

Course Plan for Bachelor program - Course Plan Development and Updating Procedures/ Computer Information Systems Department	QF01/0407-3.0E
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Course Plan for Computer Information Systems (Bachelor Program) No.: (2017-2018)
Approved by Deans Council by Decision (07/72/2016-2017) Dated (30/8/2017)
(133) Credit Hours

Learning Outcomes of the Course Plan

No.	Goals and Learning Outcomes
Goal 1	Enhance and develop the educational process using the latest resources, references, and equipment and employ the electronic learning and enhanced educational tools.
ILO 1.1	Ability to use techniques and supporting tools to find appropriate software solutions.
ILO 1.2	Apply computing and mathematics concepts in the field of Computer Information Systems.
ILO 1.3	Ability to use recent techniques and supporting tools in the E-Learning field.
Goal 2	Stimulate students and support them to learn, advance, research, produce, work, and support scientific and practical studies in the various fields of Computer Information Systems which contribute to the constructive interaction with society.
ILO 2.1	Ability to develop self in continuing education.
ILO 2.2	Ability to analyze and find appropriate software solutions for issues using tools developed in analysis, design and evaluation.
ILO 2.3	Ability to use the methodology of scientific research to solve various problems.
Goal 3	Increase the level of productivity and team work in the students and implant the understanding of professional, ethical, legal, security and social responsibilities within the students.
ILO 3.1	Use communication skills to communicate with others and work within a team to achieve the target.
ILO 3.2	Ability to build, program, analyze, and manage computer systems to suit their requirements.
ILO 3.3	Understand professional, ethical, legal, security and social responsibilities.
Goal 4	Enhance and develop the educational process and employ academic plans that satisfy the needs of society while applying accreditation and quality standards.
ILO 4.1	Ability to use, retrieve, and manage information systems within an information systems environment.
ILO 4.2	Ability to build computer applications and analyze their impact on individuals, institutions and society locally and globally.
ILO 4.3	Ability to cope with the latest developments in the field of Computer Information Systems.
Goal 5	Rely on interaction, integration and specialization in building and preparing qualified and capable professionals in the fields of science and information technology.
ILO 5.1	Ability to develop, build, program, analyze, and manage various computer information systems (Business Information Systems, Electronic Commerce Systems, ERP Systems, and various Smart Information System).
ILO 5.2	Ability to work in the fields of Management of Computer Information Systems, Databases, Web Sites, and Computer Networks.
ILO 5.3	Ability to build, develop, and maintain the computer applications and web pages.

Note: G= Goal, ILO= Intended Learning Outcome
Assign 3-7 ILOs for Each Goal

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Student's Information		Course Number	Course Title	Credit Hours	Theory Hours	Practical Hours	Prerequisite Co-Requirement	Advertisement Plan
Registered	Passed							Semester/Year
First: University Requirements (27) Credit Hours								
A. Mandatory Requirement (15 Credit Hours)								
<input type="checkbox"/>	<input type="checkbox"/>	0420101	Military Sciences	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0420111	Arabic Language (1)	3	3	0	Remedial Arabic Language	1/1
<input type="checkbox"/>	<input type="checkbox"/>	0420121	English Language (1)	3	3	0	Remedial English Language	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0420151	National Education	3	3	0	.....	1/1
<input type="checkbox"/>	<input type="checkbox"/>	0420171	Life Skills	3	3	0	.....	1/1
B. Electives (12) Credit Hours, Minimum (3 Credits From Each Field)								
Field I. Humanitarian Courses								
<input type="checkbox"/>	<input type="checkbox"/>	0420103	History of Jerusalem	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0420112	Islamic Culture	3	3	0	.....	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0420131	Principles of Education	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0420134	Sport and Health	3	2	2	.....	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0420142	Human Civilization	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0420152	Introduction to Sociology	3	3	0	.....	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0501100	Innovation and Entrepreneurship in Business	3	3	0	.....	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0601102	Law in Our Life	3	3	0	.....	1/2
Field II. Scientific Course								
<input type="checkbox"/>	<input type="checkbox"/>	0120111	Information Technology and Society	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0120153	Medicinal Plants	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0301101	First Aid	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0301102	Fundamental of Nutrition	3	3	0	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0906100	Principles of Energy Science	3	3	0	2/2

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Second: Faculty Requirements (21) Credit Hours								
Student's Information		Course Number	Course Title	Credit Hours	Theory Hours	Practical Hours	Prerequisite Co-Requisite	Advertisement Plan
Registered	Passed							Semester/Year
<input type="checkbox"/>	<input type="checkbox"/>	0120117	Introduction to Information Technology	3	3	0	*Remedial Computer Skills	1/1
<input type="checkbox"/>	<input type="checkbox"/>	0120126	Principles of Mathematics and Statistics	3	3	0	.....	1/1
<input type="checkbox"/>	<input type="checkbox"/>	0120110	Principles of Programming	3	2	2	Introduction to Information Technology	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0120118	Professional Skills for Scientific Faculties	3	3	0	.....	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0120261	Web Design	3	2	2	Principles of Programming	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0120127	Linear Algebra	3	3	0	Principles of Mathematics and Statistics	2/1
<input type="checkbox"/>	<input type="checkbox"/>	0120128	Numerical Analysis	3	3	0	Principles of Mathematics and Statistics	3/2
Third: Major Requirements (82) Credit Hours								
A. Mandatory Major Requirements (33) Credit Hours								
<input type="checkbox"/>	<input type="checkbox"/>	0113111	Discrete Mathematics	3	3	0	Introduction to Information Technology	1/2
<input type="checkbox"/>	<input type="checkbox"/>	0113222	Object Oriented Programming	3	2	2	Principles of Programming	2/1
<input type="checkbox"/>	<input type="checkbox"/>	0113241	Databases	3	2	2	Object Oriented Programming	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0113231	Computer Networks	3	3	0	Introduction to Information Technology	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0113212	Data Structure	3	3	0	Object Oriented Programming	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0113342	System Analysis and Design	3	2	2	Databases	3/1
<input type="checkbox"/>	<input type="checkbox"/>	0113323	Visual Programming	3	2	2	Object Oriented Programming	3/1
<input type="checkbox"/>	<input type="checkbox"/>	0113313	Algorithms	3	3	0	Data Structure	3/1

