FACULTY OF SCIENCE

UNIVERSITY OF JAFFNA, SRI LANKA

2017/2018

Undergraduate Student Handbook

June 2019

Dean's Message

My Dear Students,

The Faculty of Science welcomes you and takes great pleasure in wishing you all a successful and rewarding undergraduate period of study in the Faculty. You all can be proud that you are commencing the higher education in a faculty that has a rich tradition of producing quality Science graduates who perform well in all walks of life in Sri Lanka and abroad.

From this academic year faculty introduce a revised structure of the Degree programmes. The faculty presents to you this handbook containing a collection of information that the new entrants to the Faculty should know for them to begin their University education with confidence leading to successful completion of the desired Degree programme.

In the event you have other questions or problems, you are strongly advised and encouraged to consult the Academic staff, Student Counselors, Academic counselors, the Head of Departments or me.
I wish you a happy, fruitful and enjoyable campus life.

With best wishes,

Prof. J. P. Jeyadevan
Dean/Faculty of Science
University of Jaffna

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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.sci.jfn.ac.lk/index.php/about-us/

1.1.2. *Vision*

"*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*

"*Providing quality teaching and learning and by carrying out research in producing intellectually and professionally competent capable graduates to meet the emerging challenges of the national and international community with 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 symbolizes the growth of wisdom along with culture.

1.2. Faculty of Science, University of Jaffna

1.2.1. *Brief History*

The Faculty of Science was set up in October 1974 at Vaddukoddai in the premises taken over from the Undergraduates' Section of the Jaffna College. The first batch of students numbering 103 was admitted to the Faculty on 25th October 1974 and only a course in Mathematics and Statistics was provided initially. The late Professor Kanagasabapathy functioned as the first Dean of the Faculty and the Head of the Department of Mathematics and Statistics. After the appointment of Heads of Departments and a few Assistant Lecturers for some of the other disciplines in Science, courses in physical science and bioscience were started in 1975. Thirty five students were admitted to these courses in the academic year 1975/76. As the facilities available in the small laboratories at Vaddukoddai were grossly inadequate for work beyond the First Year Courses and future development at Vaddukoddai was not possible due to acute shortage of fresh water and space, a decision was taken to put up new Faculty buildings at Thirunelvely where the Faculty of Humanities and the administrative offices were sited.

The Faculty shifted to the Thirunelvely premises in June 1978 soon after the completion of work on the Natural Science Block (Stage 1), the foundation for which was laid on 07 May 1975. In 1977, funds were voted for a Physics building and this building came into occupation in September 1980. Funds were also voted for two other buildings in 1979, one for Chemistry and the other for Mathematics and Statistics. The Mathematics and Statistics building was completed in 1985. The Chemistry Block was completed in 1988.

The annual intake of students to the Faculty had increased over the years and it was about 250 in mid-eighties. The Faculty had on its roll over 700 students in mid-eighties. The annual intake started to decline in early nineties.

Since 2009, the Faculty is enjoying intake of students from all parts of the Island representing all ethnicity which added greater multicultural environment for the Faculty to foster and promote social harmony. Since 2016 the Faculty is also enjoying intake of foreign students. Moreover, the students' population at the Faculty has now reached about one thousand one hundred.

1.2.2. *Vision*

"*To be a recognised centre of science learning in Sri Lanka*".

1.2.3. *Mission*

"*To produce competent graduates who excel in learning and research in basic sciences and who could contribute to the development of the nation*".

1.2.4. *Objectives*

- To attain an internationally recognisable level of teaching and research.
- To disseminate science knowledge and popularise science.
- To improve the quality of science education.
- To provide services directed towards the environmental, social and technological needs of the region.
- To be a regional research centre in Science, developing indigenous scientific methods using local resources to improve the economic and social conditions of the local population.

1.2.5. *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 Science 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. Supportive Facilities for Learning and Sports

2.1. 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 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.

2.2. The Computer Unit

This 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.

2.3. Facilities for Collaborative Learning

A Students' Hotspot is newly constructed in the space between Mathematics and Physics buildings with the assistance from the World Bank funded HETC QIG project to provide a user-friendly environment in the Faculty for students to chat or study together, exchange information and build social network.

2.4. The Physical Education Unit

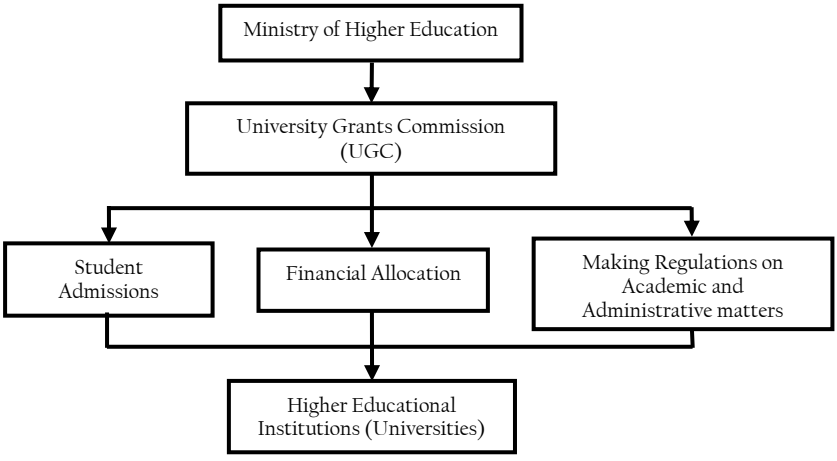
The students are encouraged to take part in Sports to keep themselves physically fit and develop sports skills. The Physical Education Unit situated behind the Medical Faculty Complex handles the following:

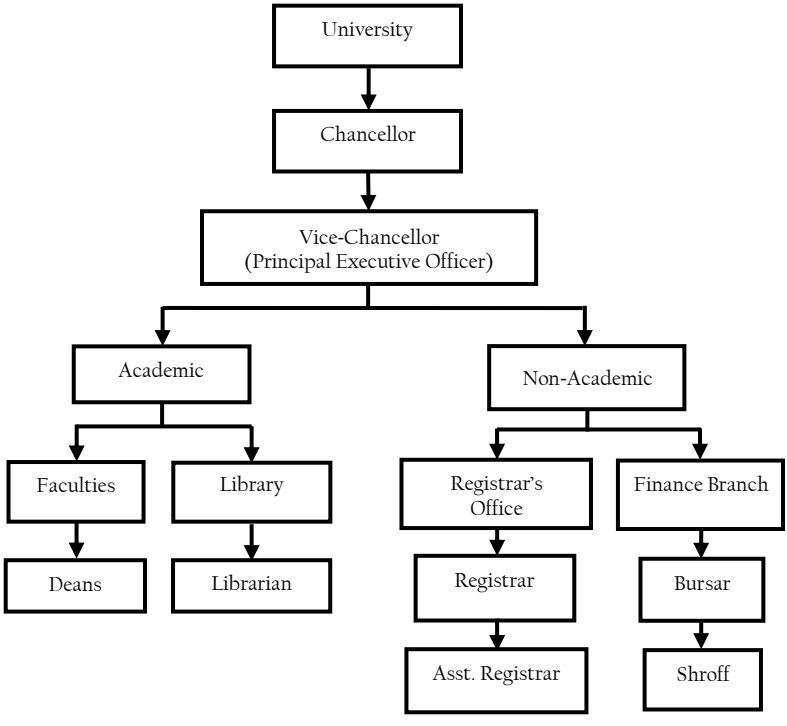
- Providing Sports facilities.
- Maintaining the sports equipment and materials.
- Facilitating friendly matches and tournaments.
- Conducting tournaments.
- Conducting colours awarding ceremony.
- Making arrangements for participation in the inter university games.
- Affiliating with outside sports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

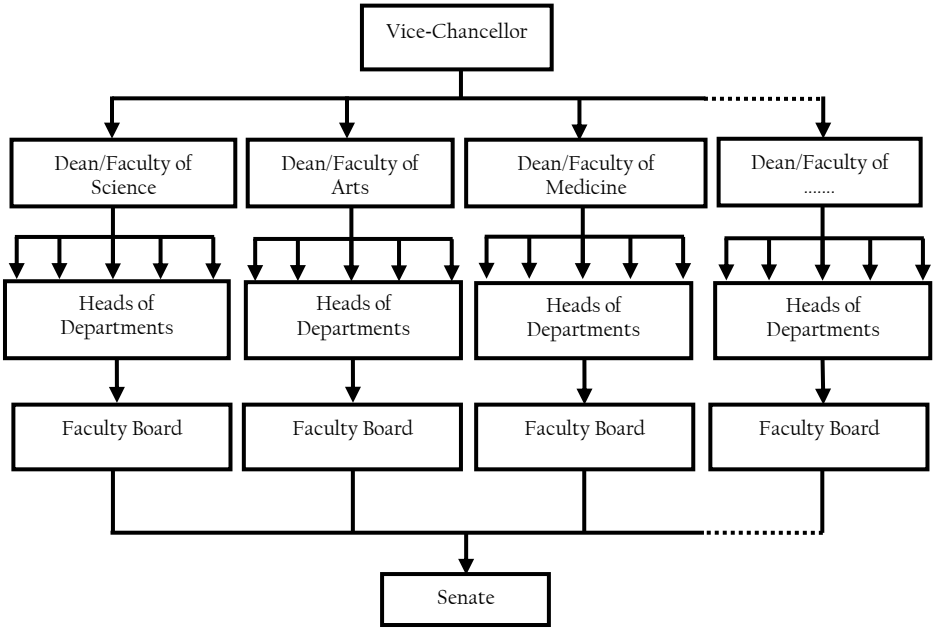
The Sports Complex has a large playground where Courts for Tennis, Basketball, Hockey, Cricket, Soccer, Netball, Volley ball & Elle have been set up and maintained.

