

**Foundation Courses\***

Course	Code	Course Title	Lec.	Lab.	Cre.	Prerequisite
ITFN	500	Object Oriented Programming	3	0	3	
ITFN	502	System Architecture	3	0	3	

\* 1. If any student registered foundation course(s) according to the admission requirements, he/she must received a grade of B or more in all foundation courses he/she registered. 2. The grades of the foundation courses are not considered in the CGPA. 3. These courses are not considered as part of the MITCS programme.

**Semester One**

Course	Code	Course Title	Lec.	Lab.	Cre.	Prerequisite
ITCS	514	Object Oriented Software Engineering	3	0	3	
ITCS	527	Advanced Networking	3	0	3	
ITCS	511	Advanced Database Systems	3	0	3	

**Semester Two**

Course	Code	Course Title	Lec.	Lab.	Cre.	Prerequisite
ITCS	509	Artificial Intelligence	3	0	3	
ITCS	528	Cyber Security	3	0	3	
ITCS	550	Research Methods & Modeling	3	0	3	Completion of at least 9 credits

**Semester Three**

Course	Code	Course Title	Lec.	Lab.	Cre.	Prerequisite
ITCS/MS	5xx	Elective I	3	0	3	
ITCS/MS	5xx	Elective II	3	0	3	

**Dissertation\* (12 Credits)**

Course	Code	Course Title	Lec.	Lab.	Cre.	Prerequisite
ITCS	599	Dissertation in Information Technology & Computer Science	0	24	12	Successfully completed at least 21 credit hours including ITCS 550. Received a grade of B or more in ITCS 550. 3. Attained a CGPA of at least 3.0.

Elective Courses (6 Credits: two courses to chosen from the following list of elective courses)						
Course	Code	Course Title	Lec.	Lab.	Cre.	Prerequisite
ITCS	529	Parallel and Distributed Systems	3	0	3	
ITCS	515	Business Intelligence	3	0	3	
ITCS	518	Mobile Application Development	3	0	3	
ITCS	520	Big Data Analytics	3	0	3	ITCS 511
ITCS	526	Cloud Computing	3	0	3	
ITCS	535	Internet of Thing (IoT)	3	0	3	
ITCS	538	Machine Learning	3	0	3	ITCS509
ITCS	539	Digital Forensics	3	0	3	ITCS528
ITCS	540	Advanced IT Project Management	3	0	3	
ITCS	541	Advanced AI Applications	3	0	3	ITCS509