Study Plan

This degree required from the student to complete 36 CH in one of two options thesis or applied project

First Year – First Semester (9 Credit Hours)			
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**
MCS691	Scientific Research Methodology	3	-
MCS611	Advanced Analysis and Design of Algorithms	3	-
MCS612	Advanced Database Systems	3	-
First Year – Second Semester (9 Credit Hours)			
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**
MCS613	Advanced Operating Systems	3	-
MCS624	Advanced Artificial Intelligence	3	-
MCS631	Advanced Computer Networks	3	-

Second Year: Option 1 Applied Project

Second Year – First Semester (9 Credit Hours)			
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**
MCS625	Data Driven Decision Making	3	-
MCS642	Cybersecurity	3	-
-	Elective Course 1	3	-
Second Year – second Semester (9 Credit Hours)			
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**
-	Elective Course 2	3	-
MCS698	Applied Project	6	MCS691 + Pass 75% of the study plan courses

Second Year: Option 2 Thesis

Second Year – First Semester (9 Credit Hours)			
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**
MCS642	Cybersecurity	3	-
-	Elective Course 1	3	-
-	Elective Course 2	3	-
Second Year – second Semester (9 Credit Hours)			
Course Code	**Course Title**	**Credit Hours**	**Prerequisite**
MCS699	Thesis	9	MCS691 + Pass 75% of the study plan courses

Programme Elective Courses

Course Code	Course Title	Credit Hours	Prerequisite
MCS614	Advanced Software Engineering	3	
MCS621	Big Data Analytics	3	
MCS622	Data Mining and Analysis	3	
MCS623	Machine Learning	3	
MCS632	Cloud Computing and Internet of Things	3	
MCS643	Advanced Cryptography and Network Security	3	
MCS692	Selected Topics in Computer Science	3	Dept Approval