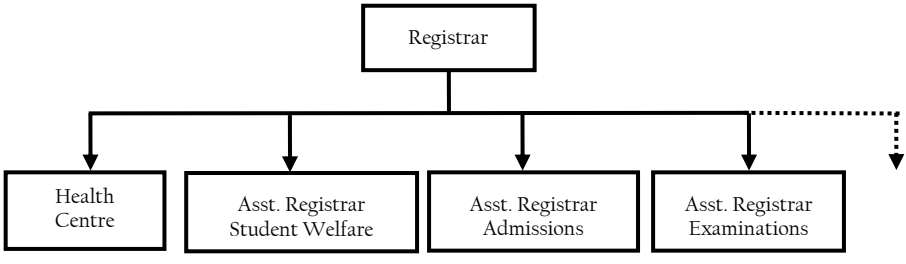
The Physical Education Unit provides about more than 26 games to the students: Athletic, Badminton, Basketball, Carom, Chess, Cricket, Elle, Gymnastic, Hockey, Karate, Netball, Rugby, Soccer, Table tennis, Volleyball, Weightlifting, etc.

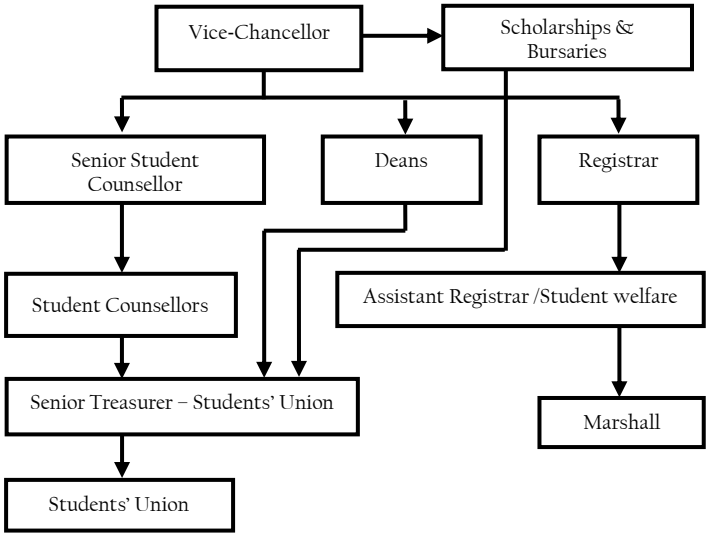
3. Administrative Setup of the University






Vice-Chancellor
Dean/Faculty of Science
Dean/Faculty of Arts
Dean/Faculty of Medicine
Dean/Faculty of .....
Heads of Departments
Heads of Departments
Heads of Departments
Heads of Departments
Faculty Board
Faculty Board
Faculty Board
Faculty Board
Senate


Registrar
Health Centre
Asst. Registrar Student Welfare
Asst. Registrar Admissions
Asst. Registrar Examinations



3.1. 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). HE the President of Sri Lanka appoints the Chairman and members of the UGC.

3.2. The Chancellor and Officers of the University

- Every University has a Chancellor appointed by HE 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 HE 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.

3.3. The Faculties and Academic Departments

There are eight Faculties in the University of Jaffna and two 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)

Each Faculty has academic Departments of Study. The Faculty of Science, University of Jaffna has the following seven academic Departments:

1. Department of Botany
2. Department of Chemistry
3. Department of Computer Science
4. Department of Fisheries
5. Department of Mathematics and Statistics
6. Department of Physics
7. Department of Zoology

3.4. 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 Science are given on Page 45.

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 Science is located on the western side of the Physics Block. Each 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 Science are given on Page 41. Their contact details are given on Page 44.

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 41. Students are encouraged to seek assistance from the Office of the Dean and the Heads of Departments regarding their study programmes and appropriate subject combinations.

3.5. 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.

3.6. 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. Centre for Open and Distance Learning (CODL)
4. Extra Mural Studies Unit
5. Human Resource Advancement Unit
6. Gender Equity & Equality Centre
7. Physical Education Unit
8. Siddha Medicine Unit
9. Well-Being Centre

3.7. Administrative Branches of the University

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

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

3.7.2. *Establishments Branch*: The Establishments branch handles the works relating to university employees and are therefore not relevant to the students.

3.7.3. *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.

3.7.4. *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 counselling, 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.

3.7.5. *Academic and Publication Branch*: The Academic branch engages itself with the working 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.

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

3.7.7. *Planning and Maintenance Branch*: This branch is responsible for utilities such as Water and Electricity Supply, maintenance of buildings and structures etc.

3.7.8. *Security Department*: This Department headed by a Chief Security Officer (CSO) has more than fifty security personnel to protect the properties of the university and give security to the university community.

4. The Structure of the Bachelor Degree Programmes in the Faculty of Science, University of Jaffna

4.1 Degrees

The Faculty offers Bachelor's degree of three years duration (traditionally referred to as the General degree) and Bachelor's Honours degree of four years duration (one type of which is traditionally referred to as the Special degree).

Selection to Bachelor's Honours degree courses is made at the end of the second year (Level 2) of study in the case of subject marked Honours degree traditionally known as the Special Degree and at the end of the third year (Level 3) of study in the case of the extended degree programme in Applied Science. Selection is generally based on the availability of the places and on the performance of the students in their examinations.

Biological Science stream and Physical Science stream students who have passed the G.C.E.(A/L) Examination and have satisfied all the respective entrance requirements are admitted to the Faculty by the University Grants Commission (UGC).

Students are also admitted by the UGC directly to a subject specific programme. This type is referred to as Direct Intake and, at present, this is done only in Computer Science. These students follow a three years degree programme with a selection to BScHons in ComputerSc degree (generally referred to as subject specific Honours degree) at the end of second year.

The medium of instruction is English and Tamil.

4.1.1. Bachelor's degree (Three years)

This degree (traditionally known as the General degree) programme is offered to the following category of students:

(a) Students following a three year degree.
(b) Students who have failed to gain admission to a four year Honours degree programme.
(c) Students selected to a four year Honours degree programme who opt to exit at the end of the third year.

The names of the Bachelor's degrees and the abbreviations shall be as follows.
Bachelor of Science abbreviated as BSc for those who follow subjects from Table 3 and Table 4.
Bachelor of *Subject Name* abbreviated appropriately.
The above name applies only to students admitted by the UGC directly to a subject specific degree programme and who opt for a Bachelor's degree and satisfy the requirements for the Bachelor's degree.
For example, in the case of Direct Intake Computer Science students, it is: **Bachelor of Science in Computer Science abbreviated as BSc in ComputerSc.**

4.1.2. Bachelor's Honours degree (Four years)

For those who follow the subject marked Honours degrees (traditionally referred to as Special Degrees) in the subjects given in Table 3 and Table 4* the name of the degree **(except in the case of Fisheries Science and Computer Science)** and abbreviation shall be:

Bachelor of Science Honours in *Subject Name* abbreviated as BScHons(*Subject Name*). This applies to the subjects Botany, Chemistry, Zoology, Physics and Statistics.
For example, in the subject of Botany, it is:
Bachelor of Science Honours in Botany abbreviated as BScHons(Botany).

In the subject of **Fisheries Science**, it is:
Bachelor of Science Honours in Fisheries Science abbreviated as BScHons(Fisheries).

In the subject of **Computer Science**, it is:
Bachelor of Science Honours in Computer Science abbreviated as BScHons(ComputerSc).

*Subject marked Honours degrees are not offered in Pure Mathematics and Applied Mathematics. Instead, a subject marked Honours degree is offered in Mathematics. It shall be referred to as,
Bachelor of Science Honours in Mathematics abbreviated as BScHons(Mathematics).

The name of the degree for the Direct Intake students shall be:
Bachelor of Science Honours in *Subject Name* abbreviated appropriately.
Example: In the case of Direct Intake students in Computer Science, it is:
Bachelor of Science Honours in Computer Science abbreviated as BScHons in ComputerSc.

For the students selected to the extended programme in Applied Science at the end of their third year, the name of the degree **(except for Financial Mathematics and Industrial Statistics)** shall be:
Bachelor of Science Honours in Applied Science in *Subject Name* abbreviated as BSc Hons (AppliedSc) (*Subject Name*).
For example, in the subject of Physics, it is:
Bachelor of Science Honours in Applied Science in Physics abbreviated as BSc Hons (AppliedSc) (Physics).
In the subject of **Financial Mathematics and Industrial Statistics**, it is:
Bachelor of Science Honours in Applied Science in Financial Mathematics and Industrial Statistics abbreviated as BSc Hons (AppliedSc)(FMIS).

Table 5 gives the names of the subjects in which the BSc Hons (AppliedSc) degrees are given.

4.2. Academic year, SLQF Levels and Faculty Labelling

An academic year consists of two semesters, Semester 1 and Semester 2. The duration of each Semester is 15 weeks, excluding any University approved vacation and periods of examinations (Table 1).

Table 1

	1st half*	Life Skills/ Career Fair	Mid-semester vacation	2nd half*	Make up week for ICA**	Examination and Vacation
1st Semester	8 weeks	-	1 week	7 weeks	1 week	6 weeks
2nd Semester	8 weeks	1 week	1 week	7 weeks	1 week	11 weeks

*Number of weeks in the first half and the second half may change but the total of these two will be 15.

