

## **Regulation No: 01.52-2023 made under By Law 52 - 2023**

### **Bachelor of the Computer Science Degree (BCS)**

#### **University of Ruhuna.**

These Regulations may be cited as the University of Ruhuna, Sri Lanka, Regulations No. 01.52-2023 for the Degrees of Bachelor of Computer Science (BCS) shall come into effect on 21.02.2019.

#### **1. Admission Requirements**

- 1.1 A student selected for admission to the Bachelor of Computer Science Degree Programmes in the Faculty of Science.
  - a) must satisfy the general university admission requirements for the Bachelor of Computer Science Degree programme of the Faculty of Science laid down by the University Grants Commission (UGC), Sri Lanka
  - b) must have been selected, according to the stipulated University Admission Criteria.
- 1.2 Applicants with foreign qualifications referred for admission by the University Grants Commission shall be admitted only with the consent of the Faculty Board of the Faculty of Science.

#### **2. Registration for the Degree Programme**

A student admitted to the Faculty shall register as a full-time student. A student shall pay a fee prescribed by the University and maintain registration during the period of study.

#### **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 per 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 a repeat student unless he/she has been given an academic exemption by the Senate.
- 3.4 A candidate 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 Degree of Bachelor of Computer Science shall be a full-time course, consisting of six academic semesters organized over 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 before 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 appointed by the respective Head of the Department/the Dean of the Faculty. The course module coordinator shall prepare the respective course module including details of the distribution of theory, practical and field works, notional hours, teaching-learning methods, and assessment methods as per the format approved by the Faculty.
- 4.6 Course Structure of the Bachelor of Computer Science Degree programme. (SLQF Level - 5)

### **Credit Courses**

Component	Credits
Compulsory Courses (CCU)	67
Minimum requirement of Elective/Optional Courses (OCU)	14
Group Project (CCU)	03
Industrial Training (CCU)	06
Total number of credits	90

- 4.7 Curriculum under each subject (Computer Science and Mathematics) consist of Core Course Units (CCU) and Optional Course Units (OCU). Theory Course Units consist of lectures, assignments and tutorials. Practical Course Units are either laboratory based or field based studies. In addition, there are Course Units which consists of project work and Combined Course Units consist of both theory and practical components.
- 4.8 Course Unit from different disciplines are also available as Optional Course Units. The prefixes of such Course Units begin with FSC.
- 4.9 Core Course Units (CCU) are compulsory units, which shall be followed by all students in Bachelor of Computer Science Degree Programme. Optional Course Units (OCU) can be selected at the discretion of the student, according to the selection criteria prescribed by the Faculty/Department.
- 4.10 Students are allowed to select Interdisciplinary/Optional Course Units (Unit codes starting with FCS) up to a maximum of 6 credits, which shall be counted for GPA, for the **BCS 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 the examinations.

## 5. Evaluation and Grading

### 5.1 Evaluation procedure

Courses offered Bachelor of Computer Science degree programme shall be evaluated based on different components as tabulated below. The limits of marks to be allocated for each component are given in Table 1.

Table 1: Limits of marks for the evaluation of course units

Component	Marks
End Semester Theory Examinations	50% - 80%
Continuous Evaluations (Evaluation of practical work, assignments, class participation, seminars/presentations, oral tests, quizzes, etc.)	20% - 50%
End Semester Practical Examinations	00% - 30%
<b>Total</b>	<b>100%</b>

- 5.2 End semester examination is compulsory for each course and should be conducted according to a prescribed timetable. In addition to the end-semester examination, the evaluation of each course shall contain at least one other component. If a course unit consists of both theory and practical, but is considered as a practical-based course unit, students should obtain a minimum of 35% for theory and 30% for practical component to pass the course unit. If a student obtains a total of 40% or more for the examination but does not satisfy the above condition, the maximum grade allowed for the course unit is C-.
- 5.3 The third-year software development group project shall be evaluated based on proposal presentation, interim progress report, product presentation, individual contribution, and final report/presentation.
- 5.4 The internship component of the degree programs shall be evaluated on the basis of attendance, supervisors' reports, progress reports/log books, final presentation, and the report submitted by the student.
- 5.5 Grades and Grade Point Values shall be assigned for each course according to the overall marks obtained for all components of the course. Marks with respective grades and Grade Point Values are shown in Table 2.

