #
	ELPC 1210	English Language Proficiency Course II	0	Compulsory
		Credits from Level 1 (Cumulative Credits)	30 (30-32)	
2	Semester I (15 credits)			
	ETAC 2113	Engineering Drawing	3	Compulsory
	ETAC2122	Engineering Mechanics I	2	Compulsory
	ITEC 2132	Computer Architecture	2	Compulsory
	EPHY 2143	Engineering Physics II	3	Compulsory
	EMGT 2152	Economics for Technology	2	Compulsory
	EMAT 2163	Mathematics for Engineering Technology II	3	Compulsory
	ELCS 2110	English Language & communication skills I	0	Compulsory
	Semester II (18 credits)			
	ETAC 2212	Presentation and Technical Report Writing	2	Compulsory
	ETAC2222	Industrial Health & Safety	2	Compulsory
	ETAC 2233	Workshop Technology	3	Compulsory
	ETSC 2243	Engineering Mechanics II	3	Compulsory
	ETSC 2252	Structural Analysis	2	Compulsory
	ETMC 22B3	Thermodynamics and Thermal Systems	3	Compulsory
	ETMC 22C3	Automobile Technology	3	Compulsory
	ELCS 2210	English Language & communication skills II	0	Compulsory
		Credits from Level 2 (Cumulative Credits)	33 (63-65)	
3	Semester I (15 credits)			
	EMGT 3112	Entrepreneurship & Small Business	2	Compulsory
	ETAC 3124	Production and Operations Technology	4	Compulsory
	ETAC 3132	Solid and Hazardous Waste Management	2	Compulsory
	ETSC 3142	Fluid Mechanics	2	Compulsory
	ETDC 3152	Electrical Installation	2	Compulsory
	ETDC 3163	Electrical Machines and Drives	3	Compulsory
	Semester II (18 - 20 credits)			
	EMGT 3212	Human Resource Management	2	Compulsory
	EMAT 3222	Statistics for Engineering Technology	2	Compulsory
	ETAC 3232	Air Conditioning, and Refrigeration	2	Compulsory
	ETAC 3242	Research Methodology	2	Compulsory
	ETAC 3252	Group Design Project	2	Compulsory
	ITAO 3262	Web Designing	2	Optional #
	ETSC3272	Environment and Sustainability	2	Compulsory
	ETSC 3283	Steel Structure Design	3	Compulsory
	ETMC 32C3	Machine Element Design	3	Compulsory
		Credits from Level 3 (Cumulative Credits)	33-35 (96-100)	
4	Semester I (10 credits)			
	ETAC 4116	Industrial Training	6	Compulsory
	ETAC 4126	Individual Research Project	6	Compulsory
	Semester II (16-18 credits)			
	ETAC 4212	Business & Industrial Law	2	Compulsory
	ETAC 4222	Innovative Technological Entrepreneurship	2	Optional #
	ETDO 4232	Emerging Vehicle Technology	2	Optional #
	ETDC 4243	Mechatronics and Industrial Automation	3	Compulsory
	ETSC 4252	Computer Aided Structural Design	2	Compulsory
	ETCX 4262	Building Service Technology	2	Optional #
	ETMC 42D2	Food Manufacturing Technology	2	Compulsory
	ETMC 42E3	Advanced Manufacturing Methods	3	Compulsory
	ETMO 42F2	Industrial Maintenance and Energy Management	2	Optional #
		Credits from Level 4 (Cumulative Credits)	24-32 (120-132)	

Abbreviations: Refer the details under Table 3.3.5(a).

Table 3.3.8(b) Structure of Curriculum of the Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology Degree Program (Academic Year 2016/2017 and 2017/2028)

Level	Course Code	Course Title	No. of Credits	Compulsory / Optional
1	Semester I (15 credits)			
	ETAC 1112	Engineering Measurements	2	Compulsory
	ETAC 1122	Exploration of University, Society, and Professional World	2	Compulsory
	ITEC 1132	Computer Fundamentals	2	Compulsory
	ITEC 1143	Computer Programming	3	Compulsory
	ITEC 1151	Practical Computing	1	Compulsory
	EMGT 1162	Principles of Management	2	Compulsory
	EMAT 1173	Fundamental Mathematics I	3	Compulsory
	ELPC 1110	English Language Proficiency Course I	0	Compulsory
	Semester II (15 credits)			
	ETAC 1212	Material Science	2	Compulsory
	ETAC 1222	Electrical Circuits	2	Compulsory
	EPHY 1233	Engineering Physics I	3	Compulsory
	EMAT 1242	Fundamental Mathematics II	2	Compulsory
	EMAT 1252	Mathematics for Engineering Technology I	2	Compulsory
	ITEC 1262	Object Oriented Programming	2	Compulsory
	EMGT 1272	Finance for Decision Making	2	Compulsory
	ELPC 1210	English Language Proficiency Course II	0	Compulsory
		Credits from Level 1 (Cumulative Credits)	30	
2	Semester I (15 credits)			
	ETAC 2113	Engineering Drawing	3	Compulsory
	ETAC2122	Engineering Mechanics I	2	Compulsory
	ITEC 2132	Computer Architecture	2	Compulsory
	EPHY 2143	Engineering Physics II	3	Compulsory
	EMGT 2152	Economics for Technology	2	Compulsory
	EMAT 2163	Mathematics for Engineering Technology II	3	Compulsory
	ELCS 2110	English Language & communication skills I	0	Compulsory
	Semester II (18-20 credits)			
	ETAC 2212	Presentation and Technical Report Writing	2	Compulsory
	ETAC2222	Industrial Health & Safety	2	Compulsory
	ETAC 2233	Workshop Technology	3	Compulsory
	ETSC 2243	Engineering Mechanics II	3	Compulsory
	ETSC 2252	Structural Analysis	2	Compulsory
	ETMC 22B3	Thermodynamics and Thermal Systems	3	Compulsory
	ETMC 22C3	Automobile Technology	3	Compulsory
	EMGT 22D2	Marketing Management	2	Optional #
	ELCS 2210	English Language & communication skills II	0	Compulsory
		Credits from Level 2 (Cumulative Credits)	33-35 (63-65)	
3	Semester I (15 credits)			
	EMGT 3112	Entrepreneurship & Small Business	2	Compulsory
	ETAC 3124	Production and Operations Technology	4	Compulsory
	ETAC 3132	Solid and Hazardous Waste Management	2	Compulsory
	ETSC 3142	Fluid Mechanics	2	Compulsory
	ETDC 3152	Electrical Installation	2	Compulsory
	ETDC 3163	Electrical Machines and Drives	3	Compulsory
	Semester II (18 - 20 credits)			
	EMGT 3212	Human Resource Management	2	Compulsory
	EMAT 3222	Statistics for Engineering Technology	2	Compulsory
	ETAC 3232	Air Conditioning, and Refrigeration	2	Compulsory
	ETAC 3242	Research Methodology	2	Compulsory
	ETAC 3252	Group Design Project	2	Compulsory
	ITAO 3262	Web Designing	2	Optional #
	ETSC 3272	Environment and Sustainability	2	Compulsory
	ETSC 3283	Steel Structure Design	3	Compulsory
	ETMC 32C3	Machine Element Design	3	Compulsory
		Credits from Level 3 (Cumulative Credits)	33-35 (96-100)	
4	Semester I (12 credits)			
	ETAC 4116	Industrial Training	6	Compulsory
	ETAC 4126	Individual Research Project	6	Compulsory
	Semester II (12-18 credits)			
	ETAC 4212	Business & Industrial Law	2	Compulsory

	ETAO 4222	Innovative Technological Entrepreneurship	2	Optional #
	ETDO 4232	Emerging Vehicle Technology	2	Optional #
	ETDC 4243	Mechatronics and Industrial Automation	3	Compulsory
	ETSC 4252	Computer Aided Structural Design	2	Compulsory
	ETCX 4262	Building Service Technology	2	Optional #
	ETMC 42D2	Food Manufacturing Technology	2	Compulsory
	ETMC 42E3	Advanced Manufacturing Methods	3	Compulsory
	ETMO 42F2	Industrial Maintenance and Energy Management	2	Optional #
		Credits from Level 4 (Cumulative Credits)	24-32 (120-132)	

Abbreviations: Refer the details under Table 3.3.5(a).

4. Academic Regulations and Procedures

4.1 General Registration

All applicants for the admission to the Bachelor of Engineering Technology Honours Degree programme in the Faculty of Technology, Wayamba University of Sri Lanka shall 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 should be admitted only with the consent of the Faculty Board.

The students admitted to the Faculty shall register as fulltime students after fulfilling the requirements for registration laid down by the University Grants Commission and the Wayamba University of Sri Lanka. Each student is required to maintain his/her registration at the Wayamba University of Sri Lanka during the fulltime study period of four (04) academic years in the Faculty through annual renewal process done by the Faculty Office. Any student who is unable to complete the requirements for graduation within four (04) academic years may renew the annual registration year subject to the criteria specified in Section 5.13.

4.2 Registration for Course Units

As soon as the details of course units are available on Learning Management System (LMS), all students may learn about the course units for which they can register for the particular academic years. For each academic year, all students should have registered for the course units that they wish to follow during the particular academic year (in both Semester I and Semester II) by submitting a Course Registration Form that can be obtained from the Faculty Office. A properly completed Course Units Registration Form should be submitted to the Assistant Registrar of the Faculty one week before the commencement of the particular academic year through the relevant Mentor or the Head of the Department.