** Around the sixth week the relevant In-course Assessments (ICA) for the theory courses and the theory components of the courses will be held. Around the 12th week the relevant In-course Assessments (ICA) for the theory courses and the theory components of the courses will be held. **This make up week is to compensate for the days lost in holding these ICAs.**

Different years of study are also indicated by the corresponding Sri Lanka Qualifications Framework (SLQF) levels and the Faculty levels. These are given in Table 2.

See Table 9 for the meaning of the letter symbols G, S, M, and X.

Table 2

Year of Study	SLQF Level	Faculty Labelling
First Year	SLQF Level 3	Level 1G/1S
Second Year	SLQF Level 4	Level 2G/2S
Third Year	SLQF Level 5	Level 3G/3M/3S
Fourth Year	SLQF Level 6	Level 4M/4S/4X

4.3. Subjects

4.3.1. Principal Subjects

The Faculty offers 4 subjects in the Biological Science stream and 6 subjects in the Physical Science stream. Courses in these subjects are offered throughout the four years and, therefore, these are called the principal subjects. The subject names and their letter codes in the Biological Science stream are given in Table 3.

Table 3

Principal Subject	Letter Code
Botany	BOA
Chemistry	CHE
Fisheries Science	FIS
Zoology	ZOL

The subject names and the letter codes in the Physical Science stream are given Table 4.

Table 4

Principal Subject	Letter Code
Applied Mathematics	AMM
Chemistry	CHE
Computer Science	CSC
Physics	PHY
Pure Mathematics	PMM
Statistics	STA

The names of the subjects in which the fourth year Applied Science courses are available are given in Table 5.

Table 5

Biology
Botany
Chemistry
Computing
Physics
Financial Mathematics and Industrial Statistics
Zoology

In the first and second years of their study students follow courses in three subjects. Biological science stream students may select any three subjects from the Table 3. Students from the Physical Science stream may make their choice of three subjects selecting three boxes from the four boxes in Table 6.

Table 6

1	2	3	4
Chemistry **OR** Physics **OR** Statistics***	Pure Mathematics**	Applied Mathematics**	Computer Science*

*Direct Intake students will follow courses only in the subject for which they are admitted by the UGC.
**Students wishing to do the Special Degree in Mathematics should offer both Pure Mathematics and Applied Mathematics during their first and second years.
***Students wishing to offer the Special degree in Statistics should also offer Pure Mathematics in their first and second years.

4.3.2. Supplementary Subjects

Depending on the demand and the availability of the resources, the supplementary subjects in Table 7 may be offered in the third year. Students following or opting for the three year General degree may choose one of these subjects dropping one of their principal subject. Students choosing this option must take all the courses (amounting to a total of 6 credits) offered in the selected Supplementary Subject. (See Table 8)

Table 7

Supplementary Subject	Letter Code
Information Technology*	ITE
Biotechnology	BTE
Biomathematics and Statistics**	BMS
Electronics***	ELE
Environmental Science	ENS
Food Science and Nutrition	FSN

*Students who offered Computer Science as a subject in Levels 1 and 2 are not allowed to take this option.
**Students who offered Statistics as a subject in Levels 1 and 2 are not allowed to take this option.
***Students who offered Physics as a subject in Levels 1 and 2 are not allowed to take this option.

4.3.3. English
The Faculty will arrange, with the help of the English Language Teaching Unit, to conduct 60 hours (2 hours per week) of English Language course during each of the first year and second year (Levels 1G/1S and 2G/2S). A student should attend at least 80% of the classes.

A student who has obtained a grade of A or B in the subject General English in the G.C.E. (A/L) Examination may be granted exemption from following this course provided that he/she submits a certified copy of the results sheet (along with the original for checking purpose only) to the AR/Science and obtains approval of the Faculty Board.

4.3.4. Life Skills and Career Fair
The Faculty will arrange to conduct these programmes after the first half of the Second Semester

4.3.5. Computer Applications
The Faculty will make arrangements with the Computer Unit of the University to conduct certain courses in Computer Applications two times in an year.

4.3.6. Mathematics for Biological Science Students
This non-credit course will be conducted in the first year. The Departments responsible for the principal subjects in the Table 3 will organise this course.

4.4. Courses

Courses in the Faculty are offered in the form of credit valued modules generally known as course units.

- 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 2 -3 hours duration is equivalent to one credit.
- The credit values of courses that have both theory and practical components are calculated by giving due weight to the components accordingly, as stipulated above.
- For course units involving field work or industrial training the assigned credit value shall be given in the approved syllabi
- For Research Projects the assigned credit value should be at least 6.

A course unit shall be of the credit value of any whole number from 1 to 6. At each Level a student should offer course units totalling to 30 credits* and attend at least 80% of the lectures and practical classes conducted in each course unit. He/She should sit for all the In-course Assessments and End of Semester examinations in those courses. Table 8 indicates how the courses shall be selected.

*In the case of Direct Intake Computer Science students, and students offering Computer Science as a subject who offer the Honours Degree course in Computer Science,the number of credits in Level (3G+3M)/3S shall be 33. These students shall offer 27 credits in the Level 4M4S.

This choice of subjects (three Principal subjects and Supplementary Subject) is **not** applicable to Direct Intake students.

Table 8

Level	Number of Credits						
	Principal Subject 1	Principal Subject 2	Principal Subject 3	Suppl. Subject	English	Life Skills	Career Fair
1G	10	10	10	-	✓	✓	-
2G	10	10	10		✓	✓	-
3G (Option1)	12	12	6****			-	✓
Level 3G (Option2)	12	12	-	6		-	✓
3M	12* + 18**	-	-	-	-	-	✓
4M/4X***	30	-	-	-	-	-	-

*In the case of Mathematics, the Department of Mathematics and Statistics will inform the students about which of the 12 credits in Pure Mathematics and Applied Mathematics shall be offered by them.
**These 18 credits are advanced courses in the Principal subject 1.
***Principal subject for the students taking the option 4X shall be Applied Science (with the relevant course units approved for their subject).
****Students may select course units aggregating to six credits from the courses (aggregating to 12 credits) offered in this subject.
✓ Attendance is compulsory for these programmes subject to the provision given in Section 6.3.

For any particular level a Department may obtain approval from the Faculty Board and the Senate to conduct courses of total credit value more than that given in the above Table. However, in a particular academic year the Department will only offer courses aggregating to the credit values given in the above Table. This is subject to conducting the repeat examinations for two subsequent years for the courses dropped in any particular year.

In the first year a student (except the Direct Intake students) should select three subjects from the Table 3 or Table 6. In the first two weeks of study a student may attend all the subjects in his/her stream. During the third week the student should decide on the three subjects he/she wants to study and should register for them in the Dean's Office.

There may be a limit on the number of students who could be admitted to a particular subject or subjects. At such instances the admission to those

subjects will be made by the concerned Department on merit that will be based on the student's performance in the G.C.E. (A/L) examination.

Academic Counsellors appointed by the Faculty Board will help the students in selecting the subject combinations judiciously.

In the second year of study, the student should register for the same three subjects. If a student is not selected for an Honours degree course, he/she may follow either the same three subjects (Option 1) or two of these three subjects and a supplementary subject (Option 2) for the third year as indicated in Table 8.

Subject marked Honours degree (Special Degree) students in their third year and fourth year should register for the one subject to which they are selected.

Students selected for the Applied Science should register for the relevant courses in their fourth year.

In each year Direct Intake students should register for the subject for which they were admitted by the UGC.

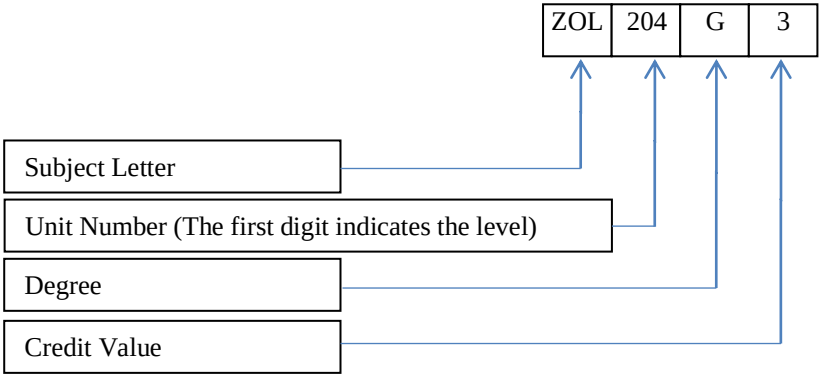
4.4.1. Course unit codes

Each course unit will be designated by a code made up by three letters indicating the subject (see Tables 3, 4 and 7) followed by a three digit number where the first digit indicates the Faculty Level (see Table 2) and the last two digits are specific to the course, followed by a letter indicating whether it is a course for General (G) or Special (M), Direct Intake (S), or the extended Applied Science (X) programme. The final digit indicates the credit value of the course.

Table 9

Letter Symbol	Meaning
G	General Degree course
M	Subject based Honours (Special)
S	Direct Intake (currently in Computer Science only)
X	Applied Science programme

An example is given below.



4.5. Selection to Four Year Degree Programmes

The selection to Four Year Degree Programmes is done at the end of the second year in the case of subject marked Honours degrees and at the end of the third year for the extended Applied Science degree.

At the end of their second year students may apply for admission to a subject marked Honours Degree programme. These programmes are offered in all subjects listed in the Table 3 and Table 5 except in Pure Mathematics and Applied Mathematics. In the case of Pure Mathematics and Applied Mathematics there is a single Special Degree programme in Mathematics.

