



**Zarqa University**  
**Curriculum / Study Plan for**  
**Master's Degree in Computer Science**  
**PROGRAM Computer Science / Thesis Track**

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**Faculty of Science and Information Technology/ Department of Computer Science**

**GENERAL RULES AND CONDITIONS:** This plan conforms to the regulations of the general frame work set by The Graduate Studies.

**The study plan consists of (33) credit hours as follows:**

**Compulsory Courses:** (18) credit hours as follows:

Course no.	Course title	Cr. Hrs.	Pre-requisite
1306721	Advanced Computer Networks	3	
1306731	Advanced Database Systems	3	
1306751	Applied Algorithms	3	
1306752	Theory of Computation	3	
1306781	Artificial Intelligence Applications	3	

**II. Elective courses:** (9) credit hours to be chosen from one of the following **Subjects:**

Course no.	Course title	Cr. Hrs.	Pre-requisite
1306722	Advanced Topics on Wireless Computer Networks	3	
1306732	Advanced Operating Systems	3	
1306753	Object Oriented Design	3	
1306754	Bioinformatics	3	
1306755	Practical Concepts of Information Security	3	
1306759	Advanced Modeling and Simulation	3	
1306782	Machine Learning	3	
1306784	Expert Systems Design and Implementation	3	
1306785	Data Mining	3	
1306786	Natural Language Processing	3	
1306787	Selected Topics in Computer Science	3	

**III. Thesis:**

Course no.	Course title	Cr. Hrs.	Pre-requisite
1306799	Thesis	9	

**Codes of knowledge fields:**

1. Research 2. 3. 4. 5. 6. 7.  
8. 9. Project / Thesis / Comprehensive

