



Yarmouk University
Faculty of Information Technology and
Computer Sciences

Department of Computer Information
Systems

Study plan for Mater Program in
Computer Information Systems

Thesis Track

2017



First: Admission Requirements

Applicants to the Master program in Computer Information Systems must:

- 1. Hold a Bachelor degree in any of the majors of Information Technology, Computer Science, or Computer Engineering. It is possible also to consider applicants from other disciplines related to information technology.**
- 2. Pass the language requirement to join the program according to Yarmouk University regulations**
- 3. Fulfil any other requirements that are required by Yarmouk University Councils and Committee.**

Second: Maser degree in computer information systems/thesis track is awarded after the completion of the following requirements:

- 1. Fulfillment of the M.Sc. awarding regulations No. (3) for the year 2011.**
- 2. Completion of the remedial and / or prerequisite courses recommended by the Graduate Study Committee in the department.**
- 3. Passing at least 24 credit hours of the 600 level courses (with a minimum GPA of 75%) as follows:**

A. Compulsory courses (24 credits) as follows:

#	Course Code	Course Name	Credit Hours
1	CIS 601	Research Methodology	3
2	CIS 641	Advanced Software Engineering	3
3	CIS 667	Advanced Data Mining	3
4	CIS 660	Data Science	3
5	CIS 687	Advanced Data Security and Privacy	3

B. Elective courses for a total of (9) credits selected from the following groups of courses

#	Course Code	Course Name	Credit Hours
1	CIS 662	Advanced Database Systems	3
2	CIS 668	Advanced data warehousing	3
3	CIS 669	Big Data Management	3
4	CIS 665	Practical Data Analytics	3
5	MIS 682	Business Intelligence and Analytics	3
6	CIS 642	Software Modeling and Design	3
7	CIS 643	Requirement Engineering	3
8	CIS 644	Software Testing and Performance Assessment	3
9	CIS 648	Software Maintenance and Re-engineering	3
10	CIS 646	Aspect Orientation	3
11	CIS 647	Software Reuse	3
12	CIS 683	Web Technology	3
13	CIS 666	Web-Based Information Retrieval Systems	3
14	CIS 633	Advanced Distributed Systems	3
15	CIS 685	Internet of Things: Multimedia Technology	3
16	CIS 686	Social Network Analysis	3
17	CIS 691	Special Topics in Information Systems	3

4. Successfully defending a 9-credit master thesis that complies with the University guidelines. For the registration purposes, Master's Thesis is accredited as follows:

Course Code	Course Name	Credit Hours
CIS 699 A	Master's Thesis	0
CIS 699 B	Master's Thesis	3
CIS 699 C	Master's Thesis	6
CIS 699 D	Master's Thesis	9

