



TEACHING SCHEME / DETAIL SYALLBUS

BE 24 - POWER ELECTRONICS Sem

2018-19 Subject Code Enter Subject Name Search

*L=Lectures,T=tutorial,P=Practical,E=TheoryExternal,M=TheoryInternal,I=Practical Internal,V=Practical External,On Job Training(OJT) is equivalent to Practical

Exp.	Subcode	Branch code	Eff from	SubjectName	Category	Sem /Year	Hours			Total	Credit				Max Marks
							L.	T.	P.		E	M	I	V	
+	3110002	24	2018-19	English	Humanities and Social Science	1	2	0	2	3	70	30	20	30	150
+	3110003	24	2018-19	Programming for Problem Solving	Engineering Science	1	3	0	2	4	70	30	20	30	150
+	3110005	24	2018-19	Basic Electrical Engineering	Engineering Science	1	3	0	2	4	70	30	20	30	150
+	3110006	24	2018-19	Basic Mechanical Engineering	Engineering Science	1	3	0	2	4	70	30	20	30	150
+	3110007	24	2018-19	Environmental Sciences	Mandatory	1	2	2	0	0	70	30	0	0	100
+	3110012	24	2018-19	Workshop/ Manufacturing Practices	Engineering Science	1	0	0	4	2	0	0	20	80	100
+	3110013	24	2018-19	Engineering Graphics & Design	Engineering Science	1	2	0	4	4	70	30	20	30	150
+	3110014	24	2018-19	Mathematics - 1	Basic Science	1	3	2	0	5	70	30	0	0	100
+	3110015	24	2018-19	Mathematics - 2	Basic Science	1	3	2	0	5	70	30	0	0	100
+	3110016	24	2018-19	Basic Electronics	Engineering Science	1	3	0	2	4	70	30	20	30	150
+	3110017	24	2018-19	Induction Program	Mandatory	1	0	0	0	0	0	0	0	0	0
+	3110018	24	2018-19	Physics	Basic Science	1	3	0	2	4	70	30	20	30	150
+	3130004	24	2018-19	Effective Technical Communication	Humanities and Social Science	3	2	0	2	3	70	30	20	30	150
+	3130007	24	2018-19	Indian Constitution	Mandatory	3	2	0	0	0	50	0	0	0	50
+	3130008	24	2018-19	Design Engineering - I A	Project Work	3	0	0	2	1	0	0	20	80	100
+	3130908	24	2018-19	Applied Mathematics for Electrical Engineering	Basic Science	3	3	2	0	5	70	30	0	0	100
+	3132405	24	2018-19	Measurement & Instrumentation	Engineering Science	3	3	0	2	4	70	30	20	30	150
+	3132406	24	2018-19	Circuit Theory	Professional Core	3	3	1	2	5	70	30	20	30	150
+	3132407	24	2018-19	Electrical Machines and Applications	Professional Core	3	4	0	2	5	70	30	20	30	150
+	3140005	24	2018-19	Design Engineering 1 B	Project Work	4	0	0	2	1	0	0	20	80	100
+	3140911	24	2018-19	Economics for Engineers	Humanities and Social Science	4	3	0	0	3	70	30	0	0	100
+	3142404	24	2018-19	Basic Power System Engineering	Basic Science	4	4	1	0	5	70	30	0	0	100
+	3142407	24	2018-19	Control Theory	Professional Core	4	3	0	2	4	70	30	20	30	150
+	3142408	24	2018-19	Analog & Digital Circuits	Professional Core	4	3	1	2	5	70	30	20	30	150
+	3142409	24	2018-19	Basic Power Electronics Devices, Circuits And Applications	Professional Core	4	3	1	2	5	70	30	20	30	150
+	3150001	24	June 2020	Design Engineering - II A	Project Work	5	0	0	2	1	0	0	20	80	100
+	3150004	24	June 2020	Contributor Personality Development Program	Personality development Elective	5	2	0	0	2	70	30	20	30	150
+	3150005	24	June 2020	Integrated Personality Development Course	Personality development Elective	5	2	0	0	2	70	30	20	30	150
+	3150709	24	June 2020	Professional Ethics	Humanities and Social Science	5	3	0	0	3	70	30	0	0	100
+	3150913	24	June 2020	Disaster Management	Open Elective - I	5	3	0	0	3	70	30	0	0	100
+	3151910	24	June 2020	Operation Research	Open Elective - I	5	3	0	0	3	70	30	0	0	100

