Department of Electronics and Communication Engineering,
Faculty of Engineering and Technology, Jamia Millia lslamia, New Delhi-110025

M. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE
UNDER THE CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from July 2016

Codes for nature of courses
L: Lecture courses
P: Laboratory Based courses

Category of Courses

CBCS: Choice based Credit System

Weightage for Course Evaluation
L Lecture T Tutorial P Practical CCA Continuous Class Assessment
MTE Mid Term Exam

M. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING-I YEAR

	First Semester											
S.No.	Course No.	Course Name	Type of Course	Credit	Periods Per week			Examination Scheme (Distribution of Marks)				
								Mid Semester Evaluation			End Semester Evaluation	Total Marks
					L	**T**	**P**	CCA	MTE-1	MTE-2		
01	MEC-101	Random Variables & Stochastic Processes		4	3	1	0	10	15	15	60	100
02	MEC-102	Low Power VLSI Design	**CBCS**	4	3	l	0	10	15	15	60	100
03	MEC-103	Telecommunication Switching & Networks		4	3	l	0	10	15	15	60	100
04	Elective-I	Elective – I		4	3	1	0	10	15	15	60	100
PRACTICAL (LAB.)												
05	MEC-151	Advanced VLSI Lab		2	**0**	**0**	2	30	0	0	20	50
06	MEC-152	Advanced Communication Systems Lab		2	**0**	**0**	2	30	0	0	20	50
		Total		**20**								**500**
	Second Semester											
01	MEC-201	3G/4G Networks & Convergence		4	3	1	**0**	10	15	15	60	100
02	MEC-202	Advanced Digital Signal Processing	**CBCS**	4	3	1	**0**	10	15	15	60	100
03	MEC-203	Modern Instrumentation & Sensors		4	3	1	0	10	15	15	60	100
04	Elective-II	Elective – II		4	3	1	0	10	15	15	60	100
PRACTICAL (LAB.)												
05	MEC-251	Microwave & Optical Communication Lab		2	0	0	2	30	0	0	20	50
06	MEC-252	Digital Signal Processing Lab		2	0	0	2	30	0	0	20	50
		Total		**20**	**Total**							**500**

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M. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING -II YEAR

	Third Semester											
S.No.	Course No.	Course Name	Type of Course	Credit	Periods Per week			Examination Scheme (Distribution of Marks)				
								Mid Semester Evaluation			End Semester Evaluation	Total Marks
					L	**T**	**P**	CCA	MTE-1	MTE-2		
01	MEC-301	Advanced Signal Processing	**CBCS**	4	3	l	0	10	15	15	60	100
02	Elective-III	Elective – III		4	3	l	0	10	15	15	60	100
PRACTICAL (LAB./MINOR PROJECT)												
03	MEC-351	Seminar		6	-	-	6	90	0	0	60	150
04	MEC-352	Minor Project		10	-	-	10	150	0	0	100	250
Total				**24**								600
	Fourth Semester											
01	MEC-401	Dissertation		16	0	0	**16**	240	0	0	160	400
	Total			**16**							**Total**	**400**

Elective – I
MEC-104 Digital Image Processing
MEC-105 Information Theory and Coding
MEC-106 Nanoelectronics & Devices
Elective – II
MEC-204 Advanced Computer Networks
MEC-205 FPGA Based System Design
MEC-206 Secure Communication
Elective – III
MEC-302 Modern Digital Communication Systems
MEC-303 Advanced Optical Communication
MEC-304 Advanced Embedded Systems