N.B. Only the registered students for a particular course unit shall be permitted to participate in academic activities and sit for the continuous assessments including semester-mid evaluation, and semester-end examination of the course unit.

4.2.1 Add and Drop of Course Units

If any student wishes to add or drop any elective/optional course unit to/from already registered list, the student will be allowed to do so within only the first two weeks of each semester by submitting a written request to the Assistant Registrar of the Faculty with the recommendation of the Course Unit Coordinator of the particular course unit and the approval of the respective Head of the Department offering the course unit. Students are bound to complete any course units that are registered but are not dropped properly and their transcript would show the grades received for the courses bounded.

4.2.2 Renewal of the Registration for Course Units

- i) Any student who fails to satisfy the degree programme requirements as in Section 5.7 and discontinued from the proper batch, should re-register for the course units one week before the commencement of the respective academic year for participation in the academic activities with the immediately following (junior) batch. Such a student should also renew the annual registration of the University as applicable. The payment applicable for re-sitting the semester-end examination/s of course unit/s as applicable should be made to the Shroff of the University and submit the receipt to the Assistant Registrar of the Faculty four weeks before the commencement of relevant semester-end examination/s.
- ii) Any repeat student as specified in Section 4.6 should re-register for the said course unit one week before the commencement of the respective semester with the recommendation of the Course Unit Coordinator and the approval of respective Head of Department offering the course unit. Such a registered student can upgrade the continuous assessment marks (tutorials, assignments, designs, semester-mid evaluation) and re-sit for the semester-end examination of the particular course unit to satisfy the requirements.

- iii) Any student who was granted a deferment as described in Section 4.8 should also re-register for course units one week before the commencement of the particular academic year in order to follow the programme with the immediately following (junior) batch.

4.3 Registration for Semester End Examinations

All students who registered for a particular academic year shall register for the semester end examinations of relevant course units usually four weeks before the end of the ongoing semester. Application forms are available at the Faculty Office and students should enter all the course units which are properly registered and followed during the ongoing semester. Duly completed application forms should be submitted to the Faculty Office on or before the deadline announced.

Students who are having course units, of which total continuous assessment marks are below the prescribed pass marks as specified in Section 5.1.1 shall not be eligible to sit the semester end examinations of such course units. Accordingly, such course units shall not be included in the Admission Cards issued for the semester end examinations. All students shall satisfy the requirements specified in Section 5.5 to successfully complete the relevant semester.

4.4 General Academic Calendar

The general academic calendar consists of levels (academic years) and semesters. The degree programme will have four (04) Levels (academic years) and each Level (academic year) consists of two (02) Semesters. The Faculty Office will notify the commencements of semesters of each academic year with the approval of the Senate upon the recommendation of the Faculty Board. A general academic calendar will be as shown in Table 4.4.

Table 4.4 General academic calendar of the Faculty of Technology

Semester I	Weeks	Semester II	Weeks
<u>First half</u>	8	<u>First half</u>	8
Mid Semester Vacation	1	Mid Semester Vacation	1
<u>Second half</u>	7	<u>Second half</u>	7
Study Leave	2	Study Leave	2
Examination	4	Examination	4
Vacation Period and Holidays			8
Total			52

4.5 Attendance Policy

- i) Students' attendances of course units for which they have registered will be monitored throughout the relevant semester. It contains daily attendances for the lectures and laboratory, tutorial, design, field sessions etc. of the course units together with medical submissions and formal excuses granted for extracurricular activities. A student must maintain an 80% attendance for each course unit. The student must have physically attended at least 60% of the mandatory sessions conducted for each course unit. Thus, the maximum period that could be covered by approved medical certificate or any other valid excuses for fulfilling the attendance requirement is only 20% out of the total requirement of attendance of the course unit. Medical certificates should be submitted as specified in Section 4.7.1.
- ii) In the case of Industrial Training, attendance is required as specified in the Handbook of Industrial Training.
- iii) Submission of medicals should be done as per the guidelines in Section 4.7.
- iv) The students, who are representing the Faculty of Technology or the Wayamba University of Sri Lanka

in sports activities with the prior approvals from the respective Course Unit Coordinators, will be excused from the scheduled academic activities upon producing the evidence of participations in such events to the respective Course Unit Coordinators. However, it is essential to obtain the prior approval from the respective Course Coordinators for the participation in such events at least three (03) working days before the scheduled dates. Documents relevant to confirmation of the participation in the sport events should be submitted to the respective Course Coordinators through the Director/ Physical Education Unit within three (03) working days after the sport event.

- v) The students, who wish to participate in any other approved extracurricular activities, may also be excused at the discretions of the relevant Head of the Department considering the nature and acceptability of such activities. Prior approvals of the Head of Department should be obtained for the participation in the said extracurricular activities at least three (03) working days prior to the scheduled dates. The evidence of participation with the certification from relevant authorities should be submitted to the Head of the Department within three (03) working days after the event for granting the approval.

4.6 Repeat Students

- i) Any student, who fails to reach the pass marks specified in Section 5.1.1 or to meet the requirements specified in Section 5.5, shall be considered as a Repeat Student. Such a student should reattempt continuous assessments including semester-mid evaluations and/or semester-end examinations as applicable at the very next academic year and shall obtain the pass marks for the relevant continuous assessments and/or pass the course unit/s with “grade C”.
- ii) If the marks obtained for continuous assessments including semester-mid evaluation are not upgraded at any repeat attempt, the marks obtained at the proper attempt will be carried forward to be combined with the marks of the semester-end examination either at proper attempt or any subsequent repeat attempt to estimate the final grade of a course unit.
- iii) Any repeat student should pay the specified examination fees to the University and register for the relevant semester as specified in Section 4.2.2 by submitting the duly completed registration form with the payment receipt to the Assistant Registrar of the Faculty of Technology.

N.B. The highest grade awarded for a course unit at any repeat attempt shall be “grade C” pass. Details of grades and grade point values are given in Section 5.9.

4.7 Procedure for submitting Medical Certificates

Procedure approved by the Senate of the Wayamba University of Sri Lanka for submitting the Medical Certificates by the students is as given in Section 4.7.1 and Section 4.7.2.

4.7.1 Illness during Academic Activities and submission of Medical Certificates

- i) Students are requested to support the absence from academic activities due to illness by a valid Medical Certificate conforming to the format of a Medical Certificate issued by a Government Hospital.
- ii) It is highly recommended the students who are having illnesses to consult the University Medical Officer immediately. If medical leaves are essential for the recovery from illnesses, the University Medical Officer will issue Medical Certificates to the students.
- iii) If any student wishes, he/she can get medical assistance from a government or a private doctor. However, all Medical Certificates should be approved by the University Medical Officer.

4.7.2 Illness during Examination Period and submission of Medical Certificates

- i) Students who fall ill during examination time should contact the University Medical Officer at the University Medical Center immediately.
- ii) If a student falls ill at home or elsewhere during the examination time, he/she or his/her guardian should inform the Dean or the Assistant Registrar of the Faculty of Technology immediately followed by a letter indicating the nature of the illness and the name of the

attending doctor etc.

- iii) Within seven (7) days after recovery from the illness, Medical Certificate supporting the illness of the student should also be sent to the Dean.
- iv) Under exceptional circumstances if a student was not able to meet the dead line mentioned above, he/she could send his/her appeal to the Senate.
- v) All the Medical Certificates should be obtained from the University Medical Officer (UMO), District Medical Officer, Consultant Specialist in the particular field, Head of a Government Base Hospital, Medical Superintendent of a Provincial Ayurvedic Government Hospital, Ayurvedic Physician registered in the Ayurvedic Medical Council. Under exceptional circumstances Medical Certificates issued by Private Hospitals or registered private practitioners could be considered by the University Medical Officer or Medical Board. Medical Certificates should be in conformity with the format of a Medical Certificate issued by a Government Hospital

N.B. Under exceptional circumstances, if a student was not able to meet the deadline mentioned above, he/she could send his/her appeal to the Dean to be considered by the Faculty Board and the Senate with the observation of the University Medical Officer. The respective Faculty should obtain the observation of the University Medical Officer before reporting the matter to the Faculty Board and the Senate.

4.8 Deferment from Academic Program

When a student is unable to attend the academic programme for a long period by which the students become not eligible to successfully complete the academic works of the semester, then the student may be deferred to the following academic year. Such students are allowed to defer only after initial registration at the University. There must be a genuine reason presented with valid evidence such as a medical certificate and a written request to the Dean for the recommendation of the Faculty Board and the approval of the Senate for granting a deferment. The maximum period for a deferment is only one academic year. Any student who received a deferment should re-register to follow the programme with the immediately junior batch. Any request for deferment of more than one year should require the approval of the University Grants Commission.

5. Evaluation of Performance

5.1 Criteria for Evaluation of Performance

The performance of each student in each course unit shall be evaluated by continuous assessments and/or semester-end examination as announced at the commencement of the relevant semester.

