

**DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE**  
**and**  
**DEGREE OF BACHELOR OF SCIENCE HONOURS IN COMPUTER SCIENCE**  
**and**  
**DEGREE OF BACHELOR OF SCIENCE HONOURS IN SOFTWARE ENGINEERING**

By-Laws made by the Council of the University of Colombo under Section 135 of the Universities Act No. 16 of 1978 as subsequently amended and read with the University of Colombo School of Computing Ordinance No.01 of 2002 as last amended by the University of Colombo School of Computing (Amendment) Ordinance No 01 of 2011.

**By-Laws**

These By-Laws may be cited as the Degree of Bachelor of Science in Computer Science or the Degree of Bachelor of Science Honours in Computer Science or the Degree of Bachelor of Science Honours in Software Engineering By-Laws No 22 of 2013

**PART I-GENERAL**

1. Subject to these By-Laws, a student may be awarded the Degree of Bachelor of Science in Computer Science or the Degree of Bachelor of Science Honours in Computer Science or the Degree of Bachelor of Science Honours in Software Engineering as the case may be, if he/she has,
  - (a) been duly admitted to the University of Colombo School of Computing (UCSC) under the provisions of the Act,
  - (b) remained a duly registered student of the UCSC for
    - (I) such number of courses as contributing to at least the prescribed number of credits arising from the combination of the Compulsory Academic Courses, Optional Academic Courses, Enhancement Courses, Projects, Industrial Training for which he/she is registered in the first three years of registration in the case of the Degree of Bachelor of Science in Computer Science Programme, or
    - (II) such number of Courses as contributing to at least the prescribed number of Credits arising from the Compulsory Academic Courses, Optional Academic Courses, Enhancement Courses, Projects, Industrial Training for which he/she is registered in the first four years of registration in the case of the Degree of Bachelor of Science Honours in Computer Science or the Degree of Bachelor of Science Honours in Software Engineering Programme, and
    - (III) the Degree of Bachelor of Science in Computer Science or the Degree of Bachelor of Science Honours in Computer Science or the Degree of Bachelor of Science Honours in Software Engineering as the case may be, without being cancelled until he/she is considered for the award of the respective Degree;
  - (c) remained a duly registered student of the UCSC for such number of Enhancement Courses as contributing to at least the prescribed number of Enhancement Credit Equivalents, in respect of each year of the Degree Programmes,
  - (d) completed the Course Work leading to the registered Degree Programme, prescribed by these By-Laws, and/or Rules and Regulations of the University,

Approved by the Council  
Meeting No ..... 479 .....  
Date ..... 19/12/2013 .....

- (e) 'completed' such number of Academic Courses as contributing to at least such number of prescribed Academic Credits and such number of prescribed Enhancement Courses in each year of the respective Degree Programme and obtained at least the prescribed Grade Point Average (GPA) in each year of the Degree Programme,
  - (f) completed the relevant requirements for the award of any one of the Degree programmes as the case may be within a period of six consecutive academic years beginning with the first academic year of Registration,
  - (g) paid all the prescribed fees and all other dues as may be payable to the UCSC,
  - (h) satisfied the Board of Examiners by reaching a level not below the prescribed minimum level of attainment in the different forms of Academic Course Examinations, other evaluations and other such examinations and forms of evaluation as may be prescribed by these By-Laws and/or relevant Rules and Regulations of the of the University as well as UCSC, and
  - (i) fulfilled all other requirements prescribed by these By-Laws and/or other relevant Rules and Regulations of the University as well as of the UCSC.
2. The admission of a person to any of the Degree programmes shall be carried out by the authorized statutory body under the University Act No 16 of 1978 as subsequently amended and read with the University of Colombo School of Computing ordinance No 1 of 2002 as last amended by the University of Colombo School of Computing (Amendment) Ordinance No 01 of 2011 or any other relevant law that replaces them.
  3. A person who has been admitted to any of the Degree programmes under the law or relevant regulation in force shall register himself/herself with UCSC by returning the duly perfected registration form.
  4. It shall be the duty and responsibility of the student who is admitted to UCSC to keep his/her registration valid by paying the prescribed fees in time until he/she completes the programme.
  5. The registration shall be, unless otherwise decided by the Senate on the recommendation of UCSC, valid for one academic year at a time and shall be renewed annually subject to the provisions of these By-Laws.
  6. The UCSC shall be in charge of the administration and general direction of the Degree Programmes.

