

**Master of Science with specialization in Telecommunications
and Networks Systems Administration**
30 credits

The program provides students with an in-depth knowledge of the principles of a Converged Networks including design, implementation, security and management with a strong hands-on approach.

Required Courses			
Course	Title	Credits	Pre-requisite
TCOM 500	Applied Mathematics in Telecommunications (admission req.)	3	
TCOM 513	IT Project Management	3	Admission to program
TCOM 503	Introduction to TCP/IP	3	Admission to program
CYBR 501	Network Security I	3	
CYBR 502	Computer Security I	3	
TCOM 514	Telecommunications Governance I	3	
TCOM 606 or TCOM 609	Network Design Project Thesis II	3	Permission of Project Advisor
TOTAL		21	
Elective Courses (9 crs) (Select one area)			
Course	Title	Credits	Pre-requisite
Internet (9crs)			
TCOM 511	Internet Technologies	3	TCOM 503
TCOM 512	Introduction to Networks	3	TCOM 511
TCOM 521	Networking Fundamentals	3	As required by advisor
TCOM 556	IP Tel & Design and Implementation of Voice Networks	3	TCOM 503
TCOM 523	Wireless Networks	3	TCOM 503
Network Securities (9crs)			
CYBR 521	Network Security II	3	CYBR 501
CYBR 522	Computer Security II	3	CYBR 502
CYBR 600	Cyber Security Forensics	3	CYBR 502
Telecommunications Governance & Auditing (9 crs)			
TCOM 515	Telecommunications Governance II	3	TCOM 514
TCOM 522	Telecommunications Management and Policy	3	TCOM 513
TCOM 524	Technological & Scientific Innovation	3	
TOTAL CREDITS		30	