

FACULTY OF TECHNOLOGY UNIVERSITY OF JAFFNA, SRI LANKA

2015/2016

Undergraduate Student Handbook

December 2016

Vice-Chancellor's Message



The Faculty of Technology is a newly established faculty of the University of Jaffna with the mission of producing knowledgeable and skillful technocrats who contribute to the industrial and infrastructure development of the country. In the context of modern era of science and technology, this new faculty is truly a value addition to the University of Jaffna and would bring fame to the University by attracting talented students.

I take great pleasure in welcoming the first batch of students to this new faculty. As the first batch of students, you have the wonderful privilege of being founder stakeholders of the faculty who are entrusted to develop the faculty as an excellent centre in teaching, learning and research in Engineering/ Biosystems Technology.

With the able guidance of Prof. K. Kandasamy and Prof. S. Srisatkunarajah, the founder staff of the faculty have been designing and developing the curriculum and the teaching and learning facilities with the generous support from the UGC and the Ministry of Higher Education to provide intellectually exciting undergraduate studies in Technology.

Moreover, as the Vice Chancellor, I am proud that the University has committed to build excellent residential and leisure facilities at the Ariviyal Nagar premises for the students to have enjoyable stay in the University.

I wish you a happy and prosperous undergraduate life at the University of Jaffna.

Snr. Prof. (Ms.) V. Arasaratnam Vice Chancellor, University of Jaffna.

Dean's Message

My dear Students,



As the dean of the newly established faculty of Technology, I have great pleasure in welcoming you to follow a professional Bachelor of Technology honours degree programme in Engineering Technology/ Biosystems Technology. While welcoming you, on behalf of the faculty staff I wish to congratulate you on your success in securing university admission through newly introduced technology stream at the Advanced Level and joining the faculty as the pioneering stake holders.

Technology by its nature is highly sophisticated and has immense influence in the economic development of the nation and day to day life of human beings. The mission of the faculty is to produce competent technocrats to serve the nation to face the challenges of the 21st Century. Being a founder stakeholders, the staff and students of this new faculty have to work with full of courage, commitment and dedication to achieve the set educational Programme Objectives (EPO).

I have no doubt that the faculty would do its best in facilitating the learning and teaching environment for you to become accomplished technocrats. The Faculty of Technology presents to you this well-prepared handbook containing collection of information on the Educational process and administration and Learning support services to enable you begin the university life with clarity and confidence.

I wish you all to have a happy and intellectually rewarding university life with the blessing of the Almighty.

Prof. S. Srisatkunarajah Dean, Faculty of Technology.



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1. University Education

1.1. The University of Jaffna

1.1.1. Brief History

The Jaffna Campus of the University of Sri Lanka was established in 1974 with a ceremonial inauguration on 6th October 1974 with the late Professor Kailasapathy as its first President. Under the University Act No. 16 of 1978, the Jaffna Campus gained the status of an independent University in January 1979 and became the University of Jaffna. To know more about the history of the University you may visit the following URL: http://www.jfn.ac.lk/index.php/history

1.1.2. Vision of the University

"To be a leading centre of excellence in teaching, learning, research and scholarship".

The University of Jaffna is committed to the search for truth in a diverse field of subjects, as has been emphasized in its motto "Meipporul kanpatharivu" (Discernment is Wisdom).

1.1.3. Mission of the University

"To produce intellectual, professionally competent and capable graduates to meet the emerging needs of the national and international community, with a special emphasis on the social, economic and cultural needs of Northern Sri Lanka".

1.1.4. Crest



The crest of the university, shown above, has the 'NANTHI' (bull) symbol at its centre. Nanthi adorned the flag of the Jaffna Kingdom that existed in the Northern Sri Lanka until it was dismantled by the Portuguese in the 15th century. The traditional oil lamp symbolizes the light of wisdom. The whole emblem is surrounded by 64 flames.

These flames depict the sixty four varieties of art that adorns the Tamil culture. The crest is therefore symbolizing the growth of wisdom along with culture.

1.2. Faculty of Technology, University of Jaffna

1.2.1. Establishment of the Faculty

The Faculty of Technology is the newly established faculty of the University of Jaffna. The Higher Education Ministers' order of establishment is Gazetted on the 29th of March 2016, Gazette No:9/1960.

The Council of the University of Jaffna, at its 408^{th} meeting held on the 02^{nd} April 2016 appointed Prof. K. Kandasamy as the acting Dean of the faculty from the 04^{th} of April 2016 to the 30^{th} of September 2016. On the

retirement of Prof. K. Kandasamy, Prof. S. Srisatkunarajah was appointed as the acting Dean from the 1st of October.

1.2.2. Background

Ministry of Education together with the National Institute of Education (NIE) having identified the importance of the knowledge on the Technological subjects, decided to introduce the Technological Stream to the Advanced Level. Several Academics from leading universities have been engaged in the preparation of the syllabuses for the Technological Stream.

The Technological stream is to be distinctly identifiable as a separate stream at the Advanced Level and more focused on technology subjects. It comprises of following subjects;

- ➤ Engineering Technology
- Bio systems Technology
- Science for Technology

Students could select either Engineering Technology or Biosystems Technology subjects for the Advanced Level. The second subject in the three subjects' combination chosen by a student is "Science for Technology" which will provide necessary fundamentals of science, mathematics and information technology to directly support the learning of the chosen technology subject. "Science for Technology" is compulsory for all students.

The third subject could be selected from the following Basket of nine subjects:

Economics, Geography, Home Economics, Logic and Scientific Method, Communication and Media Studies, Art, Information and Communication Technology, Business Studies and Agriculture Science.

The first batch of students followed the Advanced level Technology stream sat the A/L examination in August 2015. Thus, in December 2016 onwards, undergraduate students shall be admitted to the universities under Technology stream. Faculty of Technology is established as the tenth faculty of the University of Jaffna to cater the immediate needs of commencing degree programme leading to Bachelor in Technology for those who have been following technology stream in the G.C.E advanced level. The Faculty of Technology shall fulfil the mission of the University by building an educational system more suited to the technological needs of the country, which goes beyond the confines of the conventional knowledge systems and requires human resources with the technological skills and experience for the progress of technology in the Country. The first batch of students shall be admitted to the University of Jaffna in academic year 2015/2016. It has been announced to admit initially 210 students. Moreover there is a possible increase of another 125 students would be admitted depends on the completion of the construction of the academic The Faculty of Technology consists of three academic departments with six specializations. The cadre requirement of the faculty is 65 academic cadres and 53 non - academic cadres. These cadres are to be filled over the period of four years with the offering of academic programme at increasing levels.

Since 2013, the University of Jaffna and Vavuniya Campus of University of Jaffna have been working in collaboration with the Standing Committee of UGC on Technology Stream, to design and offer three degree programme: Bachelor of Engineering Technology, Bachelor of and Bachelor of Bio-system Technology Information Communication Technology, to mould the entrants as technocrats, capable of serving the contemporary needs of industries and service sectors. In this regard, the University of Jaffna entrusted the Faculties of Science, Agriculture and Applied Sciences to develop the preliminary proposal for the degree programme and it's infrastructure to admit students who sat the A/L Examination in August 2015. The outline of the Degree Programme was already submitted and approved by the Standing Committee on Technology and the UGC, the Ministry of Higher Education.

1.2.3. Vision of the Faculty

To be a leading centre of fostering and promoting Technological applications.

1.2.4. Mission of the Faculty

To produce knowledgeable and skillful technocrats who excel in innovative application of technological skills and expertise for the progress of technology in the country.