## **PART II- ACADEMIC PROGRAMME**

7. The Academic Year of the UCSC shall consist of two Semesters where lectures, practicals, tutorials, continuous assessments and laboratory work shall be spread over a period of about 15 weeks duration. Each such Semester may have a mid-semester break of about 7 days duration, and shall be followed by a period of about two weeks as study leave for end of Semester Examinations. The end of Semester Examinations will be conducted within the subsequent period of about four weeks followed by a vacation of about four weeks.
8. It shall be lawful for the UCSC, under exceptional circumstances, to declare any Semester to be of shorter /longer duration, and/or the period set apart for lectures, practicals, tutorials, continuous assessments laboratory work and any other academic activities to be of shorter/longer duration, and/or to declare a shorter/longer mid-semester break or no such break, and/or to declare a shorter/longer study leave period,

and/or to declare a shorter/longer period for conducting the end of Semester Examinations and/or to declare a shorter/longer end of Semester vacation,

9. Every student who is admitted to the Degree Programmes shall register in each academic year for such number of Courses as contributing to not less than such number of Credits as prescribed and provided during each such year as prescribed by Rules and Regulations of the Degree programmes.
10. Every student who is admitted to the Degree Programmes shall initially register for the Bachelor of Science in Computer Science programme.
11. Each such student who achieves a level not inferior to a prescribed level of attainment in the evaluations during each of the first two years shall be eligible to compete for the limited number of places available to follow the Degree of Bachelor of Science Honours in Computer Science or the Degree of Bachelor of Science Honours in Software Engineering programmes.
12.
  - (I) The expected duration of the Degree of Bachelor of Science in Computer Science shall be three academic years and the expected duration of either the Degree of Bachelor of Science Honours in Computer Science or the Degree of Bachelor of Science Honours in Software Engineering programmes shall be four academic years counted from the First academic year.
  - (II) The Degree Programmes of the UCSC shall operate on a module basis where the modules are either, Academic Courses, Optional Academic Courses Enhancement Courses, Projects, Industrial Training or a combination thereof. Every student shall also register in each year for such number of modules as contributing to not less than such number of Credits as prescribed and provided during each such year.
  - (III) In each year, a sufficient number of modules will be offered by the UCSC.
  - (IV) In the third year of a Degree Program, a student shall register for a compulsory module titled "Industrial Training" which comprises of an Industrial Placement or an Industry Project.
  - (V) In the case of the four year Degree Programmes a student shall register in the fourth year for a Project module which is compulsory.
13. Each student who is eligible, as prescribed by Rules and Regulations of the programmes, for selecting the "Industry Placement" in the third year shall be free to find an organization where he/she intends to complete the module, provided that such organization is approved by the UCSC. The UCSC may also provide assistance to each such student to find such a placement. The students who could not find placements in the industry, or are ineligible as prescribed by Rules and Regulations of the programmes shall be allowed to undertake an Industry Project. There may be one or more "Industry Project/s" and the minimum and the maximum number of students who shall be involved in any such Project shall be as determined by the UCSC. The procedure for the allotment of any student for a particular "Industry Project" shall be as determined by the UCSC.
14. Each Academic Course shall have a Credit Value. The Credit Value would depend on several factors among which are the duration of the Course and its nature. In respect of each such Course, about 15 hours of lectures or about 30 hours of practicals or an equivalent combination of lectures and practicals will contribute one Credit.

15. An Enhancement Course, a Project, the Industrial Placement shall have a Credit Value Equivalent.
16. The maximum Credit Value or the Credit Value Equivalent of each component of a module shall be ten.
17. Each student shall register for such number of academic courses as contributing to at least 30 Credits and such number of Enhancement Courses as contributing to at least the prescribed number of Enhancement Credit value Equivalents per academic year when made available in respect of each such academic year.
18. A student who has obtained at least a GPA of 1.5 in the First academic year shall be eligible to be admitted to the next academic year. In the second academic year a student should obtain at least a GPA of 1.5 to be admitted to the next academic year. Such student shall register for the next academic year and follow the instructions provided for that year. A student who is not eligible to be admitted to the next academic year shall be required to re-register for the same year.
19. The Course Work relevant to each Programme shall consist of any combination of learning activities and assessments as passed by the Senate. The structure, credit values or credit value equivalent and evaluation procedures of courses of each module shall be as those set out under Rules and Regulations passed by the Senate. These may be amended, varied or modified by the Senate from time to time.
20. The Senate shall have the power to make changes to the structure, credit values or credit value equivalent and evaluation procedures of courses of each module and to determine the structure and rubric of the question paper on each Course when and where relevant leading to the award of any of the Degrees.

