

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Scheme of teaching and examination

M.E. (POWER ELECTRONICS) in the Department of Electrical Engg.

1st SEMESTER

S N	Board of study	Subject code	Subject Name	Periods per week			Scheme of exam			Total Marks	Credit $\frac{L+(T+P)}{2}$
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Electrical Engg.	562111(24)	Power Converters	3	1	-	100	20	20	140	4
2	Electrical Engg.	562112(24)	Industrial Control Electronics	3	1	-	100	20	20	140	4
3	Electronics & Telecomm.	562113(24)	Microcontroller & Embedded System Design	3	1	-	100	20	20	140	4
4	Electrical Engg.	562114(24)	Modern Control Theory	3	1	-	100	20	20	140	4
5	Refer table-1		Elective - 1	3	1	-	100	20	20	140	4
6	Electrical Engg.	562121(24)	Power Converters Lab	-	-	3	75	-	75	150	2
7	Electrical Engg.	562122(24)	Microcontroller Lab	-	-	3	75	-	75	150	2
TOTAL				15	5	6	650	100	250	1000	24

L- Lecture, T- Tutorial, P- Practical, ESE- End Semester Examination,
 CT - Class Test, TA- Teacher's Assessment.

Note : Duration of all theory papers will be of Three Hours.

Table – I		
Elective – I		
Board of Study	Code	Subject
Electrical Engg.	562131(24)	Analysis & Design of Artificial Neural Network
Electrical Engg.	562132(24)	Modelling & Analysis of Electrical Machines
Electrical Engg.	562133(24)	Digital Controllers in Power Electronics Application

Note (1) – 1/4th of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .

Note (2) – Choice of elective course once made for an examination cannot be changed in future examinations.

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IIInd SEMESTER

S N	Board of study	Subject code	Subject Name	Periods per week			Scheme of exam			Total Marks	Credit $\frac{L+(T+P)}{2}$
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Electrical Engg.	562211(24)	Switched mode Power Conversion	3	1	-	100	20	20	140	4
2	Electrical Engg.	562212(24)	Power Electronics Drives	3	1	-	100	20	20	140	4
3	Electrical Engg.	562213(24)	PWM Converters & Applications	3	1	-	100	20	20	140	4
4	Electrical Engg.	559211(24)	EHV AC & DC	3	1	-	100	20	20	140	4
5	Refer table 2		Elective – 2	3	1	-	100	20	20	140	4
6	Electrical Engg.	562221(24)	Power Modules Lab	-	-	3	75	-	75	150	2
7	Electrical Engg.	562222(24)	Power Electronics Simulation Lab	-	-	3	75	-	75	150	2
TOTAL				15	5	6	650	100	250	1000	24

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Note : Duration of all theory papers will be of Three Hours.

Table – 2		
Elective – 2		
Board of Study	Code	Subject
Electrical Engg.	562231(24)	Fuzzy Systems
Electrical Engg.	562232(24)	Optimization Techniques

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IIIrd SEMESTER

S N	Board of study	Subject code	Subject Name	Periods per week			Scheme of exam			Total Marks	Credit $\frac{L+(T+P)}{2}$
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Electrical Engg.	562311(24)	Static VAR Controller & Harmonic Filtering	3	1	-	100	20	20	140	4
5	Refer table 3		Elective – 3	3	1	-	100	20	20	140	4
6	Electrical Engg.	562321(24)	Preliminary Project	-	-	15	100	-	100	200	14
7	Electrical Engg.	562322(24)	Seminar based on Dissertation	-	-	3	-	-	20	20	2
TOTAL				6	2	18	300	40	160	500	24

L- Lecture, T- Tutorial, P- Practical, ESE- End Semester Examination,
CT - Class Test, TA- Teacher's Assessment.

Note : Duration of all theory papers will be of Three Hours.

Table – 3		
Elective – 3		
Board of Study	Code	Subject
Electrical Engg.	562331(24)	<i>Digital Control Theory</i>
Electrical Engg.	562332(24)	<i>Advanced Control of PWM Inverters fed Induction Motor.</i>
Electrical Engg.	562333(24)	<i>Power Electronics in wind & Solar Power Converters</i>

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IVth SEMESTER

S N	Board of study	Subject code	Subject Name	Periods per week			Scheme of exam			Total Marks	Credit $\frac{L+(T+P)}{2}$
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Electrical Engg.	562421 (24)	Project + Seminar	6	-	34	300	-	200	500	23
Total				6	-	34	300	-	200	500	23

L- Lecture,
CT - Class Test,

T- Tutorial,
TA- Teacher's Assessment.

P- Practical,

ESE- End Semester Examination,

Note : Duration of all theory papers will be of Three Hours.

Scheme of marks Allotment:

Semester	Total Marks	Grand Total
I	1000	3000
II	1000	
III	500	
IV	500	