5.1.1 Continuous Assessments

- i) The continuous assessments of a student's performance of a course unit should be based on specified combination of assignments including laboratory work, in-class assessments/tests, tutorials, quizzes, presentations, reports, semester-mid evaluations, presentation, viva-voce, and active participation in any other specified relevant academic activities.
- ii) To pass the continuous assessments of a course unit, the student shall reach the percentage marks for continuous assessments equivalent to 30%.
- iii) If the student fails to achieve the minimum prescribed marks for the continuous assessments of a course unit as specified above, he/she is not eligible for the semester end examination with the proper batch. He/she should complete such a course unit as a repeater.

5.1.2 Semester End Examination

- i) 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 and as approved by the Faculty Board and the Senate.
- ii) To pass the semester and earn the credit values of course units, the student shall obtain grades above "grade E" for the course units subject to satisfying the conditions given in Section 5.5. Otherwise, the student should repeat the semester end examinations of all relevant course units at the following academic year (junior batch) and obtain pass grades "grade C".

5.2 Academic Work Load

The normal academic work load of a full-time student in an academic year will be about 30 credits based on the credit value system described in Section 3.3.2. Full-time students must take a recommended minimum number of credits from Compulsory and Elective/Optional course units per semester and the recommended minimum is around 15 credits as shown in the Structures of Curriculum given by Tables 3.3.5 (a) & (b), Tables 3.3.6 (a) & (b), Tables 3.3.7 (a), (b) & (c), and Tables 3.3.8 (a) & (b) for the respective degree programmes. With the recommendation of Mentor/Head and the approval of the Faculty Board, a student is permitted to undertake a maximum of 3 - 6 credits above the normal work load of the academic year from Optional/Elective course units.

5.3 Grade Point Average

The performance of a student is eventually 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 the i^{th} course unit and n is the number of GPA course units.

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

N.B. The weightage for each semester is taken as uniform for the calculation of GPA.

5.4 Semester Grade Point Average

The performance of a student in a given semester [Semester Grade Point Average (SGPA)] is calculated using the above formula in Section 5.3 for all GPA course units registered (except for those awarded with academic concessions or withheld or dropped properly) in that semester.

5.5 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 grades and no more than three grades at the levels of C- , D+ or D. Any type of E grade shall be included in the calculation of SGPA. In addition, there shouldn't be no Medical Concession (M) or Academic Concession (N) or Withheld of Results (W).

5.6 Cumulative Grade Point Average

The Cumulative Grade Point Average (CGPA), which is calculated using the formula given in Section 5.3, 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 or withheld or dropped properly).

5.7 Academic Progression

A student who has not earned a CGPA of first three semesters (Level 1- Semester I, Level 1 – Semester II & Level 2 – Semester I) of 2.0 or above shall not be permitted to register for the fifth semester (Level 3 – Semester I) until the CGPA of the first three semesters are improved as required. Grade/s obtained for English Language will not be a barrier, provided CGPA and other criteria are satisfied.

5.8 Provisional Registration

If the condition in Section 5.7 is not satisfied by any student or not able to get verified due to non-release of the results of Level 1 Semester II repeat attempt or attempt due to any concession granted in the previous academic year, he/she should request for a provisional registration for Level 3 Semester I. Such a request should be considered at the Faculty Board subject to the condition that he/she is potentially able to satisfy the eligibility requirements by the results of the above repeat attempt or reattempt of Level 1 Semester I. If the above conditions in Section 5.7 are fulfilled after the release of above results, the student should request for a proper registration for Level 3 Semester I. Otherwise, he/she shall be discontinued from the proper batch and should satisfy the requirements with the immediately following (junior) batch.

5.9 Grades and Grade Point Values

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 subject to eligibility requirements stipulated in the Rules and Regulations. The Grade 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 shown in Table 5.9.

Table 5.9 Grades and Grade Point Values

Grades	Grade Point Values (GPV)	Notes
A+	4.0	Excellent
A	4.0	
A-	3.7	
B+	3.3	Good
B	3.0	
B-	2.7	
C+	2.3	Pass
C	2.0	
C-	1.7	Weak Pass
D+	1.3	Conditional Pass
D	1.0	
E	0	Fail
I	0	Incomplete

Notes:

- a) In order to earn “grade D” or above for a course unit, a student must score more than the minimum prescribed marks for the continuous assessment as described in Section 5.1.1. If the assessment is only by continuous assessment, minimum prescribe marks for continuous assessment will apply.
- b) “Grade D” or above is required to earn credit value for a course unit.
- c) “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”.
- d) Any grade below “grade C” is not accepted as a pass grade.
- e) “Grades C-, D+, D, or E”, which can be improved to a “grade C” are considered for calculating GPA and SGPA.
- f) A student, who receives a “grade E” for a course unit, is required to repeat only the semester end examination of said course unit.
- iv) A student who fails to meet the prescribed minimum marks for continuous assessments of a course unit, is not eligible for the semester end examination and receives a “grade I”. He/She shall reattempt to improve the continuous assessments marks to prescribed minimum marks and appear for the semester end examination at the following academic year (junior batch) as a repeat candidate and pass the course unit. The maximum grade that can be obtained at repeat attempt is “grade C”.
- g) A student, whose result of a course unit is withheld due to any reason, receives “grade W”.
- h) The continuous assessment marks shall be carried forward up to a maximum of four 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 of the course unit to the highest possible “grade C”. After four consecutive academic years (except the proper attempt), any repeat student should reattempt all continuous assessments of the relevant course units.
- i) A student who has missed a semester end examination of a course unit because of any reason other than medical reason 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, “grade E” shall be given. If the given reason is accepted by the Senate on the recommendation of the Faculty Board, a “grade N” shall be given and such a student should appear at the very next opportunity of semester end examination of the course unit and the attempt is considered as the proper attempt.
- j) A student, who has been granted concession on medical reason for semester end examination, shall be given “grade M” for the relevant course units. He/She shall appear for the very next opportunity of semester end examinations of the course units and the attempt is considered as the proper attempt.
- k) A student who registered for a course unit shall be counted as having completed the proper attempts in the relevant examinations irrespective of whether he/she appeared for the semester end examinations, except for academic concession or medical concession.
- l) Industrial Training is a compulsory course unit that students shall attend as prescribed in the Industrial Training Handbook and earn a minimum of grade “Pass - S” to obtain the Bachelor of Engineering Technology Honours 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 E” will be given. Graduation shall be withheld if Industrial Training is not successfully completed by a student.
- m) The mode of assessment and the distribution of weight between continuous assessments and semester end examination of each course unit shall be determined by the Faculty Board on the recommendation of the relevant Head of the Department and inform to the students at the commencement of each course unit.

5.10 Percentage Marks Ranges for the Grades

Percentage marks ranges for the purpose of reference are as given in Table 5.10.

Table 5.10 General Percentage Marks Ranges for Grades

Percentage Marks	Grades
85 and above	A+
70 to 84	A
65 to 69	A-
60 to 64	B+
55 to 59	B
50 to 54	B-
45 to 49	C+
40 to 44	C
35 to 39	C-
30 to 34	D+
25 to 29	D
0 to 24	E

5.11 Award of the Degree

5.11.1 Requirements for the Graduation

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

- earned a minimum of 120 credits including the credits from Industrial Training course unit,
- successfully completed any other mandatory requirements prescribed by the Faculty Board with the approval of the Senate,
- successfully completed all semesters as specified in under Section 5.5,
- obtained the Cumulative Grade Point Average (CGPA) of 2.00 or more at the end of Level 4 Semester II, and
- successfully completed mandatory Industrial Training course unit, Foundation course units such as English Language course units as prescribed by the Faculty Board with the approval of the Senate.

5.11.2 Award of Classes

A student who has satisfied requirements given in Section 5.11.1 is eligible for an award of a Class if he/she satisfies the conditions indicated in Table 5.11.2 within four academic years.

Table 5.11.2 CGPA for Award of Classes

Class/ Pass	CGPA
First Class	3.70
Second Class (Upper)	3.30
Second Class (Lower)	3.00
Pass	2.00

5.12 Effective Date of the Degree

The effective date of the degree shall be the day after the last date of the semester end examinations or the viva-voce examination of Industrial Training/Individual Research Project, which satisfies the conditions in Section 5.11.

5.13 Maximum Period for the completion of the Degree

The maximum period for the completion of all requirements for the award of the degree is six (06) academic years. The Senate of the University may grant one academic year at a time, beyond initial six (06) academic years, based on the merit of individual applications, for maximum of three (03) years.

5.14 Award of Gold Medals

The students with the best performance in each BETHons (Const Tech), BETHons (Electrotech) and BETHons (Mech & Mfg Tech) degree programmes are awarded "The Abans Engineering Gold Medal" and the student with the best performance in BETHons (Mat & Nano Sc Tech) degree programme is awarded "Senior Professor C.A.N. Fernando Gold Medal" at the General Convocation subject to following conditions:

5.14.1 Conditions for "The Abans Engineering Gold Medals"

- i) The nominee shall earn the highest Cumulative Grade Point Average (CGPA) over 3.4 from Engineering Technology course modules, and
- ii) The nominee shall earn a minimum Cumulative Grade Point Average (CGPA) over 3.4 at the end of Level 4 – Semester II, and
- iii) Keep good disciplinary records and professional conduct during the degree programme.

