

Regulation No: 01.50-2023 made under By Law 50-2023

Bachelor of the Science Degree

University of Ruhuna.

These Regulations may be cited as the University of Ruhuna, Sri Lanka, Regulations No. 01.50-2023 for the Degrees of Bachelor of Science shall come into effect on 01.08.2022.

1. Admission Requirements

- 1.1.** All applicants for the admission to bachelor's degree programmes in the Faculty of Science must satisfy the general university admission requirements for the faculties of science as laid down by the University Grants Commission.
- 1.2.** Applicants with equivalent qualifications gained from foreign universities and transfer students referred by the University Grants Commission for admission to this faculty shall be admitted only with the approval of the Faculty Board.

2. Registration for the Degree programme

Students admitted to the faculty register as full-time students and are required to maintain their registration during the total period of study in the faculty.

3. Registration for Semesters and Course Units

- 3.1.** A student selected for admission shall register to follow the Degree Programme. Such registration shall be carried out as prescribed by the Senate.
- 3.2.** Registration for semesters of a Degree programme shall be determined in accordance with the regulations laid down by the Senate.
- 3.3.** Students shall register for all required course units for each semester prescribed by the Faculty. Students, who fail to register for any course unit shall be considered as a repeat student unless he/she has been given an academic exemption by the Senate.
- 3.4.** A student admitted to a Degree Programme shall not be permitted to concurrent registration for any other full-time course of study.

4. Course Structure

- 4.1.** The Programme of study leading to the Bachelor of Science Degree shall be a full-time course, consisting of six academic semesters organized over a duration of three academic years.
- 4.2.** The official academic calendar of dates approved by the Senate on the recommendation of the Faculty Board shall be announced prior to the commencement of each academic year.
- 4.3.** The curriculum shall be announced by the Faculty at the commencement of the degree programme.

4.4. Each course unit shall be assigned a credit value (with relevant notional hours) that indicates the student's workload associated with class attendance and preparation.

4.5. There shall be a coordinator for each course unit/module appointed by the respective Head of the Department/the Dean of the Faculty. The course unit/module coordinator shall coordinate the conduct of the respective course unit/module including delivery of theory, practical and field works, notional hours, teaching-learning methods and assessment methods as per the syllabi approved by the Faculty.

4.6. Course Structure of the Bachelor of Science Degree programme. (SLQF Level - 5)

4.6.1. Curriculum under each subject consist of Core Course Units and Optional Course Units.

Theory Course Units consist of lectures, assignments and tutorials. Practical Course Units are either laboratory based or field based studies of a particular subject. In addition, there are Course Units which consist of project work and Combined Course Units consist of both theory and practical components.

4.6.2. In addition to the Course Units under subject areas/streams, Course Units from different disciplines are also available as Optional Course Units. The prefixes of such Course Units begin with FSC.

4.6.3. For a degree programme, each student shall select Course Units from the relevant stream. Mathematics is a compulsory subject for the degrees offered under physical science streams.

4.6.4. Course Units selection

Students are required to select their subject combinations four weeks prior to the commencement of their academic activities at the beginning of the degree program. Core Course Units (CCU) are the compulsory units, which shall be followed by all students in accordance with the streams selected. Optional Course Units (OCU) can be selected at the discretion of the student, according to the selection criteria prescribed by the Faculty/Department.

Students are allowed to select Interdisciplinary/Optional Course Units (Unit codes starting with FSC) up to a maximum of 6 credits, which shall be counted for GPA, for the BSc **Degree that requires a minimum of 90 credits with a maximum of 95 credits**. Only those who have registered for course units are allowed to sit for the examination of those course units. A student may register for additional FSC course units beyond 6 credits as Non-GPA or Non-Degree course units, but they shall appear in the student transcript, if sat for examinations.

4.6.5.1 Biological Science Stream

Students in Biological Science Stream shall follow Core Course Units offered by any three departments of study (Departments of Chemistry, Zoology, Botany and Physics) during the first two academic years. Students may choose to follow the required optional course units offered by the respective departments/Faculty during their academic program to complete the credit requirement of the degree.

