Annex II

UNIVERSITY OF COLOMBO, SRI LANKA
UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF SCIENCE IN INFORMATION SYSTEMS/ DEGREE OF BACHELOR OF SCIENCE HONOURS IN INFORMATION SYSTEMS (Amendment) Regulations

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

1. These Regulations may be cited as the Degree of Bachelor of Science in Information Systems/Degree of Bachelor of Science Honors in Information Systems (Amendment) Regulations No ……of ……..
2. These Regulations shall be deemed to have come into effect from May 2024.

AMENDMENT

3. Sections 3, 4, and 6 of the Degree of Bachelor of Science in Information Systems/Degree of Bachelor of Science Honors in Information Systems (Amendment) Regulations No 11 of 2018 are hereby repealed.

4. Section 7 of the Degree of Bachelor of Science in Information Systems/Degree of Bachelor of Science Honours in Information Systems Regulations of 2013(hereinafter referred to as "the parent Regulations") is hereby amended by its repeal and replacement by the following Section 7:

   "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 **cumulative GPA is not less than 3.00 at the end of the second academic year.** "

5. Section 11(a) of the parent Regulations is hereby amended by its repeal and replacement by the following section 11(a):

   "11(a). completed a minimum of 90 credits **contributing towards the GPA**;"

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6. Section 11(b) of the parent Regulations is hereby amended by its repeal and replacement by the following section 11(b):

"11(b). completed all Credits **contributing towards the GPA** in the first two academic years and at least **22** Credits **contributing towards the GPA** in the third academic year."

7. Section 11(e) of the parent Regulations is hereby amended by its repeal and replacement by the following section 11(e):

"11(e). **completed the third year Industry Project with a minimum C grade;"**

8. Section 12(a) of the parent Regulations is hereby amended by its repeal and replacement by the following Section 12(a):

"12(a). completed a minimum of 120 Credits **contributing towards the GPA**;"

9. Section 12(b) of the parent Regulations is hereby amended by its repeal and replacement by the following section 12(b):

"12(b). completed all Credits **contributing towards the GPA** in the first two years, a minimum of **22** Credits **contributing towards the GPA** in the third Academic year and a minimum of 30 Credits **contributing towards the GPA** in the fourth academic year;"

10. Section 12(e) of the parent Regulations is hereby amended by its repeal and replacement by the following section 12(e):

"12(e). completed **the third year Industrial Placement**";

11. Schedule No. 1 of the parent Regulations is hereby amended by its repeal and replacement by the following Schedule No.1:

SCHEDULE NO. 1

LEGEND	
Symbol	Definition
L	Lecture Credit (1 L = 15 hours)
P	Practical Credit (1P = 30 hours)
+	Year-long Course Module
IS	Program Relevant Course
EN	Enhancement Course
O	Optional Course Module
X	Mandatory Course Module
3*	Bachelor of Science in Information Systems
4*	Bachelor of Science Honours in Information Systems
	Course not offered

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Year 1 – Semester 1

All Course are Compulsory

Code	Course Name	Total Credits	Credits	N-GPA Credit
IS1201	Programming and Problem Solving	3	2L+1P	
IS1202	Computer Systems	2	2L	
IS1203	Foundations of Information Systems	2	2L	
IS1204	Fundamentals of Software Engineering	2	2L	
IS1205	Introduction to Management	2	2L	
IS1206	Mathematics for Computing	2	2L	
IS1207	Internet and Web Technologies	3	2L+1P	
EN1201	*Communication Skills*	1	1P	Yes
EN1202	*Application Laboratory*	1	1P	Yes

Year 1 – Semester 2

All Course are Compulsory

Code	Course Name	Total Credits	Credits	N-GPA Credit
IS1208	Systems Analysis and Design	2	2L	
IS1209	Information Technology Project Management	2	2L	
IS1210	Database Systems	3	2L+1P	
IS1211	Computer Networks	3	2L+1P	
IS1212	Probability and Statistics	3	2L+1P	
IS1213	Organizational Behavior	2	2L	
IS1214	Data Structures and Algorithms	3	2L+1P	
EN1203	*Aesthetic Studies*	1	1P	Yes