<input type="checkbox"/>	3152407	24	June 2020	Power Electronics Circuits - I	Professional Core	5	3	1	2	5	70	30	20	30	150
<input type="checkbox"/>	3152409	24	June 2020	Microcontrollers Architecture, Interefacing and Applications	Professional Core	5	3	1	2	5	70	30	20	30	150
<input type="checkbox"/>	3152410	24	June 2020	Power Electronics in Consumer Products	Professional Elective - I	5	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3152411	24	June 2020	Electrical Power Utilization & Traction	Professional Elective - I	5	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3152412	24	June 2020	Industrial Communication Systems	Professional Elective - I	5	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3152413	24	June 2020	Python Programming (Power Electronics)	Professional Elective - I	5	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3160001	24	Dec-2020	Design Engineering II B	Project Work	6	0	0	2	1	0	0	20	80	100
<input type="checkbox"/>	3160002	24	Dec-2020	Contributor Personality Development Program	Personality development Elective	6	2	0	0	2	70	30	20	30	150
<input type="checkbox"/>	3160003	24	Dec-2020	Integrated Personality Development Course	Personality development Elective	6	2	0	0	2	70	30	20	30	150
<input type="checkbox"/>	3161924	24	Dec-2020	Entrepreneurship and E-business	Open elective - II	6	3	0	0	3	70	30	0	0	100
<input type="checkbox"/>	3161925	24	Dec-2020	Cyber Laws and Ethics	Open elective - II	6	3	0	0	3	70	30	0	0	100
<input type="checkbox"/>	3162413	24	Dec-2020	Power Electronics Circuits - II	Professional Core	6	3	1	2	5	70	30	20	30	150
<input type="checkbox"/>	3162414	24	Dec-2020	Digital signal Processing for Power Electronics	Professional Core	6	3	1	0	4	70	30	0	0	100
<input type="checkbox"/>	3162415	24	Dec-2020	Industrial Electronics	Professional Elective - II	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162416	24	Dec-2020	Advanced Electrical Machines	Professional Elective - II	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162417	24	Dec-2020	Embedded Systems for Power Electronics	Professional Elective - II	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162418	24	Dec-2020	Robotics	Professional Elective - II	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162419	24	Dec-2020	Principles of Power Supply	Professional Elective - III	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162420	24	Dec-2020	Switch gear and Fault Analysis	Professional Elective - III	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162421	24	Dec-2020	Industrial Automation	Professional Elective - III	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162422	24	Dec-2020	Biomedical Instrumentation	Professional Elective - III	6	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3162423	24	Dec-2020	Operation Research	Open elective - II	6	3	0	0	3	70	30	0	0	100
<input type="checkbox"/>	3162424	24	Dec 2020	Numerical Methods for Engineers	Open elective - II	6	2	0	2	3	70	30	20	30	150
<input type="checkbox"/>	3170001	24	6/1/2021	Summer Internship	Project	7	0	0	0	2	0	0	20	80	100
<input type="checkbox"/>	3172402	24	6/1/2021	Industrial Drives and Control	Professional Core	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172413	24	6/1/2021	Advanced Power Electronics Devices and Interface Circuits	Professional Core	7	2	1	0	3	70	30	0	0	100
<input type="checkbox"/>	3172414	24	6/1/2021	Vehicular Power Electronics	Professional Elective - IV	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172415	24	6/1/2021	Power Electronics for Power System Applications	Professional Elective - IV	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172416	24	6/1/2021	Digital Signal Controllers	Professional Elective - IV	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172417	24	6/1/2021	Image Processing	Professional Elective - IV	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172418	24	6/1/2021	Advanced Power Converters	Professional Elective - V	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172419	24	6/1/2021	Smart Grid and Power Electronics	Professional Elective - V	7	3	1	0	4	70	30	0	0	100
<input type="checkbox"/>	3172420	24	6/1/2021	FPGA in Power Electronics Applications	Professional Elective - V	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172421	24	6/1/2021	AI and Machine Learning in Power Electronics	Professional Elective - V	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172422	24	6/1/2021	Advanced Industrial Drives	Professional Elective - VI	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172423	24	6/1/2021	Power Quality	Professional Elective - VI	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172424	24	6/1/2021	Internet of Things in Power Electronics Applications	Professional Elective - VI	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172425	24	6/1/2021	Defence Electronics	Professional Elective - VI	7	3	0	2	4	70	30	20	30	150
<input type="checkbox"/>	3172426	24	6/1/2021	Industrial Safety	Open Elective - III	7	2	1	0	3	70	30	0	0	100
<input type="checkbox"/>	3172427	24	6/1/2021	Electrical Standards	Open Elective - III	7	2	1	0	3	70	30	0	0	100
<input type="checkbox"/>	3172428	24	6/1/2021	Systems Engineering	Open Elective - III	7	2	1	0	3	70	30	0	0	100
<input type="checkbox"/>	3172429	24	6/1/2021	Power Plant Engineering	Open Elective - III	7	2	1	0	3	70	30	0	0	100