The number of students admitted to any of the above subjects may be limited depending on the resources available. However, students with the following **minimum** qualifications may apply.

- For all subjects other than Mathematics a GPA of 2.70 in the subject of specialisation and a GPA of 2.30 in all three subjects at levels 1G and 2G combined.
- For Mathematics, a GPA of 2.70 in the two subjects, Pure Mathematics and Applied Mathematics and a GPA of 2.30 in all three subjects at levels 1G and 2G combined.
- For Direct Intake in Computer Science a GPA of 2.70 at levels 1S and 2S combined.

Note: For the selections mentioned above, the GPA should be calculated by giving a weight of ½ to the 1G/1S courses and 1 to the 2G/2S courses. Please see Appendix A1 for guidance in the calculation.

In the case of the extended degree programme in Applied Science selection shall be made at the end of the third year from among the General Degree students.

The number of students admitted to this programme may be limited depending on the resources available. However, students with the following minimum qualifications may apply.

An overall GPA of 2.00 in the Levels 1G, 2G and 3G (First Semester only for Level 3G) combined calculated by giving a weight of ½ to the 1G courses and 1 to the 2G and 3G courses. Please see Appendix A2 for guidance in calculation.

4.6. Evaluation Procedures and Examinations

Each course unit (including theory courses and laboratory courses but excluding Research Project, Seminar, Field work and Industrial Training) shall be evaluated by means of at least one In-course Assessment and an End of Semester examination. For course units that run throughout the academic year, the End of Semester examination shall be conducted at the end of the second semester.

For course units that have a practical component there shall be an In-course Assessment and an End of Semester examination in each of the theory component and the practical component. To secure any grade higher than E for the course unit, a student should obtain at least a D^+ Grade in the theory component and at least a D^+ Grade in the practical component.

Evaluation procedures for Research Project, Seminar, Field Work and Industrial Training will be determined by the concerned Department (subject to approval of the Faculty Board and the Senate) and will be included in the syllabi.

4.6.1. In-course Assessment

On a Monday and Tuesday around the sixth week, the relevant In-course Assessments (ICA) for the theory courses and the theory components of the courses will be held. On Monday, Tuesday and Wednesday around the 12th week the relevant In-course Assessments (ICA) for the theory courses and the theory components of the courses will be held (see Table 1).

Each theory course unit and each course unit containing a theoretical component will be tested by at least one written examination of maximum duration one hour. The time-table will be announced by the Dean's Office.

In some theory course units, this examination may take the form of assignments, reports, oral presentations, oral examinations and quizzes. These, if any, will be conducted during the semester (that is, during the first half or the second half).

In-course Assessments of the practical course units and practical components of the course units will be conducted during the semester (that is, during the first half or the second half). This may take the form of spot examination, continuous assessment, practical test, written test or a combination of any of these.

In the case of courses for Levels 3M, 3S, 4M, 4S and 4X the respective instructor(s) will decide the number and the dates of In-course Assessments.

The marks scored by the students in a particular In-course Assessment shall be displayed in the Notice Board of the Department by the instructor(s) concerned.

A student shall take an In-course Assessment at the first opportunity afforded to him/her. If a student could not sit for an In-course Assessment he/she should inform the reason to the Head of the Department within three days of the date of resumption of attending the classes. If the reason is acceptable the Head of the Department shall arrange to hold that particular In-course Assessment on another date.

No In-course Assessment shall be conducted after the completion of the End of Semester examination in the relevant course unit. A student who has obtained a grade of C- or below in a course unit will be permitted to repeat the relevant In-course Assessments. The time table will be available in the website of the Faculty of Science.

4.6.2 End of Semester Examination

An End of Semester examination shall be conducted at the end of the semester for each course unit completed in that semester.

A student shall take an End of Semester Examination at the first opportunity afforded to him/her. If a student fails to sit for any examination without giving valid reasons acceptable to the University Senate, he/she shall be considered to have forfeited a chance to sit the examination.

Absence in the End of Semester Examination due to medical grounds or any other valid reason should be approved by the Faculty Board and the Senate. Medical certificates submitted by the students will be sent by the Dean's Office for the recommendation of the University Medical Officer.

Depending on the marks (for a total of 100) received by a student he/she shall be awarded one of the following Grades. The Grade Point Value (GPV) corresponding to each Grade is also given (Table 10).

Table 10

Grade	Marks	GPV
A^+	85 - 100	4.00
A	75 - 84	4.00
A-	70 - 74	3.70
B+	65 - 69	3.30
B	60 - 64	3.00
B-	55 - 59	2.70
C+	50 - 54	2.30
C	45 - 49	2.00
C-	40 - 44	1.70
D+	35 - 39	1.30
D	30 - 34	1.00
E	0 - 29	0.00

The marks for each unit or component of a unit (in the case where a course unit has both theory and practical components) shall be calculated by giving a weight of 70% to the End of Semester examination and 30% to the In-course Assessment. When a course unit has theory and practical components the final marks will be calculated by giving appropriate weights to these components.

A Course Unit Examination Board of the Faculty constituted for each course unit shall finalise the results of that course unit. After this the Grades obtained by the students in a particular course unit shall be

displayed by the Dean with a note that the results are provisional and subject to confirmation by the Faculty Examination Board and the Senate.

The Grade Point Average (*GPA*) for a particular level 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 of the n^{th} course unit. Any calculated *GPA* shall be rounded to the second decimal place. $\sum c_n$ will be 30 for any level except in the case of Direct Intake Computer Science students, and students offering Computer Science as a subject who wish to offer the Honours Degree course in Computer Science where the number of credits in Level (3G+3M)/3S shall be 33 and in the Level 4M/4S shall be 27. When such a student decides to opt with Level (3G+3M)/3S, the best 18 credits out of 21 in Level 3M together with the 12 credits of Level 3G shall be considered when calculating GPA for Level 3 of the (3G+3M) student, and, the best 30 credits out of 33 of Level 3S shall be considered when calculating GPA for Level 3 of the 3S student.

4.6.3. Examination in English

A student who has obtained a grade of A or B in the subject of General English in the G.C.E. (A/L) Examination and has obtained Faculty Board approval for exemption from following this course (see Section 3.3) is deemed to have passed this examination. In spite of this exemption if such a student wishes to obtain a grade he/she will be allowed to sit for the examination.

For such students and for all others, an examination in English will be conducted at the end of the Level 2. A student who has obtained a grade of D^+ or above in the examination is deemed to have passed the examination.

4.6.4. Repeating Assessments/Examinations

If a student is absent for an End of Semester examination of a particular course unit for reasons acceptable to the University Senate, then he/she can sit for that examination in the next opportunity and it will be considered as the first attempt. His/her present results will be recorded as WH (Withheld).

If a student is absent for an End of Semester examination of a course unit and if the Senate does not accept the reasons submitted by the student or if the student did not give any reason, the student may repeat that examinations and the maximum grade obtainable is C. His/her present results will be recorded as IC (Incomplete).

Table 11 summarises what is stated in the two paragraphs above.

Table 11

Senate Decision on Student's appeal	Marks for End of Course Examination	Final Marks	Grade
Accepted	AB (Absent)	AB (Absent)	WH (Withheld)
Not accepted (also for no appeal)	AB (Absent)	AB (Absent)	IC (Incomplete)

A student who obtains a grade of C⁻ or below for a course unit may repeat the relevant Assessment(s)/Examination(s) to improve his/her results. Where relevant the grade for the repeat examination will be calculated using the latest End of Semester marks and the best In-course Assessment marks available. The highest grade that could be obtained in this way is C. If a student obtains a lower grade in the repeat examination he/she is entitled to keep the previous grade.

A student will be permitted to repeat an examination only for two times. The maximum period allowed for completing the three year degrees shall be five academic years and that for the four year degrees shall be six academic years excluding the period(s) of absence approved by the Senate.

4.7. Criteria for Awarding Degrees

4.7.1. Bachelor's degree (Three years)

The conditions given in this section applies to the following degrees.
Bachelor of Science abbreviated as **BSc**
Bachelor of Science in Computer Science abbreviated as **BSc in ComputerSc**

For the award of the degree a student should possess:
(i) Pass in English

(ii) Grade D^+ or above in course units amounting to 81 credits or more subject to the condition that the total credit value of the courses in which the student obtains D or E in any level is not more than 4, and
(iii) Overall GPA (OGPA) of 2.00 or above. (Please see Appendix for the calculation of OGPA.)

4.7.2. Bachelor's Honours degree (Four Years)

The conditions given in this section applies to the following degrees.
Bachelor of Science Honours in *Subject Name* **abbreviated as BScHons(*Subject Name*)** subject to the exceptions in abbreviations given in Section 1.2.
Bachelor of Science Honours in Computer Science abbreviated as **BScHons in ComputerSc**

For the award of the degree a student should possess:
(i) Pass in English
(ii) Grade D^+ or above in course units amounting to 108 credits or more subject to the condition that the total credit value of the courses in which the student obtains D or E in any level is not more than 4, and
(iii) Overall GPA (OGPA) of 2.00 or above. (Please see Appendix for the calculation of OGPA.)

Note: In the case of subject specific Honours degree in Computer Science and subject marked Honours degree in Computer Science if a student obtains a grade lower than C^- in Industrial Training even due to medical reasons he/she does not qualify for the award of BScHons(ComputerSc) or BScHons in ComputerSc and may opt for the award of three year degree.