1.2.5. Aim and Objectives

Aim and objectives of the Faculty is to produce Technocrats who have the ability to

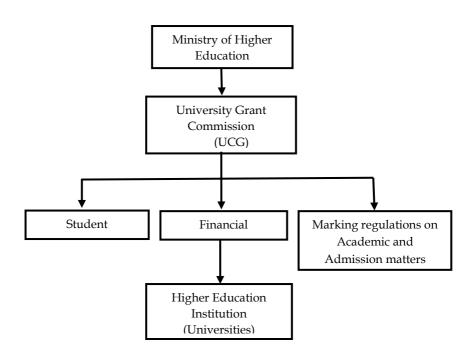
- ➤ Select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined technology activities.
- Select and apply knowledge of mathematics, science, engineering, and technology to Engineering Technology / Biosystems technology problems that require the application of principles and applied procedures or methodologies.
- ➤ Demonstrate written, oral, and graphical communication skills in both technical and nontechnical environments; and an ability to identify and use appropriate technical literature.
- Display in-depth technical competence in at least one engineering / biosystems technology discipline.
- ➤ Identify, analyze, formulate and solve broadly-defined technological problems.
- ➤ Utilize a systems approach to design systems, components, or processes for broadly-defined technology problems and operational performance.
- ➤ Function effectively as a member, leader or manager in multidisciplinary and multi-cultural team.
- ➤ Perform the social, cultural, global and environmental responsibilities of the professional technologist, and the need for sustainable development.
- Make use of principles of sustainable design and development to develop technological solutions for environmental issues
- Make decisions in accordance with professional and ethical considerations.
- Understand the need for and an ability to engage in lifelong learning and professional development.

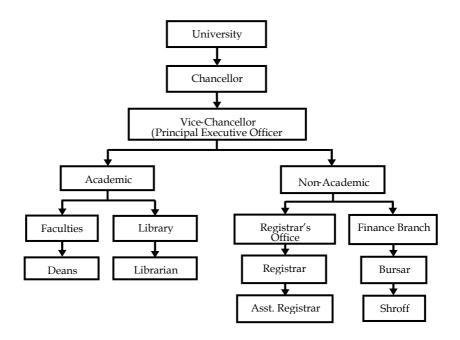
1.2.6. Teaching Framework

Instruction in each course unit may take place in the form of lectures, tutorials, discussions, practical, seminars, projects, assignments, self-study exercises and/or other forms approved by the Faculty Board of Technology and the University Senate which are the authorities that decides the methods of teaching.

It is the responsibility and the duty of undergraduates to attend and participate in lectures, tutorials, practical and other work assigned to the undergraduates, to register his/her attendance by signing the attendance list, and to maintain the required percentage of attendance of 80% in each course unit. It should be noted that no undergraduate can keep away from attending classes (i.e., lectures, tutorials etc.) for more than three consecutive days without informing and obtaining the written approval of the Head of Department. Undergraduates who are unable to attend lectures, tutorials etc., for three consecutive days or more due to illness must submit a valid medical certificate. Strict measures will be taken by the Departments of studies to monitor the attendance of undergraduates at lectures, tutorials etc., for evaluating their performance as well as for permitting them to take the respective End of Course examinations. Therefore, continued attendance at classes is essential.

2. Administrative Setup of the University





2.1. The role of the University Grants Commission and the Ministry of Higher Education

There are fifteen universities in Sri Lanka and although they are autonomous universities, the financial allocations for the universities, admission of students to the universities, rules and regulations regarding governance and staff recruitments and infrastructure and academic developments of the universities are controlled by the Ministry of Higher Education of the Government through the University Grants Commission (UGC). The President of Sri Lanka appoints the Chairman and members of the UGC.

2.2. The Chancellor and Officers of the University

Every University has a Chancellor appointed by The President. The *Chancellor is the Head of the University* and chairs the Annual Convocation of that university.

The Principal Executive Officer of a University is its *Vice-Chancellor* who is also appointed by the President.

The University administration is divided into two sectors: Academic and non-academic.

Although the Vice-Chancellor is in overall charge of both academic and non-academic matters, the *Registrar* is the Principal Executive Officer for all non-academic matters. The officer responsible for the financial sector is the *Bursar*. There are several Senior Assistants Registrars, Assistant Registrars, Senior Assistant Bursars and Assistant Bursars assisting the Vice-Chancellor/ Registrar/Bursar.

2.3. The Faculties and Academic Departments

There are ten Faculties in the University of Jaffna with two of them in the Vavuniya Campus of the University of Jaffna. They are

- 1. Faculty of Agriculture (Ariviyal Nagar, Kilinochchi)
- 2. Faculty of Applied Sciences (Vavuniya Campus)
- 3. Faculty of Arts
- 4. Faculty of Business Studies (Vavuniya Campus)
- 5. Faculty of Engineering (Ariviyal Nagar, Kilinochchi)
- 6. Faculty of Graduate Studies
- 7. Faculty of Management Studies and Commerce
- 8. Faculty of Medicine

- 9. Faculty of Science
- 10. Faculty of Technology (Ariviyal Nagar, Kilinochchi)

2.4. Administration of the Faculties

Each Department is comprised of academic staff (Senior Professors, Professors, Associate Professors, Senior Lecturers, Lecturers and Probationary Lecturers). The list of Academic Staff in the Departments of the Faculty of Technology is given page 57.

Heads of Departments are appointed by the Vice-Chancellor from among the senior academic staff of the respective departments.

A Faculty Board, comprising of all the senior lecturers, confirmed lecturers and two representatives from the probationary lecturers of the Faculty, three members elected from among prominent persons working in disciplines related to the Faculty and two representatives of the students make recommendations/decisions regarding academic matters in the Faculty.

Each Faculty has a *Dean*, who is the Head of the Faculty concerned. The Dean is elected by the Faculty Board from among the Heads of Departments. All Faculty Board members excluding the two student representatives are eligible to vote in the election of the Dean. The Dean is the academic and administrative head of the Faculty concerned and the Chairman of the Faculty Board.

The Office of the Dean of the Faculty of Technology is located on the Admin block of Technology temporary premises. The Faculty has an Assistant Registrar to assist the Dean with Faculty administration. The names of the Dean, the Heads of Departments and the Assistant Registrar of the Faculty of Technology are given on Page (57 to 60). Their contact details are given on Page (62).

The Vice-Chancellor, the Deans, the Registrar, the Bursar and the Librarian are the Principal Officers of the University. The names of the Principal Officers along with that of the Chancellor of the University are given on Page (76). Students are encouraged to seek assistance from the Office of the Dean and the Heads of Departments regarding their study programme and appropriate subject combinations.

2.5. The University Senate

The University Senate is the highest academic body of the university. All the Deans, Professors, Heads of Departments and two academics elected from each Faculty are the members of the Senate. The Vice-Chancellor is the Chairman of the Senate. All recommendations made by the Faculty Board regarding academic matters are referred to the Senate for approval.

2.6. Other Academic Entities

Apart from the Faculties, the University has the following academic entities

- 1. Career Guidance Unit
- 2. English Language Teaching Unit (ELTU)
- 3. External Examinations Unit
- 4. Extra Mural Studies Unit
- 5. Human Resource Advancement Unit
- 6. Media Resource and Training Centre (MRTC)
- 7. Physical Education Unit
- 8. Siddha Medicine Unit
- 9. Workers Education Unit

2.7. Administrative Branches of the University

A brief account of the work carried by the different administrative organs of the university is given below

2.7.1. Administration Branch

Administration branch handles many matters including postal, communication and transport services which are services relevant to the students.