4.6.5.2. Physical Science Stream

Students in Physical Science Stream shall follow Core Course Units of three subjects including Mathematics offered by the departments, Chemistry, Computer Science, Mathematics and Physics. They shall follow Core Course Units in two subject areas of their choice, in addition to Mathematics, during the first two academic years. A student shall be allowed to follow either Industrial Mathematics or Applied Mathematics offered under the Department of Mathematics. A student who follows Industrial Mathematics shall not be allowed to follow Computer Science as a subject, or vice versa. Students may choose to follow the required optional course units offered by the respective departments/Faculty during their academic program to complete the credit requirement of the degree.

5. Evaluation

The Bachelor of Science Degree consists of examinations at the end of each semester or at the end of course unit for the theory and practical course units. A candidate shall be eligible for the conferment of the Bachelor of Science Degree after the successful completion of all requirements (as specified in the Section 4) within a maximum period of eight academic years from the date of entry to the University of Ruhuna.

5.1 Evaluation Criteria for course units of BSc degree program

The following evaluation criteria is used for all course units offered under the BSc degree subjected to the By-Laws of the Faculty of Science.

5.1.1 Evaluation of Theory/Practical course units

- a) The evaluation criteria for all theory/practical course units offered by each department of the faculty shall have any of the following structures.
- b) Students shall be assessed through continuous assessments and the end semester examinations.
- c) All Students shall sit for the final examination to earn a grade. Otherwise, grade E* shall be given. A student must earn 30% from the end semester examination to earn a grade of C or better for the course unit. Otherwise, he/she shall earn only a maximum grade of C-.

5.1.2 Continuous assessments

- a) Students shall attend all continuous assessments offered as per course unit during the relevant semester/year. The number of continuous assessments to be conducted, the modes of assessment, and the proportion of the marks credited to the final grade shall be announced at the beginning of the course unit.
- b) A student shall complete the continuous assessment before he/she sits for the final examination of that particular course unit.
- c) In case a student is absent for the continuous assessment and has not yet sat for the end semester examination shall attend to the following.

- i) The student shall make a written request to Head of the relevant department with a copy to Dean of the Faculty of Science to conduct a makeup test within the semester by giving an acceptable reason (medical, sports or other faculty/university competition, etc.) within seven days after the continuous assessment is held.
 - ii) Students who sit for makeup test may be able to earn continuous assessment marks like a student who sits at the first time without any penalty.
- d) A student who is absent for both continuous assessment and the end semester examination of a course unit on **accepted medical grounds** shall sit for continuous assessment and the relevant end-semester examination as a first timer during the following academic year when assessment/examination are conducted for the regular batch of immediate junior students.
- e) Marks of the continuous assessments shall be carried forward if a student has to re-sit for the end semester examination of a course unit.
- f) Continuous assessments of a particular course unit shall be conducted, and the marks shall be announced before the student sits for the end-semester examination of that course unit.

6.2 Grades allocated for Course Units

A grade shall be awarded for the overall performance in each Course Unit as in Table 3 and Table 4.

Table 3: Grades and Grade Point Values (GPV) for corresponding marks

Marks (%)	Grade	GPV
85- 100	A+	4.0
70-84	A	4.0
65-69	A-	3.7
60-64	B+	3.3
55-59	B	3.0
50-54	B-	2.7
45-49	C+	2.3
40-44	C	2.0
35-39	C-	1.7
30-34	D+	1.3
25-29	D	1.0
0-24	E	0.0

Table 4: Grades given for the absence for a course unit in an end-semester examination.

Reason	Grade	Subsequent Attempt
Not applied/Absent without accepted reason(s)/ Not Eligible	E*	Repeat

Accepted Medical Certificate	MC	First Time
Non-medical reason acceptable to the Senate	NM	First Time
Results withheld	WH	As decided by the Senate and Council

6.3. Pass in a Course Unit

6.3.1. General criteria for all course units:

1. A candidate who obtains grade C or better for a course unit shall be considered to have passed in that course unit.
2. If a student fails to complete a course a grade of E shall be given unless an acceptable reason is produced. In the event of the given reason is accepted by the Senate on the recommendation of the Faculty Board, he/she shall be considered as a candidate sitting for the first time in an immediate subsequent attempt for that course unit.
3. A student who obtains a C- or lower grade in a particular course unit may re-sit for the examination for that course unit for the purpose of improving the grade within the stipulated period. The highest grade a student can obtain is C, which is in this instance equivalent to GPV 2.00. In the event a student obtains a lower grade, he/she shall be entitled to the previous grade. Repeat candidates are not entitled to attend lectures/practical classes in the course unit in which he/she has failed.