4.7.3. Bachelor of Science Honours in Applied Science

For the award of the degree a student should possess:
(i) Pass in English
(ii) Grade C^+ or above in Industrial Training

(iii) Grade D+ or above in course units amounting to 108 credits or more subject to the condition that the total credit value of the courses in which the student obtains D or E in any level is not more than 4, and

(iv) Overall GPA (OGPA) of 2.00 or above. (Please see Appendix for the calculation of OGPA.)

Note: A student who obtains a grade lower than C^+ in Industrial Training even due to medical reasons does not qualify for the award of BSc Hons (AppliedSc) and may opt for the award of General degree.

4.8. Award of Class

Any student who followed the three year degree programme and has fulfilled the requirements for the award of the general degree within three consecutive academic years excluding the period(s) of absence approved by the Senate, and any student who followed the four year degree programme who has fulfilled the requirements for the award of the Honours degree within four consecutive academic years, excluding the period(s) of absence approved by the Senate, shall be awarded Class on the following basis.

First Class	OGPA 3.70 or above
Second Class (Upper Division)	OGPA 3.30 or above
Second Class (Lower Division)	OGPA 3.00 or above

4.9. Award of Diploma and Higher Diploma

Whenever a student is unable to fulfil the requirements for the award of a Degree, he/she may be awarded any one of Diploma or Higher Diploma on request provided he/she satisfies the requirements.

For the award of Diploma a student should possess a GPA of 2.00 or above calculated for all the course units in which the student has scored the highest grade and whose credit values aggregate to 30.

For the award of Higher Diploma a student should possess a GPA of 2.00 or above calculated for all the course units in which the student has scored the highest grade and whose credit values aggregate to 60.

In the case of Direct Intake students, the qualification shall be designated as:
Diploma in *Subject Name* abbreviated as Dip (*Subject Name*), and
Higher Diploma in *Subject Name* abbreviated appropriately.
For example, in the case of Direct Intake Computer Science students, the names shall be:
Diploma in Computer Science abbreviated as **Dip (ComputerSc),** and
Higher Diploma in Computer Science abbreviated as **HDip (ComputerSc).**

In all other cases, these shall be designated as:
Diploma in Science abbreviated as **Dip (Sc),** and
Higher Diploma in Science abbreviated as **HDip (Sc).**

4.10. Effective Dates of the Qualifications and Official Transcripts

The effective date of the Degrees awarded shall be the date on which the last of the End of Semester examinations of the corresponding final level examinations had been conducted in the academic year in which the candidate satisfied all the requirements for the award of Degree or the date on which the student had satisfied all the requirements for the award whichever is later.

In the case of Higher Diplomas and Diplomas, the effective date shall be the date at which the request has been received at the Dean's office.

In addition to the results sheets given to students after releasing the results of the examination results in a particular Level, a student will be issued the Official Transcript. The Official Transcript shall contain all the course codes, names of the course units, credit value of each course unit and the grade obtained by the student in each course unit in an year wise manner.

The Official Transcript shall also include the highest SLQF Level completed, overall GPA, the Class (if any) and a Table showing the Grade Point Value (GPV) assigned to each Grade.

Appendices

A1. Calculation of GPA for the selection of Subject Marked Honours Degree

For all subjects*, other than Mathematics, the student should have followed course units aggregating to 60 credits in three subjects (10 credits in each subject in each year) where 20 will be in the subject to which he/she applies for the selection (referred to as Special Subject). GPAs for the first year (*GPA1*) and the second year (*GPA2*) should be calculated separately using the formula:

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

where c_n and g_n are the credit value and the grade point value respectively of the n^{th} course unit. This calculation should be done for 'Special Subject' and for all subjects separately.

The GPA for the selection, *GPA(S)*, should be calculated using the formula:

$$\boldsymbol{GPA(S)} = \frac{\boldsymbol{½ * GPA1 + GPA2}}{\boldsymbol{1½}}$$

for the 'Special Subject' and for all subjects separately. *GPA(S)* should be rounded off to two decimal places.

***Note:** In the case of Computer Science the total value of the credits of the courses will be 62 and the calculation should be done taking this fact into account.

In the case of Mathematics, the minimum GPA requirement of 2.70 applies to the combined average of Pure Mathematics and Applied Mathematics (aggregating to 40 credits) and the minimum GPA requirement of 2.30 applies to all three subjects (aggregating to 60 credits) calculated according to the above formula.

A2. Calculation of GPA for the selection to the extended degree programme in Applied Science

GPA for the first year (*GPA1*), second year (*GPA2*) and third year (*GPA3*) should be calculated using the formula:

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

where c_n and g_n are the credit value and the grade point value respectively of the n^{th} course unit. *GPA1* and *GPA2* should be calculated for all subjects offered by the student as indicated in Appendix 1. *GPA3* should be calculated for all subjects offered by the student in the first semester only.

The GPA for selection, *GPA(S)* should be calculated using the formula:

$$\boldsymbol{GPA(S)} = \frac{\boldsymbol{½ * GPA1 + GPA2 + GPA3}}{\boldsymbol{2½}}$$

and should be rounded off to two decimal places.

A3. Calculation of OGPA for the Bachelor's degree

GPA for the first year (*GPA1*), second year (*GPA2*) and third year (*GPA3*) should be calculated using the formula:

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

where c_n and g_n are the credit value and the grade point value respectively of the n^{th} course unit. The total number of credits for the three years should be 90.

The OGPA for the award of the degree, *OGPA(G)* should be calculated using the formula:

$$\boldsymbol{OGPA(G)} = \frac{\boldsymbol{½ * GPA1 + GPA2 + GPA3}}{\boldsymbol{2½}}$$

and should be rounded off to two decimal places.

Note: In the case of students offering Computer Science as a subject who were selected to the Honours Degree course in Computer Science, and, in the case of Direct Intake Computer Science students who were selected to the Honours degree course, the total number of credits in Level (3G+3M)/3S shall be 33. When such a student decides to opt with Level

(3G+3M)/3S, the best 18 credits out of 21 in Level 3M together with the 12 credits of Level 3G shall be considered when calculating GPA for Level 3 of the (3G+3M) student, and, the best 30 credits out of 33 of Level 3S shall be considered when calculating GPA for Level 3 of the 3S student.

A4. Calculation of OGPA for the Bachelor's Honours degree (Subject marked Honours and Subject specific Honours) and the Bachelor of Science Honours in Applied Science

GPA for the first year (*GPA1*), second year (*GPA2*), third year (*GPA3*) and fourth year (*GPA4*) should be calculated using the formula:

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

where c_n and g_n are the credit value and the grade point value respectively of the n^{th} course unit. The total number of credits for the four years should be 120.

The OGPA for the award of the degree, *OGPA(M, S & X)* should be calculated using the formula:

$$\boldsymbol{OGPA(M,S}\ \&\ X) = \frac{½ * \boldsymbol{GPA1 + GPA2 + GPA3 + GPA4}}{\boldsymbol{3½}}$$

and should be rounded off to two decimal places.

B. Course Codes, Titles and Credit Values of the Course Units

B1: Principal Subjects for Level 1G

Subject	Unit Code	Unit Title	No. of Hrs	
			Lect.	Prac., Proj., Train.
Botany	BOA101G2	Basic Biology	22	24
	BOA102G2	Plant Diversity I	22	24
	BOA103G2	Plant Diversity II	22	24
	BOA104G2	General Microbiology	22	24
	BOA105G2	Molecular Biology and Biotechnology	30	-
Chemistry	CHE101G2	General Chemistry	30	-
	CHE102G2	Foundations of Physical Chemistry	30	-
	CHE103G1	Chemistry of Periodic Elements	15	-
	CHE104G3	Organic Chemistry I	45	-
	CHE105G1	Inorganic Chemistry Laboratory 1	-	45
	CHE105G1	Organic and Physical Chemistry Laboratory 1	-	45
Computer Science	CSC101G3	Foundations of Computer Science	45	-
	CSC102G3	Computer Programming I	-	135
	CSC103G2	Multimedia Technologies	30	-
	CSC104G2	Design of Algorithms	30	-
Fisheries Science	FIS101G2	Principles of Fisheries	30	-
	FIS102G2	Fish Evolution and Diversity	22	24
	FIS103G2	Marine & Coastal Environment and Oceanography	22	24
	FIS104G2	Introductory Aquaculture	22	24
	FIS105G2	Ornamental Fish / Plant Culture and Fish Feeds	22	24
Applied Mathematics	AMM101G3	Applied Methods I	45	10
	AMM102G2	Mechanics I	30	-
	AMM103G3	Applied Methods II	45	-
	AMM104G2	Mechanics II	30	-
Pure Mathematics	PMM101G3	Foundations of Mathematics	45	-
	PMM102G2	Limit Process	30	-
	PMM103G3	Algebra and Number Theory	45	-
	PMM104G2	Calculus	30	-
Statistics	STA101G3	Probability Theory	45	-
	STA102G2	Introduction to Statistics	30	-
	STA103G3	Basic Statistical Inference	45	-
	STA104G2	Applied Statistics I	30	-

Physics	PHY101G2	Practical Physics I	-	90
	PHY102G2	Mechanics	30	-
	PHY103G2	Vibrations, Waves and AC theory	30	-
	PHY104G1	Mathematics for Physics	15	-
	PHY105G3	Electricity, Electromagnetic Fields and Electronics	45	-
Zoology	ZOL101G2	Origin of Life and Evolutionary Biology	22	24
	ZOL102G2	Ecosystems; Distribution and Characteristics	20	24
	ZOL103G2	Animal Cell biology and Bio-molecules	20	24
	ZOL104G2	Animal Diversity	20	24
	ZOL105G2	Animal Histology	20	24

