



Applied Science Private University
Faculty of Information Technology
Study Plan for the Bachelor Program in Computer Science
Academic Year 2019-2020
(Graduation Requirements: 132 Credit Hours)



First: University Requirements (24 Credit Hours)					Fourth: Specialization Requirements 81 Credit Hours						
(a) Compulsory: (15 Credit Hours)					(a) Compulsory: (72 Credit Hours)						
Subject Number	Subject Title	Credit Hours			Prerequisites	Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total				Theory	Lab	Total	
100103	Military Sciences*	3	0	3	-	1501120	General Physics (1)	3	0	3	-
1401116	Islamic Education	3	0	3	-	1501121	General Physics Lab (1)	0	2	1	Ⓞ1501120
1401110	Arabic Language (1)**	3	0	3	-	1501130	General Chemistry (1)	3	0	3	-
1401120	English Language (1)**	3	0	3	-	1501131	General Chemistry Lab (1)	0	2	1	Ⓞ1501130
1401152	National Education and Media	3	0	3	-	1301120	Digital Systems	3	0	3	1301111
1401010	Community Service	0	0	0	-	1501210	Calculus (2)	3	0	3	1501110
Total						1301209	Discrete Structures (2)	3	0	3	1301111
(b) University Elective: (9) Credit hours are selected from:						1301203	Data Structures and Algorithms	2	2	3	1301108+1301111
402104	Entrepreneurship in Business	3	0	3	-	1301208	Object-Oriented Programming (2)	2	2	3	1301108
501114	Palastinian Cause & Contemp. Arab History	3	0	3	-	1301306	Basics of Electric Physics	3	0	3	1501121+1301120
602143	Human Rights	3	0	3	-	1301307	Basics of Electric Physics Lab	0	2	1	Ⓞ1301306
602144	Law in our life	3	0	3	-	1302281	Introduction to Software Engineering	3	0	3	1301108
1401117	Islam and Contemporary Issues	3	0	3	-	1301236	Web-Based Programming	2	2	3	1301108
1401118	Ethics in Islam	3	0	3	-	1301224	Microcomputer Systems and Assembly Language	3	0	3	1301120
1211110	Art Education	3	0	3	-	1301222	Computer Organization and Architecture	3	0	3	1301224
1401111	Introduction to Library Science	3	0	3	-	1301304	Visual Programming	2	2	3	1301305
1401130	Sports and Health	3	0	3	-	1301305	Database and Application of Database	2	2	3	1301203
1401131	Introduction to Sociology	3	0	3	-	1301310	Design and Analysis of Algorithms	3	0	3	1301203
1401132	Man and Environment	3	0	3	-	1301315	Theory of Computation	3	0	3	1301203
1401133	Introduction to Psychology	3	0	3	-	1301326	Operating Systems	3	0	3	1301203
1401210	Arabic Language (2)	3	0	3	1401110	1301340	Artificial Intelligence	3	0	3	1301203
1401220	English Language (2)	3	0	3	1401120	1301368	Field Training	0	0	0	Pass. 90Cr. Hrs.
1501113	Arab and Muslim Sciences	3	0	3	-	1301386	Information Systems Analysis and Design	3	0	3	1301305
1501126	First Aid	3	0	3	-	1301411	Information Security	3	0	3	1301336
1501127	Green Energy	3	0	3	-	1301336	Data Communications and Computer Networks	3	0	3	1301326
1501128	Communication and Social Media Technology	3	0	3	-	1301415	Compiler Construction	3	0	3	1301315
1501153	Nutrition in Health and Illness	3	0	3	-	1301491	Graduation Project (1)	0	2	1	Pass. 90 Cr. Hrs. + 1301386
1501154	Health Education	3	0	3	-	1301492	Graduation Project (2)	0	4	2	1301491
1501161	Digital Societies	3	0	3	-	Total					
1401221	Foreign Languages	3	0	3	-			61	22	72	
Second: Faculty Requirements (24) Credit Hours					Ⓞ Concurrence / Simultaneous						
1301106	Structured Programming	2	2	3	-	(b) Elective: (9 Credit Hours)					
1301108	Object-Oriented Programming (1)	2	2	3	1301106	1301301	Selective Programming Language	3	0	3	1301305
1301111	Discrete Structures (1)	3	0	3	-	1301371	Modeling and Simulation	3	0	3	1501212 + 1301203
1301266	Technical Writing and Communication Skills	3	0	3	1401120	1301425	Advanced Operating Systems	3	0	3	1301326
1501110	Calculus (1)	3	0	3	-	1301440	Digital Image Processing	3	0	3	1301310
1301270	Numerical Analysis	3	0	3	1501110	1301461	Machine Learning	3	0	3	1301340
1301150	Linear Algebra	3	0	3	1501110	1301392	Advanced Technologies and Tools in Computer Science	3	0	3	Dept. Approval
1501212	Probability and Statistics	3	0	3	1501110	1301490	Special Topics in Computer Science	3	0	3	Dept. Approval
Total						1302383	Project Management	2	2	3	1302281
* Non-Jordanian students may study any course from university elective instead of the Military Science Course.						1302483	Real-Time and Embedded Systems	3	0	3	1301326
						1302338	Advanced Internet Computing	2	2	3	1301236+ 1301305
						1301442	Data Mining	3	0	3	1301305
						1301455	Computer Graphics	2	2	3	1301310
						1302337	ECommerce	2	2	3	1301108
						1301350	Multimedia Systems	2	2	3	1301236
						1302360	Database Systems Administration	3	0	3	1301305
						1301460	Cloud Computing	3	0	3	Dept. Approval
						1301462	Mobile Computing	3	0	3	Dept. Approval
						1301463	Big Data Analysis	3	0	3	Dept. Approval
** All students are subjected to tests in English, Arabic and Computer Skills. Those who fail in any of the given tests must enroll for remedial course(099) which will be considered out of their study plans.						1301464	User Design Experience	3	0	3	Dept. Approval
					Third: Free Electives (3) Credit Hours						
The student can choose any subject offered by the university faculties											