

1. COURSE REQUIREMENT AND SCHEDULE (MSC IN COMPUTER AND INFORMATION SECURITY)

1.1 Course Requirement*

1.1.1 Core Courses

Students must take and pass all of the following courses. Note that four credit hours course in a Term system (12 weeks that makes it $4 \times 12 = 48$) is equivalent to 3 credit hours in a Semester system (16 weeks that makes it $3 \times 16 = 48$). Therefore, the total credit hours for completion of the programme should be 40 in a Term system that is 30 in a semester system.

Course Code	Course Title	Prerequisites	Cr. Hrs	Lab Hours
CIS 606	Research Methods	None	2	-
CIS 611	Introduction to Information Systems Security	None	4	2
CIS 660	Computer Networks	None	4	2
CIS 624	Applied Cryptography	CIS 611	2	-
CIS 636	Network Infrastructure Security	CIS 660	4	2
CIS 648	Web Application Security	CIS 611	4	-
CIS 657	Incident Response and Digital Forensics	CIS 611, CIS 636	4	2
Total			24	

1.1.2 Elective Courses

Students must take and pass a minimum of 16 credit hours of courses from the following list.

Course Code	Course Title	Prerequisites	Cr. Hrs	Lab Hrs
CIS 737	Intrusion Detection and Prevention	CIS 636	2	-
CIS 760	Operating Systems Security	None	4	2
CIS 702	Project Management	None	4	-
CIS 703	Selected Topics in Information Security	None	2	-
CIS 740	Secure Software Development	CIS 611	4	-
CIS 731	Malware Analysis and Reverse Engineering	CIS 636	4	2
CIS 755	Information Security Risk Management	CIS 611, CIS 636	2	-
CIS 771	Research Project	All Core Courses	9	
CIS 772	Thesis	All Core Courses	9	

* Please refer to Annex A for course number coding convention.

1.2 Course Schedule

Year I				Year II		
Term I	CIS 660	Computer Networks	4	CIS 7xx	Electives	8
	CIS 611	Introduction to Information Systems Security	4			
	Total		8			8
Term II	CIS 636	Network Infrastructure Security	4	CIS 7xx	Electives	8/9
	CIS 624	Applied Cryptography	2			
	CIS 606	Research Methods	2			
	Total		8			8/9
Term III	CIS 657	Incident Response and Digital Forensics	4	CIS 771/2	Project/Thesis (if any)	9
	CIS 648	Web Application Security	4			
	Total		8			9*

* This should not be added to the total number of credit hours since it is a continuation of the previous term.