B2: Subjects for Level 1S

(Bachelor of Computer Science)

Subject	Unit Code	Unit Title	No. of Hrs	
			Lect.	Prac., Proj., Train.
1S	CSC101S3	Foundations of Computer Science	45	-
	CSC102S3	Computer Programming I	-	135
	CSC103S3	Introduction to Computer Systems	30	30
	CSC104S2	Mathematics for Computing I	30	-
	CSC105S3	Statistics for Computing I	45	-
	CSC106S3	Human Computer Interaction	30	30
	CSC107S2	Multimedia Technologies	30	-
	CSC108S2	Design of Algorithms	30	-
	CSC109S2	Introduction to Computer Security & Cryptography	30	-
	CSC110S2	Organisational Behaviour	30	-
	CSC111S2	Mathematics for Computing II	30	-
	CSC112S3	Statistics for Computing II	45	-

B3: Principal Subjects for Level 2G

Subject	Unit Code	Unit Title	No. of Hrs	
			Lect.	Prac., Proj., Train., Field
Botany	BOA201G2	Plant Morphology and Anatomy	20	24
	BOA202G2	Plant Systematics	20	24
	BOA203G2	Biochemistry	20	24
	BOA204G2	Genetics	20	24
	BOA205G2	Economically Important Plants	30	-
Chemistry	CHE201G2	Coordination and Organometallic Chemistry	30	-
	CHE202G3	Quantum Mechanical Approach to Atomic and Molecular Structure and Molecular Spectroscopy	45	-
	CHE203G2	Organic Chemistry II	30	-
	CHE204G3	Inorganic and Organic Chemistry Laboratory II	-	135
Computer Science	CSC201G2	Database Systems Concepts and Design	30	-
	CSC202G2	Computer Programming II	-	90
	CSC203G2	Operating Systems	30	-
	CSC204G2	Data Structures & Algorithms	30	-
	CSC205G2	Software Engineering	30	-
Fisheries Science	FIS201G2	Laboratory Techniques	22	24
	FIS202G2	Aquatic Fauna and Flora	22	24
	FIS203G2	Principles of Aquatic Ecology and Behaviour	22	24
	FIS204G2	Fish Biology and Embryology	22	24
	FIS205G2	Fish Parasitology and Diseases	22	24
Applied Mathematics	AMM201G3	Mathematical Methods	45	-
	AMM202G2	Fluid Dynamics	30	-
	AMM203G3	Linear Programming	40	10
	AMM204G2	Numerical Analysis	30	-
Pure Mathematics	PMM201G3	Linear Algebra	45	-
	PMM202G2	Advanced Calculus	30	-
	PMM203G3	Analysis	45	-
	PMM204G2	Linear Algebra and Analytic Geometry	30	-
Statistics	STA201G3	Statistical Theory	45	-
	STA202G2	Sampling Techniques	30	-
	STA203G3	Design and Analysis of Experiments	40	10
	STA204G2	Statistical Inference	30	-

Subject	Unit Code	Unit Title	No. of Hrs	
			Lect.	Prac., Proj., Train., Field
Physics	PHY201G2	Practical Physics II	-	90
	PHY202G2	Solid State Physics	30	-
	PHY203G2	Optics and Special Relativity	30	-
	PHY204G2	Electromagnetism	30	-
	PHY205G2	Computational Physics	20	30
Zoology	ZOL 201 G3	Animal Phylogeny and Biology	27	30(P) +9(F)
	ZOL 202 G2	Animal Genetics	30	-
	ZOL 203 G2	Comparative Anatomy and Physiology	20	24
	ZOL 204 G3	Animal Ecology and Behaviour	27	24(P)+ 18(F)

B4: Subjects for Level 2S

(Bachelor of Science in Computer Science)

Subject	Unit Code	Unit Title	No. of Hrs	
			Lect.	Prac., Proj., Train.
2S	CSC201S2	Database Systems Concepts and Design	30	-
	CSC202S2	Computer Programming II	-	90
	CSC203S2	Operating Systems	30	-
	CSC204S2	Data Structures & Algorithms	30	-
	CSC205S2	Software Engineering	30	-
	CSC206S4	Mathematics for Computing III	60	-
	CSC207S3	Computer Architecture	30	30
	CSC208S3	Concepts of Programming Languages	30	30
	CSC209S3	Bioinformatics	30	30
	CSC210S3	Web Technologies	30	30
	CSC211S2	Emerging Trends in Computer Science	30	-
	CSC212S2	Professional Practice	30	-

B5: Subject Specific Areas of Level 4X

Subject	Course Code	Course Title	Credit Value	No. of Hrs	
				Lect. & Tute	Prac./ Fieldwork
Common Courses	APS401XM2	Industrial Management	2	30	-
	APS402XM2	Introduction to Human Resource Management	2	30	-
	APS403XM2*	Database Management	2	30	-
	APS404XM2*	IT Project Management	2	30	-
	APS405XM2	Entrepreneurship	2	30	-

*Computer Science students should follow APS404XM2 but not APS403XM2 whereas others should follow APS403XM2 and not APS404XM2.

Botany	BOA401XS3	Plant Biotechnology	3	22	24
	BOA402XS2	Environmental Microbiology	2	22	24
	BOA403XS2	Food Safety	2	22	24
	BOA404XS2	Postharvest Technologies of fresh produce	2	22	24
	BOA405XS2	Horticulture	2	22	24
	BOA406XS8	Industrial Training in Applied Botany	8	-	4-6 months
	BOA407XS3	Laboratory/Project Work	3	-	90-120
Chemistry	CHE401XS2	Application of analytical methods	2	30	-
	CHE402XS2	Industrial Organic Chemistry	2	30	-
	CHE403XS3	Industrial waste management and Cleaner production	3	45	-
	CHE404XS2	Industrial minerals, Nanomaterials and material Characterizations	2	30	-
	CHE405XS2	Chemistry for Drug design and Chemotherapy	2	30	-
	CHE406XS3	Applied Chemistry Laboratory/Project Work	3	-	90-120
	CHE407XS8	Industrial Training	8	-	4-6 months

Subject	Course Code	Course Title	Credit Value	No. of Hrs	
				Lect. & Tute	Prac./ Fieldwork
Computer Science	CSC401XS3	Java Certification (Oracle)	3	45	-
	CSC402XS3	Database Management Certification(Oracle)	3	45	-
	CSC403XS3	MCSD - Microsoft Certified Solution Developer	3	45	-
	CSC404XS3	CCNA - Cisco Networking Certification	3	45	-
	CSC405XS3	Linux Professional Institute / Redhat	3	45	-
	CSC406XS3	Practical Work / Research Project in Applied Computing	3	-	90–120 Hrs / 4-6 months
	CSC407XS8	Industrial Training in Applied Computing	8	-	4-6 months
	CSC421XE3	Introduction to e-Education and Learning Management Systems	3	45	-
	CSC422XE2	Data visualisation	2	30	-
	CSC423XE2	Information security management	2	30	-
	CSC424XE3	Mobile platforms and development environments	3	45	-
Fisheries	FIS401XS2	Quality Control of Fish and Fishery Product	2	22	24
	FIS402XS2	Fish Processing Techniques	2	22	24
	FIS403XS2	Breeding Techniques, Hatchery Management and Larval rearing	2	22	24
Mathematics and Statistics	MMT401XS3	Financial Mathematics	3	45	-
	MMT402XS3	Actuarial Mathematics	3	45	-
	STA403XS3	Applied Multivariate Analysis for Real World Data	3	45	-
	STA404XS2	Advanced Statistical Computing	2	10	40
	MMT405XS3	Project Work	3	-	90-120
	STA406XS8	Industrial Training	8	-	4-6 months

Subject	Course Code	Course Title	Credit Value	No. of Hrs	
				Lect. & Tute	Prac./ Fieldwork
Physics	PHY401XS3	Introduction to Physics of Industrial Materials	3	45	-
	PHY402XS2	Ceramics and their Industrial Applications	2	30	-
	PHY403XS2	Polymers and their Industrial Applications	2	30	-
	PHY404XS2	Laboratory Based Workshop Practice	2	30	-
	PHY405XS3	Laboratory/Project Work in Industrial Materials	3	-	90-120
	PHY406XS8	Industrial Training	8	-	4-6 months
	PHY421XE2	Minerals for Advanced Applications	2	30	-
	PHY422XE2	Semiconductor Process Technology	2	30	-
	PHY423XE2	Energy Management in Industries	2	30	-
Zoology	ZOL401XS3	Economic Zoology	3	33	36
	ZOL402XS3	Ecotourism	3	33	36
	ZOL403XS3	Application of Remote Sensing and Geographical Information System for Environmental Management	3	33	36
	ZOL404XS2	Bio–nanotechnology	2	30	-
	ZOL405XS3	Laboratory/Project Work	3	-	90-120
	ZOL406XS8	Industrial Training	8	-	4-6 months

Note: All course codes are subject to confirmation.

