

Graduation requirements for the B.Sc. degree are as follows :

1. 21 CH as university requirements
2. 45 CS as college requirements.
3. 74 CS as department requirements.

Semester (1)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
ARAB 101	Arabic Language	3	-	3		
COMP 101/ICDL	Introduction to Computer Applications	-	-	3		
CS 101	Introduction to Computer Programming	2	2	3		
ENGL 101	English Language I	3	-	3		
MATH 101	Calculus I	2	2	3		
PHY 101	Physics I.	2	2	3		
Total				18		

Semester (2)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
CS 102	Structured Programming	2	2	3	CS 101	
ENGL 102	English Language II	3	-	3	ENGL 101	
HUMN 101	Behavior Psychology	3	-	3		
IS 101	Fundamentals of Information Sys.	2	2	3		
MATH 102	Calculus II.	2	2	3	MATH 101	
PHY 102	Phycsis II.	2	2	3		
Total				18		

Semester (3)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
CS 201	Data Structures	2	2	3	CS 102	
ECE 202	Logic Design	2	2	3		
ENGL 201	English Language III	3	-	3	ENGL 102	
HUMN 102	Scientific Thinking	3	-	3		
MATH 241	Linear Algebra	2	2	3		
MATH 251	Discrete Mathematics	2	2	3	MATH 102	

Total			18		
--------------	--	--	-----------	--	--

Semester (4)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
CS 212	Object-Oriented Programming	2	2	3	CS 201	
CS 251	Operating Systems I	2	2	3	CS 201	
ECE 210	Electronics For Computers	2	2	3	ECE 202 PHY 102	
IS 231	Operationa Research	2	2	3	MATH 241	
MATH 301	Applied Prob. and Statistics	2	2	3	MATH 102	
elective course 1	elective course	2	2	3		
Total				18		

Semester (5)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
CS 341	Software Engineering I.	2	2	3	CS 102 IS 101	
IS 311	File Organization	2	2	3	CS 201	
IS 321	Systems Analysis & Design	2	2	3	IS 101	
IS 331	Modeling and Simulation	2	2	3	IS 231	
elective course 2	elective course	2	2	3		
elective course 3	elective course	2	2	3		
Total				18		

Semester (6)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
CS 301	Data Communication and Networking	2	2	3	ECE 202	
IS 312	Introduction to Database	2	2	3	IS 311 MATH 251	
IS 322	Object-Oriented Analysis & Design	2	2	3	CS 212 IS 321	
IS 341	Management of Information Systems	2	2	3	84 CR.	
elective course 4	elective course	2	2	3		
elective course 5	elective course	2	2	3		
Total				18		

Semester (7)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
IS 402	Internet Technologies	2	2	3	102 CR.	
IS 413	Design and Implementation of Database .	2	2	3	IS 312	
IS 431	Decision Support & Expert Systems	2	2	3	IS 231	
IS 498	Senior IS Project I.	1	-	1	99 CR.	
elective course 6	elective course	2	2	3		
elective course 7	elective course	2	2	3		
Total				16		

Semester (8)

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
IS 401	Information Systems Seminar	-	2	1	102 CR.	
IS 409	Selected Topics in Information Systems	2	2	3	102 CR.	
IS 499	Senior IS Project II.	1	4	3	IS 498 99 CR.	
elective course 10	elective course	2	2	3		
elective course 8	elective course	2	2	3		
elective course 9	elective course	2	2	3		
Total				16		

List of Elective Courses:

Course No	Title	Lec	Lab	CR	Pre-requisite	Co-requisite
CHEM 101 E	Chemistry	-	-	3		
CS 211	Concepts of Programming Language	2	2	3	CS 102	
CS 331	Analysis & Design of Algorithms	2	2	3	CS 201 MATH 251	
CS 361	Introduction to Artificial Intelligence	2	2	3	CS 211 MATH 251	
CS 371	Numerical Methods	2	2	3	CS 102 MATH 102 MATH 241	
CS 381	Computer Architechure & Assembly Language	2	2	3	CS 201 ECE 202	
CS 402	Computer Graphics	2	2	3	CS 201 MATH 241	
CS 441	Software Engineering II.	2	2	3	CS 212 CS 341	
CS 442	Software Project	2	2	3	CS 341	

	Management				IS 231	
CS 451	Operating Systems II.	2	2	3	CS 251	
CS 452	Computer Security	2	2	3	CS 251	
CS 481	Pattern Recognition	2	2	3	CS 361 MATH 301	
CS 482	Computer Networks II.	2	2	3	CS 301	
CS 483	Computer Interface and Multimedia Systems	2	2	3	CS 251 CS 381	
CS 484	Parallel Processing	2	2	3	CS 201	
GE 101 E	Introduction to Engineering	-	-	2		
GE 103 E	Engineering Graphics I	-	-	2		
GE 104 E	Engineering Mechanics I	-	-	3		
GE 107 E	Engineering Graphics II	-	-	2		
IS 301	Electronic Commerce	3	-	3	66 CR.	
IS 411	Knowledge-Based Systems	2	2	3	IS 312 MATH 301	
IS 421	Data Analysis	2	2	3	IS 331 IS 341	
IS 441	Management of Information Centres	3	-	3	102 CR.	
IS 451	Information System Development	2	2	3	IS 321	
IS 461	Human - Computer Interaction	2	2	3	102 CR.	
IS 462	Multimedia Information Systems	2	2	3	IS 402	
IS 472	Business Analytics For BI	2	2	3	85 CR.	
IS 476	Predictive Analytics	2	2	3	85 CR.	
IS 481	Introduction to Geographic Information Systems .	2	2	3	85 CR.	
IS 485	Interactive Web Mapping for GIS .	2	2	3	85 CR.	
SPORTS 101 E	Sports culture	2	-	2		