2.7.2. Establishments Branch

The Establishments branch handles the works relating to university employees and is therefore not relevant to the students.

2.7.3. Examinations and Admissions Branch

Examinations and Admissions branch handles the work of students' registrations, examinations and release of results. This branch prepares the degree certificates and maintains the academic records and register of graduates. It also issues the transcripts and details of examination results at the request of the students.

2.7.4. Welfare Services Branch

This branch looks after the welfare of the university students and hence one of the most important administrative organs of the university as far as the students is concerned. It handles matters such as providing accommodation to students at the university hostels and helping the students to get accommodation outside the university, providing canteen facilities, maintaining social harmony among the students, student counseling, health services and the matters relating to student discipline in the university. It also handles the work relating to the Vice-Chancellor's Fund, the Mahapola, and Bursaries etc.

2.7.5. Academic and Publication Branch

The Academic branch engages itself with the works relating to the Senate meetings, publication of annual reports, books, etc., making arrangements for the convocation and handling the endowments for scholarships, prizes and Gold Medals.

2.7.6. Finance Branch

The Finance Branch handles all the financial matters including purchases and supplies.

2.7.7. Planning and Maintenance Branch

This branch is responsible for utilities such as Water and Electricity Supply, maintenance of building sand structures etc.

2.7.8. Security Services

To protect the properties of the university and give security to the university community services from a professional security company is obtained and the security personals are on duty at the gates and faculty premises.



University of Jaffna Sri Lanka

Structure and Curriculum

Bachelor of Technology Honours

Degree Programmememes

Offered by
Faculty of Technology
December 2016

3. The structure of the Bachelor of Technology Honours degree programme

3.1. Programme Overview

Academic Programme of the Faculty of Technology, University of Jaffna shall operate on a modularized credit valued and semester based course unit system. The structure is designed to meet the Sri Lankan Qualification Framework (SLQF) requirements. Accordingly, the Bachelor of Technology Hours Degree programme offered by the faculty fall into level 6. Moreover, the Bachelor of Technology Hours Degree programme in Engineering Technology is structured with an aim of meeting the Sydney Accord and obtaining accreditation by the Institute of Engineers Sri Lanka (IESL). The curriculum of the programme is outcome based and complies with the subject benchmark standards (SBS) wherever applicable.

3.1.1. Admission to Bachelor of Technology Honour Degree Programme

Students are admitted annually by the University Grants Commission from the technology streams.

3.1.2. Degrees

The Faculty offers Bachelor of Engineering Technology (BET) and Bachelor of Biosystems Technology (BBT) of four years duration. At present the Faculty provides three specializations under Bachelor of Engineering Technology, namely Construction Technology, Automobile Technology and Electro Technology and two specializations under Bachelor of Biosystems technology, namely Commercial Green Farming Technology and Food Production Technology. The specialization commences from the fourth semester and selection is made at the end of the third semester based on the student performance in the first three semester examinations in Technology.

3.1.3. Names of the Degrees

The degrees are named according to the type of the programme, nature of the specialization and SLQF norms. The degrees awarded by the faculty for the technology students when they complete the programme for which they are admitted and the specialization they followed are given in below table.

Programme	Specialization	Title of the Degree	
	Construction	Bachelor of Engineering Technology Honours in Construction Technology.	
Engineering Technology	Automobile	Bachelor of Engineering Technology Honours in Automobile Technology.	
	Electrical and Electronics	Bachelor of Engineering Technology Honours in Electro Technology.	
Biosystems Technology	Commercial Green Farming	Bachelor of Biosystems Technology Honours in Commercial Green Farming.	
	Food Production Technology	Bachelor of Biosystems Technology Honours in Food Production.	

3.1.4. Academic year

An Academic year consists of two semesters, Semester-1 and Semester-2. The duration of a Semester is 16 weeks with one week vacation nearly halfway of the semester.

3.1.5. Credit valued course unit system

A course unit is a subject module that has a credit value. A credits a time based quantitative measure assigned to course units on the basis of number of contact hours. The performance of students in the course units are divided into a sequence of sub-ranges designated by symbols called Grades and each Grade is assigned a Grade Point Value (GPV). The credit rating of course units offered by the Faculty may vary from two credits (minimum) to eight credits (maximum).

3.1.6. The subject Areas

3.1.6.1. Auxiliary Subjects Area

Course units in this subject area are designed to provide basic knowledge on topics that an undergraduate should possess in the present era. The auxiliary course units are not taken for the GPA.

3.1.6.2. Complimentary subjects Area

Course units in this area are designed to complement technological content of the curriculum. It includes course units in management, economics, professional ethics, social sciences, humanities etc.

3.1.6.3. Enhancement Subjects Area

Course units in this subject area are designed to either enhance or supplement the technological content of the curriculum

3.1.6.4. Abbreviations for Course Categories and Subject Areas

ETM- Engineering Technology; Mathematics

ETS - Engineering Technology; Science

ETC - Engineering Technology; Construction technology

ETA- Engineering Technology; Automobile technology

ETE- Engineering Technology; Electro-technology

ETW-Engineering Technology; Workshop technology

ETD- Engineering Technology; Mechanical Drawing

ETF- Engineering Technology; Field work

BTM- Bio-System Technology; Mathematics

BTS- Bio-System Technology; Science

BTF- Bio-System Technology; Food production

BTG- Bio-System Technology; Green Farming

AST- Auxiliary Subjects for Technology

CST- Complimentary Subjects for Technology EST- Enhancement Subjects for Technology

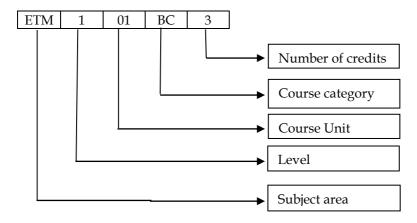
3.1.6.5. Course Categories

The course units are classified into five categories and arranged into four levels according to the nature of the course and year at which the course is offered as follows.

- ➤ Basic core (BC) Essential mathematical, science, computer related course units, and foundation course units in the principal subject.
- ➤ Technical Core(TC) Core module of a principal subject which directly related to the specialization offered in the programme
- ➤ Technical Elective (TE) Outside the core module of a principal subject which directly related to the specialization offered in the programme and subject modules offered in addition to the core module to provide broader knowledge of the subject
- ➤ Non-Technical (NT) Module on complementary studies which is not directly related to the principal subjects of specialization. Module on management, economics, communication, English, humanities, social sciences, art, and professional ethics.
- ➤ Skill Enhancement (SE) Module which focused on training or education for job skills required by an employer to provide a person with the ability to obtain employment or to advance or adapt to the changing demands of the workplace. Skills enhancement modules do include industrial placement/internship/ field training, final year project/ research project.

3.1.7. Course Codes

Each Course unit assigned with a code which reflects the subject area of the course, nature of the course, level (year) of course, course unit number of that level, course category and credit value of the course.



3.2. Definition of a credit

- ➤ For course units consisting of theory only, 15 hours of lectures and tutorials is equivalent to one credit.
- ➤ For course units involving laboratory work, 15 practical sessions each of two to three hours duration is equivalent to one credit.
- > The credit values of courses that have both theory and practical components are calculated by giving due weightage to the components accordingly, as stipulated above.
- ➤ For course units involving field work, the assigned credit value shall be given in the approved syllabi.
- ➤ For Research Projects of one semester duration the assigned credit value shall be between 3 and 6.