5.14.2 Conditions for "Senior Professor C.A.N. Fernando Gold Medal"

- i) The nominee shall earn the highest Cumulative Grade Point Average (CGPA) over 3.4 from Nano Technology course modules, and
- ii) The nominee shall earn a minimum Cumulative Grade Point Average (CGPA) over 3.4 at the end of Level 4 – Semester II, and
- iii) Keep good disciplinary records and professional conduct during the degree programme.

N.B.

The first two letters of the abbreviation of Engineering Technology course units are ET and that for Nano Technology course units are NANO.

In a case, where two or more students have the same highest CGPA, while fulfilling all other requirements for the award, the next decimal points of their GPA will be considered.

5.15 Re-scrutinizing of Marks and Grades of Undergraduates

5.15.1 Policy Guidelines

- i) All marks and grades obtained by a student at any examination (i.e. in-course assessment, assignment, semester examination, final examination, etc.) must be free of any errors of addition, computation and transcription.
- ii) Provisions shall be made for undergraduate students to submit request for verification of their examination marks and grades, if they wish to do so, particularly for the end-semester examinations and Final Examination.
- iii) However, the examiners' discretion to allocate marks for the answers presented in the answer scripts for the question(s) presented in the question paper, based on the pre-determined criteria and/or model answer expected shall not to be undermined and hence the verification process will be limited only to check for accuracy of addition, computation and transcription (ACT Verification) and not for re-marking of scripts.
- iv) The provision for requesting re - scrutinization of marks and grades shall be limited only during the 2 weeks immediately following the release of results of an examination. As the cost of re-scrutinization process must be borne by the student, a non-refundable fee, calculated on the basis of actual cost of re-scrutiny process shall be levied on the student.
- v) The Dean of the Faculty in consultation with the Chief Examiner of the examination shall convene Results Verification Board, constituted as prescribed by these by-laws and verification of results must be conducted in accordance with the guidelines prescribed herein.

- vi) If the marks and grades are not changed, the candidate shall be notified by the Dean through SAR/AR of the Faculty after the meeting of the Results Verification Board. However, if the marks and grades are changed, the outcome of the verification shall be notified to the candidate (s) only after the ratification of results by the Special Result Board of the Faculty in the case of end-semester examination. Whereas in the case of Final Examination, amended results should only be released after obtaining the approval of the Senate and Council of the University.
- vii) The results issued to the student (s) following the re-scrutiny of marks and grades shall be the final and no more requests shall be entertained thereafter.

5.15.2 Procedure

- i) SAR / AR of the Faculty should notify the students of the relevant examination the period during which the requests for verification of results are entertained by displaying a notice in the Notice Board of the Deans' Office.
- ii) A payment of Rs. 500/= (subject to revision) per course/subject of an end - semester examination shall be charged for verification of the marks and grades and the issue of Application Forms must be done only upon submission of receipt for the prescribed payment.
- iii) The Dean shall convene the Results Verification Board meeting for verification of marks/ grade within 3 working days upon closure of the applications.
- iv) The Results Verification Board shall consist of the following persons: 1. Dean of the Faculty (convener) 2. Head of Department (s) 3. Chief Examiner (if applicable) 4. Examiners in-charge of each subject/paper.
- v) When the Head is a Chief Examiner/Examiner in charge of each examination/ subject/paper, another member from the same Department can be called for the Results Verification Board.
- vi) The Head of Department in-charge of the relevant course (s) / subject (s) shall present the individual marks /grades sheets for different components of the examination (s) (i.e. written, oral, laboratory, continuous assessment, etc.) and the answer scripts for scrutiny of the Results Verification Board.
- vii) The Results Verification Board should proceed to check the accuracy of addition, computation and transcription of results (ACT Verification).
- viii) If the number of applications received is too large the Dean of the Faculty in consultation with the Chief Examiner can appoint relevant Sub-Committees for verification of marks and grades. In such instances verified results should be tabled at the Results Verification Board For ratification.
- ix) If there is no change of grades, the Dean of the Faculty through the SAR/AR of the Faculty should inform the candidate (s) soon after the Results Verification Board meeting.
- x) A Special Results Board should be held within five working days to ratify the results if a revision of marks /grades is necessary and the decision of the Special Results Board shall be the final.
- xi) If the marks and grades are changed, in the case of end-semester examination the outcome of the verification shall be notified to the candidate (s) following the ratification of amended results by the Special Results Board of the Faculty whereas in the case of final examination, amended results ratified by the Special Results Board further be approved by the Senate and Council of the University before it is released to the candidate (s).
- xii) SAR/AR of the Faculty should maintain a record of all verification applications and the outcome of all applications and should submit a report to the Faculty Board after completion of re-scrutiny process.

6. Department of Construction Technology

6.1 Expected Graduate Attributes

Students are expected to gain the following specific knowledge and skills through the study programmes offered by the Department of Construction Technology. Ultimately, they are expected to value and follow the professional conduct through the attributes developed during the study programme. The following are the specific knowledge, skills, and values that are expected to be imparted by the programme.

6.1.1 Knowledge

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Construction Technology will be able to demonstrate that they have knowledge and understanding of the core subject areas of:

- Construction material properties
- Mechanics of solids and structural analysis
- Hydraulic and environmental engineering applications
- Construction planning and management theories
- Transportation and highway engineering practices
- Geotechnical engineering applications
- Sustainability of construction
- Industrial engineering, industrial health and safety, and business law
- Principles of management
- Mathematics and computer-based applications

6.1.2 Skills

6.1.2.1 Intellectual Skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Construction Technology will be able to

- introduce innovative practices for the sustainability of construction
- identify the failures of the structural elements
- propose the solving methods for the structural failures
- innovate new technologies for the development of construction industry
- use appropriate design software packages for the construction projects

6.1.2.2 Practical/Professional Skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Construction Technology will be able to

- test the construction materials
- select the appropriate construction materials
- understand the structural drawings
- analyse the structural behaviours
- design the structural elements for a construction
- plan and schedule the activities of a construction project
- allocate the resources for the construction activities
- implement health and safety practices during the construction
- apply mathematical theories and statistical applications for the construction

6.1.2.3 Generic/Transferrable Skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Construction Technology will be able to

- work effectively in small or large teams
- work independently
- do self-study

- conduct the surveys
- design and carryout the industrial researches
- effectively communicate in formal and informal group settings

6.1.3 Values

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Construction Technology will be aware and value:

- ethical and professional practices
- scientific and evidence based practices
- planning and management practices
- professional career development and lifelong learning

6.2 Head of the Department

Dr. A.M.N. Alagiyawanna (Actg. Head)
 B.Sc.Eng. (Hons) (Moratuwa), M.Eng. (AIT),
 D.Eng. (Nagaoka), C.Eng., MIESL, MSLGS
 Email: nayana@wyb.ac.lk

6.3 Members of the Academic Staff

Senior Lecturer Grade I

Dr. A.M.N. Alagiyawanna
 B.Sc.Eng. (Hons) (Moratuwa), M.Eng. (AIT), D.Eng. (Nagaoka), C.Eng., MIESL, MSLGS
 Field of Specialization: Ground Improvement and Geotechnical Engineering
 Email: nayana@wyb.ac.lk

Senior Lecturer Grade II

Dr. (Ms) R. A. N. Dilrukshi
 B.Sc.Eng (Hons) (Moratuwa), M.Eng. (Moratuwa),
 Ph.D. (Japan), AMIESL
 Field of Specialization: Geotechnical Engineering
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Mr. W.A.D.G.I. Wanasinghe

B.Sc.Eng. (Hons) (Peradeniya), M.Eng. (Japan), AMIESL
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Lecturer (Probationary)

Mr. M. Kesavan
 B.Sc.Eng. (Hons) (Peradeniya), AMIESL, AMSSESL, GREENSLAP
 Field of Specialization: Civil Engineering
 Email: kesavan@wyb.ac.lk

6.4 Members of the Non-Academic Staff

Technical Officer

Mr. W.A.R Wijesuriya
 Dip. In English (WUSL), Dip. in IT (WUSL), Dip. in Journalism (SJP), NCICT (VTA)
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Works Aide

Mrs. J.A.D.D. Jayasooriya
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6.5 Facilities

The Department of Construction Technology offers the degree of the Bachelor of Engineering Technology Honours in Construction Technology [BETHons (Const Tech)]. The undergraduates who enter the Faculty of Technology, Wayamba University of Sri Lanka will get the opportunity to apply for the specialization in Construction Technology. The Department is currently working towards meeting the accreditation requirements under Sydney Accord for Engineering Technologists. Following laboratories and units of the Department are equipped with advanced and modern facilities required for the teaching and research activities of the degree programme.

- **Materials and Geotechnical Laboratory**
- **Surveying Laboratory**

6.5.1 Materials and Geotechnical Laboratory

Various types of modern equipment such as sieve analysis apparatus, Atterburge limits test apparatus, sand cone test apparatus, compaction testing apparatus, shear box apparatus, triaxial test apparatus, permeability and consolidation testing apparatus etc. are available for conducting the practical classes of geotechnical curriculum. Universal tensile testing machine, concrete cube crushing apparatus, AIV/ ACV testing equipment, slump testing apparatus, cube testing machine etc. facilitate the practical sessions of the materials curriculum. The laboratory is equipped with modern electrical oven to fulfill the needs in the entire Department. Fig. 6.5.1 shows some of those equipment in the laboratory.