#### **Medium of Instruction**

21. The medium of Instruction as well as that of Examinations shall be English language and the medium for correspondence shall also be English language.

#### **Attendance**

22. A student shall be deemed to have 'completed' a component of a module except an enhancement course if and only if he/she has received a Grade in respect of the evaluation of such component. A student shall be deemed to have 'completed' an Enhancement Course if and only if his/her attendance at such Enhancement Course and the prescribed Course Activities if any is not less than the prescribed minimum.

#### **Registration for Optional Courses**

23.
  - (i) In each year, every student shall apply for registration for such number of Optional Courses as aggregating to not less than a prescribed number of Credits. The procedure for application for registration for such Courses shall be as prescribed.
  - (ii) If for whatever reason, an Optional Course cannot be conducted, a list of such Courses shall be published by the UCSC within such period from the commencement of application for registration for such Courses as prescribed by the relevant Regulations of the UCSC. If a student has applied for registration for any such Course, he/she shall be permitted by the UCSC to withdraw such application and apply for registration for any other Course or Courses as the case may be provided that, such Course is or Courses are respectively being conducted during such year and,

in that year, he/she has applied for registration for such number of Courses as aggregating to not less than the minimum number of Credits as prescribed.

- (III) A student shall not be permitted to withdraw an application at his/her discretion for registration for any such Optional Course in respect of any year unless such withdrawal is permitted by the UCSC, and no student shall be permitted to apply for registration for any Optional Course after a date as prescribed.
- (IV) Any student who, without valid reasons acceptable to the Board of Study, fails to register for the required or needed number of courses, should not be permitted to appear for any assessment in that academic year.

### PART III- EVALUATION PROCEDURE

24. Each Course may be evaluated by written examinations (mid-semester, end of semester), continuous assessments, assignments, reports, presentations, oral examinations, a combination of such methods or any other method specified in the Rules and Regulations and thereafter, a percentage score will be given for courses other than the enhancement courses. In respect of a student who follows an Enhancement Course, the Board of Examiners shall determine whether he/she has 'completed' such Course or 'not completed' such Course. In respect to the Degree Programmes, the Grade Point Average (GPA) shall have no contribution coming from the evaluations of those Enhancement Courses specified in the Rules and Regulations, but shall be calculated using only the Grade Point Values of the other Academic Courses.
25. A student shall not be permitted to take an end of semester examination unless he/she has satisfied all the requirements of the relevant course, including but not limited to regular attendance at lectures if attendance at lectures is compulsory, laboratory classes and submission of assignments at the appropriate time, as prescribed by the Senate on the recommendation of the relevant Board of Study.

#### Grading Policy

26. The percentage score obtained in respect of each Course other than an Enhancement Course in the case of each Degree Programme shall be converted to a Grade according to the scheme given below.

Range of percentage score	Grade	Grade Point Value	Attainment
90 - 100	A+	4.25	Superior
80 - 89	A	4.00	
75 - 79	A-	3.75	
70 - 74	B+	3.25	Meritorious
65 - 69	B	3.00	
60 - 64	B-	2.75	
55 - 59	C+	2.25	Adequate
50 - 54	C	2.00	
45 - 49	C-	1.75	
40 - 44	D+	1.25	Minimal
30 - 39	D	1.00	
20 - 29	D-	0.75	
00 - 19	E	0.00	Failure

The Grade Point Value corresponding to the percentage score obtained by a student in respect of each such Course in the case of the Degree Programmes shall be multiplied (weighted) by its Credit Value to obtain the Grade Point Value of each such Course. If the Grade Point Average of a student is required for any purpose, such Grade Point Average shall be the weighted average, rounded to the second decimal place, of all the Grade Point Values of the contributing Academic Courses registered by the student. Any student not satisfying the condition 22 of the By-laws for a particular Academic Course will be assigned a Grade F and a Grade Point Value of 0 for such course. Any student not satisfying the condition 22 of the By-laws for a particular Enhancement Course will be assigned a Grade "NC". If a student's final Grade Point Average exceeds 4.0 it is rounded to 4.0.

