Department of Electronics and Communication Engineering Jamia Millia Islamia B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE UNDER THE CHOICE BASE CREDIT SYSTEM (CBCS)

Codes for nature of courses

L: Lecture courses

P: Laboratory Based courses

S: Seminar/ Independent Study

Category of Courses DC:Departmentalcourses CBCS: Choice based Credit System

Weight age for Course Evaluation

L Lecture T

MTE Mid Term Exam

Practical

CCA Continuous Class Assessment

B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING-II YEAR

Ρ

Tutorial

Third Semester																
S.No		Type	Cre	Periods		Examination Scheme (Distribution of Marks)										
	Course	Course Name	of Course	edit	Per week			Mid Se Evalua	emest ation	er	End					
	No.				L	Т	Р	CCA	M TE -1	M T E- 2	Semester Evaluation	Total Marks				
01	ECS-301	Engineering Mathematics	-	4	3	1	-	10	15	15	60	100				
02	ECS-302	Analog Electronics-I	-	4	3	1	-	10	15	15	60	100				
03	ECS-303	Circuit Analysis and Synthesis	-	4	3	1	-	10	15	15	60	100				
04	ECS-304	Principles of Measurements and Machines	-	4	3	1	-	10	15	15	60	100				
05	ECS-305	Logic Design	CBCS	4	3	1	-	10	15	15	60	100				
PRAC	PRACTICAL (LAB.)															
06	ECS-310	Analog Electronics-I	-	2	-	-	4	10	10	10	20	50				
07	ECS-311	Circuit Simulation Lab	-	2	-	-	4	10	10	10	20	50				
08	ECS-312	Logic Design	-	2	-	-	4	10	10	10	20	50				
	Total							26								
			Fourt	h Sen	iest	er										
01	ECS-401	Analog Electronics-II	-	4	3	1	-	10	15	15	60	100				
02	ECS-402	Signals and Systems	-	4	3	1	-	10	15	15	60	100				
03	ECS-403	Electromagnetic Field Theory	CBCS	4	3	1	-	10	15	15	60	100				
04	ECS-404	Communication Systems	-	4	3	1	-	10	15	15	60	100				
05	ECS-405	DSCP	-	4	3	1	-	10	15	15	60	100				
PRACTICAL (LAB.)																
06	ECS-410	Analog Electronics-II	-	2	-	-	4	10	10	10	20	50				
07	ECS-411	Communication Engg.	-	2	-	-	4	10	10	10	20	50				
	Total										Total	600				

Department of Electronics and Communication Engineering Jamia Millia Islamia B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE UNDER THE CHOICE BASE CREDIT SYSTEM (CBCS)

Practical

Codes for nature of courses

L: Lecture courses

P: Laboratory Based courses

S: Seminar/ Independent Study

Weight age for Course Evaluation

L Lecture Т Tutorial

MTE Mid Term Exam

Category of Courses DC: Departmental courses

CBCS: Choice based Credit System

CCA

Continuous Class Assessment

B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING -III YEAR

Р

	Fifth Semester											
S.No		Туре	Cr	Peri		ods	Examination Scheme (Distribution of Marks)					
	Course No.	Course Name	of Course	edit	Per week		Mid Se Evalua	emest ation	er	End		
					L	Т	Р	CCA	M TE -1	M T E- 2	Semester Evaluation	Total Marks
01	ECS-501	Active Filters and Signal Processing	-	4	3	1	-	10	15	15	60	100
02	ECS-502	Computer Architecture	CBCS	4	3	1	-	10	15	15	60	100
03	ECS-503	Control Systems	-	4	3	1	-	10	15	15	60	100
04	ECS-504	Digital Circuits and Systems	-	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB.)												
05	ECS-511	Instrumentation Lab	-	2	-	-	4	10	10	10	20	50
06	ECS-512	Digital Circuits Lab	-	2	-	-	4	10	10	10	20	50
	Total 20 500											
		1	Sixth	Sem	este	r	r	r	1		1	
01	ECS-601	Microprocessor	CBCS	4	3	1	-	10	15	15	60	100
02	ECS-602	Digital Signal Processing	-	4	3	1	-	10	15	15	60	100
03	ECS-603	Antenna and Wave Propagation	-	4	3	1	-	10	15	15	60	100
04	ECS-604	Data Communication and Computer Networking	-	4	3	1	-	10	15	15	60	100
PRACTICAL (LAB/SEMINAR)												
05	ECS-610	Microprocessor Lab	-	2	-	-	4	10	10	10	20	50
06	ECS-611	DSP Lab	-	2	-	-	4	10	10	10	20	50
07	ECS-612	Seminar	-	2	-	-	4	10	10	10	20	50
	Total										Total	550

Department of Electronics and Communication Engineering Jamia Millia Islamia B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE UNDER THE CHOICE BASE CREDIT SYSTEM (CBCS)

Category of Courses

CC: Departmental courses

CBCS: Choice based Credit System

Codes for nature of courses

L: Lecture courses

P: Laboratory Based courses

D: Project based courses leading to desertion (e.g. Major, Minor Project, Training)

S: Seminar/ Independent Study

Weight age for Course Evaluation

L Lecture T Tutorial P Practical CCA MTE Mid Term Exam

Continuous Class Assessment

B. TECH. ELECTRONICS AND COMMUNICATION ENGINEERING -IV YEAR

Seventh Semester														
S.No		Course Name	Type of Course	Credit	Periods Per week			Examination Scheme						
•								(Distribution of Marks)						
	Course							Mi	d Semes	End				
	No.						1	E	valuatio	n	Seme	TotalMa		
					т	T	р	CCA	MTE	MTE	ster	rks		
					L	I	ľ	CCA	-1	-2	ation			
01	ECS-701	VLSI Design	-	4	3	1	-	10	15	15	60	100		
02	ECS-702	Wireless Communication	-	4	3	1	-	10	15	15	60	100		
03	ECS-703	Embedded Systems	CBCS	4	3	1	-	10	15	15	60	100		
											ĺ			
04	ECS-704	Digital Communication	-	4	3	1	-	10	15	15	60	100		
PRACTICAL (LAB./MINOR PROJECT)														
05	ECS-711	VLSI Lab	-	2	-	-	4	10	10	10	20	50		
06	ECS-712	Minor Project	-	4	-	-	12	20	20	20	40	100		
07	ECS-713	Industrial Training*	-	1	-	-	-	15	-	-	10	25		
Total						23								
	Eighth Semester													
01	ECS-801	Microwave Engineering	CBCS	4	3	1	-	10	15	15	60	100		
02	ECS-802	Optical Fiber Communication	-	4	3	1	-	10	15	15	60	100		
PRACTICAL (LAB./MAJOR PROJECT)														
03	ECS-811	Microwave Engineering Lab	-	2	-	-	4	10	10	10	20	50		
04	ECS-812	Major Project	-	12	-	-	16	16 60 60 60 120				300		
	Total					Total								

*Students will undergo the Industrial Training of minimum 2-weeks during summer vacation after the examinations of 6^{th} semester are over. And submit a report till the end of VII Semester, practical exam of the same will be held along with the practical exams of VII sem.

Total Number of Credits including 1st year = 189 (137+52)