Annex I

Amendments to the Regulations of the Bachelor of Information Technology (BIT) Degree Programme (By-Laws No. 26 of 2023)

The curriculum of the Bachelor of Information Technology (BIT) degree programme is revised every three to five (3-5) years. In December 2017, ACM and IEEE curriculum guidelines were revised considering possible changes for the 2018-2028 decade in the Information Technology field. Hence, the Board of Study for the External and Extension Degree Programmes of the UCSC decided to revise the BIT curriculum according to the above revised ACM and IEEE curriculum guidelines, and the trends in the local industry starting from the academic year 2020. The changes and new courses introduced in 2020 were presented in Section 6 - "THE SCHEDULE (Course Structure)" of the Degree of Bachelor of Information Technology Regulations No. 12 of 2020.

While preparing the curriculum, considering the depth, importance, and effect on other courses, minor changes have been introduced to the Level I (Year 1) and Level III (Year 3) course structures presented in regulations No. 12 of 2020 (Regulation 6). Additionally, minor adjustments were made to the Grading Scheme for Enhancement Courses (Regulation 3 (4)), and to the conditions for issuing transcripts (Regulation 5).

These changes are reflected below.

Regulation No	Old Version	Amended Version
Regulation 6 "THE SCHEDULE (Course Structure)"	**Level I (Year 1)** EN1106 - Introductory Mathematics was an enhancement course in Level I. It was a non-GPA, 2 Credits course.	Since Mathematics is a core subject required for an Information Technology Degree Programme, it has been changed to an IT course instead of an enhancement course. Consequently, a new GPA course has been introduced to replace the EN course, EN1106 – Introductory Mathematics. The new course is as follows: **IT1506 – Fundamentals of Mathematics (1 Credit)**
	Level III (Year 3) EN5106 - Fundamentals of Management & Entrepreneurship course in Semester 5 – credit allocation was **1L, IP**	Considering the nature of the course, practical credits have been removed and incorporated that into theory credits. As a result, the **credits allocated for the EN5106 course changed to 2L instead of 1L, IP**
	IT5506 - e-Business Technologies was a course in Semester 5.	IT5506 - e-Business Technologies course has been **moved from Semester 5 to Semester 6. The new course code is IT6506.**
	IT6506 - Mathematics for Computing II was a course in Semester 6.	IT6506 - Mathematics for Computing II has been **moved from Semester 6 to Semester 5. The new course code is IT5506.**

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<table>
<tr>
<td></td>
<td>EN6106- Advanced Concepts in Information Technology course in Semester 6.

IT6306 - Application Development for Mobile Environments course in Semester 6</td>
<td>The course name has been changed to <u>EN6106 - Emerging Topics in Information Technology.</u>

The course name has been changed to <u>IT6306 - Mobile Application Development</u></td>
</tr>
<tr>
<td>Regulation 3 (4):</td>
<td>The Enhancement Courses shall be graded in terms of the scheme in Table II. However, it is compulsory to obtain a "PASS" grade for all enhancement courses.

Table II
Grading Scheme for Enhancement Courses
<table>
<tr><th>Range of Marks</th><th>Grade</th></tr>
<tr><td>50-100</td><td>PASS</td></tr>
<tr><td>00-49</td><td>FAIL</td></tr>
</table>
</td>
<td>The grading scheme for enhancement courses has been updated as outlined in Table II. This change takes into account the fact that scoring 40 marks would result in a "C" grade for all other written examinations in the BIT Programme. As a result, the pass marking threshold for the EN course has been revised to the range of 40-100.

The Enhancement Courses shall be graded in terms of the scheme in Table II. However, it is compulsory to obtain a "PASS" grade for all enhancement courses.

Table II
Grading Scheme for Enhancement Courses
<table>
<tr><th>Range of Marks</th><th>Grade</th></tr>
<tr><td>40-100</td><td>PASS</td></tr>
<tr><td>00-39</td><td>FAIL</td></tr>
</table>
</td>
</tr>
</table>