Fig. 6.5.1 Some equipment in the Material and Geotechnical Laboratory

6.5.2 Surveying and Highway Laboratory

The Surveying laboratory contains advanced surveying equipment such as total stations, digital levels and GNSS equipment. The laboratory is also equipped with basic surveying instruments such as theodolites and levels to conduct the surveying field works. The highway engineering testing apparatus such as bitumen ductillometer and Marshall testing apparatus are also available in the same laboratory.



Fig. 6.5.2 Some equipment in the Surveying and Highway Laboratory

7. Department of Electrotechnology

7.1 Expected Graduate Attributes

7.1.1 Knowledge

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Electrotechnology will be able to demonstrate that they have knowledge and understanding of the core subject areas of:

- Electronic fundamental (Analog and Digital)
- Electrical circuit analysis and design
- Electronic control and instrumentation
- Microcontroller-based design
- Electrical power, electrical machines and electrical installation
- Communication technology
- Computer systems, computer architecture, and computer programming
- Engineering measurements
- Mechatronics and industrial automation
- Industrial engineering, industrial health and safety, and business law
- Principles of management
- Mathematics and computer-based applications

7.1.2 Skills

7.1.2.1 Intellectual skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Electrotechnology will be able to

- identify the failures of electronic, electrical and communication systems and apply appropriate techniques for solving failures.
- innovate new technologies for development of the industry.

7.1.2.2 Practical/Professional skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Electrotechnology will be able to

- handle measuring instruments properly
- understand the electrical drawings
- allocate the resources in working environment
- plan and schedule the activities of a working environment
- implement health and safety practices in to the working environment
- design the solutions for the technical problems

6.1.2.3 Generic/Transferrable skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Electrotechnology will be able to

- work effectively in small or large teams
- work independently
- do self-study
- conduct the surveys
- design and carryout the industrial researches
- effectively communicate in formal and informal group settings

7.1.3 Values

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Electrotechnology will be aware and value:

- Ethical and professional practices

- Scientific and evidence based practices
- Planning and management practices
- Professional career development and lifelong learning

7.2 Head of the Department

Dr. (Mrs.) J. M. J. W. Jayasinghe/ Head
 B.Sc.Eng. (Hons.) (Peradeniya), Ph. D. (Peradeniya)
 Senior Member, IEEE (USA); Associate Member, IESL
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7.3 Members of the Academic Staff

Lecturer (Probationary)

Mr. M. R. H.E. Bandara
 BTech. Hons (Eng.) (OUSL), Reading for M.Phil.
 Associate Member, IESL; Member, IEEE; Life Member, SLAAS
 Field of Specialization: Electronic and Communication Engineering
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Ms. W.M.S.M. Wickramasinghe
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 AMIESL
 Field of Specialization: Electrical & Electronic Engineering
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Mr. W.E.P.S. Ediriweera
 B.Sc.Eng. (Hons) (Moratuwa), M.Sc. (By Research) (Moratuwa), AMIESL
 Field of Specialization: Electrical & Electronic Engineering
 Email: sampathe@wyb.ac.lk

Mr. T.M.P. Tennakoon
 B.Sc.Eng. (Hons) (Ruhuna), AMIESL
 Field of Specialization: Electrical and Information Engineering
 Email: priyashanthat@wyb.ac.lk

7.4 Members of the Non-Academic Staff

Trainee Technical Officer

Mr. N. G. Jayashanka Anushan
 BTEC HND in Software Engineering (London Metropolitan University)
 Email: jayasankaanushan199@gmail.com

Laboratory Attendant

Mr. Udesch Madushan
 Computer Hardware & Networking course (NVQ Level-4)
 Email: udesch61@gmail.com

7.5 Facilities

Following laboratories and units of the department are equipped with advanced and modern facilities.

- Electrical and Electronics Laboratory
- Electrical machines & communications Laboratory
- Measurement Laboratory
- Computer laboratory

7.5.1 Electrical and Electronics Laboratory

The Electrical & Electronics Laboratory is well equipped and cater the needs of students according to the syllabus. The laboratory can facilitate around 40 students at one time. In this lab, the practical of courses such as Applied Electricity, Analog electronics and Digital Electronics are conducted. Fig. 7.5.1 shows some of those equipment in the laboratory.



Fig. 7.5.1 Some equipment in the Electrical and Electronic Laboratory

7.5.2 Electrical Machines and Communications Laboratory

This laboratory is equipped with ANSYS package software such as HFSS, Designer, Q3D Extractor, and Siwave which can be used for PCB designing, antenna designing, electromagnetic simulation etc. Chemical free automated PCB prototyping machine with latest technology used for printing circuits and Educational trainer kits used to enhance the technical skills of students and to teach the basic principles of energy and electricity are also available in the laboratory as shown in Fig. 7.5.2.



Fig. 7.5.2 Some equipment in Electrical Machines and Communication Laboratory

7.5.3 Measurement Laboratory

Various types of electrical measurements are used in electrical engineering practice for measuring the different electrical parameters like voltage, current, power, unknown parameters etc. with precision & calibration of different types of instruments.

The measurement laboratory is equipped with electrical and electronic measuring equipment as well as physical, thermal, mechanical and surveying equipment as shown in Fig. 7.5.3. Proper use of measuring instruments is essential in order to obtain accurate measurements as well as to maintain measuring instruments in good condition.



Fig. 7.5.3 Some equipment in Measurement Laboratory

7.5.4 Computer Laboratory

The computer laboratory can accommodate around 70 students and each computer has latest technology with internet facilities. Logger-Pro useful for data collection are installed on computers. Practical sessions of course units such as object oriented programming, computer programming, telecommunication technology, web designing and statistics for engineering technology are conducted in this laboratory shown in Fig. 7.5.4.



Fig. 7.5.4 Computer Laboratory

8. Department of Nano Science Technology

8.1 Expected Graduate Attributes

8.1.1 Knowledge

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Material and Nano Science Technology will be able to demonstrate comprehensive knowledge on following core subject areas in relation to Material and Nano Science Technology aiming to become a graduate engineering technologist in product designing:

- Characterization of Nano Materials
- Industrial application of Nano Technology
- Renewable energy
- Ceramic applications
- Carbon industrial applications
- Electronic applications
- Waste management & Environmental applications
- Agriculture and food applications
- Biological applications of Nano Technology
- Green Nano Technology design
- Medical applications, health and safety principals
- Rubber and Polymer applications
- Mineral Applications
- Textile Applications
- Water resources
- Entrepreneurship
- Mathematics and Statistics
- Computer based applications
- Management

8.1.2 Skills

8.1.2.1 Intellectual Skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Material and Nano Science Technology will be able to,

- Apply knowledge and practical experience to design novel products and improve current products using Nano Technology
- Propose sustainable solutions to the existing technology problems
- Investigate areas to support Sri Lanka's economy and propose necessary long term and short term solutions
- Create positive thinking among general public towards using Nano Technology to uplift living conditions
- Propose innovative methods to rearrange and improve the processes and products using Nano technology
- Use the confidence obtain from the degree program to start their own business.
- Use strategies to engage with international and national industries

8.1.2.2 Practical /Professional Skills

A student who has completed the Degree of Bachelor of Engineering Technology in Material and Nano Science Technology will be able to,

- Identify suitable nano-materials for chemical, physical, biological, medical, food, agriculture, water, electronic devices, renewable energy, waste management, minerals, etc.
- Demonstrate the uses of nano-materials for product design and product improvement to the stakeholders
- Consult small businesses and entrepreneurs

8.1.2.3 Generic/Transferable Skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Material and Nano Science Technology will be able to,

- Realistic planning and organizing practices
- Professional and personal life balance
- Work independently as well as effectively in teams
- Capacity to deal with non-routine process
- Make sustainable decisions
- Communicate effectively
- Initiate work independently

8.1.3 Values/Attitudes

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Material and Nano Science Technology will be aware and value,

- Professional career development
- Lifelong learning
- Sustainable practices
- Ethical and professional practices

8.2 Head of the Department

Prof. C.A.N. Fernando

B.Sc. (Sri J'pura), PG. Dip (Sri J'pura), M.Phil (Ruhuna), Ph.D. (Kanazawa)

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8.3 Members of the Academic Staff

Senior Professor of Nano Technology

Prof. C.A.N. Fernando

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Senior Lecturer Grade I

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Senior Lecturer Grade II

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Dr. Murthi S. Kandanapitiye

B.Sc. (UOC), Ph.D. (USA)

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Lecturer (Probationary)

Dr. (Ms.) P.G.D.C.K. Karunarathna

B.Sc. (WUSL), Ph.D. (WUSL)

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Dr. (Ms) S.P.A.U. K. Samarakoon

B.Sc. (WUSL), Ph.D. (WUSL)

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Dr. N.W.P.S. Perera
B.I.S (OUSL), Ph.D. (WUSL)
Email: pradeep@wyb.ac.lk

8.4 Members of the Non-Academic Staff

Technical Officer

Mr. V. D. M. C. I. Vaiydyarathna
Mrs. H.M.H.J. Amarasinghe

Lab Attendant

Mr. S.R. Eakanayake
Mr. D.M.D.M. Dissanayaka
Mr. B.G.N.D. Weerasekara
Ms. A.M. H.K. Athapattu

8.5 Facilities

Facilities in the Nano-laboratory is shared with this degree program providing fully furnish two lecture halls for 120 students, four staff rooms and fully equipped and furnished lab facilities. Currently, the Department of Nano Science Technology occupies five laboratories as shown in Fig. 8.5 (a):

- Biochemistry Laboratory
- Biotechnology Laboratory with Cold Room Facility
- Electronics Laboratory
- Computer Laboratory
- Advanced Material Laboratory



Fig. 8.5 (a) Nano laboratory facilities

Advance equipment available for undergraduate degree and postgraduate research programs can be listed as follows.

