UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

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 (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 Computer Science / Degree of Bachelor of Science Honours in Computer Science / Degree of Bachelor of Science Honours in Software Engineering (Amendment) Regulations No ..... of 2018.

2. These Regulations shall be deemed to have come into effect from January 2018.

Amendment

3. Section 11(b) of 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 of 2013 (hereinafter referred to as the "parent Regulations") is hereby amended by its repeal and replacement by the following Section 11(b):

   "11(b). completed all Academic Credits in the first two academic years and at least **18** Academic Credits in the third academic year."

4. 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 Academic Credits in the first two years, a minimum of **18** Academic Credits in the third academic year and a minimum of 30 Academic Credits in the fourth academic year."

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5. Section 13 of the parent Regulations is hereby amended by its repeal and replacement by the following Section 13:

"13. A Student qualifying for the award of a degree by completing all the relevant requirements, in the first period of registration, shall also be qualified for the award of a class as follows.

(a) First Class – by obtaining a minimum overall GPA of 3.70
(b) Second Class (Upper Division) - by obtaining a minimum overall GPA of 3.30
(c) Second Class (Lower Division) – by obtaining a minimum overall GPA of 3.00."

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

Schedule No.1

Year 1

First Year Courses (All Compulsory)

Semester	Course Code	Course Name	Credits	
			Lecture	Practical
1	SCS 1201	Data Structures and Algorithms I	2L	1P
1	SCS 1202	Programming Using C	2L	1P
1	SCS 1203	Database I	2L	1P
1	SCS 1204	Discrete Mathematics 1	2L	-
1	SCS 1205	Computer Systems	2L	-
1	SCS 1206	Laboratory I	**1L**	**1P**
1	SCS 1207	Software Engineering I	2L	-
1	ENH 1201	Enhancement I (Communication Skills)	1L	-
2	SCS 1208	Data Structure & Algorithm II	2L	1P
2	SCS 1209	Object Oriented Programming	2L	1P
2	SCS 1210	Software Engineering II	2L	-
2	SCS 1211	Mathematical Methods I	2L	-
2	SCS 1212	Foundation of Computer Science	2L	-
2	SCS 1213	Probability and Statistics	2L	-
2	SCS 1214	Operating Systems I	2L	1P
2	ENH 1202	Enhancement II	1L	-

Year 2

Second Year Courses - (All Compulsory)

Semester	Course Code	Course Name	Credits	
			Lecture	Practical
1	SCS 2201	Data Structures and Algorithms III	2L	1P
1 /2	SCS 2202	Group Project I* (2 credits/semester)	-	**4P**
1	SCS 2203	Software Engineering III	**2L**	-
1	SCS 2204	Functional Programming	2L	1P
1	SCS 2205	Computer Networks I	2L	1P
1	SCS 2206	Mathematical Methods II	2L	-
1	SCS 2207	Programming Language Concepts	2L	-
1	SCS 2208	Rapid Application Development	2L	1P
2	SCS 2209	Database II	**2L**	**1P**
2	SCS 2210	Discrete Mathematics II	2L	-
2	SCS 2211	Laboratory II	**2L**	**1P**
2	SCS 2212	Automata Theory	2L	-
2	SCS 2213	Electronics and Physical Computing	2L	1P
2	SCS 2214	Information System Security	2L	-
2	ENH 2201	Enhancement III (Entrepreneurship)	1L	-

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Year 3

Third Year Courses

Semester	Code	Third Year Courses	Credits		BSc Hons in CS	BSc Hons in SE	BSc in CS
			L	P			
1	SCS 3201	Machine Learning and Neural Computing	2	-	X	O	O
1	SCS 3202	Advanced Computer Architecture	1	-	O	O	O
1	SCS 3203	Middleware Architecture	2	1	O	X	O
1	SCS 3204	Management	2	-	O	O	X
1	SCS 3205	Computer Graphics I	2	-	O	O	O
1	SCS 3206	Graph Theory	1	-	X	O	O
1	SCS 3207	Software Quality Assurance	1	1	O	X	X
1	SCS 3208	Software Project Management	2	-	O	X	X
1	SCS 3209	Human-Computer Interaction	2	1	O	X	O
1	SCS 3210	Systems and Network Administration	2	1	O	O	O
1	SCS 3211	Compiler Theory	2	-	X	O	O
1	SCS 3212	Mobile Application Development	2	1	O	O	O
1	SCS 3213	Game Development	1	2	O	O	O
1	SCS 3214	Group project II	0	3	-	-	X
1	SCS 3215	Professional Practice	2	-	X	X	X
1	SCS 3216	Research Methods	0	2	X	O	-
2	ENH 3201	Industry Placement / Industry Project	0	8	X	X	X

Year 4

Fourth Year Courses

Semester	Code	Fourth Year Courses	No: of Credits		CS	SE
			L	P		
1	SCS 4201	Ethical Issues and Legal Aspects in IT	1			
1	SCS 4202	Cognitive Robotics	1	1		
1	SCS 4203	Database III	2	1		x
1	SCS 4204	Data Analytics	2	1		
1	SCS 4205	Computer Networks II	2			
1	SCS 4206	Computer Graphics II	2	1		
1	SCS 4207	Image Processing & Computer Vision	2			
1	SCS 4208	Theory of Computation	2		x	
1	SCS 4209	Natural Language Processing	2	1		
1	SCS 4210	Parallel Computing	2	1		
1	SCS 4211	Research Seminar	0	2	x	
1	SCS 4212	Formal Methods and Software Verification	2		x	x
2	SCS 4213	Digital Forensics	2			
2	SCS 4214	Natural Algorithms	2			
2	SCS 4215	Computational Biology	2	1		
2	SCS 4216	Advanced Topics in Mathematics	1			
2	SCS 4217	Embedded Systems	2	1		
2	SCS 4218	Operating Systems II	2		x	
2	SCS 4219	Distributed Systems	2			
2	SCS 4220	Data Structures and Algorithms IV	2			
2	SCS 4221	Software Engineering IV	2	1		x
2	SCS 4222	Logic Programming	2			
2	SCS 4225	Philosophy of Science	1		x	x
2	SCS 4226	Intelligent Systems	2			
1/2	SCS 4223	Final Year Project in Software Engineering	0	8		x
1/2	SCS 4224	Final Year Project in Computer Science	0	8	x	

Note:

X - compulsory	O - optional/elective	* - offered throughout the year	- not offered

BSc (CS) – BSc in Computer Science
BSc Hons (CS) – BSc Honours in Computer Science
BSc Hons (SE) – BSc Honours in Software Engineering

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