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Regulation 5 (2):	(2) Each candidate, whether he/she has passed or not, shall be provided with a transcript giving details of the Grades, GPV and GPA he/she had obtained and the final result including classes, if any, provided that, he/she makes an application for such transcript in the manner specified by the School.	**If a candidate is not qualified to obtain DIT, HDIT, or BIT, he/she will not be issued a transcript. In that case, the candidate will only be provided with a record of examinations.** **As such, the Regulation 5 was updated as follows:** 5. (1) The University shall publish, online or otherwise, the names of candidates who are eligible to be awarded the Degree of Bachelor of Information Technology. **(2) Each candidate who has qualified for the Diploma in Information Technology (DIT), Higher Diploma in Information Technology (HDIT), or Bachelor of Information Technology (BIT) shall be provided with a transcript giving details of the Grades, GPV and GPA he/she had obtained and the final result including classes, if any, provided that, he/she makes an application for a transcript in the manner specified by the School.** **(3) Each candidate who has not qualified for the Diploma in Information Technology (DIT), Higher Diploma in Information Technology (HDIT), or Bachelor of Information Technology (BIT) shall only be provided with a record of examination giving details of the Grades, Credits, and the Year which the examination of each course has been attempted, provided that, he/she makes an application for a record of examination in the manner specified by the School.**

The amendments mentioned above will be effective starting from the academic year 2024.

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UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

REGULATIONS

of the

Degree of Bachelor of Information Technology

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 Section 13 of 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

1. (1) These Regulations may be cited as the Degree of Bachelor of Information Technology Regulations No ..... of **2024.**

   (2) These Regulations shall be deemed to have come into operation with effect from **October 2024** and shall be read in conjunction with the Degree of Bachelor of Information Technology By-Laws No. 26 of 2023.

PART I – ACADEMIC PROGRAMME

2. (1) There shall be assigned, to each Course offered in the Programme leading to the Degree of Bachelor of Information Technology, a Course Code, Title (Name), Level & Semester, Number of Credits [or Credit Value], and whether it is Compulsory or Optional Academic Course and whether it is an Enhancement Course.

   (2) The Schedule to these Regulations shall provide the details mentioned in sub-section (1) of this section.

   (3) The syllabus applicable to each Course shall be prescribed, from time to time, by the Academic Syndicate, on the recommendation of the relevant Board of Studies, and approved by the Senate.

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PART II – GRADING SYSTEM & GRADE POINT AVERAGE

3. (1) The Range of Marks and the corresponding Grades and Grade Point Values (GPV) of the Academic Courses and the Project shall be those given in Table 1 below:

Table 1

Range of Marks, Grades & their Respective Grade Point Values

Range of Marks	Grade	Grade Point Values (GPV)
85-100	A+	4.00
70-84	A	4.00
65-69	A-	3.70
60-64	B+	3.30
55-59	B	3.00
50-54	B-	2.70
45-49	C+	2.30
40-44	C	2.00
35-39	C-	1.70
30-34	D+	1.30
25-29	D	1.00
00-24	E	0.00

(2) The Grade Point Average (GPA) of a candidate shall be calculated using the following equation -

$$GPA = \frac{\sum(\text{GPV of CC} * \text{No.of credits of CC}) + \sum(\text{GPV of OC} * \text{No.of credits of OC})}{\textit{Total number of Credits for the program}}$$

Where CC stands for Compulsory Course and OC stands for required Optional Course. When calculating the GPA, additional optional courses taken are disregarded. The GPA is rounded to the second decimal place.

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(3) A student shall be deemed to have 'completed' a Course or a component of a Course if he/she has received a Grade not less than D (1.00 GPV) in respect of the evaluation of the Course or such component.

(4) The Enhancement Courses shall be graded in terms of the scheme in Table II. However, it is compulsory to obtain a "PASS" grade for all enhancement courses.

Table II

Grading Scheme for Enhancement Courses

Range of Marks	Grade
40-100	PASS
00-39	FAIL

(5) The Enhancement Courses shall not contribute to the calculation of GPA.

Repeat Evaluation

4. (1) If a student did not take an evaluation or has received a Grade which is less than C or less than Pass Grade at an evaluation of any Course may be eligible to reappear for such evaluation provided he/she has not exhausted all the available or deemed available attempts under the By-Laws and that such Course is offered by the School. Provided further that he/she has not otherwise fulfilled the requirements for the award of the Degree.

(2) A student who has a C Grade or above or a Pass in any Course shall not be eligible to reappear for evaluation of such Course.

(3) If a student makes use of these Regulations to improve a Grade which he/she has already obtained for the purpose of determining whether he/she is entitled to the Degree, the best Grade Point Value obtained by such student shall be considered in respect of the Course. However, for the purpose of determining a Class he/she shall deemed to have obtained a C Grade only if he/she obtained a Grade not lower than C Grade at the repeat evaluation.

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5. (1) The University shall publish, online or otherwise, the names of candidates who are eligible to be awarded the Degree of Bachelor of Information Technology.

(2) Each candidate who has qualified for the Diploma in Information Technology (DIT), Higher Diploma in Information Technology (HDIT), or Bachelor of Information Technology (BIT) shall be provided with a transcript giving details of the Grades, GPV and GPA he/she had obtained and the final result including classes, if any, provided that, he/she makes an application for a transcript in the manner specified by the School.