Year 2 – Semester 1

All Course are Compulsory

Code	Course Name	Total Credits	Credits	N-GPA Credit
IS2201	Group Project [+]	4	4P	
IS2202	Advanced Data Structures and Algorithms	2	2L	
IS2203	Object Oriented Programming	3	2L+1P	
IS2204	Information Systems Security	2	2L	
IS2205	Mobile Application Design and Development	3	2L+1P	
IS2206	Business Process Management	3	2L+1P	
IS2207	Electronics and Physical Computing	3	2L+1P	

[+] Year-long Course Module

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Year 2 – Semester 2

All Course are Compulsory

Code	Course Name	Total Credits	Credits	N-GPA Credit
IS2208	Information Systems Management and Strategy	2	2L	
IS2209	Data Management and Governance	4	3L+1P	
IS2210	Applied Data Science	3	2L+1P	
IS2211	UI/UX Design	3	2L+1P	
IS2212	Cloud Infrastructure and Applications	2	2L	
EN2201	Entrepreneurship	2	2L	Yes

Year 3 – Semester 1

Code	Course Name	Total Credits	Credits	N-GPA Credit	3*	4*
IS3201	Industry Projects +	4	4P		X	
IS3202	Research Methods	2	2L			X
IS3203	Cybercrime, Privacy, and Legislation	2	2L		X	X
IS3204	Enterprise Resource Planning Systems	2	2L		X	X
IS3205	Data Visualization	3	2L+1P		O	X
IS3206	Enterprise Architecture	2	2L		O	O
IS3207	eBusiness and Digital Marketing	2	2L		O	O
IS3208	Middleware Architecture	3	2L+1P		O	O
IS3209	Systems and Network Administration	3	2L+1P		O	O
IS3210	Digital Innovation	2	2L		O	O
IS3211	Operations Research	2	2L		O	O
IS3212	Robotics and Cognitive Systems	3	2L+1P			O

+ year-long course module
O → Optional course for the relevant program
X → Mandatory course
Solid Black Cell → Course not offered to the program
3* → Bachelor of Science in Information Systems
4* → Bachelor of Science Honours in Information Systems

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Year 3 – Semester 2

Code	Course Name	Total Credits	Credits	N-GPA Credit	3*	4*
IS3213	Literature Survey	2	2P			X
IS3214	Professional Practice and Behavior	1	1P		X	X
IS3215	Software Quality Assurance	3	2L+1P		X	
IS3216	Applied Machine Learning	3	2L+1P		X	
IS3217	Social Impact of Information Systems and Ethics	1	1L		X	
IS3218	E-Learning Concepts and Technologies	3	2L+1P		O	
IS3219	Information Technology Audit	2	2L		O	
IS3220	Interactive Media Design	2	2L		O	
IS3221	Contemporary Topics in Software Development	2	2L		O	
EN3201	Industrial Placement	8	8P	Yes		X
EN3202	Business Communication and Soft Skills	1	1P	Yes	X	

O → Optional course for the relevant program
X → Mandatory course
Solid Black Cell → Course not offered to the program
3* → Bachelor of Science in Information Systems
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Year 4 – Semester 1

Code	Course Name	Total Credits	Credits	4*
IS4201	Final Year Project in Information Systems	8+	8P	X
IS4202	Research Seminar	2+	2P	X
IS4203	Data Analytics	3	2L+1P	X
IS4204	Software Quality Assurance	3	2L+1P	X
IS4205	Machine Learning	3	2L+1P	X
IS4206	Advanced Concepts in Software Design and Development	2	2L	O
IS4207	Geographical Information Systems	3	2L+1P	O
IS4208	Natural Language Processing	3	2L+1P	O

+ year-long course module
O → Optional course for the relevant program
X → Mandatory course
4* → Bachelor of Science Honours in Information Systems

Year 4 – Semester 2

Code	Course Name	Total Credits	Credits	4*
IS4209	Business Intelligence Systems	2	2L	X
IS4210	Philosophy of Science and Computational Thinking	1	1L	X
IS4211	Contemporary Topics in Information Systems	2	2L	X
IS4212	Affective Computing	2	2L	O
IS4213	Digital Forensics	3	2L+1P	O
IS4214	Bio-Informatics	2	2L	O

O → Optional course for the relevant program
X → Mandatory course
4* → Bachelor of Science Honours in Information Systems

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