



كلية علوم الحاسب وتقنية المعلومات | College of Computer Science and Information Technology

AI Study Plan

Batches of 2017- 2018 or before*
(Foundation Year - Science Track)

Year	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
1	ENGL101	General English Language		IP	ENGL101	General English Language		7	
	COMP131	Computer Skills		2	ENGL102	English For Academic and Specific Purpose		3	
	MATH111	Mathematics 1		3	MATH112	Mathematics (2)	MATH111	3	
	LRSK141	Learning & Searching Skills		2	COMP122	Computer Applications		3	
	PHEDU162	Physical Education		1	STAT132	Statistics		3	
					LRSK142	Communication Skills		2	
	Total				8	Total			
2	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
	CIS211	Fundamentals of Information Systems		3	CS221	Fundamentals of Programming	CS211	3	
	CS211	Introduction to Computing		3	CS222	Electronics	PHYS212	4	
	MATH211	Calculus		3	STAT207	Introduction to Statistics and Probability Theory	STAT132	3	
	PHYS212	Physics		4	BIOL222	Biology		4	
	ISLM271	Faith Moral		2	ISLM272	Social System in Islam		2	
Total				15	Total				16
3	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
	CIS313	Technical Reports		2	CS310	Data Structure	CS211	2	
	MATH301	Discrete Mathematics	STAT207	3	CIS321	Database Concepts and Design	CIS211	3	
	CS311	Object Oriented Programming 1	CS221	3	CS321	Object Oriented Programming 2	CS311	3	
	CS314	Digital Hardware	CS222	3	CIS326	IT Infrastructure Management	CIS315	3	
	CIS315	Communication and Network Fundamentals	CIS211	3	MGMT320	Principles of Management		3	
ISLM273	The Economic System in Islam	ISLM272	2	CIS413	Professional Responsibility		2		
Total				16	Total				16



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	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
4	CS322	Operating Systems	CS314	3	MATH403	Mathematical Foundations for AI	MATH402	3	
	ARTI401	Artificial Intelligence: Principles and Techniques		3	ARTI404	Image Processing		3	
	MATH402	Linear Algebra	MATH301	3	ARTI406	Machine Learning	ARTI402	3	
	ARTI402	Programming for AI	CS311	3	ARTI407	Robotics and Intelligent Systems	ARTI401 ARTI402	3	
	CS411	Software Engineering	CS311 CIS211	3	CIS425	Computer Data Security and Privacy	CIS315	3	
	CS412	Algorithm Analysis and Design	MATH301 CS310	3					
	Total				18	Total			
Summer	ARTI 444 - Cooperative Field Training (COOP)							3	
5	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
	ARTI511	Project Proposal	CS411	2	ARTI521	Project Implementation	ARTI511	3	
	ARTI501	Natural Language processing		3	ARTI506	Data Science and Analytics		3	
	ARTI502	Deep Learning	ARTI406	3		Elective Course 1		3	
	ARTI503	Parallel Computer Architecture and Programming	ARTI406	3		Elective Course 2		3	
	ARTI504	Knowledge Representation and Reasoning		3					
	ISLM274	Political System in Islam		2					
Total				16	Total				12
Total Credits						156			



وزارة التعليم
Ministry of Education
043

جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

المملكة العربية السعودية
Kingdom of Saudi Arabia

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Elective Courses

Course #	Course Title	Credit Hours	Contact hours	Prerequisite
ARTI 551	Advanced Functional Programming	3	4	ARTI 402
ARTI 553	Game Theory	3	3	STAT 207
CIS 517	Data Mining and Data warehousing	3	4	
ARTI 556	Design of problem solvers	3	4	ARTI 401
ARTI 557	Selected Topics in AI	3	3	-
ARTI 558	Computer Graphics and Applications	3	4	-
ARTI 559	Soft Computing	3	3	ARTI 406
ARTI 560	Computer Vision and applications	3	4	ARTI 404