27. The evaluation in respect of any Academic Course or an Enhancement Course held during any Semester shall be conducted within such Semester except for a Course which has a Practical component or a Research Component or involves the writing of a Report. The result of the evaluation of each Course held during any Semester of any year shall be made available to the students within such a period after holding the last evaluation in respect of such year and as specified by the relevant Rules and Regulations of the UCSC.
28. The rubric in respect of any evaluation of an Academic Course shall be as prescribed by the Senate on the recommendation of the relevant Board of Study.

#### **Repeating Evaluations**

29.

- (I) If a student has been absent for an evaluation of any Course or any component of a course and such absence does not receive the approval of the Senate as having been under medical /exceptional circumstances, he/she shall be assigned the Grade F for the course and a Grade Point Value of 0 for such course.
- (II) If such absence receives the approval of the Senate as having been under medical/exceptional circumstances, then, such student shall not be assigned any grade but be deemed to be appearing for an evaluation for the first time provided that he/she appears for an evaluation at the immediately following opportunity provided by the UCSC and he/she has not fulfilled the requirement of the award of the relevant degree and such reappearance takes place within the period of six years specified in By-Law 1(f).
- (III) Such a student or any other student who has a Grade inferior to a C after an evaluation of any Course shall be eligible to reappear for such evaluation provided that such Course is available and he/she has not fulfilled the requirement of the award of the relevant degree and such reappearance takes place within the period of six years specified in By-Law 1(f). If such Course is not available for such reappearance, then, he/she shall appear for an evaluation in respect of a Course which is available provided that, such Course is declared by the UCSC to be equivalent to the Course which is not available.
- (IV) A student who has a C Grade or a superior Grade in any Course shall not be entitled to reappear for the evaluation of such a Course.
- (V) If a student makes use of the provision of this By-Law to improve a Grade which he/she has already obtained and satisfies the requirements for the award of the three year Degree or the four year Degree as the case may be, then, for the purpose of determining whether he/she is entitled to be placed in the First Class, the Second Class (Upper Division) or the Second Class (Lower Division), the best Grade obtained shall be considered in respect of each such Course unless,

he/she has obtained a C Grade or a superior Grade as a result of such reappearance at an evaluation, and in such event, for the purposes of the above determination, he/she shall be deemed to have obtained a C Grade. Such a student shall pay to the UCSC, the prescribed fees for reappearance for each such evaluation.

(VI) The Transcript to which any student is entitled to on obtaining the Degree, or if he/she is not entitled to any such Degree within six years, after the conclusion of the period of six years specified in By-Law 1(f), shall contain, in addition to certain relevant information, a complete list of the Enhancement Courses he/she has registered for and whether he/she has 'completed' or 'not completed' each such Course, the corresponding Credit Value Equivalents, and in addition, the Academic Courses he/she has registered for and whether he/she has 'completed' or 'not completed' each such Course, the Credit Value of each such 'completed' Course, the Grade or, in case he/she has made use of the provisions of this By-Law to reappear for an evaluation, the Grades as the case be corresponding to such 'completed' Courses.

(VII) No Grade or a percentage score or the result of the evaluation of any Course shall receive official recognition for any purpose unless such Grade or percentage or the result of such evaluation as the case may be has been approved by the relevant Board of Examiners and the final results pertaining to the award of the three year Degree or the four year Degree as the case may be in the relevant year have been confirmed by the Senate.

#### **PART IV- THE FOUR YEAR DEGREE PROGRAMMES**

30. Each student who has a GPA of a given minimum and satisfied all other requirements, as prescribed by the relevant Rules and Regulations in respect of the first two years shall be eligible to apply, when notified by the UCSC prior to the commencement of the third year, for the relevant four year Degree Programmes.
31. It shall be lawful, for the UCSC, to prescribe the maximum number of places available for the four year Degree Programmes and notify such number of places before the commencement of the third year.
32. The number of places available in the third year shall be filled, one by one, by the UCSC, from among the eligible applicants according to the merit order of the GPA of the first two years taken together. If a selection has to be made from among applicants who have the same GPA, then the merit order of the aggregates of the percentage scores obtained by each such applicant during the first two years shall be considered. If the number of eligible applicants registered for each of the four year Degree Programmes in any year is less than the maximum number of places available in respect of that year, it shall be lawful, for the UCSC, to conduct such Programmes notwithstanding the fact that all the places available for such Programme in respect of that year have not been filled. If a student makes use of the provision of By-Law 29 (V) to improve a Grade, his/her marks obtained at the first attempt shall be used for the selection for the four year degree programmes. A student who has been selected to follow the four year Degree Programmes may, at any time thereafter, withdraw his/her application for such Programme, provided that he/she has obtained permission from the UCSC to withdraw his application and has been permitted to obtain the three year Degree subjected to conditions applicable to the three year Degree programme. Any vacancy created by such withdrawal within a prescribed period of the commencement of the third year of the four year Degree Programmes may be filled by the UCSC at its sole discretion by a selection out of the eligible applicants, if any, who have failed to gain admission to the four year Degree Programmes. The provisions of By-Law (32) shall apply for each such selection.