- i) Gas-Chromatograph
- ii) UV/Visible Spectrophotometer
- iii) Potential Sweeper
- iv) Computerized Potentio-Stat/ Galvo-Stat
- v) FTIR spectrophotometer
- vi) Particle size analyser
- vii) Impedance measurement
- viii) High Temperature/Vacuum Ovens,
- ix) DNA Quantifier
- x) Atomic Absorbance Spectrometer
- xi) X-Ray Diffractometer
- xii) DNA visualization system
- xiii) PCR system
- xiv) Micro/Refrigerated centrifuge
- xv) ELISA machine
- xvi) Surface resistivity measurement system
- xvii) Digital Thermal Analyser
- xviii) Rotary Vacuum Evaporator
- xix) Ultra-Pure Water Unit



Fig. 8.5 (b) Nano laboratory facilities

8.6 Postgraduate and Other Programs

Department of Nano Science Technology consists of a strong postgraduate framework that offers Master of Philosophy (M.Phil.) and Doctor of Philosophy (Ph.D.) degrees for the talented individuals who thrives for the academic excellence. The students who wish to engage in high-end research are supported through the state of the art laboratories and experienced academic staff. The research facility is fully equipped to conduct research in numerous areas including,

- energy harvesting (solar cell, fuel cell)
- energy-storing (supercapacitors, batteries)
- Water (water quality, filters)
- Microbiology (DNA sequencing)
- Agriculture (SMART fertilizers)
- Semiconductor Materials
- Thin Films, H₂ production from photoelectrochemical cells for future energy needs
- Photo-catalysts for H₂ and O₂ production from water
- LB film research
- Carbon purification for super capacitors from coconut shell charcoal
- Nano-TiO₂ from Ilmenite in Sri Lanka for Solar Energy Conversion and other applications

- Synthesis of GO
- rGO from Sri Lankan Graphite for electronic devices
- Natural coir fibre applications
- Bamboo activated carbon applications
- Coconut Shell Activated Carbon for water filters
- Gas sensors
- Light sensors
- Nano products from wastage
- Conductive plastics
- Conductive paints
- Value added products
- Nano-bio sensors
- Natural fibre synthesis

9. Department of Mechanical and Manufacturing Technology

9.1 Expected Graduate Attributes

Students are expected to gain the following specific knowledge and skills through the study programmes offered by the Department of Mechanical and Manufacturing Technology. Ultimately, they are expected to value and follow the professional conduct through the attributes developed during the study programme. The following are the specific knowledge, skills, and values that are expected to be imparted by the programme.

9.1.1 Knowledge

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology will be able to demonstrate that they have knowledge and understanding of the core subject areas of:

- Manufacturing systems including CAD and CAM
- Mechanics of machines and machine element design
- Thermodynamics, air conditioning and fluid mechanics
- Electrical power, machines, and installations
- Materials, mechanics of solids, and structural analysis
- Energy, environment, and sustainability
- Measurement, electronics, controllers
- Automobile engineering and hybrid vehicle technology
- Food manufacturing technology
- Industrial automation and mechatronics
- Industrial engineering, industrial health and safety, and business law
- Principles of Management
- Mathematics and computer-based applications

9.1.2 Skills

9.1.2.1 Intellectual skills

A student who has completed the Degree of Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology will be able to:

- Apply knowledge of scientific engineering fundamentals to solve mechanical and manufacturing engineering problems
- Analyse engineering problems using analytical and computer-aided tools to investigate or improve existing mechanical and manufacturing engineering systems
- Create or design solutions to mechanical and manufacturing engineering technology problems to meet specifications with due considerations for public health and safety-cultural-societal-environmental aspects
- Investigate mechanical and manufacturing technology problems by accessing relevant data from codes, data bases and literature, design conducting experiments to reach valid conclusions
- Select and effectively use modern engineering and IT tools for analysing, creating, designing, or investigating mechanical and manufacturing technology problems with an understanding of the limitations of the tools
- Communicate effectively with engineering communities and society at large orally and by written mediums

9.1.2.2 Practical/Professional skills

A student who has completed the Degree of Bachelor of Engineering Technology in Mechanical and Manufacturing Technology will be able to:

- design solutions for mechanical and manufacturing industrial requirements
- select materials, components, and systems for designs, maintenance, and modifications of mechanical and manufacturing engineering-related equipment
- create drawings, reports, and presentations

9.1.2.3 Generic/Transferrable skills

A student who has completed the Degree of Bachelor of Engineering Technology in Mechanical and Manufacturing Technology will be able to:

- work effectively in teams
- work independently
- do self-study
- manage time and do multi-tasking
- effectively communicate in formal and informal group settings

9.1.3 Values

A student who has completed the Degree of Bachelor of Engineering Technology in Mechanical and Manufacturing Technology will be aware and value:

- Ethical and professional practices
- Scientific and evidence-based practices
- Environmental-friendly and sustainable practices
- Professional career development and life-long learning

9.2 Head of the Department

Dr. I. P. M. Wikramasinghe

B.Sc.Eng. (Hons.) (Peradeniya), Phil (Peradeniya), M.Sc. (Texas), Ph.D. (Texas)

Email: manjulaw@wyb.ac.lk

9.3 Members of the Academic Staff

Senior Lecturer Grade I

Dr. I. P. M. Wickramasinghe

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Field of Specialization: Mechanical Engineering (Control and Automation)

Email: manjulaw@wyb.ac.lk

Lecturer (Probationary)

Mr. K.P.M. Priyankara

B.Sc.Eng. (Hons) (UOR), Reading for MSc (UOM)

Associate Member, IESL

Field of Specialization: Mechanical and Manufacturing Engineering

Email: manoj@wyb.ac.lk

Mr. R.K.W.H.M.K. Elkaduwe

B.Tech. Mechanical Engineering (MNNIT Allahabad, India)

Associate Member, IESL

Field of Specialization: Mechanical Engineering

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Mr. K.P.P. Sanjeeva

B.Sc. (Eng.) (Hons.) (UoM)

Associate Member, IESL

Field of Specialization: Mechanical Engineering

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9.4 Members of the Non-Academic Staff

Trainee Technical Officer

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Lab Attendant

Mr. W.A.M.P. Wijendra
NVQ Level 4 - Automobile Mechanic, National Certificate in Technical Teaching,
NITE, SL
Email: mwijendra@wyb.ac.lk

Mr. M.G.G.A. Muthunayake
NVQ Level 3 – Draftsmen
Email: geethm@wyb.ac.lk

9.5 Facilities

The Department of Mechanical and Manufacturing Technology offers the degree of Bachelor of Engineering Technology Honours in Mechanical and Manufacturing Technology [BETHons (Mech Mfg Tech)]. The undergraduates who enter the Faculty of Technology, Wayamba University of Sri Lanka will get the opportunity to apply for the specializing in Mechanical and Manufacturing Technology. The Department is currently working towards meeting the accreditation requirements under Sydney Accord for Engineering Technologists. The Department is currently operating Physic Laboratory, Drawing Office, Manufacturing Laboratory, six Workshop units and Project room.

9.5.1 Physics Laboratory

The Engineering Physics laboratory provides students with opportunity perform engineering physics experiments.

9.5.2 Drawing Office

Engineering Drawing office facilitates students to practice engineering drawings.

9.5.3 Manufacturing Laboratory

A modern Manufacturing Laboratory has a CNC Milling machine and a 3D Printer for academic activities and student projects.

9.5.4 Workshop Units

The workshop facilities cover heavy machine equipment such as Lathe, Milling, Shaping, Welding, Fitting and Carpentry equipment. The facilities are used for mandatory practical class and are also available for students on request to practice freely and to use for their projects. Non - academic staff is available for students to get access and help for using the facilities with the approval from the Head of the Department.



Fig.9.5 Some Machineries and Equipment available in Laboratories

9.5.5 Students' Project Room

There is a dedicated project room for students to work after hours on their projects. The facilities are available on request at least by 5 students at a time.

9.6 Postgraduate and Other Programs

At present the academic staff of the Department supervise some Master of Philosophy research based degrees in the areas of Image Processing and Automation. The Faculty Higher Degree committee overseas the postgraduate programs of the Faculty. Students with Bachelor degrees with classes and merits are qualified for pursuing higher degrees. Various competitive grants are available for research programs from national level funding agencies.

