

Study Plan

Degree : Bachelor

Faculty : Sciences In Aflaj

Hrs : 193

Semester : 441

Dept : Computer Sciences

Plan : Major

Edition : 4

Gender : Both

Major : COM85 Computer Sciences

Council Session :

Deanship Session :

Faculty Session :

Dept Session :

Council Date :

Deanship Date :

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Group Type : 1 إجبارية 1

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First							
Code	Course Name	HR	G	L	H	Requisits	Yrl
IC 101	Introduction of Islamic Culture	2				-	-
MATH 1050	Differential calculus	4				-	-
ENGL 1210	Reading Skills	5				-	-
ENGL 1220	Writing Skills	5				-	-
<b>Total</b>							<b>16</b>

Forth							
Total							17

Fifth							
Code	Course Name	HR	G	L	H	Requisits	Yrl
STAT 1050	Probability and Statistics for Computer Students	4				-	-
CE 1111	Logic Design	4				-	-
CS 2301	Computer Programming 2	5				CS 1301 - / P	-
IS 2511	Fundamentals of Database Systems	4				-	-

Total							17
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Second							
Code	Course Name	HR	G	L	H	Requisits	Yrl
ARAB10 1	Language Skills	2				-	-
MATH 1060	Integral calculus	4				MATH 1050 - / P	-
ENGL 1230	Conversation and listening skills	5				-	-
CT 1400	Computer Skills	3				-	-
<b>Total</b>							<b>14</b>

Sixth							
Code	Course Name	HR	G	L	H	Requisits	Yrl
IC 103	The Foundation Of the Economic System in Islam	2				-	-
ARAB10 3	Arabic Editing	2				-	-
PHYS 1040	General Physics(II)	5				MATH 1060 - / P PHYS 1010 - / P	-
CS 2311	Data Structures	4				CS 2301 - / P	-
CE 2471	Computer Architecture and Assembly language	4				CE 1111 - / P	-

Total							17
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Third							
Code	Course Name	HR	G	L	H	Requisits	Yrl
PHYS 1010	General physics(I)	5				-	-
MC 1400	Communication Skills	2				-	-
ENG 1604	English for Technical Purposes	5				-	-
ENG 1606	English for Academic Purposes	4				-	-
<b>Total</b>							<b>16</b>

Seventh							
Code	Course Name	HR	G	L	H	Requisits	Yrl
MATH 2540	Numerical Methods	4				MATH 2220 - / P	-
CS 3401	Algorithm Design and Analysis	4				CS 2311 - / P	-
CS 3701	Operating Systems	4				CS 2311 - / P	-
CE 3761	Computer Network Systems	4				CE 2471 - / P	-

Total							16
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Forth							
Code	Course Name	HR	G	L	H	Requisits	Yrl
SE 1010		2				-	-
IC 102	The Islam and Society Building	2				-	-
CS 1112	Discrete Mathematics	4				-	-
CS 1301	Computer Programming I	5				-	-
MATH 2220	Linear Algebra for Computer Students	4				-	-

Eighth							
Code	Course Name	HR	G	L	H	Requisits	Yrl
CS 2401	ComputationTheory	4				CS 1112 - / P	-
CS 3501	Introduction to Artificial Intelligence	4				CS 2311 - / P	-
CE 3791	Computer Network Systems	2				CE 3761 - / P	-

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## Group Type : 1 إجبارية

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Eighth						
Code	Course Name	HR	G	L	H	Yrl
	Lab					
CS 3801	Fundamentals of Cyber Security	4				IS 2511 - / P -
<b>Total</b>						<b>14</b>

Code	Course Name	HR	G	L	H	Requisites	Yrl
	computing						
CS 4921	Graduation Project II	3				CS 4912 - / P	-
<b>Total</b>							<b>7</b>

Ninth						
Code	Course Name	HR	G	L	H	Yrl
IC 104	Foundations of the political system in Islam	2				-
SE 2111	Software Engineering Foundations	4				CS 2301 - / P -
CS 3001	Ethical and Professional Practices	3				-
CS 3821	Web Applications Programming	4				IS 2511 - / P -
CS 4552	Machine Learning	4				CS 3501 - / P -
CS 4901	Field Training	3				-
<b>Total</b>						<b>20</b>

Category :

Group Type : 1 إختيارية (16)

Tenth						
Code	Course Name	HR	G	L	H	Yrl
CS 3101	Seminar in Undergraduate Advanced Research	2				-
CS 4311	Advanced Programming	4				CS 2301 - / P -
CS 4321	Programming languages & Compilers	4				CS 2401 - / P -
CS 4654	Digital Image Processing	4				CS 3401 - / P -
<b>Total</b>						<b>14</b>

Code	Course Name	HR	G	L	H	Requisites	Yrl
CS 4912	Graduation Project I	3				CS 3101 - / P	-
CS 4961	Advanced Database Systems	4				IS 2511 - / P	-
<b>Total</b>							<b>7</b>

Code	Course Name	HR	G	L	H	Requisites	Yrl
CS 4841	Parallel and Distributed	4				CS 3701 - / P	-

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Category :

Group Type : 1 إختيارية ( 16 )

Code	Course Name	HR	G	L	H	Requisites	Yrl
SE 3111	Human Computer Interaction	3				CS 3101 - / P	-
SE 4141	Advanced Software Engineering	4				CS 3101 - / P	-
CS 4201	Soft Computing	4				CS 3501 - / P	-
CS 4211	Simulation and Modeling	4				STAT 1050 - / P	-
IS 4231	Geographical Information Systems	4				IS 2511 - / P	-
CS 4411	Information Retrieval Systems	4				IS 2511 - / P	-
CS 4511	Natural Language Processing	4				CS 3501 - / P	-
CS 4531	Neural Networks	4				CS 3501 - / P	-
CS 4561	Pattern Recognition	4				CS 2311 - / P	-
CS 4601	Multimedia Systems Development	4				CS 2311 - / P	-
CS 4621	Computer Vision	4				CS 3501 - / P	-
CS 4641	Computer Arabization	4				-	-
CS 4731	Systems Programming & Administration	4				CS 3701 - / P	-
CS 4741	Computer Systems Performance	4				CS 2311 - / P	-
CE 4742	Cloud Computing	4				CE 3761 - / P	-
CE 4762	Mobile and Wireless Networks	4				CE 3761 - / P	-
CE 4801	Rabotics & Automation	5				CS 3501 - / P	-
CS 4811	Cybercrime	4				CS 3801 - / P	-
CS 4821	Cryptography	4				CS 3801 - / P	-
CS 4831	Mobile Applications Development	4				CE 3761 - / P	-
CS 4851	Computer Network Management	4				CE 3761 - / P	-
CS 4861	Network Security	4				CE 3761 - / P	-
CS 4871	Mobile Network Security	4				CS 3801 - / P	-
CS 4881	Computer Forensics and Investigations	4				CS 3801 - / P	-
CS 4891	Disaster Recovery Planning	4				CS 3801 - / P	-
CS 4931	Special Topics in Computer Science	4				-	-
CS 4941	Computer Science Problems	4				-	-
CS 4951	Professional certificates	4				-	-
CS 4991	Research	4				-	-
<b>Total</b>							<b>116</b>

Free Hrs : 2

P : Pre-requisite

G : GPA level

H : Requisite HRS

C : Co- requisite

MC : Mandatory Co--requisi

NC: None Co- requisite

L : Pre-course Level