33. Any student who has not been admitted to follow the four year Degree Programmes shall remain registered for the three year Degree programme.
34. Each student who is selected to follow a four year Degree Programme shall register, in respect of the third and fourth years, for such number of Enhancement Courses and Academic Courses as contributing respectively to at least the prescribed number of Enhancement Credit value Equivalent and at least 30 credits including the credits assigned for Industrial Training.
35. The title of the Dissertation on the Individual/Group Project in the Fourth Year may be chosen by the student. However, work regarding such Project shall not begin until the UCSC has approved the title. The evaluation of such Dissertation on the Individual/Group Project may involve a presentation and/or an Oral Examination.

#### **PART V- THE AWARD OF THE DEGREE**

36. The minimum conditions which a student has to satisfy in order that he/she may be eligible for the award of the three year Degree or the four year Degree as the case may be, shall be prescribed by the relevant Rules and Regulations of the UCSC.

#### **PART VI-DEGREE WITH CLASSES**

37. A student who is eligible for the award of the three year Degree or the four year Degree as the case may be, shall be eligible to be placed in the First Class or the Second Class (Upper Division) or the Second Class (Lower Division) based on the GPA and other conditions if any, as prescribed by the relevant Rules and Regulations of the UCSC.

#### **PART VII-OPTION TO RECEIVE A THREE YEAR DEGREE**

38. A student who is registered for a four year Degree Programme shall be free to request the UCSC to cancel such registration but not later than the elapse of a period of 14 days after the results of the evaluations of the Courses of the fourth year have been released by the UCSC. After such cancellation, he/she shall also be free to be considered for the award of the three year Degree, notwithstanding the fact that he/she had not registered for the award of such Degree. Rules and Regulations of the UCSC shall prescribe the eligibility requirements for the award of the three year Degree in this context.

#### **PART VIII -AWARD OF THE DEGREE**

39. No student is entitled to the award of the three year Degree or a four year Degree as the case may be, unless he/she has satisfied the requirements for the award of such Degree and he/she has supplicated for the award of such Degree at the relevant Convocation of the University of Colombo.
40. If any question arises regarding the interpretation of these By-Laws, such question shall be referred to the Council by the Principal Executive Officer, and the determination of the Council on such interpretation shall be final.
41. The Vice-Chancellor shall have authority, in consultation with the Director of the UCSC to take such action or give such direction not inconsistent with the principles underlying the provisions of these By-Laws, as appears to him/her to be necessary or expedient for the purpose of removing any difficulties that may arise



in the interpretation of these provisions or for which there is no provision in these By-laws or in the case of students who had followed or have been following the Degree Programme/s under the existing arrangements approved by the Senate and the Council.

#### **PART IX- INTERPRETATION**

42. In these By-Laws as well as in this Part IX, unless the context requires otherwise,

"Academic Year" means a period beginning with the First day of October of any year and ending with the thirtieth day of September in the next year unless, the UCSC has determined it to be different in respect of any Academic Year due to special reasons,

"Vice-Chancellor" means the Vice-Chancellor of the University of Colombo,

"Act" means the Universities Act No.16 of 1978 as last amended by Universities (Amendment) Act No.1 of 1995,

"Council" means the Council of the University of Colombo,

"Senate" means the Senate of the University of Colombo,

"School" means the University of Colombo School of Computing,

"UCSC" means the School,

"Director" means the Director of the UCSC,

"Principal Executive Officer" means the Director of the UCSC or any other person appointed by the Board of Management of the UCSC to perform, in his absence, the duties of Office of Director.

"The Board of Management" means the Board of Management of the School,

"First academic year" means the first academic year of the Degree of Bachelor of Science in Computer Science programme.

