DEPARTMENT OF ELECTRICAL ENGINEERING FACULTY OF ENGINEERING AND TECHNOLOGY JAMIA MILLIA ISLAMIA

B. TECH. ELECTRICAL ENGINEERING COURSE STRUCTURE UNDER THE CHOICE BASE CREDIT SYSTEM (CBCS)

Effective from July 2018

Abbreviation

BSBasic ScienceLLectureESEngineering ScienceTTutorialCBCSChoice Based Credit SystemPPractical

DCDepartmental coreCCAContinuous Class AssessmentDEDepartmental electivesMSEMid Semester EvaluationESEEnd Semester Evaluation

B. TECH. ELECTRICAL ENGINEERING -II YEAR

Third Semester											
S. No	Course No.	Course Name	Type	Credit	Periods Per week			Examination Scheme (Distribution of Marks)			
				ū	L	T	P	CCA	MSE	ESE	Total
1.	EE-301	Transformer and Induction Machine	DC	3	2	1	-	8	22	45	75
2.	EE-302	Network Analysis	DC	3	2	1	-	8	22	45	75
3.	EE-303	Analog Electronics	ES	3	2	1	-	8	22	45	75
4.	EE-304	Signals and System ES 3 2 1 - 8							22	45	75
5.	EE-305	Electromagnetic Field Theory								60	100
6.	BS-301									45	75
PRACTICAL (LAB.)											
7.	EE-331	Transformer and Induction Machine Lab.	DC	1	-	-	2	15	-	10	25
8.	EE-332	Network Analysis Lab.	DC	1	-	-	2	15	-	10	25
9.	EE-333	Analog Electronics Lab.	ES	1	-	-	2	15	-	10	25
Total 22 14 6 6 Total									550		
		Fourth :	Semester								
1.	EE-401	DC and Synchronous Machine	DC	3	2	1	-	8	22	45	75
2.	EE-402	Digital Electronics	ES	3	2	1	-	8	22	45	75
3.	EE-403	Fundamentals of Power Systems	DC	3	2	1	-	8	22	45	75
4.	EE-404	Programming Languages	ES	3	2	1	-	8	22	45	75
5.	EE-405	Computer Architecture	CBCS	4	3	1	-	10	30	60	100
6.	BS-401	BS	3	2	1	•	8	22	45	75	
PRA	ACTICAL (1	LAB./SEMINAR)									
7.	EE-431	DC and Synchronous Machine Lab.	DC	1	-	-	2	15	-	10	25
8.	EE-432	Digital Electronics Lab.	ES	1	-	-	2	15	-	10	25
9.	EE-434	Programming Languages Lab	ES	1	-	-	2	15	-	10	25
Total 22 14 5 8 Total 550											

Refer ordinance 15-C (XV-C) clause 3(2).

- The Mid Semester Evaluation shall have a weightage of 40% while the remaining 60% weightage will be for End Semester Examination.
 - (i) 30% for two mid semester tests, both of equal weightage;
 - (ii) 10% for other modes of sessional evaluation (to be specified by the Faculty Committee and notified before the commencement of teaching of each course).
- There will be no Mid Semester practical tests. In a practical course/ project/ seminar/ industrial training/ field work, the End Semester Examination shall have a weightage of 40% while the performance of the student as evaluated by the teacher concerned during the semester (i.e. Mid Semester Evaluation) shall have a weightage of 60%.

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B. TECH. ELECTRICAL ENGINEERING -III YEAR

