



Second year			
Code	Course details	Other information	
Course code	Course Name Course structure Instructor name(s)	Mention if Minor Mention if compulsory for other major students	
DSC 311	Mathematical Statistics [3003]	Minor for batch 24	
DSC 312	Optimization Techniques [2002]		
DSC 313	Database Management System [3003]		
DSC 314	Data Structures [3003]	Minor for batch 23	
DSC 315	Computer Organization and Operating System [3003]		
DSC 316	Machine Learning I [3003]		
DSC 317	Data Structures Lab [0021]		
DSC 318	Mathematical Statistics Lab [0021]		
IDC222	Scientific Computing and Data Visualisation [0031]		

Third year			
Code	Course details	Other information	
Course code	Course Name Course structure Instructor name(s)	Mention if Minor Mention if compulsory for other major students	
DSC 411	Probability Theory and Stochastic Processes [3 0 0 3]		
DSC 412	Scientific Computing [3 0 3 4]		
DSC 413	Data Warehousing & Business Intelligence [3 0 0 3]		
DSC 414	Advanced Artificial Intelligence [3 0 0 3]		
DSC 415	Data Science Lab-II [1 0 3 2]		
	Open Elective II	Any GE course offered from any other school except SoD for 3rd year DSC students	

Fourth year			
Code	Course details	Other information	
Course code	Course Name Course structure Instructor name(s)	Mention if Minor/Open- elective Mention if compulsory for other major students	
DSC 421/ DSC 6109	Big Data Analytics [2 0 3 3]	4th year BSMS DSC students, PhD students in DSC	
DSC 422	Humans and Data [1 0 0 1]		
DSC 423	Gambler's Ruin Problem [3 0 0 3]	4th year BSMS DSC students, PhD students in DSC	
DSC4101/ DSC 6108	Survival Analysis [3 0 0 3]	Elective 4th year BSMS DSC students, PhD students in DSC	
DSC4106/ DSC 6106	AI and Medical Imaging [3 0 0 3]	Elective 4th year BSMS DSC students, PhD students in DSC	

Only fifth year				Only PhD		
Code	Course details	Other information		Code	Course details	Other information
Course code	Course Name Course structure Instructor name(s)	Mention if Minor/Open-elective Mention if compulsory for other major students		Course code	Course Name Course structure Instructor name(s)	Mention if Minor/Open-elective Mention if compulsory for other major students
				DSC 6101	Advanced Artificial Intelligence [3 0 0 3]	
				DSC 6106	AI and Medical Imaging [3 0 0 3]	
				DSC 6108	Survival Analysis [3 0 0 3]	
				DSC 6109	Big Data Analytics [2 0 3 3]	
				DSC 411	Probability Theory and Stochastic Processes [3 0 0 3]	