"The Degree Programmes" means the Degree of Bachelor of Science in Computer Science and the Degree of Bachelor of Science Honours in Computer Science and the Degree of Bachelor of Science Honours in Software Engineering programmes,

"The Degree of Bachelor of Science in Computer Science" means the Degree which may be awarded at the end of the three academic year programme duration.

"Three year Degree Programme" means the Programme of Study leading to the award of the Degree of Bachelor of Science in Computer Science.

"Four year Degree Programme" means the Programme of Study leading to the award of either the Degree of Bachelor of Science Honours in Computer Science or the Degree of Bachelor of Science Honours in Software Engineering,

"Component of a module" means a Compulsory Academic Course, Optional Academic Course Enhancement Course, Projects or the Industry Placement.

"Prescribed" means, unless the context otherwise states or demands, prescribed by the relevant Board of Study or Department.

*This Regulations is subject to approval from the Senate of the University of Colombo.*

**DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE  
AND  
DEGREE OF BACHELOR OF SCIENCE HONOURS IN COMPUTER  
SCIENCE  
AND DEGREE OF BACHELOR OF SCIENCE HONOURS IN SOFTWARE  
ENGINEERING**

Regulations made by the Senate of the University of Colombo under Section 136 of the Universities Act No.16 of 1978 as subsequently amended and read with the University of Colombo School of Computing Ordinance No. 1 of 2002 as last amended by the University of Colombo School of Computing (Amendment) Ordinance No 01 of 2011.

**Regulations**

These Regulations may be cited as the Degree of Bachelor of Science in Computer Science /Degree of Bachelor of Science Honours in Computer Science/Degree of Bachelor of Science Honours in Software Engineering Regulations No ..... of .....

**PART I- ACADEMIC PROGRAMME**

1. The Course Code assigned to each Course, the title of each such Course, the number of Credits or Credit Value Equivalent assigned to each Course and the year in which each course is being offered shall be as given in Schedule No.1 of this Regulations.
2. The syllabus applicable to each course shall be as prescribed by the School from time to time and as approved by the Academic Syndicate.
3. The minimum level of attendance prescribed in respect of each Course and its Course Activities when stipulated by the School shall be such percentage as prescribed.

**PART II- EVALUATION PROCEDURE**

If a student has been absent at an evaluation of a Course when he/she should have appeared for such evaluation and he/she believes that such absence has been due to exceptional circumstances, he/she may be considered for relief under the provisions of By-Law 29(ii) only if he/she makes a written application within 3 working days of the School to the Director for such relief and such application states the circumstances under which he/she has been absent. Such application shall be deemed to be incomplete unless it is followed up by documentary evidence in support of the claim that absence has been due to exceptional circumstances and such evidence is furnished within 7 working days of the School. The responsibility of ascertaining whether a student should have appeared for any evaluation of a Course at a given time shall rest entirely with the student. The

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student shall consult the relevant Department regarding the nature of the documentary evidence which will be needed for the purpose.

4. If the School informs a student that he/she has failed to put in a sufficient amount of work in relation to the **Industrial Placement/ Industrial Project** or the **Final Year Project** in the case of the Honours Degree Programme, then such student shall not be entitled to relief under the provisions of By-Law 29 (iii) unless, he/she communicates with the School in writing within 7 working days of being so informed, the circumstances for such failure to put in a sufficient amount of work and such communication is supported by documentary evidence of such circumstances. The student shall consult the Director regarding the nature of the documentary evidence which will be needed for the purpose.
5. In respect to the Degree Programmes the Grade Point Average (GPA) shall have no contribution coming from the evaluation of any Enhancement Course.

**PART III- THE HONOURS DEGREE PROGRAMMES**

6. Students shall be selected to follow an Honours degree programme at the end of the second academic year.
7. A student shall be eligible to apply for an Honours degree programme at the end of the second academic year of study if he/she is eligible to proceed to the third year as per By-Law(30) and his/her GPA is not less than 2.75 in the first and the second academic years.
8. If a student makes use of the provision of the By-Laws to reappear for an evaluation to improve a Grade, for the purpose of determining his/her eligibility for the Honours degree programmes, shall be as per By-Law(32).
9. Selection of students to follow an Honours Degree Programme shall be as prescribed in By-law (32).
10. If a student has been selected to follow an Honours Degree Programme, he/she may withdraw from such Programme under the provisions of By-Law (32) only if he/she has applied in writing, to the School, stating his/her desire to withdraw from the Programme. Such withdrawal shall not take effect until his/her request to withdraw is accepted by the School.