Table 2: Scheme of Grading and Grade Point Values

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

- 5.6 The Grade Point Average (GPA) shall be calculated as described below at the end of the degree programme to determine the overall performance of a student. GPA is the arithmetic mean of the credit-weighted grade point values. The GPA is determined by dividing the total credit-weighted Grade Point Value by the total number of credits. The GPA shall be calculated as follows and reported to the second decimal point.

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

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

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

- 5.7 If a student fails to complete a Course Unit, a grade of “E\*” will be given unless an acceptable reason is produced. In the event of accepting the given reason by the Senate on the recommendation of the Faculty Board, he/she will be considered as sitting for the first time in a subsequent attempt for that course unit.

The following table 3 lists relevant grades:

Table 3: Relevant Grades

Reason	Grade	Subsequent Attempt
Not applied/Absent without accepted reason(s)/ Not Eligible	E*	Repeat
Accepted Medical Certificate	MC	First Time
Non-medical reasons acceptable to the Senate	NM	First Time
Results withheld	WH	As decided by the Senate/Council

- 5.8 A candidate who obtains a grade “C” or better for a Course Unit shall be considered to have passed the Course Unit.
- 5.9 A student, who obtains a “C-” or lower grade in a particular Course Unit, may re-sit the examination of that Course Unit to improve its grade within the stipulated period. The highest grade a student can obtain is “C” which is in this instance equivalent to GPA 2.00. In the event a student obtains a lower grade, he/she shall be entitled to the previous grade.

- 5.10 A student shall register for elective/optional courses for the respective semester before the commencement of each semester. The course coordinators shall announce the elective courses before the commencement of the semester.
- 5.11 The minimum number of students registered shall be three (03) and five (05), respectively for the Second and Third year to offer an elective/optional course. A student can drop and add an elective/optional course within the first two weeks of the semester or a prescribed period assigned by the Faculty after the commencement of the academic programme with the recommendation of the relevant course coordinator.
- 5.12 Contents of the elective courses shall be revised periodically as decided by relevant course coordinators and the departments of study. New elective courses could be added to the curriculum and existing elective courses could be removed from the curriculum as decided by the relevant department of study, recommended by the Faculty Board, and approved by the Senate.
- 5.13 Failure to fulfill specific requirements of a course as decided by a department of study shall disqualify a candidate from sitting for the end-semester examination, but it shall be treated as an attempt. Such candidate/s shall repeat the entire course and shall be required to pay the examination fees as stipulated by the regulations.

## **6. Guidelines for evaluation of course units - formative/summative examinations**

- 6.1 The theory component of an end-semester examination of a course may consist of multiple-choice, structured, and essay-type questions. The relevant course coordinator and the department of study shall decide the composition of the examination as prescribed in the course structure and shall announce it before the commencement of the semester.
- 6.2 The practical components of courses shall be assessed continuously, by an end-semester examination or by both methods depending on the course unit.
- 6.3 Oral examinations, if any, for the courses conducted in the degree programme shall be a component of the continuous evaluations and shall be arranged by the course coordinator and the respective department of study.
- 6.4 The course outline, class/laboratory/practical/field activities, assignments, continuous assessments, and weight of marks assigned to each component of the evaluation shall be announced to the students by the course coordinator and the department of study at the beginning of the course.
- 6.5 A student shall complete the continuous assessments before he/she sits for the final examination of that particular course unit.
  - a. In case a student is absent for the continuous assessment and has not yet sat for the end-semester examination shall attend the following:
    - i) The student shall make a written request to the Head of the relevant department with a copy to the 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 competitions, etc.) with seven days after continuous assessments is held.
    - ii) Students who sit for the makeup test be able to earn continuous

assessment marks like a student who sits for the first time without any penalty.

- b. 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 relevant end-semester examination as a first-timer during the following academic year when continuous assessment/examination are conducted for the regular batch of immediate junior students.
- c. Marks of continuous assessments shall be carried forward if a student has to re-sit for the end-semester examination of a course unit.
- d. Continuous assessments of a particular course unit shall be conducted, and the marks shall be announced before the students sit the end-semester examination of that course unit.

## **7. Restriction for the period for completion of the degree**

The maximum allowable period to complete a BCS degree offered by the Faculty of Science, University of Ruhuna is **Six (06) Years** unless the student has obtained a concessionary recommendation of the Faculty Board and approval of the Senate.