10. Other Facilities available to the Students

10.1 Department of English Language Teaching

A major fact to be emphasized is that the medium of instruction in the Faculty is English. Therefore, a high literacy standard of the language is obviously sought. The main objective of English Language courses is to improve the proficiency level of English language of the undergraduates to enhance their pursuit of the degree programme successfully and effectively, which would ultimately lead to a better employability.

10.1.1 Course Units offered by the Department of English Language Teaching

To achieve the above objective, the Department of English Language Teaching offers the following course units for the undergraduates of Faculty of Technology:

For the programmes of the Bachelor of Engineering Technology Honours in Construction Technology / Electrotechnology / Mechanical and Manufacturing Technology

Intensive course

- Level 1 - Semester I : ELPC 1110 English Language Proficiency Course I
Semester II : ELPC 1210 English Language Proficiency Course II
- Level II - Semester I : ELCS 2110 English Language & Communication Skills
Semester II : ELCS 2210 English Language & Communication Skills II

For the programme of the Bachelor of Engineering Technology Honours in Material and Nano Science Technology

Intensive course

- Level 1 - Semester I : ETCH1110 English for Technology I
Semester II : ETCH1210 English for Technology II
- Level II - Semester I : ETCH2111 English Language & Communication Skills I
Semester II : ETCH2211 English Language & Communication Skills II
- Level III - Semester I : ETCH3111 Advanced English for Engineering Technology
Semester II : ETCH3210 Business English for Engineering Technology
- Level IV - Semester II : ETCH4210 Academic Writing and Presentation Skills

10.1.2 Members of the Academic Staff

Head of the Department/ Coordinator

Dr. K.M. Dissanayake
B.A. (Hons.) (Peradeniya), M.A. (Kelaniya), PGDBM (Wayamba), Ph.D. in TESL (UPSI, Malaysia)

Senior Lecturer Grade II

Dr. K.M. Dissanayake
B.A. (Hons.) (Peradeniya), M.A. (Kelaniya), PGDBM (Wayamba), Ph.D. in TESL (UPSI, Malaysia)

Mr. M.K.S.M. Samaranayake
B.A. (Kelaniya), PG.Dip. (TESL) (Colombo) M.A. (Kelaniya), M.A. in TESL (OUSL)

Mr. E.M.H.J. Edirisinghe
M.A. (Kelaniya), M.A. in TESL (OUSL), B.A. (Sri J'pura), PG.Dip. (Sri J'pura)

Mrs. W.S.A. Fernando
B.A. (Sri J'pura), PG.Dip. (TESL), (Colombo) M.A. (Kelaniya), M.A. in TESL (OUSL)

10.2 Library

The Wayamba University Library started its full functions as a University Library after 2000. There are two Libraries at Kuliapitiya and Makandura. The Library in Kuliapitiya is functioning as the Main Library and catering for the faculties located in the Kuliapitiya premises.

The Main Library has around 40,000 volumes related to the subjects of different faculties. The collections of periodicals in print version are about 25 titles and all university scholars as well as researchers and undergraduate students and postgraduate students are provided access to online databases. This all web based information can be freely accessed from within the both premises of Wayamba University. The E-Journals information is listed below.

- Emerald <http://www.emeraldinsight.com/>
- SAGE Research <http://srmo.sagepub.com/>
- Wiley Online <http://onlinelibrary.wiley.com/>
- Cambridge University Press <http://journals.cambridge.org/>
- Oxford Journals <http://www.oxfordjournals.org/>

Further users can ask to download useful articles from bellow sites:

- Taylor & Francis (<http://www.tandfonline.com/>)
- Elsevier (<http://www.sciencedirect.com/>)

Subject related DVDs and CDs are also available for reference in the computer unit of the Library. The Library also adds 1500 – 2000 to its collection every year.

In addition to the Reference and Lending services, Computer laboratory facilities, Staff Development collection, Special collection related to Social, Economical, Cultural, Political background in Sri Lanka, Paper cuttings, Past papers, Theses & students training reports, User Education programmes such as; Library Orientation and Learning skill Development programme covering Online Public Access Catalogue (OPAC) and online searching facilities, Information retrieving, analysing, organizing and presenting techniques with citations and reference styles etc. Inter Library loan, current awareness Services and referral services are available at the Library.

10.2.1 Staff of the Library

Librarian (Actg.)

Mr. W. Punyawardena

B.A. in LIS (Kelaniya), PG Diploma in LIS (Kelaniya), ALA(SL), FLA(SL), Chartered Librarian, Master degree in Library and Information Science (UOC)

Senior Assistant Librarian

Mrs. W.M. Thusithakumari

B.A. (Hons.) (Kelaniya), MSSc in LIS (Kelaniya), ASLLA, Chartered Librarian

Assistant Librarian

Mr. K.G.I. Jayawardana

B.A. (Hons.) (Kelaniya)

Assistant Registrar/ Library Services

Mrs. S. Pathiraja

B.A. (Kelaniya), ASLLA, Chartered Librarian

Programmer Cum Systems Analyst

Mr. E.M.C.L. Ekanayake

B.Sc. (Wayamba), M.Sc. (Peradeniya) (On Leave)

10.3 Information and Communication Technology Center

The Wayamba University of Sri Lanka has two Information and Communication Technology (ICT) Centres, one in the Kuliyaipitiya premises and the other in the Makandura premises. The ICT Centre Kuliyaipitiya provides computing and information technology resources, services, and support to Kuliyaipitiya premises of Wayamba University. It provides IT training programmes for students, staff, and external professionals to improve demanding IT skills. It is committed to support academic activities by promoting on-campus information literacy, and by providing a suitable information technology environment. To ensure the smooth proceeding of the educational and research activities, the centre also offers comprehensive services using the latest advances in information technology. These services include operating multiple services, updating and maintaining the Wayamba University Website, the Learning Management System and maintaining networks that form the University's ICT infrastructure.

The University has identified that the literacy in IT is one of the basic skills that makes graduates employable. The literacy in IT is salient in continuing the undergraduate education in Wayamba University of Sri Lanka. The ICT Center provides variety of programs for undergraduates including Diploma and Certificate Courses in Information Technology, Web Designing, Computer Graphics, and Software Programming.

10.3.1 Staff of the Information and Communication Technology Centre

Director

Dr. Upanith S. Liyanaarachchi
B.Sc. (WUSL), Ph.D. (WUSL)
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Lecturers

Mr. H.M.A.J. Herath
B.Sc. (Hons) (Rajarata)
Email : akila@wyb.ac.lk

Instructor

Mr. A.C.A. Wahab
B.Sc. Applied Science (Wayamba)

System Engineer

Mr. H.M.A.K. Bogoda
B.Sc. (Hons.) Computer Science (Peradeniya)

10.4 Career Guidance Unit

The Career Guidance Unit (CGU) assists undergraduate students in making a successful transition from their academic pursuits to their career goals. The CGU strives to provide a well-balanced variety of direct services, educational programs, and resource materials so students may:

- Secure meaningful employment
- Obtain internships
- Pursue additional education consistent with their career goals

Undergraduates who are selected to participate in the project will go through personal development programmes in the form of workshops and seminars on soft skills, entrepreneurship and other related areas, which are critical for their survival in the corporate world. Those who participate in these events only will be qualified for the Career Fair where both companies and students will meet in the form of personal interviews.

The Career Guidance Unit (CGU) of the Wayamba University of Sri Lanka was established on January, 2003 through the initiative of the University Grant Commission (UGC), Sri Lanka with the objectives of enhancing the quality of university students' professional skills and soft skills (21st century skills), whilst strengthening

the link between university students and the corporate sector. Since the establishment, the unit has been organizing events, facilitating this purpose and the unit is functioning directly under the Vice-Chancellor.

10.4.1 Staff of the Career Guidance Unit

Director

Dr. H.M.A. Herath

B. Com (RUH), PGDM in Education, M.Sc. (SJP), Ph.D. (Northern University of Malaysia)

Phone: 037 22 82091 (Office), 071 8132101(Mobile)

Email: hemuherath@gmail.com

Management Assistant

Mr. Sanjeewa Janakasiri

BA (JPura), NDCG (SLFI), HRM (IPM)

Phone: 094 31 33 14283 (Office), 094 71 71 36870 (Mobile)

Email: sanjeewa.jan@gmail.com

10.5 Department of Physical Education

The Department of Physical Education is the key provider and the promoter of the best possible sports and recreation environment for the University Community. We consider that the high standards of health and fitness in both students and staff lead to an active cooperation in working environment and a healthier, happier and safer community.

Head of the Department is stationed at Kuliyapitiya premises and the sub unit is established in Makandura premises. All the administrative processes are handled by the main department and it coordinates the both premises. The Department of Physical Education eagerly focuses their working force for one vision through developing physically, mentally and sociologically wellbeing persons to the society.