3.3. Credit Requirements

Students will be evaluated in all registered course units including those in auxiliary subject areas. However the credit-values earned for the auxiliary course units shall not be considered for the calculation of overall Grade Point Average of the degree programme.

3.4. Evaluation Procedures and Examinations:

A course unit shall be evaluated by means of

- (a) An In-Course Assessment (ICA) consisting of suitable combinations of assignments, course-works, reports, oral presentations, oral examinations, quizzes, spot test, continuous assessment, in-course assessment examinations etc.
- (b) An End of Course Examination (ECE).
 The method of evaluation of each course unit is given along with the syllabus.

3.4.1. In-Course Assessments

All in-course assessments of any course unit (assignments, reports, oral presentations, quizzes, Spot test, continuous assessments, in-course assessment examination) shall be carried out during the period of that course unit.

In-course assessments of course units shall be carried out at the dates and times determined by the Office of the Dean in consultation with the department offering that course unit. The Head of the Department concerned is responsible for the marks awarded to all components of the in-course assessment of course units offered by the respective department.

The marks scored by a student in the various components of the incourse assessment of any course unit shall be displayed in the Notice Board of that department by the Head of that department.

3.4.2. End of Course Examinations

An end of course examination shall be conducted for each course unit at the end of the course or at the end of the semester in which the teaching of the course is completed. The end of course examinations shall be conducted by the Examination Branch of the Faculty/ University. The date and time of the end of course examinations shall be decided at the beginning of each semester by the Dean in consultation with the Heads of Departments. An Examination Board of the Faculty constituted for each course unit shall finalise the results of that course unit.

The Grades obtained by the students in the end of course examination and the overall Grades obtained by the students for that particular course shall be displayed by the Head of the Department concerned after ratification by the Faculty Examination Board. The Dean shall send Grades List to the Examination Branch along with detail mark sheets.

When the results of the examinations on all the course units of a particular Semester of an academic year are received by the Examination Branch, the Examination Branch will summon a meeting of the Examination Board chaired by the Vice-Chancellor. The Board will release the overall performance of the students in that Level of that academic year giving the GPA scored by the students in that Semester.

The Examination Board chaired by the Vice-Chancellor will also release the awards of degrees with the overall GPA and the Class of Honours obtained by the students who have completed that course of study in an academic year.

3.4.3. Grading System

Performance of students in respect of a course unit is graded according to the following grading system. A Grade Point Value (GPV) as indicated in the following table is assigned to each grade

Percentage Marks	Grade	GPV
85 and above	A+	4.00
80-84	A	4.00
75-79	A-	3.70
70-74	B+	3.30
65-69	В	3.00
60-64	B-	2.70
55-59	C+	2.30
50-54	С	2.00
45-49	C-	1.70
40-44	D+	1.30
35-39	D	1.00
34 and below	Е	0.00

3.4.4. Grade Point Average (GPA)

During the study period, a student accumulates grade points from various courses offered except the course units in the auxiliary subject area (Communication Skills (English), Social Harmony and Citizenship, Bioethics, etc). From the grade points accumulated, a Grade Point Average (GPA) may be calculated at any stage: for a semester or more or for a subject or more as may be necessary. The GPA is calculated using the formula;

$$GPA = \frac{\sum c_n g_n}{\sum c_n}$$

Where c_n and g_n are the credit value and the grade point value respectively of the n^{th} course unit. Any calculated GPA shall be rounded to the second decimal place.

Overall Grade Point Average (OGPA) is defined as the GPA of the student at the completion of the degree programme.

3.4.5. Attendance

- Since the programme is an outcome based programme, all the students are expected to attend the all the teaching learning activities. In any case the attendance of 80% of the teaching learning activities is mandatory to sit for the examinations.
- Those who are unable to attend the teaching learning activities due to medical reason or personal issues may report to the Dean and the Head of the Department as soon as possible within two weeks and obtain the advice for the remedial purpose.
- Those who do not satisfy the attendance requirement for the course unit will not be allowed to sit for end of course examinations.
- Those who are not allowed to sit for the examinations due to poor attendance may repeat the course with the approval of the Head of the department and Dean.
- Those who abstained from submitting medical or sit for the module examination within the due time (six academic year period) will be classified as incomplete candidates.

3.4.6. Repeating Examinations

No student will be allowed to repeat In-Course Assessments of any Course Unit. If a student is unable to sit for an In-Course Assessment examination for valid reasons he/she shall inform the Head of the Department concerned within three days of the date of resumption of attending the classes. If the reasoning is acceptable to the Head of the Department, the particular In-Course Assessment could be conducted on a different date determined by the Head of the Department. However no such opportunity shall be given after the completion of the End of Course Examination of that particular course unit.

- A student shall take the end of course examination of a course unit at the first available opportunity. If a student fails to sit an end of course examination without giving valid reasons acceptable to the Faculty Board of Technology and the Senate, he/she shall be considered to have forfeited a chance to sit that examination and will be given the **grade** E for the end of course examination of that course unit.
- ➤ A student who obtained a grade below C for a course unit may re-sit the end of course examination of that course unit in order to improve his/her grade.
 - a) If a student obtains a lower grade while repeating, he/she is entitled to keep the previous grade.
 - b) The highest grade that could be awarded for a repeated course unit is **C**.
 - A student will not be allowed to repeat a course unit more than two times.
 - d) The maximum period allowed for completing the four year degrees programme shall be twelve semesters (six academic years). Students are allowed to repeat examinations only within this period.

This would exclude periods of absence caused by

medical or other valid reasons acceptable to the Faculty Board and the Senate.

- ➤ For students repeating the End of Course Examination of a Course Unit, the marks obtained for In-Course Assessment component at their first attempt shall be used to determine the Final Grade for that Course Unit.
- ➤ The maximum number of academic credits a repeat candidate can enrol in a semester is 27. Repeat Under exceptional circumstances, deviations to this limit may be permitted by the Dean, with the consent of the heads of the department, which is subjected to the approval of the Faculty Board and the Senate.

3.4.7. Cumulative Credit Deficit Point

Student who obtain grade C- or below in a course unit other than Communication (English) will accumulate deficit points. However, a student who satisfies the GPA requirement is allowed to earn credits in a limited number of course units with grades of 'C-', 'D+', or 'D', provided that the grade in any of the course units is not below a D and the cumulative credit deficit (CCD) does not exceed twelve.

$$CCD = \sum c_i d_i$$

For all course units with grade of D+, D or C-. Where c_i is the credit of the i^{th} course and d_i is the deficit weighting defined as 1 for a D, 2/3 for D+ and $\frac{1}{2}$ for a C-.

3.4.8. Sitting for alternative Elective

A student may offer an alternative elective in place of a technical elective for which he/she has failed to secure a passing grade. However, the grades obtained by the student in all electives are included in his/her academic transcript. The GPA is calculated considering the

grades and credits of the course units claimed by the student for his degree which have been offered in the Final Course.

3.5. General Programme in Technology

The general programme spans for three semesters from first semester to third semester. The primary objective of the general programme is to provide fundamental knowledge and skills to pursue specialized technological programme such as Engineering Technology, Biosystems Technology, Information and Communication Technology, etc. At the end of general programme, a student should be able to;

- demonstrate fundamental concepts in core technology disciplines (Either in Construction, Automobile, Electrical and Electronics or Food Production, Green Farming)
- ➤ know when and how to use fundamental science and mathematical concepts for technological problems
- demonstrate simple solution to broadly-defined technological problems
- > describe the basic concepts of ICT and effectively use application software to increase productivity when solving technological problems
- ➤ find ethical and environmentally friendly solution to simple technological challenges
- develop attribute to respect multicultural aspects and actively participating in teamwork
- practice health and safety procedures in relevant discipline
- develop confident level and effectively communicate in English

In general, programme, there are compulsory core course units amount to 48 academic credits including Non-GPA communication Skills (English). The list of course units offered under the general programme is given below.

