

Guidance plan for students of Bachelor of Data Science and AI

First Year					
First Semester			Second Semester		
Course No.	Course Name	Credit Hr.	Course No.	Course Name	Credit Hr.
-	University Req.	3	-	University Req.	3
-	University Req.	3	-	University Req.	3
-	University Req.	3	908100	Data Science Foundations	3
901110	Computer 2 for IT students	3	901210	Object oriented programming	3
901111	Computer 2 for IT students Lab.	1	901214	Object oriented programming Lab.	1
			401101	Calculus 1	3
Total		13	Total		16

Second Year					
First Semester			Second Semester		
Course No.	Course Name	Credit Hr.	Course No.	Course Name	Credit Hr.
-	University Req.	3	-	University Req.	3
401237	Probability and Statistics	3	-	Department Req.	3
904233	Principles of information systems	3	904341	System Analysis and Design	3
901200	Discrete Mathematics	3	908101	Statistics for Data Science	3
-	Department Req.	3	901240	Data Structure	3
			901325	Computer Networks	3
Total		15	Total		18

Third Year					
First Semester			Second Semester		
Course No.	Course Name	Credit Hr.	Course No.	Course Name	Credit Hr.
901332	Operating Systems	3	901470	Artificial Intelligence and Expert Systems	3
908102	Visualizing Data and Exploring	3	-	Dept. elective course	3
901330	Databases	3	908302	Data Science programming using R Language	
901340	Analysis and Design of Algorithms	3	902432	Data Mining	3
902350	Web Page Design	3	901341	Software Engineering	3
902354	Web Page Design Lab.	1	908402	Data Engineering	3
Total		16	Total		18

Summer Semester			
	901498	Field Training-	3
		Total	3

Fourth Year					
First Semester			Second Semester		
Course No.	Course Name	Credit Hr.	Course No.	Course Name	Credit Hr.
-	Dept. elective course	3	-	Dept. elective course	3
908401	Deep Learning	3	-	University Req.	3
908201	Big Data	3	908303	Machine Learning	3
902450	Electronic Commerce and Electronic Government	3	908304	Natural Language Processing	3
-	University Req.	3	908408	High Performance Computing	3
908499	Graduation Project	3			
	Total	15		Total	15