## **8. Absence at examination**

- 8.1 A candidate who has been absent from a whole end-semester examination shall be treated as an attempt unless a valid reason has been furnished by the candidate and accepted by the Faculty Board and the Senate. A candidate with an accepted valid reason shall take the whole end-semester examination on the next immediate occasion and shall get grading for courses and the examination according to the schemes given in **Sections 4 and 5**, respectively. If a candidate avoids taking the whole end-semester examination on the next immediate occasion without furnishing a valid reason, it shall be treated as an attempt.
- 8.2 If a candidate has sat only for a part of one or more course/s of an end-semester examination, it will be treated as a complete attempt for all prescribed courses in that examination, unless a valid reason has been furnished by the candidate and accepted by the Faculty Board and the Senate.
- 8.3 Absence of a candidate from an end-semester examination on account of bereavement in the family (death of a parent, brother or sister, and if married, spouse or child) shall be excused if approval is obtained from the Faculty Board and the Senate subjected to submission of a death certificate and appropriate proof of relationship.
- 8.4 A candidate who is absent only for a part of an end-semester examination shall take the complete course at the next attempt of the examination. If a candidate fails to sit for the absent course(s) on the next immediate occasion without furnishing a valid reason, it shall be treated as an attempt.
- 8.5 All absentees at examinations due to medical reasons shall submit a medical certificate obtained from a person listed under **Section 12**. These medical certificates shall be endorsed by the University Medical Officer before being presented to the Faculty Board and the Senate for approval.

- 8.6 An end-semester examination, which involves different components, shall be taken at one occasion, except in the case of continuous evaluations. In the case of a repeat or absent candidate, marks obtained for continuous evaluations shall be counted in the succeeding end-semester examinations.

## **9. Award of Degree**

### **9.1 Minimum requirements for the Completion of the Degree**

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

- (A) a minimum of 90 credits
- (B) grades of C or better aggregating to a minimum of 60% of credits of Computer Science CCUs
- (C) grades of C or better aggregating to a minimum of 60% of credits of Mathematics CCUs
- (D) grade of C or better aggregating to a minimum of 60% of credits of OCUs
- (E) grade of C or better for Industry-based Project/Industry Placement course unit
- (F) grade Point Average (GPA) of 2.00 or more, and
- (G) grade of C or better for English Proficiency Level I and Level II.

### **9.2 Award of Classes for the BCS Degree**

A student who has fulfilled all the conditions stipulated in Section 9.1 shall be awarded a Class, if he/she fulfils the following additional requirements within three academic years from the date of first registration (it shall be within the power of the senate to declare for some specified reason that a student is eligible for the award of the honours at a subsequent occasion) securing grades of “C” or better aggregating to a minimum of 75 credits.

#### **1. First Class**

- (A) a minimum GPA of 3.70 for all course units, 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 for all course units, 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 for all course units, and
- (B) grades of B or better in Course Units aggregating to a minimum of 40 credits

## **10. Effective Date of the Degree**



- 10.1 The effective date of degree of a student 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.
- 10.2 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.

## **11. Academic Dishonesty**

- 11.1 Students are expected to act with full integrity in all academic endeavors: any use of words, formulae, or ideas that are not one's own must be duly acknowledged. Providing or receiving any sort of unauthorized help on papers, examinations or other academic work is a violation of the University's policies on academic integrity.
- 11.2 The consequences of cheating, plagiarism, unauthorized collaboration and other forms of academic dishonesty shall be dealt with in accordance with the examination rules and regulations of the University.

## **12. Medical certificates for failure to attend examinations**

Students are requested to support the absence from course work or examinations due to an illness by a valid medical certificate conforming to the format of a medical certificate issued by a Government Hospital. Such medical certificate should be obtained from the following persons:

University Medical Officer  
District 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

Students who fall ill during sessions of examination time should contact the University Medical Officer at the University Health Center immediately. If a student falls sick at home or elsewhere during the session of an examination time he/she or his/her guardian should inform the Dean of the Faculty within seven days by telegram followed by a letter indicating the nature of the illness and the name of the attending doctor and other relevant information. Medical certificate supporting the illness of the student should be sent to the Dean of the Faculty.

## **13. 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.



#### **14. Revision Rules and Regulations**

- 14.1 Rules and Regulations may be revised or amended from time to time by the Senate with the approval of the Council when necessary.
- 14.2 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 Programmes.
- 14.3 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.

#### **15. General Conditions**

This By-Law and Regulations will be effective from the batch of students who admitted to the academic year 2018/2019 (2017/2018 intake).

#### **16. Interpretations**

- 16.1 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 of Science” or “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.

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