3.5.1. General degree programme for Engineering Technology

Semester	Course Unit Title	Code	Credits
1	Mathematics I	ETM101BC3	02
	Science for Technology I	ETS102BC3	02
	Foundation in Electrical and Electronic Technology	ETE103BC4	03
	Information and Communication Technology	EST104BC3	02
	Engineering Drawing	ETD105BC3	03
	Surveying I	ETF106BC3	03
	Communication Skills (English)	AST107NT	02
	Mathematics II	ETM108BC3	02
	Science for Technology II	ETS109BC3	02
2	Foundation in Automobile Technology I	ETA110BC3	02
	Foundation in Construction Technology	ETC111BC4	03
	Workshop Technology I	ETW112BC3	03
	Communication Skills (English)	AST113NT	02
	Multicultural Education & Diversity	CST114NT	02
3	Mathematics III	ETM201BC3	02
	Engineering Materials	ETS202BC3	02
	Electrical Installation Practices	ETE203BC3	03
	Occupational Health and Safety (Fire & electrical)	EST204BC2	02
	Plumbing & carpentry, masonry & painting	ETC205BC2	02
	Foundation in Automobile Technology II	ETA206BC3	02
	Personality and Communication skill development I	EST207NT2	02

3.5.2. General degree programme for Bio-System Technology

Semester	Course Unit Title	Code	Credits
	Physics for Technology	BTS101BC3	03
	Chemistry for Technology	BTS102BC3	03
	Basic Mathematics and Statistics	BTM103BC2	02
1	Information and Communication Technology	EST104BC2	02
	Basic Biology	BTS105BC3	03
	Biochemistry	BTF106BC3	03
	Communication skills I (English)	AST107NT2	02
	Instruments for Technology	BTS108BC3	03
	Food and Nutrition	BTF109BC3	03
2	Plant Production Technology	BTG110BC3	03
	General Microbiology	BTG111TC3	03
	Food Production Systems	BTG112BC3	03
	Communication Skills II (English)	AST113NT2	02
	Social Harmony & Citizenship	AST114NT2	02
3	Food analysis	BTF201TC3	03
	Principles and practices of organic farming	BTG202TC2	02
	Food Marketing and Business Economics	CST203BC2	02
	Food Preservation	BTF204TC3	03
	Biotechnology	BTG205TC2	02
	Livestock and feed Production Technology	BTG206TC3	03
	Environmental Toxicology	BTG207TC2	02

3.6. Special Programme in Technology

Special programme prepare the student who has completed the general programme to the SLQF 6 honours level degree which spans from fourth semester to eighth semester in various specializations. The course units offered in the special programme are identified as Basic core (BC) units, Technical Core (TC) units, Technical Elective (TE) units, Non-Technical (NT) units, and Skill Enhancement (SE) units amount to 74 academic credits, and mandatory industrial training amounts to 06 academic credits (total of 80 credits). Initially the following specialized programme will be offered;

- Bachelor of Engineering Technology Honours in Construction Technology
- Bachelor of Engineering Technology Honours in Automobile Technology
- Bachelor of Engineering Technology Honours in Electro Technology
- Bachelor of Bio System Technology Honours in Commercial Green Farming Technology
- Bachelor of Bio System Technology Honours in Food Production Technology Technology

New programme will be added as the faculty grows and acquires physical and human resources

3.7. Academic Progression

To proceed from general programme to special programme,

- ➤ A student should complete course units amounts to 48 credits by means of obtaining grade D or above.
- > should have obtained minimum GPA 2.00
- Accumulate deficit points should not be more than 6.
- A student should have obtained communication (English language) minimum of 'D'.
- > A student should obtain at least D+ on related subject modules of the specialization shown below table.

Furthermore, selection criteria for specialization are based on merit among the preferred candidates.

Specialization	Related subject	
Construction	Surveying I	
	Foundation in Construction Technology	
Automobile	Foundation in Automobile Technology I	
	Foundation in Automobile Technology II	
Electrical and Electronics	Foundation in Electro Technology	
	Electrical Installation Practices	
Commercial Green Farming	g Basic Biology	
	Plant production technology	
Food Production Technology	Chemistry for Technology	
	Food and Nutrition	

3.7.1. Prerequisites

If a course unit prescribed for prerequisite course unit or course units, a student is permitted to follow that course unit only if he/she has attained the minimum requirement of Grade D for the prerequisite course unit or course units.

3.8. Criteria for Awarding Degrees

A student deemed to have satisfied the requirement for the Award of Degree of Bachelor of Engineering Technology / Bachelor of Biosystems Technology if he / she has obtained;

- > Overall GPA of minimum 2.00
- ➤ Grade 'D' or above in all the course units (amounts to 128 credits), with accumulated deficit points not more than 10
- ➤ Grade 'C' or above in Communication Skills I (English)

Effective date of degree awarded shall be the date of the last assessment/evaluation of the semester in which a student completes the degree programme.

3.9. Award of Classes

A student who satisfies the requirement of the award of degree within 4 academic years may earn a class honours. The class honours will be determined based on his/ her GPA as summarized in below Table.

GPA	Academic standing
GPA ≥3.70	First Class
$3.30 \le \text{GPA} < 3.70$	Second Class (Upper Division)
$3.00 \le \text{GPA} \le 3.30$	Second Class (Lower Division)
2.00 ≤ GPA < 3.00	Pass

3.10. The syllabi of the Degree Programme

The Bachelor of Engineering Technology honours degree programme is designed to meet the SLQF Level 6 standards and Sydney Accord requirements. Entire programme offers 128 academic credits including 06 from industrial training. The total number of earned academic credits includes minimum of 18 academic credits in mathematics, basic science and computing; and minimum of 15 academic credits for studies in management, engineering economics and communication; and 03 academic credits in humanities, social science, art and professional ethics.

The Bachelor of Biosystems Technology honours degree programme is designed to meet the SLQF Level 6 standards. Entire programme offers 130 academic credits including 04 from industrial training and 08 from Research project. The total number of earned academic credits includes minimum of 30 academic credits in mathematics, basic science and computing; and minimum of 19 academic credits for skill enhancement studies; and 81 academic credits in technical subjects.

Every course unit has assigned with credit value that reflects the volume of learning. The syllabi of the course unit is designed as outcome based with clearly stated objectives, ILOs, delivery of contents, teaching and learning methods, and evaluation methods. Moreover the whole curriculum is designed such a way that as the students makes progress, desired EPO would be gradually achieved.