6.3.2. Examination Criteria on Mathematical Computing Course Units, IMT1b2β, IMT2b2β, and the Industrial Mathematics Project, IMT3b1β, under Industrial Mathematics subject stream

A student who follows Industrial Mathematics as a subject shall pass all IMT1b2β, IMT2b2β, and IMT3b1β to earn the BSc Degree. These course units consist of learning a mathematical software/programming language in the Semester I and carrying out a project work in Semester II.

1. Final mark of each of the above course units shall be calculated as follows:

Method of Evaluation: Throughout Semester I:

(Learning mathematical software/programming language)

(M1) *Practical Exam (Continuous Assessment): Marks out of 100*

Throughout Semester II: (Project Work)

(M2) *Project Report: Marks out of 100*

(M3) *Oral Exam and Presentation: Marks out of 100*

$$\text{Final Mark} = M1 \times 35\% + M2 \times 30\% + M3 \times 35\%$$

2. A student may continue with the project work in Semester II irrespective of the results of the practical examination of the relevant mathematical software/programming language at

the end of Semester I in the relevant Level. If a student fails in that practical examination (less than 40 marks), his/her final result of that particular course unit shall be withheld until he/she gets 40 marks for a practical examination in the relevant level at a subsequent attempt. The maximum mark a student can obtain for practical examination is 40 marks if he/she fails the practical examination at the first attempt.

3. A student shall be considered to have passed the project component of the course unit if he/she earns a minimum of 40% of $(M2+M3)/2$ with a minimum 30% for each M2 and M3. If a student fails in the project, he/she can earn only up to a grade of C- in that course unit and he/she shall work on the same project using the same software/programming language and resubmit the project report in the next academic year.

6.4 Verification of Marks

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

6.5 Subject Certification Requirement:

The minimum number of credits required for a subject to be called a main subject of a three-year degree would be 24 credits.

6.6 Requirement for eligibility for examinations

In order to be eligible to sit for the end-semester examination of each course unit, a student must have maintained a minimum attendance of 80% or an appropriate percentage of attendance as decided by the Faculty Board under special circumstances. A student who does not fulfil this requirement shall be considered as a repeat student in the next attempt unless he/she has been given an academic concession by the Senate on the recommendation of the Faculty Board.

In the event if a student fails to maintain at least 40% attendance of the practical course units of Level I of the general degree programme without providing an acceptable reason to the faculty board, he/she shall not be allowed to sit for the examination of that particular course unit even as a repeat student and hence he/she has to leave the university.

6.6.1 Absence due to illnesses

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

Such medical certificate shall be obtained from following persons:

University Medical Officer
District Medical Officer
Certified medical officer

Consultant Specialist in the relevant field
Head of a Government Hospital
Medical Superintendent of a Provincial Ayurvedic Government Hospital
Ayurvedic Physician registered in the Ayurvedic Medical Council

6.6.2 Absence due to other reasons

If a student is unable to attend lectures and/or practical classes due to a reason other than illness, he/she shall inform the faculty office in writing with acceptable evidence within 14 days.

6.6.3 Illness during Examination Period

If a student is unable to sit for the examinations of a particular semester due to an illness, he/she shall contact the University Medical Officer and inform the faculty office according to the prescribed procedure. The medical certificates obtained from outside medical officers shall be submitted to the Faculty office within 14 days (These certificates shall be accepted only with the approval of the university Medical Officer).