(3) Each candidate who has not qualified for the Diploma in Information Technology (DIT), Higher Diploma in Information Technology (HDIT), or Bachelor of Information Technology (BIT) shall only be provided with a record of examination giving details of the Grades, Credits, and the Year which the examination of each course has been attempted, provided that, he/she makes an application for a record of examination in the manner specified by the School.

THE SCHEDULE (Course Structure)

6. The Course Structure of the Degree of Bachelor of Information Technology shall be as given hereunder.

Level I (Year 1)

Level I – Semester 1

Course Code	Course Title	GPA Credit	Credit & Hours			
			Theory		Practical	
			Credit	Hours	Credit	Hours
IT1106	Information Systems	4	3	150	1	50
IT1206	Computer Systems	4	3	150	1	50
IT1306	Free and Open Source Software for Personal Computing	3	2	100	1	50
IT1406	Introduction to Programming	4	3	150	1	50
IT1506	Fundamentals of Mathematics	1	1	50	-	-
	Total	**16**	**12**	**600**	**4**	**200**

All courses of Level I Semester 1 are Compulsory.

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Level I – Semester 2

Course Code	Course Title	GPA Credit	Credit & Hours			
			Theory		Practical	
			Credit	Hours	Credit	Hours
EN2106	Communication Skills I	-	1	50	1	50
IT2106	Mathematics for Computing I	3	3	150	-	-
IT2206	Fundamentals of Software Engineering	4	3	150	1	50
IT2306	Database Systems	4	3	150	1	50
IT2406	Web Application Development I	4	3	150	1	50
	Total	**15**	**13**	**650**	**4**	**200**

All courses of Level I Semester 2 are Compulsory.

Level II (Year 2)

Level II – Semester 3

Course Code	Course Title	GPA Credit	Credit & Hours			
			Theory		Practical	
			Credit	Hours	Credit	Hours
EN3106	Communication Skills II	-	1	50	1	50
IT3106	Object Oriented Analysis & Design	3	3	150	-	-
IT3206	Data Structures and Algorithms	3	3	150	-	-
IT3306	Data Management Systems	3	3	150	-	-
IT3406	Web Application Development II	4	3	150	1	50
	Total	**13**	**13**	**650**	**2**	**100**

All courses of Level II Semester 3 are Compulsory.

Level II – Semester 4

Course Code	Course Title	GPA Credit	Credit & Hours			
			Theory		Practical	
			Credit	Hours	Credit	Hours
IT4106	User Experience Design	3	2	100	1	50
IT4206	Enterprise Application Development	4	3	150	1	50
IT4306	Information Technology Project Management	3	3	150	-	-
IT4406	Agile Software Development	4	3	150	1	50
IT4506	Computer Networks	3	3	150	-	-
	Total	**17**	**14**	**700**	**3**	**150**

All courses of Level II Semester 4 are Compulsory.

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Level III (Year 3)

Level III – Semester 5

Course Code	Course Title	GPA Credit	Course Type	Credit & Hours			
				Theory		Practical	
				Credit	Hours	Credit	Hours
EN5106	Fundamentals of Management & Entrepreneurship	-	C	2	100	-	-
IT5106*	Software Development Project	4	C	-	-	4	200
IT5206	Professional Practice	3	C	3	150	-	-
IT5306	Principles of Information Security	3	C	3	150	-	-
IT5406	Systems & Network Administration	3	C	2	100	1	50
IT5506	Mathematics for Computing II	3	O	3	150	-	-
	Total	**16**		**13**	**650**	**5**	**250**

Course Type **C** denotes Compulsory and **O** denotes Optional.

Level III – Semester 6

Course Code	Course Title	GPA Credit	Course Type	Credit & Hours			
				Theory		Practical	
				Credit	Hours	Credit	Hours
EN6106	Emerging Topics in Information Technology	-	C	1	50	1	50
IT5106*	Software Development Project Continued	4	C	-	-	4	200
IT6206	Software Quality Assurance	3	C	2	100	1	50
IT6306	Mobile Application Development	4	C	2	100	2	100
IT6406	Network Security and Audit	3	C	2	100	1	50
IT6506	e-Business Technologies	3	O	2	100	1	50
	Total	**17**		**9**	**450**	**10**	**500**

Course Type **C** denotes Compulsory and **O** denotes Optional.

* The Software Development Project course is worth 8 credits and is offered in both Level III Semester 5 and 6, with 4 credits for each semester.

EN courses are non-GPA. Therefore, the credit value of an EN course is not considered for GPA calculation.

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