



Hijawi Faculty for Engineering Technology

Computer Engineering Department

Computer Engineering- Embedded Systems- Thesis Track

A. Admission Requirements:

Students wishing to enroll in this program must satisfy the following two conditions:

- Have a bachelor degree in Computer Engineering, Biomedical Engineering, Biomedical Systems Engineering, Medical Informatics Engineering, Electronics Engineering, Communication Engineering, Electrical Engineering, or an equivalent degree. Other degrees are subject to Departmental approval.
- Meeting the English language requirements as outlined by the decisions of the Higher Education Council.

B. Degree Requirements:

1. Meeting the conditions stipulated in the Master program regulations number (3) for the year 2011.
2. Completion of remedial courses recommended by the department graduate studies committee.
3. Studying and successfully passing at least (33) credit hours from the level of (600) and above.

1.Core Courses: (15) credit hours

Course code	Course name	Credit hours
CPE 651	Advanced operating system	3
CPE 654	Embedded system design	3
CPE 652	Advanced computer architecture and organization	3
CPE 656	Design and verification of digital hardware using HDL	3
CPE 657	Real-time embedded systems	3



2. Elective Courses: (9) credit hours

Course code	Course name	Credit hours
ELE 600	Statistical Quality Control	3
ELE 630	Advanced Topics in Instrumentation	3
CPE 611	Principles Of CAD/CAM Systems	2
CPE 612	Advanced Topics in Microprocessor System Design	3
CPE 614	Image Processing and Computer Vision	3
CPE 615	Machine Learning	3
CPE 622	Robotics: Fundamentals And Applications	3
CPE 653	Advanced computer networks	3
CPE 655	Digital system design using FPGAs	3
CPE 690	Seminar	1
CPE 691	Special Topics in Computer Engineering	3
CME 613	Real-Time Signal Processing	3
EPE 631	Micro-Electromechanical Systems	3

3. Preparation of a Master Thesis and passing its defense exam.

The master thesis is (9) credit hours appearing for registration purposes as follows:

Course Code	Course Name	Credit Hours
CPE 699A	Master thesis	0
CPE 699B	Master thesis	3
CPE 699C	Master thesis	6
CPE 699D	Master thesis	9