C. Principal Officers of the University of Jaffna

Head of the University

The Chancellor	Emeritus Prof. S. Pathmanathan

Officers

The Vice-Chancellor	
Rector, Vavuniya Campus	Dr. T. Mangaleswaran
Dean/Agriculture (Ariviyal Nagar)	Dr.K.Sooriyakumar
Dean/Arts	Dr. K. Suthakar
Dean/Engineering (Ariviyal Nagar)	Prof. A. Atputharajah
Dean/Graduate Studies	Prof. G. Mikunthan
Dean/Managements Studies & Commerce	Prof. T. Velnamby
Dean/Medicine	Dr. S. Raviraj
Dean/Science	Prof. J. P. Jeyadevan
Dean/Technology (Ariviyal Nagar)	Dr.(Mrs).S. Sivachandran
Dean/Applied Science (Vavuniya Campus)	Mr. S. Kuhanesan
Dean/Business Studies (Vavuniya Campus)	Dr. A. Pushpanathan
Registrar	Mr. V. Kandeepan
Librarian	Ms. S. Arulanantham
Bursar	Mr.K.Sureshkumar
Senior Student Counsellor	Dr. P. Iyngaran

D. Principal Officers of the Faculty of Science, University of Jaffna

Dean	Prof. J. P. Jeyadevan

Heads of Departments

Dept. of Botany	Prof. P. Sevvel
Dept. of Chemistry	Dr. P. Abiman
Dept. of Computer Science	Dr. A. Ramanan
Dept. of Fisheries	Prof. (Mrs). S. Kuganathan
Dept. of Mathematics & Statistics	Mr. S. Selvarajan
Dept. of Physics	Dr. K. Vignarooban
Dept. of Zoology	Dr. T. Eswaramohan

Head/Computer Centre	Dr. K. Thabotharan
Asst. Registrar	Mrs.G.Sutharsan

E. Academic Counsellors of the Faculty of Science

	Name	Department
1.	Dr.P.Iyngaran	*Dept. of Chemistry*
2.	Dr.K.Kannan	*Dept. Mathematics and Statistics*
3.	Dr(Mrs)A.Sivaruban	*Dept. of Zoology*
4.	Dr.T.Pathmathas	*Dept. of Physics*
5.	Dr(Mrs)G.Rajkumar	*Dept. of Botany*
6.	Dr.N.Ramaruban	*Dept. Mathematics and Statistics*
7.	Dr.(Mrs)B.Mayurathan	*Dept. of Computer Science*
8.	Mrs.N.Satkunanathan	*Dept. Mathematics and Statistics*
9.	Mr.K.Gunaalan	*Dept. of Fisheries*

F. Student Counsellors of the Faculty of Science

	Name	Department
1.	Dr.E.C.Jeyaseelan	*Dept. of Botany*
2.	Dr.T.Manoranjan	*Dept. of Chemistry*
3.	Dr.T.Pathmathas	*Dept. of Physics*
4.	Dr.(Mrs.)J.Prabagar	*Dept. of Chemistry*
5.	Dr.R.Prasanthan	*Dept. Mathematics and Statistics*
6.	Dr.(Mrs.)T.W.Shanthakumar	*Dept. of Zoology*

G. Staff of the Faculty of Science, University of Jaffna

Dean's Office

Mr. S. D. Jeshanthan	Staff Management Assistant
Mr. M. Nishanth	Management Assistant
Ms. S. Keerththana	Management Assistant
Mr. B. Narendran	Works Aide
Mr. M. Krishdeepan	Works Aide
Mr. K. Sarmilan	Works Aide
Mr. S. Somasundaram	Health Service Labourer

Contact Details

Officer	Telephone Number
Dean/Science	021 – 221 8190 021 – 222 2685
Head/Dept. of Botany	021 – 221 8198
Head/Dept. of Chemistry	021 – 221 8193
Head/Dept. of Computer Science	021 – 221 8194
Head/Dept. of Fisheries	021 – 222 2307
Head/Dept. of Physics	021 – 221 8197
Head/Dept. of Mathematics & Statistics	021 – 221 8196
Head/Dept. of Zoology	021 – 221 8199
Assistant Registrar	021 – 222 2685

Department of Botany - Academic Staff

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B.Sc. (Madras),
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Associate Professor

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B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya)
Ph.D. (Peredeniya)
Senior Lecturer

Prof. R. Kapilan
B.Sc. (Hons) (Jaffna),
M.Phil. (Jaffna),
Ph.D.(Alberta)
Associate Professor

Dr. (Mrs.) G. Rajkumar
B.Sc. (Hons) (Jaffna),
Ph.D. (Colombo)
Senior Lecturer

Mrs. N. Ravimannan
B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya)
Senior Lecturer

Dr. A. Vengadaramana
B.Sc. (Hons) (Jaffna),
M.Phil. (Jaffna)
Ph.D. (Peradeniya)
Senior Lecturer

Mrs. K. Niranjan
B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya)
Senior Lecturer

Dr. E.C. Jeyaseelan
B.Sc. (Hons) (Jaffna),
Ph.D (UK)
Senior Lecturer

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B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya)
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Mrs. T. Jeyaseelan
B.Sc. (Hons) (Jaffna)
Lecturer

Mr. A.C. Thavaranjit
B.Sc. (Hons) (Jaffna),
M.Sc. (Kelaniya)
Senior Lecturer

Support Staff

Mr. T.Jalagoban	Technical Officer
Mr. P.T.J. Jashothan	Technical Officer
Mr. A.N. Jeevanarajah	Technical Officer
Mr. S. Jegakamalanathan	Works Aide
Mr. K. Jeyakkumar	Technical Officer
Mr. K. Jeyakumar	Works Aide
Ms. S. Niththiyananthan	Laboratory Attendant
Mr. K. Pusparathnam	Laboratory Attendant
Mr. B. Ragulan	Laboratory Attendant
Mr. N. Sabananthar	Senior Staff Assistant
Mr. R. Selvaratnam	Laboratory Attendant
Mrs. M. Sivabalasunthar	Technical Officer
Mr. K. Suren	Works Aide
Mr. A. Thananchayan	Laboratory Attendant
Mr. K. Vijayakumar	Laboratory Attendant

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Department of Chemistry - Academic Staff

Prof. J.P. Jeyadevan
B.Sc. (Hons) (Jaffna),
Ph.D. (Liverpool)
Professor

Dr. K. Velauthamoorthy
B.Sc. (Hons) (Jaffna),
Ph.D. (Peradeniya),
AMRSC
Senior Lecturer

Prof. (Mrs.) M. Senthilnanthanan
B.Sc. (Hons) (Jaffna),
Ph.D. (Leeds)
Associate Professor

Dr. (Mrs.) J. Prabagar
B.Sc. (Hons) (Jaffna),
D. Phil. (Oxford)
Senior Lecturer

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B.Sc. (Hons) (Jaffna),
Ph.D. (Cambridge)
Senior Lecturer

Dr. G. Sashikesh
B.Sc. (Hons) (Jaffna),
D. Phil. (Oxford)
Senior Lecturer

Dr. R. Srikaran
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Ph.D. (Sheffield)
Senior Lecturer

Mrs. R. Senthooran
B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya)
Senior Lecturer

Dr. T. Manoranjan
B.Sc. (Hons) (Jaffna),
Ph.D. (Peradeniya)
Senior Lecturer

Dr. (Mrs.) S. Yohi
B.Sc. (Hons) (Jaffna),
M.S. (South Dakota),
Ph.D. (South Dakota)
Senior Lecturer

Dr. P. Abiman
B.Sc. (Hons) (Jaffna),
D.Phil. (Oxford)
Senior Lecturer

Mrs. S. Selvakumar
B.Sc. (Hons) (Jaffna)
Lecturer (Temp)

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Ph.D. (Cambridge)
Senior Lecturer

Support Staff

Mr. W.J. Abiyooth	Laboratory Attendant
Mr. K. Aravinth	Laboratory Attendant
Mr. R. Arunpirasath	Laboratory Attendant
Mr.M.Chithirangan	Management Assistant
Mr. K. Ithayakumaran	Laboratory Attendant
Mr. R. Kartheepan	Laboratory Attendant
Mr. A. Lakshman	Staff Technical Officer
Mr.N. Manoranjan	Laboratory Attendant
Mr. S. Nanthakumar	Laboratory Attendant
Mr. S. Satheesan	Technical Officer
Mr. G. Senthilnathan	Technical Officer
Mr. S. Sivalingam	Works Aide
Mr. A. Thabesan	Technical Officer
Mr. A. Thaneswaran	Laboratory Attendant
Mr.S. Thivas	Laboratory Attendant
Mr. P. Uthayakumar	Works Aide
Mrs. N. Yogenthiram	Technical Officer

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Department of Computer Science - Academic Staff

Dr. S. Mahesan
B.Sc. (Hons) (Jaffna),
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Ph.D. (Cardiff),
MBCS, CEng, CITP
Senior Lecturer

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B.Sc. (Hons) (Jaffna),
Ph.D. (Peradeniya)
Senior Lecturer

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B.Sc. (Hons] (Jaffna),
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Senior Lecturer

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M.Sc. (Nice),
Ph.D. (Dundee)
Senior Lecturer

Dr. K. Thabotharan
B.Sc. (Hons) (Jaffna),
M.Sc. (Akron),
Ph.L. (Uppsala),
Ph.D. (Colombo)
Senior Lecturer

Mr. K. Sarveswaran
B.Sc. (Hons) (Peradeniya),
M.Sc. (Moratuwa), CLP
Lecturer

Dr. A. Ramanan
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M.Sc. (Colombo)
Lecturer

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M.Phil. (Jaffna)
Senior Lecturer

Ms. J. Samantha Tharani
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Lecturer

Support Staff

Mr. P. Amirtharajah	Works Aide
Mr. A. Arulnesan	Laboratory Assistant
Mr. Y. Hajanthan	Technical Officer
Mr. T. Sugirthan	Assistant Network Manager
Mr. N. Thileepan	Management Assistant
Ms. K. Vahini	Management Assistant
Mr. V. Visithan	Programmer Cum System Analyst