3.10.1. Bachelor of Engineering Technology Honours in Construction

Course Unit Title	Code	Credits
Mathematics I	ETM101BC2	02
Science for Technology I	ETS102BC2	02
Foundation in Electro Technology	ETE103BC3	03
Information and Communication	EST104BC2	02
Technology		
Engineering Drawing	ETD105BC3	03
	ETF106BC3	03
Communication Skills (English)	AST107NT2	02
Mathematics II	ETM108BC2	02
Science for Technology II	ETS109BC2	02
Foundation in Automobile	ETA110BC2	02
Technology I		
Foundation in Construction	ETC111BC3	03
Technology		
Workshop Technology I	ETW112BC3	03
Communication Skills (English)	AST113NT2	02
Intercultural and Inner Harmony	CST114NT2	02
Mathematics III	ETM201BC2	02
Engineering Materials	ETS202BC2	02
Electrical Installation Practices	ETE203BC3	03
Occupational Health and Safety (Fire	EST204BC2	02
& electrical)		
Building Services	ETC205BC2	02
Foundation in Automobile	ETA206BC2	02
Technology II		
Personality and Communication skill	EST207NT2	02
development I		
Mathematics IV	ETM208BC2	02
Structural drawing and	ETD209TC3	03
measurements	PECO1 OFFICE	02
		03
, ,		03
		03
	Mathematics I Science for Technology I Foundation in Electro Technology Information and Communication Technology Engineering Drawing Surveying I Communication Skills (English) Mathematics II Science for Technology II Foundation in Automobile Technology I Foundation in Construction Technology Workshop Technology I Communication Skills (English) Intercultural and Inner Harmony Mathematics III Engineering Materials Electrical Installation Practices Occupational Health and Safety (Fire & electrical) Building Services Foundation in Automobile Technology II Personality and Communication skill development I Mathematics IV Structural drawing and	Mathematics I ETM101BC2 Science for Technology I ETS102BC2 Foundation in Electro Technology ETE103BC3 Information and Communication EST104BC2 Technology Engineering Drawing ETD105BC3 Surveying I ETF106BC3 Communication Skills (English) AST107NT2 Mathematics II ETM108BC2 Science for Technology II ETS109BC2 Foundation in Automobile ETA110BC2 Technology I ETW112BC3 Communication Skills (English) AST113NT2 Intercultural and Inner Harmony CST114NT2 Mathematics III ETM201BC2 Engineering Materials ETS202BC2 Electrical Installation Practices ETE203BC3 Occupational Health and Safety (Fire & electrical) Building Services ETC205BC2 Foundation in Automobile ETA206BC2 Technology II Personality and Communication skill development I Mathematics IV ETM208BC2 Structural drawing and measurements Architecture ETC210TC3 Surveying II ETF211TC3 Construction material properties ETC212TC3

Mathematics V ETM301BC2 02 Computer Aided Design (CAD) of Buildings Construction management CST303TC3 03 Structural Analysis in Construction ETC304TC3 03 Highway and Transportation ETC305TC3 03 Technology Soil mechanics ETC306TC3 03 Mathematics VI ETM307BC2 02 Legal Environment of Business CST308NT2 02 Surveying Field Camp ETF309TC1 01
Buildings Construction management CST303TC3 03 Structural Analysis in Construction ETC304TC3 03 Highway and Transportation ETC305TC3 03 Technology Soil mechanics ETC306TC3 03 Mathematics VI ETM307BC2 02 Legal Environment of Business CST308NT2 02 Surveying Field Camp ETF309TC1 01
Construction management CST303TC3 03 Structural Analysis in Construction ETC304TC3 03 Highway and Transportation ETC305TC3 03 Technology Soil mechanics ETC306TC3 03 Mathematics VI ETM307BC2 02 Legal Environment of Business CST308NT2 02 Surveying Field Camp ETF309TC1 01
5 Structural Analysis in Construction ETC304TC3 03 Highway and Transportation ETC305TC3 03 Technology Soil mechanics ETC306TC3 03 Mathematics VI ETM307BC2 02 Legal Environment of Business CST308NT2 02 Surveying Field Camp ETF309TC1 01
Highway and Transportation ETC305TC3 03 Technology Soil mechanics ETC306TC3 03 Mathematics VI ETM307BC2 02 Legal Environment of Business CST308NT2 02 Surveying Field Camp ETF309TC1 01
Technology Soil mechanics ETC306TC3 03 Mathematics VI ETM307BC2 02 Legal Environment of Business CST308NT2 02 Surveying Field Camp ETF309TC1 01
Soil mechanics ETC306TC3 03 Mathematics VI ETM307BC2 02 Legal Environment of Business CST308NT2 02 Surveying Field Camp ETF309TC1 01
Mathematics VIETM307BC202Legal Environment of BusinessCST308NT202Surveying Field CampETF309TC101
Legal Environment of BusinessCST308NT202Surveying Field CampETF309TC101
Surveying Field Camp ETF309TC1 01
C
Construction contracts and ETC310TC3 03
procurements
Environmental Engineering ETC311TC3 03
Technology
Geotechnology ETC312TC3 03
Elective module I:
Structural Design ETC313TE3 03
Irrigation Technology ETC314TE3 03
Geotechnical Design ETC315TE3 03
Project management and planning CST401NT3 03
I I I I I COTIONITA DO
Industrial management and CST402NT2 02
7 Marketing CCT400NFT2 02
Engineering Economy CST403NT3 03
Extended Sustainable development and safety ETC404TC3 03 Semester issues in Construction
Term Computing for Construction ETC405BC2 02
(20 weeks) Technology
Water and waste water management ETC406TC3 03
technology
Professional Ethics and Human Value CST407NT2 02
Final year project I ETC408SE6 06
Industrial Placement/Internship/ ETC409SE6 06
8 Field training
Tield training

3.10.2. Bachelor of Engineering Technology Honours in Automobile

Semester	Course Unit Title	Code	Credits
	Mathematics I	ETM101BC2	02
	Science for Technology I	ETS102BC2	02
	Foundation in Electro Technology	ETE103BC3	03
1	Information and Communication	EST104BC2	02
1	Technology		
	Engineering Drawing	ETD105BC3	03
	Surveying I	ETF106BC3	03
	Communication Skills (English)	AST107NT2	02
	Mathematics II	ETM108BC2	02
	Science for Technology II	ETS109BC2	02
	Foundation in Automobile Technology I	ETA110BC2	02
2	Foundation in Construction Technology	ETC111BC3	03
	Workshop Technology I	ETW112BC3	03
	Communication Skills (English)	AST113NT2	02
	Intercultural and Inner Harmony	CST114NT2	02
	Mathematics III	ETM201BC2	02
	Engineering Materials	ETS202BC2	02
	Electrical Installation Practices	ETE203BC3	03
2	Occupational Health and Safety (Fire & electrical)	EST204BC2	02
3	Building Services	ETC205BC2	02
	Foundation in Automobile Technology II	ETA206BC2	02
	Personality and Communication skill development I	EST207NT2	02
	Mathematics IV	ETM208BC2	02
	Automotive Engines, combustion, fuel systems and lubrication	ETA209TC3	03
4	Fault diagnosis and rectification of engine systems and chassis maintenance (P)	ETA210TC3	03
	Theory of machines	ETA211TC3	03

	CAD and computer modeling	ETA212TC2	02
	Automobile Workshop management	CST213NT3	03
	Mathematics V	ETM301BC2	02
	Automobile Drive train, chassis	ETA302TC3	03
	steering and braking		
	Electrical and Electronics equipment &	ETA303TC3	03
5	circuits used in vehicles		
3	Automobile Workshop practice	ETA304TC3	03
	Applied Thermodynamics and Fluid	ETA305TC2	02
	mechanics		
	Automotive Air conditioning and	ETA306TC3	03
	auxiliary systems		
	Mathematics VI	ETM307BC2	02
	Legal Environment of Business	CST308NT2	02
	Design of Automotive Components	ETA309TC3	03
	Dynamics of Mechanical systems	ETA310TC3	03
6	Mechatronics and control theories	ETA311TC3	03
O	Computing for Automobile	ETA312BC2	02
	Technology		
	Elective I		
	Production Management	ETA313TE2	02
	Production Technology	ETA314TE2	02
	Project management and plannin	CST401NT3	03
	Industrial management and Marketing	CST402NT2	02
7	Engineering Economy	CST403NT3	03
	Vehicle Dynamics, vehicle chassis and	ETA404TC3	03
Extended	suspension systems		
Semester	Alternative fuels and pollution control	ETA405TC3	03
Term	and future power		
(20 weeks)	Society, Environment and Technology	CST406NT2	02
	Vehicle body engineering and	ETA407TC3	03
	aerodynamics		
	Final year project	ETA408SE6	06
8	Industrial Placement/Internship/	ETA409SE6	06
	Field training		

