NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND
CHUMUKEDIMA, DIMAPUR – 797 103

M.Tech Degree Programme
Curriculum

Regulations 2016

Master of Technology in Communication Engineering

Overall Course Structure

Category	Total No. of Courses	Credits	Percentage
Core Courses	11	35	49
Project and Comprehensive Viva-Voce	3	19	26
Electives	6	18	25
TOTAL	20	72	100

Course Credits - Semester Wise

PG Course	I	II	III	IV	TOTAL
Communication Engineering	22	21	17	12	72

Semester I

Course Code	Course Title	L	T	P	C
MA501	Applied Mathematics	3	1	0	4
CM501	Advanced Digital Communication Techniques	3	0	0	3
CM502	Information and Coding Theory	3	0	0	3
CM503	Communication Networks and Protocols	3	0	0	3
CM504	Wireless Communication	3	0	0	3
CM913	Elective-I	3	0	0	3
CM506	Communication System Simulation Laboratory	0	0	4	3
TOTAL		**18**	**1**	**4**	**22**

Semester II

Course Code	Course Title	L	T	P	C
CM551	Detection and Estimation Theory	3	0	0	3
CM552	Advanced Signal Processing	3	0	0	3
CM553	Radio Frequency Integrated Circuits and Systems	3	1	0	4
CM9XX	Elective – II	3	0	0	3
CM915	Elective-III	3	0	0	3
CM908	Elective – IV	3	0	0	3
CM554	Communication System Design Laboratory	0	0	3	2

TOTAL	18	1	3	21

Semester III

Course Code	Course Title	L	T	P	C
CM601	Software Defined Radio Systems	3	1	0	4
CM9XX	Elective – V	3	0	0	3
CM9XX	Elective – VI	3	0	0	3
CM602	Comprehensive Viva-Voce	0	0	2	1
CM603	Project Phase I	0	0	12	6
	TOTAL	**9**	**1**	**14**	**17**

Semester IV

Course Code	Course Title	L	T	P	C
CM651	Project Phase II	0	0	24	12
	TOTAL	**0**	**0**	**24**	**12**

ODD SEMESTER ELECTIVES

Course Code	Course Title	L	T	P	C
CM901	Statistical Signal Processing	3	0	0	3
CM902	Fibre Optic Networks	3	0	0	3
CM903	CDMA Engineering	3	0	0	3
CM904	Multimedia Communication	3	0	0	3
CM905	Mobile Adhoc Networks	3	0	0	3
CM906	Wireless Sensor Networks	3	0	0	3
CM907	Internet of Things	3	0	0	3
CM908	Mobile Communication	3	0	0	3
CM909	Telecom Switching Systems and Networks	3	0	0	3
CM911	Intelligent Networks	3	0	0	3
CM912	Communication Network Security	3	0	0	3
CM913	Advanced Network Communication	3	0	0	3
CM914	FPGA Based System Design	3	0	0	3
CM915	Speech Processing and Coding	3	0	0	3

EVEN SEMESTER ELECTIVES

Course Code	Course Title	L	T	P	C
CM951	Mobile and Pervasive Computing	3	0	0	3
CM952	Communications Network Security	3	0	0	3
CM953	Advanced Radiation Systems	3	0	0	3
CM954	Microwave Communication	3	0	0	3
CM955	Hardware Software Co-Design	3	0	0	3
CM956	Satellite Communication	3	0	0	3
CM957	Error Control Codes	3	0	0	3
CM958	MIMO Communication Systems	3	0	0	3
CM959	Internetworking Technologies	3	0	0	3
CM960	Broadband Networks	3	0	0	3
CM961	Mobile Application Development	3	0	0	3
CM962	Energy Resources for Communication Systems	3	0	0	3