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Department of Mathematics and Statistics - Academic Staff

Prof. S. Srisatkunarajah
B.Sc. (Hons) (Jaffna)
Dip. in. Ed. (OUSL),
Ph.D. (Heriot-Watt)
Professor

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M.Sc. (Memorial)
Senior Lecturer

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Ph.D. (Sussex)
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Ph.D. (Southampton)
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Ph.D. (Southern Illinois)
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B.Sc. (Hons) (Jaffna),
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Ph.D. (Monash)
Senior Lecturer

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B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya)
Senior Lecturer

Dr. T. Mathanarajan
B.Sc. (Hons) (Jaffna),
Ph.D. (Peradeniya)
Senior Lecturer

- 48 -

Dr. B.Kethesan
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Ph.D.(Madras),
Senior Lecturer

Mr. R. Tharshan
B.Sc. (Hons) (Jaffna)
M.Sc (WSU)
Lecturer

Mr. M. Khokulan
B.Sc. (Hons) (Jaffna)
M.Phil. (Jaffna)
Senior Lecturer

Mrs. A.Thushyanthan
B.Sc. (Hons) (Jaffna),
Lecturer

Mr. B. Muraleetharan
B.Sc. (Hons) (Jaffna)
Lecturer

Mrs. J.Duwarahan
B.Sc. (Hons) (Jaffna),
Lecturer

Mr. M. Ananthakrishna
B.Sc. (Hons) (Jaffna)
Lecturer

Support Staff

Mr. K. Kokulapalan	Laboratory Attendant
Mr. Y. Maran	Technical Officer
Mrs. K. Nijanthini	Management Assistant
Mr. S. Thineswaran	Works Aide

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Department of Fisheries - Academic Staff

Prof. (Mrs.)
S. Kuganathan
B.Sc. (Hons) (Jaffna),
M.Sc. (North Wales),
Ph.D. (Annamalai)
Professor

Mr. K. Gunaalan
B.Sc. (Hons) (Ruhuna),
M.Sc. (Colombo)
Lecturer

Mrs. S. Sutharshiny
B.Sc. (Hons) (Jaffna),
M.Phil. (Jaffna)
Senior Lecturer

Mr. N. Ragavan
B.Sc. (Hons) (Jaffna),
Lecturer

Ms. P. Shobiya
B.Sc. (Hons) (Jaffna),
Lecturer

Support Staff

Mr. K. Harichandra	Technical Officer
Miss. Y. Janany	Management Assistant
Ms. A. Niroshana	Works Aide
Mr. T. Partheepan	Technical Officer
Mr. A. Rajithan	Laboratory Attendant
Mr. S. Ravikumar	Works Aide

Department of Physics - Academic Staff

Prof. P. Ravirajan
B.Sc. (Hons) (Jaffna),
M.Sc. (Peradeniya)
DIC, Ph.D. (London)
Senior Professor

Dr. A. Thevakaran
B.Sc. (Hons) (Jaffna),
Ph.D. (Colombo)
Senior Lecturer

Dr. K. Vignarooban
B.Sc. (Hons] (Jaffna),
M.Phil. (Peradeniya),
Ph.D. (Cincinnati)
Senior Lecturer

Mr. M. Thanihaichelvan
B.Sc. (Hons) (Eng) (Anna),
M.Sc. (East London),
MIET, MIEEE
Lecturer

Dr. T. Pathmathas
B.Sc. (Hons) (Jaffna),
ICTP Dip. in HEP (Trieste),
M.Sc. (Peradeniya),
Ph.D. (Cape Town)
Senior Lecturer

Mr. K. Prashanthan
B.Sc. (Hons) (Jaffna),
MRes, DIC (Imperial)
Lecturer

Dr. (Ms.)S.Ubenthiran
B.Sc. (Hons) (Jaffna),
Ph.D. (Malaya)
Senior Lecturer

Mr. S. Senthuran
B.Sc. (Hons) (Jaffna),
M.Sc. (Belfast)
Lecturer

Support Staff

Mr. S. Anantharasa	Works Aide
Mr. J. Aynkaran	Laboratory Attendant
Mr. A. Dinesh	Technical Officer
Mr. R. Dixithjanagan	Mechanic
Mr. K. Jeyaseelan	Laboratory Attendant
Mr. V. Kesabavan	Laboratory Attendant
Mr. S. Keethaponhalan	Health Service Labourer
Mr. T. Mathiamuthan	Technical Officer
Mr. T. Mohanaramanan	Technical Officer
Mr. T. Pirapakaran	Management Assistant Gr - I
Mr. A. Sasirupan	Laboratory Attendant
Mr. K. Somasegaram	Staff Technical Officer
Mr.J.Subas	Laboratory Attendant
Mr.V.Tharsan	Technical Officer
Ms. A. Thenuga	Technical Officer

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Department of Zoology - Academic Staff

Prof. S.N. Surendran
B.Sc. (Hons) (Jaffna),
Ph.D. (Colombo)
Professor

Dr. K. Gajapathy
B.Sc. (Hons) (Jaffna),
Ph.D. (Jaffna)
Senior Lecturer

Dr.(Mrs.)R.Gnaneswaran
B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya),
Ph.D. (Peradeniya)
Senior Lecturer

Mrs. P. Sivakumar
B.Sc. (Hons) (Jaffna),
M.Phil. (Peradeniya)
Senior Lecturer

Mrs. R. Nithiyagowry
B.Sc. (Hons) (Jaffna),
M.Phil. (Jaffna)
Senior Lecturer

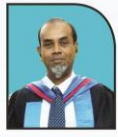
Dr.(Mrs.)T.W.Shanthakumar
B.Sc. (Hons) (Jaffna),
M.Phil. (Jaffna),
Ph.D. (JNU, ROK)
Senior Lecturer

Dr. T. Eswaramohan
B.Sc. (Hons) (Jaffna),
Ph.D. (Colombo)
Senior Lecturer

Ms. G. Kandasamy
B.Sc. (Hons) (Peradeniya)
Lecturer

Dr.(Mrs.)A.Sivaruban
B.Sc. (Hons) (Jaffna),
Ph.D. (Jaffna)
Senior Lecturer

Mr. S. Arthiyan
B.Sc. (Hons) (Jaffna)
Lecturer



Mr.W.Venkatesh Luckshman
B.Sc. (Hons) (Jaffna),
M.S. (Oklahoma)
Senior Lecturer

Ms. S. Kokila
B.Sc. (Hons) (Jaffna)
Lecturer

Support Staff

Ms. A. Ajanthini	Laboratory Attendant
Mr. E. Amirthalingam	Laboratory Attendant
Mr. N. Bakeerathan	Staff Technical Officer
Mr. V. Jegathambikaipakan	Staff Technical Officer
Mrs. K. Niranjan	Technical Officer
Mr. M.Rajkumar	Works Aide
Mr. S. Sivadenthiran	Works Aide
Mr. A. Sivakaran	Works Aide
Mr. K. Sribandakaran	Staff Technical Officer
Mr. S. Suthakaran	Works Aide
Mr. S. Thangarajah	Laboratory Attendant
Mr. P. Vimalananthan	Laboratory Attendant

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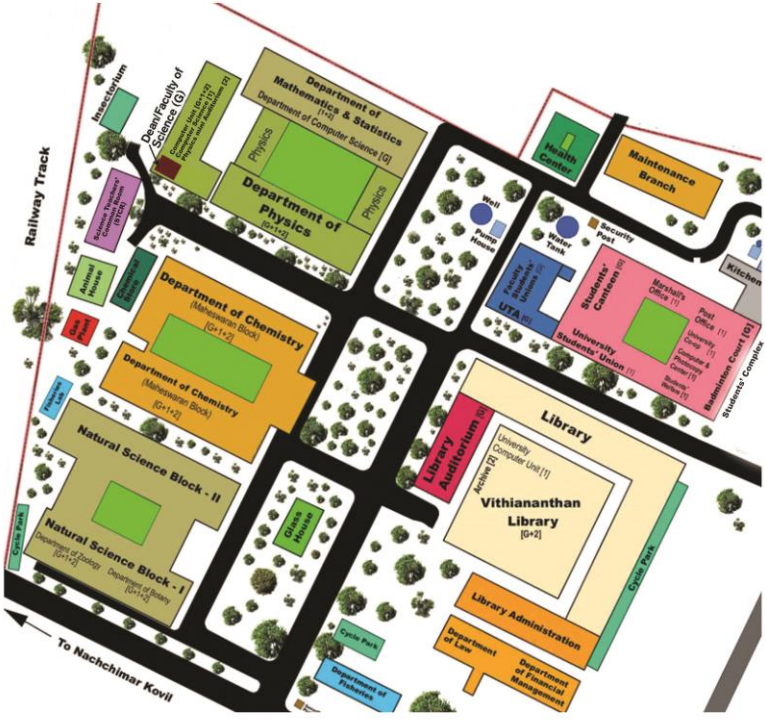
H. Map of the Faculty of Science



Website of the Faculty of Science: www.sci.jfn.ac.lk

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I. 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 /Administration	021 – 221 8112
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
Anandakumarasamy Hostel	021 – 222 2306
Balasingam Hostel	021 – 222 2304
Ramanthan Academy of Fine Arts Hostel	021 – 321 7769
Peoples Bank (University Branch)	021 – 222 2072
Bank of Ceylon (University Branch)	021 – 221 9570