10.5.1 Staff of the Department of Physical Education

Director

Mr. R.J. Wellassa

B.Sc. (Keaniya), Postgraduate Diploma in Physical Education (Peradeniya)

TP : 037-2283974, 071 8099813 (Mobile)

Email: directorphysical@wyb.ac.lk

Instructors in Physical Education

Mr. GWSR. Wickrama - IPE (Grade – I)

B.A. Sri Jayawardenepura, Diploma in Sports Sciences, Post Graduate Diploma in Physical Education

Mr. KAM. Bandarathilaka -IPE (Grade – III)

B.Sc. (Business Management), Wayamba University of Sri Lanka, Reading for M.Sc. (Peradeniya)

Mrs. MA. Sammani - IPE (Grade – III)

B.Sc. (Agriculture), Wayamba University of Sri Lanka

Mrs.K.A.C. Chathurangani - IPE (Grade – III)

B.Com, University of Kelaniya

10.6 University Medical Center

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 disease, he/she is directed to special clinics in the hospital for treatments. During the academic year, the Medical Center is open for treatment for students as well as staff from 8.00 am to 4.00 pm on weekdays. Most of the drugs prescribed by the Medical Officer are given free of charge from the Medical Center.

10.7 Facilities for Entrepreneurship Skill Development

The University Business Linkage (UBL) is providing facilities for commercialization of any technology and products developed within the University. Students are encouraged to apply and join various training programs that are provided to the students through UBL. The Incubation and Technology Transfer Centre and other facilities provide free services for students to develop businesses while being students and develop into matured businesses even before graduation.

10.8 Counseling Service

It is understood that students would need the assistance and guidance to sort out many of the problems they would face from time to time during a 3-4 year long stay at the University. Irrespective of the nature of problems or grievances, the Faculty makes arrangements to provide a counselling service for all students of the Faculty.

The Student Counsellor and Mentors, who are willing and prepared to listen to any student matter and provide the utmost guidance and advise to help the students is appointed in every academic year from both senior and junior staff of the Faculty.

The Student Counsellor thus appointed will be notified at the beginning of the academic year and all students are strongly advised to consult the Student Counsellor prior to seeking appointments with Heads of Departments or the Dean of the Faculty. Any written student request should be addressed to the Assistant Registrar of the Faculty through the Student Counsellor and where necessary through the relevant Head of the Department.

10.9 Financial Assistance

There are several financial assistance programmes to help the students to 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

10.9.1 Mahapola Higher Education Scholarship

The University Grants Commission sends application forms to all university entrants to apply for this scholarship. The students should send the duly completed forms to the University Grants Commission as instructed in the application form. A merit scholarship is also granted according to student's merits performance at A/L Examination. Amount of money paid for these two scholarships is given below and recipients are entitled to maximum 10 installments per academic year.

Mahapola Higher Education Merit Scholarship: Rs. 5050 per Installment

Mahapola Higher Education General Scholarship: Rs. 5000 per Installment

The monthly attendance of 80% for academic activities will be considered for each and every recipient when distributing the monthly installments.

10.9.2 Student Bursaries

The students who are not receiving Mahapola Higher Education Scholarships, may apply for bursaries offered by the University. The University calls applications for Student Bursary from the Wayamba University entrants. As per the UGC circular 03/2019, any student shall be eligible to apply for a Bursary if he/she satisfies each of the following conditions:

- i) The student should be a citizen of Sri Lanka.
- ii) He/she should be registered as an internal student for a full-time course of study in a University/Higher Educational Institution (HEI).
- iii) Parental Income Ceiling
 - a) Parental income should be equal to or less than Rs. 500,000.00 per annum with effect from the Academic year 2017/2018 onwards.
 - b) The above Income ceiling will be effective for the students registered for the academic year 2017/2018 onwards. However, students who are not in receipt of any financial assistance as at the effective date of above circular shall also be eligible to apply for Bursary if their parental income falls within the revised limits.
- iv) The following concessions to be added to the income ceiling as specified in Section (iii) above.
 - a) Rs. 24,000.00 per school going sister/brother who is 19 years or under, up to a maximum of three children.
 - b) Rs. 36,000.00 per child following a course of study in any University or Higher Educational Institution (HEI) in Sri Lanka, to determine the eligibility of the 2nd child and above, provided that the first child is not in receipt of a Mahapola/ Bursary.
- v) At the time of selection of student for Bursaries, if the parents of the students are separated and there is neither documentary evidence to prove it nor legal action initiated in relation to the said separation, the determination of income ceiling shall be considered after receiving Grama Niladhari Report with the police report to the respective Police division.
- vi) If the student is employed his/her income from such employment should be added to the Parental Income.
- vii) If the student is employed and married, the student and the spouse should be considered as a separate family and his/her eligibility for Bursaries will be determined according to the rules and regulations specifies in Section (iii) and (iv) above.

All students who have been qualified for Bursaries will be entitled to receive a Bursary of Rs. 4000.00 per month subject to maximum of 10 installments per year.

The monthly attendance of 80% for academic activities will be considered for each and every recipient when distributing the monthly installments.

10.10 Accommodation Facilities

At present, the University provides 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. Students, who wish to obtain the accommodation facilities, should duly complete the specified application form and hand over to the Student Welfare Branch together with all necessary supporting documents/ certified copies of relevant documents. The list of selected students will be notified by the Assistant Registrar/ Student Welfare Branch considering the available vacancies.

10.11 Cafeteria Facilities

At present, there are two cafeterias located in the Kuliapitya premises. Students can take their meals from any cafeteria.

10.12 Monthly Season Tickets

Wayamba University students are able to buy monthly season tickets at concessionary rates for the train service and for the public bus service if they are not living in the University hostels. The

students who wish to obtain the facility should submit a written request to the Assistant Registrar/Student Welfare Branch and obtain a letter to submit to relevant transport authority for obtain a season ticket under concessionary rate.

10.13 Banking Facilities

A branch of Bank of Ceylon (BOC) is located at the University premises. The usual banking hours are applied to this branch also. Students' Mahapola Higher Education Scholarships and Students' Bursaries are directly transferred to the recipients' bank account in the BOC. All payments to the University can be made at this branch of BOC.

11. Student Unions and Societies

11.1 Student Union of the Faculty of Technology

As provided in Section 8 of the Students Union By-Law No. 1 of 2000, the Vice-Chancellor has pleasure in nominating the Dean as the Election Officer to conduct an election to elect the following office bearers of the Student Union of the Faculty of Technology specified in Section 6 (1) of the Schedule of the Universities Amendment Act. No. 26 of 1988.

- President
- Vice President
- Secretary
- Editor
- Junior Treasurer
- Six Committee Members

In addition, two representatives could also be selected to represent the Faculty Board.

11.2 Student Societies

11.2.1 Registration of a Society

Any society (within a Department or a Faculty) having an appropriate number of current undergraduate students in the University may forward the request it through the Head of the Department and Dean of the Faculty to the Vice-Chancellor for registration as a University Society. Registration is a mandatory requirement and only registered societies will have considered as valid societies and entitle for request certain facilities such as resources, conducting events and other facilities which can be approved by the University authorities. A club or society applying for registration should submit to the Vice-Chancellor;

i) Request for registration

This shall be a letter which has forward to the Vice-Chancellor with the recommendation of Senior Treasurer, Head of the Department and Dean of the Faculty. The request should be made either by the President or the Secretary of the Society.

ii) Application for registration

A dully filled application which can be obtained from the Students' Welfare Branch should be attached.

iii) Minutes of the first meeting

The Minutes of the first meeting should be attached. This may include the appointed members of the society, agreed vision, mission and functions and other agreed factors.

iv) Constitutions of the society

Assistant Registrar of the Students Welfare branch is responsible for forwarding memo to the Council seeking approval for registration of the society. Further, the memo should be forwarded under the Registrar of the University.

11.2.2 Renewal of Registration

It is necessary for a society to renew their registration for every academic year within the University. In order to renew the registration, it is necessary to forward the request through the Head of the Department and/or Dean of the Faculty to the Vice-Chancellor by last date of first month of the academic year with the following:

i) Request for renewal of Society

This shall be a letter which has forward to the Vice-Chancellor with the recommendation of Senior Treasurer, Head of the Department and or Dean of the Faculty. The request should be made either by President or the Secretary of the Society.

ii) Application of renewal

A dully filled application which can be obtained from the Students' Welfare Branch should be attached.

- iii) Minutes of the AGM
- iv) Financial statements for the previous year or the budget of the year (this should be certified by the Senior Treasurer and Head of the Department).
- v) An up-to-date copy of the constitution, with any changes clearly highlighted.

11.2.3 Legal Status of a Society

Societies, whether or not they use the name of the University in their title, and whether or not they carry on their business on University premises, are bodies independent of the University. The University does not accept any liability or responsibility for any debts they may incur.

Most societies are unincorporated members' society and, as such, cannot be used. Any claim against a society can be brought only against its officers or its members.

11.2.4 Any change of a Society

During the year, registered student societies must report to the Vice- Chancellor (through Senior Treasurer, Head of the Department and Dean of the Faculty) any amendments to or changes in its name, constitution, student representatives, and /or any other matters within two weeks of the changes becoming effective. Societies also must submit any additional information requested from time to time by the registering authority.

11.2.5 Accounting Procedure of a Society

Each society should maintain proper set of financial statements with the guidance of Senior Treasure of the Society.

Essential procedure

- i) The bank account should be in the full name of the Society.
- ii) Cash must be safeguarded and banked promptly.
- iii) Specimen signatures of responsible officers must be submitted to the bank. At least two signatures should be required before a withdrawal can be made from a deposit or investment account and it is recommended that the Senior Treasurer should be one of the signatories to the bank account in order to provide continuity when junior members go out of residence.

12. University Administration

12.1 Administrative Officers of the University

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