



# Applied Science University (Private)

Faculty of Information Technology

Study Plan for the Master Program in Computer Science

Academic Year 2018-2019

(Graduation Requirements: 33 Credit Hours)



First: Comprehensive Examination Track			
A. Compulsory Subjects (27 Credit Hours)			
Subject Number	Subject Title	Credit Hours	Prerequisites
7097521	Algorithm Design and Analysis	3	-
7097522	Advanced Operating Systems	3	-
7097523	Cryptography & Data Security	3	-
7097541	Artificial Intelligence and Expert Systems	3	-
7097551	Distributed Computing systems	3	-
7097561	Advanced Database Systems	3	-
7097582	Software Engineering	3	-
7097591	Basics of Scientific Research	3	-
7097597	Project	3	Dept. Approval
B. Elective Subjects (6 Credit Hours)			
The student can choose from the following subjects:			
Subject Number	Subject Title	Credit Hours	Prerequisites
7097543	Machine Learning	3	7097541
7097544	Natural Language Processing	3	-
7097545	Genetic Algorithms	3	7097541
7097562	Data Mining	3	7097561
7097571	Interactive Software Design	3	-
7097572	Advanced Multimedia	3	-
7097573	Image Processing	3	7097521
7097581	Mobile Computing	3	-
7097595	Advanced Topics in Computer Science	3	Dept. Approval
C. Comprehensive Exam ( 0 Credit Hour)			
Student Register Comprehensive Exam After Dept. Approval			
Subject Number	Subject Title	Credit Hours	Prerequisites
7097598	comprehensive exam	0	Passing 33 Credit Hours

Second: Thesis Track			
A. Compulsory Subjects (18 Credit Hours)			
Subject Number	Subject Title	Credit Hours	Prerequisites
7097521	Algorithm Design and Analysis	3	-
7097522	Advanced Operating Systems	3	-
7097523	Cryptography & Data Security	3	-
7097541	Artificial Intelligence and Expert Systems	3	-
7097561	Advanced Database Systems	3	-
7097591	Basics of Scientific Research	3	-
B. Elective Subjects (6 Credit Hours)			
The student can choose from the following subjects:			
Subject Number	Subject Title	Credit Hours	Prerequisites
7097543	Machine Learning	3	7097541
7097544	Natural Language Processing	3	-
7097545	Genetic Algorithms	3	7097541
7097551	Distributed Computing systems	3	-
7097562	Data Mining	3	7097561
7097571	Interactive Software Design	3	-
7097572	Advanced Multimedia	3	-
7097573	Image Processing	3	7097521
7097581	Mobile Computing	3	-
7097582	Software Engineering	3	-
7097595	Advanced Topics in Computer Science	3	Dept. Approval
C. Master Thesis ( 9 Credit Hours)			
Student Register Master Thesis After Dept. Approval			
Subject Number	Subject Title	Credit Hours	Prerequisites
7097599	Master Thesis	9	Dept. Approval

Dept. Head Signature : \_\_\_\_\_

Dean College Signature : \_\_\_\_\_

Date : \_ / \_ / \_

College Stamp: \_\_\_\_\_

◆ This Study Plan is to be followed as of the beginning of the first semester 2013/2014

Updated:1/10/2018