

First Semester	Code	Course name	NQF Level	Prerequisite	Credit hour	Contact Hours	
						L	Lab
	CSC601	Advanced Algorithms	9		3		
	CSC602	Advanced Operating Systems	9		3		
	CSC603	Advanced Computer Networks	9		3		
	CSC604	Research Methodology	9		3		
	Total				12		

Second Semester	Code	Course name	NQF Level	Prerequisite	Credit hour	Contact Hours	
						L	Lab
	CSC XXX	Elective course	9		3		
	CSC XXX	Elective course	9		3		
	CSC XXX	Elective course	9		3		
	CSC XXX	Elective course	9		3		
	Total				12		

Third /Fourth Semester	Code	Course name	NQF Level	Prerequisite	Credit hour	Contact Hours	
						L	Lab
	CSC699	Thesis	9	24 Credits	6		
	Total				6		

Elective courses	Artificial Intelligence track						
	Code	Course name	NQF Level	Prerequisite	Credit hour	Contact Hours	
						L	Lab
	CSC610	Mathematics for Machine learning	9	CSC601	3		
	CSC611	Natural Language Processing	9	CSC601	3		
	CSC612	Advanced Artificial Intelligence	9	CSC601	3		
	CSC613	Data Science and Machine Learning	9	CSC601	3		
	CSC680	Special Topics in AI	9	CSC601	3		
	Total				12		

Elective courses	Cybersecurity track						
	Code	Course name	NQF Level	Prerequisite	Credit hour	Contact Hours	
						L	Lab
	CSC620	Managing Information Security	9	CSC603	3		
	CSC621	Cybersecurity Risk Analysis	9	CSC603	3		
	CSC622	Penetration Testing and Ethical Hacking	9	CSC603	3		
	CSC623	Advanced Digital Forensics	9	CSC603	3		
	CSC690	Special Topics in Cybersecurity	9	CSC603	3		
	Total				12		