**PART IV- THE AWARD OF THE DEGREE**

11. A student shall not be entitled to the award of the three year Degree unless he/she has
  - (a) completed a minimum of 90 credits;
  - (b) completed a minimum of 60 Academic Credits in the first two years and at least **22** Academic Credits in the third year.

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- (c) completed the number of Enhancement Credit Value Equivalents prescribed in respect of each year;
  - (d) obtained a minimum GPA of 2.00 ;
  - (e) completed the third year **Industrial Placement/Industrial Project**; and
  - (f) completed the relevant requirements within six Academic Years.
12. A student shall not be entitled to the award of the Honours Degree unless he/she has
- (a) completed a minimum of 120 credits;
  - (b) completed a minimum of 30 Academic Credits in each of the first and the second academic years, a minimum of **22** Academic Credits in the third academic year and a minimum of 30 Academic Credits in the fourth academic year.
  - (c) completed the number of Enhancement Credit Value Equivalents prescribed in respect of each year;
  - (d) obtained a minimum GPA of 2.50 ;
  - (e) completed the third year **Industrial Placement/Industrial Project**;
  - (f) obtained a grade not inferior to a C for the fourth year **Final Year Project**; and
  - (g) completed the relevant requirements within six Academic Years.

**PART V-DEGREE WITH CLASSES**

13. A Student qualifying for the award of a degree by completing all the relevant requirements shall also be qualified for the award of a class as follows.
- a. **First Class** – for obtaining a minimum overall GPA of 3.50
  - b. **Second Class (Upper Division)** - for obtaining a minimum overall GPA of 3.25
  - c. **Second Class ( Lower Division)** - for obtaining a minimum overall GPA of 3.00

**PART VI- OPTION TO RECEIVE A THREE YEAR DEGREE**

14. A student who is registered for an Honours Degree Programme shall not be entitled to benefit from the provisions of By-Law 38 unless he/she makes a written application to the School for the purpose within the period stipulated. If his/her application is granted, the third year Courses for which he/she has registered under the Honours Degree Programme shall be deemed, for all intents and purposes, to be the Courses he/she has registered for in the third year, to be considered for the award of the three year Degree notwithstanding the fact that such courses fall within the Honours Degree Programme.

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**Schedule No.1**

**Year 1**

**First Year Courses (All Compulsory)**

Course Code	Course Name	Mode	Credits	
			Lecture	Practical
SCS1101	Data Structures and Algorithms I	Compulsory	2L	1P
SCS1102	Programming I	Compulsory	2L	1P
SCS1103	Database I	Compulsory	2L	1P
SCS1104	Mathematical Methods I	Compulsory	2L	
SCS1105	Computer Systems	Compulsory	2L	
SCS1106	Laboratory I	Compulsory	<b>1L</b>	<b>1P</b>
ENH 1101	<b>Enhancement I</b>	Compulsory	1L	
SCS 1107	Software Engineering I	Compulsory	2L	
SCS 1108	Data Structures and Algorithms II	Compulsory	2L	
SCS 1109	Programming II	Compulsory	2L	1P
SCS 1110	Discrete Mathematics	Compulsory	2L	
SCS 1111	Mathematical Methods II	Compulsory	2L	
SCS 1112	Foundations of Computer Science	Compulsory	2L	
SCS 1113	Statistics	Compulsory	2L	
ENH 1102	<b>Enhancement II</b>	Compulsory	1L	

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## Year 2

### Second Year Courses - (All Compulsory)

Course Code	Course Name	Mode	Credits	
			Lecture	Practical
SCS2101	Data Structures and Algorithms III	Compulsory	2L	
SCS2102	Group Project I *	Compulsory		<b>4P</b>
SCS2103	Software Engineering II	Compulsory	<b>2L</b>	
SCS2104	Programming III	Compulsory	2L	1P
SCS2105	Computer Networks I	Compulsory	2L	1P
SCS2106	Operating Systems I	Compulsory	2L	1P
SCS2107	Mathematical Methods III	Compulsory	2L	
SCS2108	Programming IV	Compulsory	2L	1P
SCS2109	Database II	Compulsory	<b>2L</b>	
SCS2110	Programming Language Concepts	Compulsory	2L	
SCS2111	Laboratory II	Compulsory	<b>1L</b>	<b>1P</b>
SCS2112	Automata Theory	Compulsory	2L	
ENH2101	<b>Enhancement III</b>	Compulsory	1L	