7. Award of the Degree

7.1. Minimum requirements for the Completion of the Degree

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

- a minimum of 90 credits
- grades of C or better from theory aggregating to a minimum of 60% credits of CCU from each main subject,
- grades of D+ or better aggregating to a minimum of 60% credits of optional Course Units
- grades of C- or better in all practical CCUs, and
- a Grade Point Average (GPA) of 2.00 or more.

GPA shall be calculated as follows:

$$GPA = \frac{\sum_i C_i GPV_i}{\sum_i C_i}$$

where C_i and GPV_i are the number of credits and the Grade Point Values of i^{th} Course Unit, respectively.

$$\left(GPA = \frac{\sum (\text{Grade Point value for a Course Unit}) \times (\text{Number of credits of that Course unit})}{(\text{Total Number of Credits})} \right)$$

7.2. Other requirements for the Completion of the Degree

In addition to the examination Criteria stated under Section 7.1, a student shall fulfill the following to release the final results of the BSc Degree.

- a) Pass in English Proficiency Level I (ENG1b10) and Level II (ENG2b10) examinations.
- b) Pass in Course Unit MAT1142: Mathematics for Biology". This requirement is applicable only for Biological Science candidates.
- c) Pass the examination of Computer Literacy Course (ICT1b13 (CLC)) conducted by Computer Unit. This requirement is applicable only for students who do not follow computer science as a subject.

7.3 Award of Classes for Bachelor of Science Degree

A student who has satisfied conditions given in Sections 7.1 and 7.2, is eligible for an award of a Class if he/she completes the requirements indicated below within three academic years from the date of first registration securing grades of C or better aggregating to a minimum of 75 credits with grades of C or better for a minimum of 40% credits of practical Core Course Units. However, if a student satisfies the requirements for a Class but takes longer than three academic years to satisfy such requirements he/she may be deemed to be eligible for the award of the degree with a Class as decided by the Senate on the recommendation of the Faculty Board provided such delay is covered by an academic concession(s) previously granted on the ground of a medical or another valid reason.

1. First Class

- (a) a minimum GPA of 3.70 and
- (b) grades of A or better in Course Units aggregating to a minimum of 40 credits.

2. Second Class (Upper Division)

- (a) a minimum GPA of 3.30 and
- (b) grades of B or better in Course Units aggregating to a minimum of 40 credits.

3. Second Class (Lower Division)

- (a) a minimum GPA of 3.00 and
- (b) grades of B or better in Course Units aggregating to a minimum of 40 credits.

8. Effective Date of the Degree

- 8.1 The effective date of the degree shall be the date following the last day of the semester examinations conducted by the faculty in the relevant semester when the student fulfills all the requirements for graduation.
- 8.2 In case a student has an ongoing inquiry for an examination or disciplinary offenses conducted against him/her by the University, results of the relevant examination/s shall not be released until the inquiry is completed. In such situations, the effective date of the degree shall be determined by the Senate or the Council of the University.

9. Fees levied for the Degree Program

All fees prescribed by the Faculty shall be paid by each student on registration for a degree programme, for renewal of registration, and for registration of examinations, as applicable.

10. Revision Rules and Regulations

10.1 Rules and Regulations may be revised or amended as and when necessary, by the Senate with the approval of the Council.

10.2 All other common Rules and Regulations applicable to the state Universities in Sri Lanka and to the University of Ruhuna are also applicable to students registered for the Degree Programme.

10.3 In case of any ambiguity in the rules and regulations, the interpretation of the Faculty Board endorsed by the Senate with the approval of the Council shall be final.

11. General Conditions

This By-Law and Regulations shall be effective from the batch of students who admitted to the academic year 2021/2022.

12. Interpretations

12.1 In this By-Law unless the context otherwise requires

“University” means the University of Ruhuna, Sri Lanka as established by Gazette Notification no.281/07 dated 24.1.1984.

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

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

“Faculty” means the Faculty of Science, University of Ruhuna.

“Faculty Board” means the Faculty Board of the Faculty of Science, University of Ruhuna.

“Dean” means the Dean of the Faculty of Science, University of Ruhuna.

12.2 Any question regarding the interpretation of this by-law shall be referred to the Council whose decisions thereon shall be final and conclusive.