



Hijjawi Faculty for Engineering Technology

Computer Engineering Department

Computer Engineering- Industrial Automation- Comprehensive Track

A. Admission Requirements:

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

- Holding a bachelor degree in Computer Engineering, Biomedical Engineering, Biomedical Systems Engineering, Medical Informatics Engineering, Electronics Engineering, Communication Engineering, Electrical Engineering or an equivalent degree to any of the preceding degrees. Other fields 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: (24) credit hours

Course code	Course name	Credit hours
CPE 610A	Microcontrollers and PLCs	3
CPE 614	Image processing and computer vision	3
CPE 620A	Digital signal processing and random process	3
CPE 623	System Modeling and Simulation	3
CPE 624	Advanced topics in digital control	3
CPE 626	Manufacturing Automation	3
CPE 642A	Principles of embedded systems	3
CPE 695B	Graduate Project	3



2. Elective Courses: (9) credit hours

Course code	Course name	Credit hours
CPE 611A	Principles of CAD/CAM systems	3
CPE 615	Machine learning	3
CME 621	Advanced linear systems	3
CPE 622	Robotics: fundamentals and applications	3
CPE 646	Principles of Object oriented programming and design	3
ELE 630	Advanced topics in instrumentation	3
ELE 632A	Industrial quality control	3
EPE 634A	Electric drives	3
CPE 670	Artificial intelligence for engineers	3
CPE 691	Special topics in computer engineering	3

- Passing the Comprehensive exam (CPE 698) according to Yarmouk university regulations. The Comprehensive exam accounts for zero credit hours for registration purposes.