

	Course Data				Prerequest
	Course Name		Course Code	Credit Hours	Course Name
First Term	English I	M	GEN 101	2	
	Social issues and anti-corruption	M	GEN 103	2	
	Mathematics	M	BAS 101	3	
	Discrete Mathematics	M	BAS 102	3	
	Statistics and Probabilities	M	BAS 104	3	
	Introduction to Computers	M	COM 101	3	
	Fundamentals of Information Systems	M	COM 102	3	

19

Second Term	English II(7) Dr. Sarah yahia, Dr. Amira{calling Dr. Sarah Naiem}	M	GEN 102	2	English I
	Logic Design(7) {Engineering} Dr. Roaa	M	COM 104	3	Discrete Mathematics
	Programming(6) Dr.Soha (4), Milad(2)	M	COM 103	3	Introduction to Computers
	Physics(7) Dr. Ayat	M	BAS 103	3	
	Professional Ethics (6) Dr. Osama(5 saturday) - Ahmed Hisham (1)	E	GEN 115	2	
	Creative Thinking(7) Dr. Helal(3) - Dr. Safaa(4)	E	GEN 113	2	
	Fundamentals of Management (6*3) Dr. Sarah shalash, Dr. Nehal	E	BAS 203	3	

Intro Cs, IS,

18

Third Term	Electronics	M	BAS 201	3	Physics
	Algorithms	M	COM 202	3	Programming
	Database System	M	COM 203	3	Fundamentals of Information Systems
	Computer Networks	M	COM 204	3	Introduction to Computers
	Operating Systems	M	COM 205	3	Programming
	Advanced Statistics and Probabilities	E	BAS 202	3	Statistics and Probabilities

18

Fourth Term	Linear Algebra	E	BAS 204	3	Discrete Mathematics
	System Analysis and Design	M	COM 206	3	Fundamentals of Information Systems
	Data Structures	M	COM 207	3	Algorithms
	Internet Technology	E	COM 209	3	Computer Networks
	Artificial Intelligence	E	COM 212	3	Algorithms
	Advanced Programming	E	COM 210	3	Algorithms

18

Fifth Term	Advanced Database	M	DSC 301	3	Database System
	Data management	M	DSC 302	3	Database System
	Database Security	M	DSC 303	3	Database System
	Machine Learning	M	DSC 309	3	Operating Systems
	Basic of AI programming skills	E	DSC 311	3	Artificial Intelligence
	Data analysis algorithms	M	DSC 307	3	Discrete Mathematics

18

Sixth Term	Practical Data Mining	M	DSC 304	3	Advanced Database
	Introduction to Big Data	M	DSC 305	3	Advanced Database

Sixth -	R and Python programming language	M	DSC 306	3	Advanced programming
	Neural Networks and Deep Learning	E	DSC 312	3	Machine Learning
	Technology of Crypto currencies	E	DSC 313	3	Database Security
	Data Visualization	M	DSC 308	3	Advanced Database
					18

Seventh T	Hadoop and Apache Spark essentials	M	DSC 401	3	Introduction to Big Data
	Information Modelling	M	DSC 402	3	Data analysis algorithms
	Knowledgebase Management Systems	M	DSC 404	3	Advanced Database
	Graduation project 1	G	COM 400	3	System analysis and design
	Reinforcement Learning	E	DSC 411	3	Neural Networks and Deep Learning
	Data wrangling	E	DSC 412	3	Data analysis algorithms
					18

Eighth Te	Big Data Analysis	M	DSC 403	3	Hadoop and Apache Spark essentials
	Practical Data Science	M	DSC 405	3	Information Modelling
	Graduation project 2	G	COM 498	3	Graduation project 1
	Practical training - 2	G	COM 499		Level 3 - 55% of credit hours
	Problem Solving & Decision-making Skills	M	GEN 317	2	
					11

متطلبات جامعة	12
متطلبات علوم أساسية	24
متطلبات كلية	39
متطلبات تخصص	57
مشروع تخرج	6
عدد الساعات الاجمالي	138