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<input type="checkbox"/>	<input type="checkbox"/>	0113424	Internet Applications Programming	3	2	2	Web Design	3/1
<input type="checkbox"/>	<input type="checkbox"/>	0113343	Object Oriented Analysis and Design	3	2	2	System Analysis and Design	3/2
<input type="checkbox"/>	<input type="checkbox"/>	0113432	Networks Security	3	3	0	Information Security	4/2
B. Mandatory Minor Requirements (34) Credit Hours								
<input type="checkbox"/>	<input type="checkbox"/>	0113251	Management of Electronic Information Systems	3	3	0	Introduction to Information Technology	2/1
<input type="checkbox"/>	<input type="checkbox"/>	0113252	Business Information Systems	3	3	0	Management of Electronic Information Systems	2/2
<input type="checkbox"/>	<input type="checkbox"/>	0113344	Advanced Databases	3	2	2	Databases	3/1
<input type="checkbox"/>	<input type="checkbox"/>	0113325	Database Management Systems	3	3	0	Databases	3/2
<input type="checkbox"/>	<input type="checkbox"/>	0113353	Information Security	3	3	0	Algorithms	3/2
<input type="checkbox"/>	<input type="checkbox"/>	0113354	Data Mining	3	3	0	Advanced Databases	3/2
<input type="checkbox"/>	<input type="checkbox"/>	0113455	Data Warehouses	3	3	0	Advanced Databases	4/1
<input type="checkbox"/>	<input type="checkbox"/>	0113445	Project Management	3	2	2	Object Oriented Analysis and Design	4/1
<input type="checkbox"/>	<input type="checkbox"/>	0113471	Methodology for Building Project	1	0	2	System Analysis and Design	4/1
<input type="checkbox"/>	<input type="checkbox"/>	0113456	Enterprise Resource Planning (ERP)	3	3	0	Business Information Systems	4/2
<input type="checkbox"/>	<input type="checkbox"/>	0113457	Information Retrieval	3	3	0	Advanced Databases	4/2
<input type="checkbox"/>	<input type="checkbox"/>	0113472	Graduation Project	3	0	0	Department Approval	4/2
C. Major Supporting Requirements (6) Credit Hours								
<input type="checkbox"/>	<input type="checkbox"/>	0114251	Basics of Software Engineering	3	3	0	Principles of Programming	2/1
<input type="checkbox"/>	<input type="checkbox"/>	0112231	Digital Logic Design	3	3	0	Discrete Mathematics	2/1
D. Major Electives (6) Credit Hours								
<input type="checkbox"/>	<input type="checkbox"/>	0113326	Software Packages	3	3	0	Introduction to Information Technology	3/1

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<input type="checkbox"/>	<input type="checkbox"/>	0113381	Selected Topics in CIS	3	3	0	Department Approval	3/2
<input type="checkbox"/>	<input type="checkbox"/>	0113358	Information Economy and Knowledge Management	3	3	0	Business Information Systems	3/2
<input type="checkbox"/>	<input type="checkbox"/>	0113427	Mobile Apps Development	3	2	2	Visual Programming	4/1
<input type="checkbox"/>	<input type="checkbox"/>	0113414	Artificial Intelligence and Expert Systems	3	3	0	Algorithms	4/1
<input type="checkbox"/>	<input type="checkbox"/>	0113459	Big Data Management	3	3	0	Information Retrieval	4/1
<input type="checkbox"/>	<input type="checkbox"/>	0113415	Modeling and Simulation of Information Systems	3	3	0	Systems Analysis and Design	4/2
<input type="checkbox"/>	<input type="checkbox"/>	0113446	Cloud Computing	3	3	0	Data Mining	4/2
<input type="checkbox"/>	<input type="checkbox"/>	0113428	Advanced Database Management Systems	3	2	2	Database Management Systems	4/2

Fourth: Free Electives (3) Credit Hours

(Student may choose any course from any course plan at the university unless the student had passed it previously)

❖ Co-requisite

Courses Given to Other Majors

Course Number	Course Title	Credit Hours	Type of Requirement (University Requirements, Faculty Requirements, Supporting Requirements)
0113353	3	Information Security	Supporting courses: Software Engineering / Software Engineering, Computer Science / Computer Science
0113251	3	Management of Electronic Information Systems	Supporting courses: Department of Computer Science / Computer Networks, Department of Computer Science / Multimedia