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B.Tech (Electrical Engineering)

PO4. **Competence to conduct investigations of electrical engineering problems:** Use research- based knowledge and research method including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Programme structure

Total Credits: 160

Structure of the curriculum (Revised as per AICTE 2018 model curriculum)

Course category	No of courses	Credits per course	Total Credits
1. Programme Core courses	23	3/4/1	54
2. Programme Elective courses	6	3/4	19
3. Open Elective courses/ MOOCs	6	3 each	18
4. Engineering Science courses	7	1-4	18
5. Basic Science courses	7	2/3/4	23
6. Humanities and Social Sciences Including Management	4	3 each	12
7. Project/Internship	3	6,10	16
8. Mandatory courses (non-credit)	5	0	0
Total credits			160

6. SEMESTER WISE SCHEDULE

Semester-I

Sl. No.	Course type	Course Code	Course Title	L	T	P	CR	CH
1.	Basic Science	CH 103	Chemistry	3	0	1	4	5
2.	Basic Science	MS 104	Mathematics-I	3	1	0	4	4
3.	Engg Science	EE 103	Basic Electrical Engineering	3	0	0	3	3
4.	Engg Science	EE 104	Basic Electrical Engineering lab	0	0	1	1	2
5.	Basic Science	PH 103	Physics-I	2	0	1	3	4


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6.	Humanities and Social Sciences	EF 103	English	2	0	1	3	4
7.	Mandatory	SE 100	Induction Program	-	-	-	-	8
Total				13	1	4	18	22

Semester-II

Sl. No.	Course type	Course Code	Course Title	L	T	P	CR	CH
1.	Basic Science	PH 104	Physics-II	2	0	0	2	2
2.	Basic Science	MS 105	Mathematics-II	3	1	0	4	4
3.	Engg Science	CE 103	Engineering Graphics	1	0	2	3	5
4.	Engg Science	ME 103	Workshop Practice	0	0	2	2	4
5.	Engg Science	CO 103	Introductory Computing / Programming for Problem Solving	3	0	0	3	3
6.	Engg Science	CO 104	Computing Lab	0	0	2	2	4
7.	Engg Science	ME 102	Engineering Mechanics	3	1	0	4	4
Total				12	2	6	20	26

8	8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8	8

SEMESTER WISE SCHEDULE

Sl. No.	Course type	Course Code	Course Title	L	T	P	CR	CH
1.	Basic Science	PH 103	Physics-I	2	0	0	2	2
2.	Basic Science	MS 104	Mathematics-I	3	1	0	4	4
3.	Engg Science	EE 103	Basic Electrical Engineering	3	0	0	3	3
4.	Engg Science	EE 104	Basic Electrical Engineering Lab	0	0	1	1	2
5.	Basic Science	PH 103	Physics-I	2	0	0	2	2

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