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### Year 3

#### Third Year Courses

Subject Code	Subject Name	BSc Hons (CS)	BSc Hons( SE)	BSc(CS)	No: of Credits	
					L	P
SCS3101	Electronics	O	O	O	2L	1P
SCS3102	<b>Advanced</b> Computer Architecture	O	O	O	1L	
SCS3103	Middleware Architecture	O	X	O	2L	1P
SCS3105	Computer Graphics I	O	O	O	2L	
SCS3106	Information <b>System</b> Security	X	X	X	<b>2L</b>	
SCS3107	Software Quality Assurance	O	X	X	2L	
SCS3108	Software Project Management	O	X	X	2L	
SCS3109	<b>Human Computer Interaction</b>	O	X	O	<b>2L</b>	<b>1P</b>
SCS3110	Systems and Network Administration	O	O	O	2L	1P
SCS3111	Compiler Theory	X	O	O	2L	
SCS3112	<b>Advanced Web Development</b>	O	O	O	2L	1P
SCS3113	<b>Game Development</b>	O	O	O	1L	1P
SCS3114	Management	O	O	O	2L	
SCS3115	Professional Practice	X	X	X	<b>2L</b>	
SCS3116	Research Methods	X	O	-	-	<b>2P</b>
SCS3117	Group Project II	-	-	X	-	3P
SCS3118	Graph Theory	X	O	O	1L	
SCS3119	<b>Software Engineering III</b>	O	X	O	<b>2L</b>	
<b>SCS3120</b>	<b>Machine Learning and Neural Computing</b>	X	O	O	<b>2L</b>	
ENH3101	<b>Industrial Placement/ Industrial Project</b>	X	X	X	-	8P



## Year 4

### Fourth Year Courses

Subject Code	Subject Name	BSc Hons (CS)	BSc Hons (SE)	No: of Credits	
				L	P
SCS4101	Society, Cyber Security and Legal Aspects of IT	O	O	1L	
SCS4103	Database III	O	X	2L	1P
SCS4104	Data Analytics	O	O	2L	<b>1P</b>
SCS4105	Computer Networks II	O	O	<b>2L</b>	
SCS4106	Computer Graphics II	O	O	2L	1P
SCS4107	Operating Systems II	<b>X</b>	<b>O</b>	<b>2L</b>	
SCS4108	Theory of Computation	X	O	2L	
SCS4109	Distributed Systems	O	O	2L	
SCS4110	Parallel Computing	O	O	2L	1P
<b>SCS4111</b>	<b>Intelligent Systems</b>	<b>O</b>	<b>O</b>	<b>2L</b>	
SCS4113	Natural Language Processing	O	O	<b>2L</b>	<b>1P</b>
SCS4114	<b>Natural Algorithms</b>	<b>O</b>	<b>O</b>	<b>2L</b>	
SCS4115	<b>Computational Biology</b>	<b>O</b>	-	<b>2L</b>	<b>1P</b>
SCS4116	Image Processing & Computer Vision	O	O	<b>2L</b>	
SCS4117	<b>Embedded Systems</b>	<b>O</b>	<b>O</b>	<b>2L</b>	<b>1P</b>
SCS4118	<b>Robotics</b>	O	O	1L	1P
SCS4119	Formal Methods and Software Verification	X	X	2L	
SCS4120	<b>Software Engineering IV</b>	<b>O</b>	<b>X</b>	<b>2L</b>	<b>1P</b>
SCS4121	Data Structures and Algorithms IV	<b>O</b>	O	2L	
SCS4122	Research Seminar	X	O	-	2P
SCS4123	<b>Final Year Project in Software Engineering</b>	-	X	-	8P
SCS4124	<b>Final Year Project in Computer Science *</b>	X	-	-	8P
SCS4125	Logic Programming	O	O	<b>2L</b>	
SCS4126	Advanced Topics in Mathematics	O	O	1L	
ENH4101	<b>Enhancement IV</b>	X	X	1L	

**Note:**

X → Compulsory

O → Optional

- → Not Offered

\* → Throughout the year

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**BSc (CS)** – BSc in Computer Science

**BSc Hons (CS)** – BSc Honours in Computer Science

**BSc Hons (SE)** – BSc Honours in Software Engineering