



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

AI Study Plan

Batches of 2018- 2019 to 2021-2022*
(Foundation Year - Science Track)

Year	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
1	ENGL 101	General English Language		IP	ENGL-101	General English Language		7
	MATH 111	Mathematics (1)		3	ENGL-102	English for Academic and Specific Purpose		3
	ARAB 182	Arabic Language Skills		2	ISLAM 181	Creed and Family in Islam		2
	LRSK 141	Learning and Searching Skills		2	MATH 112	Mathematics (2)	MATH111	3
	COMP 131	Computer Skills		2	LRSK 142	Communication Skills		2
	PHEDU 162	Physical Education		1	COMP 122	Computer Applications		3
					STAT 132	Statistics		3
		Total			10	Total		
2	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	CIS 211	Fundamentals of Information Systems		3	STAT 207	Introduction to Statistics and Probability Theory	MATH 211	3
	CS 211	Introduction to Computing		3	CS 221	Fundamentals of Programming	CS 211	3
	HIST 281	History and Civilization of KSA		2	CS 222	Electronics	PHYS 212	4
	PHYS 212	Physics		4	BIOL 222	Biology		4
	MATH 211	Calculus		3	ISLM 282	Islamic Ethics and Values		2
	Total			15	Total			16
3	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	CIS 313	Technical Reports		2	CS 321	Object Oriented Programming 2	CS 311	3
	CIS 315	Communication and Network Fundamentals	CIS 211	3	CIS 326	IT Infrastructure Management	CIS 315	3
	CS 311	Object Oriented Programming 1	CS 221	3	CIS 321	Database Concepts and Design	CIS 211	3
	CS 314	Digital Hardware	CS 222	3	CS 310	Data Structure		2
	MATH 301	Discrete Mathematics	STAT 207	3	MGMT 320	Principles of Management		3
BUS 381	Entrepreneurship		2	CIS 314	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	CS 322	Operating Systems	CS 314	3	MATH 403	Mathematical Foundation for AI	MATH 402	3	
	ARTI 402	Programming in AI	CS 311	3	CIS 425	Computer Data Security and Privacy	-	3	
	MATH 402	Linear Algebra		3	ARTI 406	Machine Learning	ARTI 402	3	
	CS 412	Algorithm Analysis and Design	MATH 301	3	ARTI 407	Robotics and Intelligent Systems	ARTI 401, ARTI 402	3	
	ARTI 401	Artificial Intelligence Principles		3	ARTI 404	Image Processing		3	
	CS 411	Software Engineering	CS 321, CIS 321	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	
	ARTI 511	Project Proposal	CS 411	2	ARTI521	Project Implementation	ARTI511	3	
	ARTI 501	Natural Language Processing		3	ARTI506	Data Science and Analytics		3	
	ARTI 502	Deep Learning	ARTI 406	3		Elective Course 1		3	
	ARTI 503	Parallel Computer Architecture & Programming	CS 322	3		Elective Course 2		3	
	ARTI 504	Knowledge Representation and Reasoning		3					
Total				14	Total				12
Total Credits					158				



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