		Fifth	Semester									
S.	Course No.	Course Name	Type		Periods Per			Examination Scheme				
No				į.	week			(Distribution of Marks)				
				Credit	L	T	P	CCA	MSE	ESE	Total	
1.	EE-501	Switchgear & Protection	DC	3	2	1	-	8	22	45	75	
2.	EE-502	Power Electronics	DC	3	2	1	-	8	22	45	75	
3.	EE-503	Communication Systems	DC	3	3	1	-	10	30	60	75	
4.	EE-504	Electrical Measurements	DC	3	2	1	-	8	22	45	75	
5.	EE-505	Power Systems Analysis	DC	3	2	1	-	8	22	45	75	
6.	EE-506	Electrical Power Generation	CBCS	4	2	1	-	8	22	45	100	
PRA	ACTICAL (L	AB.)										
7.	EE-531	Switchgear & Protection Lab	DC	1	-	-	2	15	-	10	25	
8.	EE-532	Power Electronics Lab	DC	1	-	-	2	15	-	10	25	
9.	EE-533	Communication Systems Lab	ES	1	-	-	2	15	-	10	25	
			22	13	6	6			Total	550		
		Sixth	Semester									
1.	EE-601	Control Systems	DC	3	2	1	-	8	22	45	75	
2.	EE-602	Electrical and Electronics Instrumentation	DC	3	2	1	-	8	22	45	75	
3.	EE-603	Microprocessors and Interface chips	ES	3	2	1	-	8	22	45	75	
4.	EE-604	Electric Drives	DC	3	2	1	-	8	22	45	75	
5.	BS-601	Engineering mathematics-V	BS	2	2	-	-	5	15	30	50	
6.	-	Elective I	CBCS	4	3	1	-	10	30	69	100	
Elec	etive-I	EE-607 Digital Communication/EE-608	Programm	able l	ogic C	Contr	oller	/EE-609	Data Str	ucture		
PRA	ACTICAL (L	AB./SEMINAR)										
7.	EE-631	Control Systems Lab	DC	1	-	-	2	15	-	10	25	
8.	EE-632	Electrical Measurements Lab	DC	1	-	-	2	15	-	10	25	
9.	EE-633	Microprocessors Lab	ES	1	-	-	2	15	-	10	25	
10.	EE-640	Seminar	DC	1	-	-	2	15	-	10	25	
			Total	22	13	5	8			Total	550	

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B. TECH. ELECTRICAL ENGINEERING -IV YEAR

Seventh Semester											
S. No	Course No.	Course Name	Type	Periods Per week			Examination Scheme (Distribution of Marks)				
		Cre		Credit	L	Т	P	CCA	MSE	ESE	Total
1.	EE-701	Advanced Control Systems	DC	DC 3 2		1	ı	8	22	45	75
2.	EE-702	SCADA & Smart Grid Technologies	DC	3	2 1 - 8 22				22	45	75
3.	EE-703	Power System Operation and Control	DC	3	2	1	-	8	22	45	75
4.	EE-704	Soft Computing	CBCS	4	3	1	-	10	30	60	100
5.		Elective-II	DE	3	2	1	-	8	22	45	75
-	Elective-II: EE-705 Biomedical Instrumentation/ EE-706 Embedded Systems										
	PRACTICAL (LAB./MINOR PROJECT)										
5.	EE-732	SCADA and Smart Grid Technologies Lab	DC DC	1	-	-	2	15	-	10	25
6.	EE-740	Industrial Training	1	-	-	2	15	-	10	25	
7.	EE-750	Minor Project	DC	4	-	-	8	60	-	40	100
									550		
		Eight	h Semester								
1.	EE-801	Engineering Economics and Industrial Management	CBCS	4	3	1	1	10	30	60	100
2.	EE-802	Renewable Energy Sources	DC	3	2	1	ı	8	22	45	75
3.	-	Elective-III	DE	3	2	1	ı	8	22	45	75
4.	-	Elective-IV	DE	3	2	1	-	8	22	45	75
Elec		803 Process Control / EE-804 Electrical Mach lectrical Energy/ EE-812 Selected Topics in P			805 Ac	lvanc	ed Pro	otective I	Relays / El	E-806 Uti	lization
Elective-IV: EE-807 Data Communications and Computer Networks/ EE-808Advanced Microprocessors/EE-809- Microcontrollers and Applications/ EE-810 HVDC Transmission											
PRA	CTICAL (LAI	B./MAJOR PROJECT)						_			
5.	EE-831	Power System Lab	DC	1	-	-	1	15	-	10	25
6.	EE-850	Major Project	DC	8	-	-	16	120	-	80	200
			Total	22	9	4	17			Total	550

^{*} During last summer vacation (Minimum 4 weeks)

		Semesters								
Total	I	II	III	IV	V	VI	VII	VIII	Total Credit	
	26	26	22	22	22	22	22	22	184	