3.10.3. Bachelor of Engineering Technology Honours in Electrical and Electronics

Semester	Course Unit Title	Code	Credits
	Mathematics I	ETM101BC2	02
	Science for Technology I	ETS102BC2	02
	Foundation in Electro Technology	ETE103BC3	03
1	Information and Communication	EST104BC2	02
1	Technology		
	Engineering Drawing	ETD105BC3	03
	Surveying I	ETF106BC3	03
	Communication Skills (English)	AST107NT2	02
	Mathematics II	ETM108BC2	02
	Science for Technology II	ETS109BC2	02
	Foundation in Automobile Technology	ETA110BC2	02
	I		
2	Foundation in Construction	ETC111BC3	03
	Technology		
	Workshop Technology I	ETW112BC3	03
	Communication Skills (English)	AST113NT2	02
	Intercultural and Inner Harmony	CST114NT2	02
	Mathematics III	ETM201BC2	02
	Engineering Materials	ETS202BC2	02
	Electrical Installation Practices	ETE203BC3	03
	Occupational Health and Safety (Fire	EST204BC2	02
3	&electrical)		
	Building Services	ETC205BC2	02
	Foundation in Automobile Technology	ETA206BC2	02
	II		
	Personality and Communication skill	EST207NT2	02
	development I		
	Mathematics IV	ETM208BC2	02
	Electrical machines	ETE209TC3	03
4	Advanced Electronics Applications	ETE210TC3	03
	Electrical Installation Practices II	ETE211TC3	03
	Introduction to C, C+ language	EST212BC3	03

			-
	Engineering Innovation and design	ETE213TC2	02
	Fundamental of Management	CST214NT2	02
	Accounting		
	Mathematics V	ETM301BC2	02
	Generation, Transmission and	ETE302TC3	03
	Distribution		
5	Electrical insulation	ETE303TC3	03
3	Pneumatic and Electro pneumatic	ETE304TC3	03
	Computing for Electro Technology	ETE305BC2	02
	Power Electronics applications and	ETE306TC3	03
	control devices		
	Mathematics VI	ETM307BC2	02
	Control system and PLC Programme	ETE308TC3	03
	Measurement and Instrumentation	ETE309TC2	02
	Industrial Automation systems	ETE310TC3	03
6	Supply Chain Management	CST311NT3	03
	Elective module I		
	High Voltage Engineering	ETE312TE3	03
	Building Automation System	ETE313TE3	03
	Data structure and Algorithm	ETE314TE3	03
	Project management and planning	CST401NT3	03
-			
7	Industrial management and Marketing	CST402NT2	02
Extended Semester Term (20 weeks)	Engineering Economy	CST403NT3	03
	Microprocessor and Micro controller	ETE404TC3	03
	Renewable energy system	ETE405TC3	03
	Introduction to philosophy	CST406NT2	02
	Professional Ethics and Human Value	CST407NT2	02
	Final year project	ETE408SE6	06
C	Industrial Placement/Internship/	ETE409SE6	06
8	Field training		
	<u> </u>		

3.10.4. Bachelor of Bio-system Technology Honours in Food Production Technology

Semester	Course Unit Title	Code	Credits
	Physics for Technology	BTS101BC3	03
	Chemistry for Technology	BTS102BC3	03
	Basic Mathematics and Statistics	BTM103BC2	02
1	Information and Communication	EST104BC2	02
1	Technology	E31104bC2	02
	Basic Biology	BTS105BC3	03
	Biochemistry	BTF106BC3	03
	Communication skills I (English)	AST107NT2	02
	Instruments for Technology	BTS108BC3	03
	Food and Nutrition	BTF109BC3	03
	Plant Production Technology	BTG110BC3	03
2	General Microbiology	BTG111TC3	03
	Food Production Systems	BTG112BC3	03
	Communication Skills II (English)	AST113NT2	02
	Social Harmony & Citizenship	AST114NT2	02
	Food analysis	BTF201TC3	03
	Principles and practices of organic	BTG202TC2	02
	farming	D1G2021C2	02
	Food Marketing and Business	CST203BC2	02
3	Economics	C31203BC2	02
3	Food Preservation	BTF204TC3	03
	Biotechnology	BTG205TC2	02
	Livestock and feed Production	BTG206TC3	03
	Technology		
	Environmental Toxicology	BTG207TC2	02
	Agro enterprise Development and	CST208NT2	02
	Management		
	Food safety and sanitation	BTF209TC2	02
4	Fermentation Technology	BTF210TC2	02
	Food Engineering	BTF211TC3	03
	Food Chemistry	BTF212TC3	03
	Spice and Herbal Products Technology	BTF213TC2	02

	Sensory evaluation	BTF214TC2	02
	Food Microbiology	BTF301TC2	02
	Fruits and vegetables process	BTF302TC2	02
	Technology	D1F3021C2	
	Novel food product development	BTF303TC2	02
5	Grain science & technology	BTF304TC2	02
	Fish and egg products technology	BTF305TC2	02
	Confectionary & Beverage Technology	BTF306TC2	02
	Kernel and Nut processing Technology	BTF307 TC2	02
	Renewable Energy Technology	BTG308TC2	02
	Food Packaging and labeling	BTF309TC2	02
	Food plant layout & Design	BTF310 TC2	02
	Palm products technology	BTF311TC2	02
	Link Tech (Link with Small and	BTF312(a)TE2	02
	Medium Enterprise)	D11312(a)1E2	02
6	Consumer driven cultural foods	BTF312(b)TE2	02
	technology		02
	Bio Process Engineering	BTG313TC2	02
	Dairy Products Technology	BTF314TC2	02
	Meat and Meat Products Technology	BTF315TC2	02
	Functional foods &Nutraceuticals	BTF316TC2	02
	Human Resource Management	CST401NT2	02
	Scientific communication	CST402NT2	02
7	Cleaner Production Technology	EST403TC2	02
	Applied statistics	BTM404TC3	03
	Organizational Management	CST405NT2	02
	Bioethics	AST406NT2	02
	Environmental Impact Assessment	CST407NT3	03
8			
(16 weeks)	Industrial Training	BTF408SE4	04
9			
(Extended	Research Project	BTF409SE8	08
semester-			
20 weeks)			

