

First Semester		
Course Title	Pre-Req.	Credit
IT Foundations		3
Programming I		4
Mathematics I		3
English I		3
Arabic		2
Semester Credit Hours		15

Second Semester		
Course Title	Pre-Req.	Credit
Programming II		4
Mathematics II		3
English II		3
Int. to Computer Networking		3
Probability and Statistics		3
Semester Credit Hours		16

Third Semester		
Course Title	Pre-Req.	Credit
Int. Artificial Intelligence	IT Foundations	3
Digital and logic design	IT Foundations	3
Communication Skills	20 Cr. Hrs	2
Programming III	Programming II	4
Linear Algebra	Mathematics II	3
Physics	-----	3
Semester Credit Hours		18

Fourth Semester		
Course Title	Pre-Req.	Credit
Data Structures and Algorithms	Programming III	3
System Analysis & Design	Programming II	3
Mathematics and Statistics for AI	Probability and Statistics	3
Computer Architecture	Digital and logic design	3
Introduction to Data Science	Int. Artificial Intelligence	3
Critical Thinking	-----	2
Semester Credit Hours		17

Fifth Semester		
Course Title	Pre-Req.	Credit
Int. to Database Systems	Data Structures and Algorithms	3
Legal & Ethical Issues I	IT Foundations	1
Technical Writing	English II	3
Digital Signal Processing Systems	Physics	3
Operating System	Computer Architecture	3
Digital Image Processing	Linear Algebra	3
Machine Learning	Int. Artificial Intelligence	3
Semester Credit Hours		19

Sixth Semester		
Course Title	Pre-Req.	Credit
Legal & Ethical Issues II	Legal & Ethical Issues I	1
Research Methods	75 Cr. Hrs	2
Security Practice and Principles	Int. to Computer Networking	3
Data Engineering and Analysis	Introduction to Data Science + Mathematics and Statistics for AI	3
Deep Learning	Machine Learning	3
Introduction to Embedded Systems	Operating System	3
Internship	75 Cr. Hrs	----
Semester Credit Hours		15

Seventh Semester		
Course Title	Pre-Req.	Credit
Legal & Ethical Issues III	Legal & Ethical Issues II	1
IT Project Management	None	3
Graduation Project I	95 Cr. Hrs	2
Introduction to Robotics	Introduction to Embedded Systems	3
Computer Vision & Machine Learning	Digital Image Processing + Deep Learning	3
Data Mining and Warehouse	Data Engineering and Analysis	3
Student Selected Course		3
Semester Credit Hours		18

Eighth Semester		
Course Title	Pre-Req.	Credit
Natural Language Processing	Deep Learning	3
Graduation Project II	Graduation Project I	4
Student Selected Course		3
Student Selected Course		3
Elective Course		---
Semester Credit Hours		13

Electives: students must select (3 courses) (9 credits) from the following:

Student selected Courses		
Course Title	Pre-Req.	Credit
Logic and Knowledge Representation	Int. Artificial Intelligence	3
Big Data	Introduction to Data Science + Data Engineering and Analysis	3
Human AI Interaction	Int. Artificial Intelligence	3
Fuzzy Logic Systems	Int. Artificial Intelligence	3
Reasoning and Decision Making	Introduction to Data Science	3
Internet of Things: Foundations and Design	Int. Artificial Intelligence	3
Data Exploration and Visualization	Data Engineering and Analysis + Data Mining and Warehouse	3
Expert Systems	Machine Learning	3