

**IV B. Tech – I Semester**

S.No	Category	Course Code	Course Title	Hours per week			Credits	Scheme of Examination (Max. Marks)		
				L	T	P		CIE	SEE	Total
1	PC	19APC0219	Switch Gear and Protection	3	0	0	3	30	70	100
2	PC	19APC0220	High Voltage Engineering	2	0	0	2	30	70	100
3	OE	19APE0411	Embedded Systems	3	0	0	3	30	70	100
		19APC0502	Data Base Management Systems							
		19APC0101	Mechanics of materials							
4	PE	19APE0201	Electrical Distribution Systems	3	0	0	3	30	70	100
		19APE0202	Power Semi-conductor Drives							
		19APE0203	Advanced Control Systems							
5	PE	19APE0204	Power System Operation and Control	3	0	0	3	30	70	100
		19APE0205	Flexible AC Transmission Systems							
		19APC0418	Digital Signal Processing							
6	HE	19AHE9901	Technical Writing	2	0	0	2	30	70	100
		19AHE9906	Effective technical Communication							
		19ASA0501	Soft skills							
<b>PRACTICAL</b>										
8	PC	19APC0221	Switchgear and Protection Lab	0	0	2	1	30	70	100
9	PR	19APR0205	Socially Relevant Projects (15 hours / semester)	0	0	0	0.5	50	--	50
10	PR	19APR0206	Industrial Training/Internship/Research Projects in National Laboratories/Academic Institutions	0	0	0	1.5	50	--	50
<b>TOTAL</b>							<b>19</b>	<b>310</b>	<b>490</b>	<b>800</b>

**IV B. Tech – II Semester**

S.No	Category	Course Code	Course Title	Hours per week			Credits	Scheme of Examination (Max. Marks)		
				L	T	P		CIE	SEE	Total
1	MOOCS	19AOE0515	The joy of computing using Python (MOOCS-NPTEL)	3	0	0	3	-	-	100
		19AOE0516	Principles of Management (MOOCS-NPTEL)							
		19AOE0517	Introduction to Industry 4.0 and Industrial internet of things (MOOCS-NPTEL)							
2	MOOCS	19APE0206	Design of photovoltaic systems (MOOCS-NPTEL)	3	0	0	3	-	-	100
		19APE0207	Solar Energy Engineering and Technology (MOOCS-NPTEL)							
		19APE0208	Physics of Renewable Energy Systems (MOOCS-NPTEL)							
<b>PRACTICAL</b>										
3	PR	19APR0207	Technical Paper Presentation/Seminar	0	0	0	0	50	0	50
4	PR	19APR0208	Project	3	0	0	9	60	140	200
<b>TOTAL</b>							<b>15</b>	<b>110</b>	<b>140</b>	<b>450</b>
<b>Grand Total of all semesters</b>							<b>160</b>	<b>2340</b>	<b>4480</b>	<b>7020</b>