3.10.5. Bachelor of Bio-system Technology Honours in Commercial Green Farming Technology

Semester	Course Unit Title	Code	Credits
1	Physics for Technology	BTS101BC3	03
	Chemistry for Technology	BTS102BC3	03
	Basic Mathematics and Statistics	BTM103BC2	02
	Information and Communication	EST104BC2	02
	Technology		
	Basic Biology	BTS105BC3	03
	Biochemistry	BTF106BC3	03
	Communication skills I (English)	AST107NT2	02
	Instruments for Technology	BTS108BC3	03
	Food and Nutrition	BTF109BC3	03
	Plant Production Technology	BTG110BC3	03
2	General Microbiology	BTG111TC3	03
	Food Production Systems	BTG112BC3	03
	Communication Skills II (English)	AST113NT2	02
	Social Harmony & Citizenship	AST114NT2	02
	Food analysis	BTF201TC3	03
	Principles and practices of organic	BTG202TC2	02
	farming		
	Food Marketing and Business	CST203BC2	02
3	Economics		
3	Food Preservation	BTF204TC3	03
	Biotechnology	BTG205TC2	02
	Livestock and feed Production	BTG206TC3	03
	Technology		
	Environmental Toxicology	BTG207TC2	02
4	Agro enterprise Development and	CST208NT2	02
	Management		
	Food safety and sanitation	BTF209TC2	02
	Water conservation Technology	BTG 210TC2	02
	Green soil fertility management	BTG 211TC2	02
	Floricultural Technology	BTG 212TC2	02
	Urban Gardening	BTG 213TC2	02

	Productive Entomology	BTG 214TC2	02
	Marine & Brackish water fish	BTG 215TC2	02
	production		
5	Bio agents Production Technology	BTG301TC2	02
	Fruits and vegetables process Technology	BTF 302TC2	02
	Land Degradation and Pollution Management	BTG 303TC2	02
	Agronomy of underutilized crops	BTG 304TC2	02
	Small Scale Green Farming	BTG305TC2	02
	Forage science and range management	BTG 306TC2	02
	Farm mechanization Technology	BTG 307 TC2	02
	Renewable Energy Technology	BTG 308TC2	02
	Food Packaging and labeling	BTF 309TC2	02
	Vermitechnology	BTG 310TC2	02
	Organic Crop Production	BTG 311TC2	02
	Land management and GIS application	BTG312(a)TE2	02
6	Landscape and Architectural design	BTG312(b)TE2	02
O	Bio Process Engineering	BTG 313TC2	02
	Green Agro Forestry	BTG 314TC2	02
	Plant Protection Technology	BTG 315TC2	02
	Farm Layout Development Management	BTG 316TC2	02
	Human Resource Management	CST 401NT2	02
	Scientific communication	CST 402NT2	02
7	Cleaner Production Technology	EST 403TC2	02
	Applied statistics	BTM 404TC3	03
	Organizational Management	CST 405 NT2	02
	Bioethics	AST 406NT2	02
	Environmental Impact Assessment	CST 407 NT3	03
8		BTG408SE4	04
(16weeks)	Industrial Training		
9 (Extended semester- 20 weeks)	Research Project	BTG409SE8	08

4. Supportive Facilities for Learning and Sports

4.1. The Main Library

The University Library is situated in front of the Students Centre. It is named after Prof. S.Vithiananthan, the first Vice-Chancellor of the Jaffna University, as "Vithiananthan Library". Access to this building is from the Western side of the building facing the Science Faculty. There are branch libraries in the Faculty of Agriculture, Faculty of Technology, Faculty of Engineering, Faculty of Medicine, Ramanathan Academy of Fine Arts (RAFA) and the Sidha Medicine Unit.

Opening hours:

- Week days 8.30 am to 6.15 pm; Saturdays 8.30 am to 2.30 pm.
- ➤ The Library is closed on Sundays and public Holidays.

4.1.1. The Faculty Library

Faculty of Technology has got its own library inside the faculty premises. It is functional with lending and reference facilities. Student can get access to range of books for their successful progress in academic programme. This library is to be upgraded with IT and network facilities in near future. A small IT unit will be established inside the library and it will serve for online of books. In addition to

this Wi-Fi zone is going to be established to facilitate teaching and learning process of the faculty coupled with library.

4.2. The Computer Unit

The main computer unit, located at the Library and Faculty of Science premises, serves as the provider of computer services for the whole university. It helps in the teaching of computer courses in all the Faculties and units. The unit has internet access facilities for both students and staff.

The Information Technology Resource Centre (ITRC) was established in 2004 in Level 2 of the main Vithyananthan Library to expand the IT services provided to the staff and students of the whole university. The unit has four teaching laboratories and one Internet Laboratory. The four labs have about 195 computers. The Internet lab has 40 computers. It also houses servers for running the network related services.

The faculty of technology also has a computer unit which is located in university premises (Kilinochchi). It provides services to the students.

4.3. The Physical Education Unit

The students are encouraged to take part in Sports to keep themselves physically fit and develop sports skills. The Physical Education Unit situated behind the Medical Faculty Complex handles the following:

- Providing Sports facilities.
- ➤ Maintaining the sports equipment and materials.
- ➤ Facilitating friendly matches and tournaments.
- Conducting tournaments.
- Conducting Colours awarding ceremony.
- Making arrangements for participation in the inter university games.
- Affiliating with outside sports associations and coordinating with them.

The Sports Complex has a large playground where Courts for Tennis, Basketball, Hockey, Cricket, Soccer, Netball, Volley ball & Elle have been set up and maintained.

The Physical Education Unit provides about more than 26 games to the students: Athletic, Badminton, Basketball, Carom, Chess, Cricket, Elle, Gymnastic, Hockey, Karate, Netball, Rugby, Soccer, Table tennis, Volleyball, Weightlifting, etc.

The sports and leisure facilities at Ariviyal Nagar premises has been gradually developed.



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Administrative Staff



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Mr. S. Vasantharuban Management Assistant Faculty of Technology,University of Jaffna

4.4. Principal Officers of the University of Jaffna

Head of the University

The Chancellor Emeritus Prof. S. Pathmanathan

Officers

The Vice-Chancellor Prof. (Ms.) V. Arasaratnam

Rector, Vavuniya Campus Dr. T. Mangaleswaran

Dean/Agriculture Prof. (Mrs.) T. Mikunthan

Dean/Arts Prof. N. Gnanakumaran

Dean/Engineering Dr. A. Atputharajah

Dean/Graduate Studies Prof. G. Mikunthan

Dean/Managements

Studies & Commerce Prof. T. Velnamby

Dean/Medicine Dr. S. Raviraj

Dean/Science Prof. R. Vigneswaran

Dean/Applied Science

(Vavuniya Campus Mr. S. Kuhanesan

Dean/Business Studies

(Vavuniya Campus) Dr. A. Pushpanathan

Acting Registrar Mr. N. Rajavisahan

Librarian Ms. S. Arulanantham

Acting Bursar Mr. A. Sivanadarajah

Senior Student Counsellor Mr. S. S. Uthayakumar

Asst. Registrar Ms. S. Anbarasi

DR/ Killinochchi Premises Mr.M.Ganeshalingam

4.5. Useful Telephone Numbers

Administrative Office/Branch/Unit	Telephone
	Number
University - General Information	021 - 221 8101
Vice Chancellor	021 - 221 8102
Registrar	021 - 221 8105
Bursar	021 - 221 8108
Senior Assistant Registrar	021 - 221 8112
/Administration	
Assistant Registrar / Student Admission	021 - 221 8120
Deputy Registrar / Examination	021 - 221 8118
Assistant Registrar / Welfare Services	021 - 221 8122
University Medical Officer (UMO)	021 - 221 8130
Deputy Chief Marshal	021 - 221 8132
Chief Security Officer	021 - 221 8133
Senior Student Counsellor	021 - 221 8135
Librarian	021 - 221 8136
Computer Unit	021 - 221 8195
English Language Teaching Centre	021 - 221 8167
Physical Education Unit	021 - 221 8131
Peoples Bank (University Branch)	021 - 222 2072
Bank of Ceylon (University Branch)	021 - 221 9570

Faculty of Technology	Telephone Number
Dean office	021 - 206-0169
Assistant Registrar	021 - 206-0169