

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**

<b>BS</b>	Basic Science	<b>L</b>	Lecture
<b>ES</b>	Engineering Science	<b>T</b>	Tutorial
<b>CBCS</b>	Choice Based Credit System	<b>P</b>	Practical
<b>DC</b>	Departmental core	<b>CCA</b>	Continuous Class Assessment
<b>DE</b>	Departmental electives	<b>MSE</b>	Mid Semester Evaluation
		<b>ESE</b>	End Semester Evaluation

**B. TECH. ELECTRICAL ENGINEERING –II YEAR**

<b>Third Semester</b>											
S. No	Course No.	Course Name	Type	Credit	Periods Per week			Examination Scheme (Distribution of Marks)			
					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	CBCS	4	3	1	-	10	30	60	100
6.	BS-301	Engineering Mathematics- III	BS	3	2	1	-	8	22	45	75
<b>PRACTICAL (LAB.)</b>											
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
<b>Total</b>				<b>22</b>	<b>14</b>	<b>6</b>	<b>6</b>	<b>Total</b>			<b>550</b>
<b>Fourth Semester</b>											
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	Engineering Mathematics-IV	BS	3	2	1	-	8	22	45	75
<b>PRACTICAL (LAB./SEMINAR)</b>											
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
<b>Total</b>				<b>22</b>	<b>14</b>	<b>5</b>	<b>8</b>	<b>Total</b>			<b>550</b>

**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>ESE</b>	End Semester Evaluation

**B. TECH. ELECTRICAL ENGINEERING –III YEAR**

Fifth Semester											
S. No	Course No.	Course Name	Type	Credit	Periods Per week			Examination Scheme (Distribution of Marks)			
					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
<b>PRACTICAL (LAB.)</b>											
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
<b>Total</b>				<b>22</b>	<b>13</b>	<b>6</b>	<b>6</b>	<b>Total</b>			<b>550</b>
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
<b>Elective-I</b>		EE-607 Digital Communication/EE-608 Programmable logic Controller/EE-609 Data Structure									
<b>PRACTICAL (LAB./SEMINAR)</b>											
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
<b>Total</b>				<b>22</b>	<b>13</b>	<b>5</b>	<b>8</b>	<b>Total</b>			<b>550</b>

