King Hussein School كليـــة
of Computing الملك الحسين
Sciences لعلـــوم الحوسبــــة

Princess Sumaya University for Technology

King Hussein School of Computing Sciences

PhD Computer Science

Study Plan

2016-2015

Curriculum for the Ph.D. in Computer Science
2015/2016

a- Mandatory Requirements (21 Credit Hours):

Course Number	Course Title	Credit Hours	Prerequisite
11911	Scientific Research Methodology	2	-
11912	Research Seminar	1	-
11921	Design and Analysis of Algorithms	3	-
11932	Computer and Network Security	3	-
11941	Advanced Database Systems	3	-
11942	Artificial Intelligence	3	-
11944	Knowledge Discovery and Data Mining	3	-
11951	Advanced Software Engineering	3	-
Total		**21**	

b- Elective Courses (15 Credit Hours):

Course Number	Course Title	Credit Hours	Prerequisite
11913	Statistics and Probabilities for Computing Science	3	-
11914	Advanced Methods in Numerical Analysis	3	-
11922	Theory of Computation	3	-
11923	Programming Language and Compiler Design	3	-
11924	Cryptography	3	-
11926	Graph Theory and Applications	3	-
11931	Distributed Systems	3	-
11933	Advanced Computer Architecture	3	-
11934	Advanced Computer Networks	3	-
11935	Mobile Computing	3	-
11936	Cloud Computing	3	-
11943	Information Retrieval	3	
11945	Natural Language Processing	3	-
11946	Machine Learning	3	-
11947	Big Data Science	3	
11948	Statistical Methods for NLP	3	-
11952	Software System Architecture	3	-
11961	Advanced Digital Image Processing	3	-
11962	Computer Graphics	3	-
11963	Human Computer Interaction	3	-
11971	Selected Topics in Computer Science	3	-

Course Number	Course Title	Credit Hours	Prerequisite
11972	Selected Topics in Computer and Network security	3	-
11973	Independent Study	3	-

c- Qualifying Exam (0 hour)

Course Number	Course Title	Credit Hours	Prerequisite
11998	Qualification Exam	0	Passing the 21 Credit hours of mandatory courses

d- Doctoral Dissertation Research (18 Credit Hours)

Course Number	Course Title	Credit Hours	Prerequisite
11999	Thesis	18	11998