

Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.)

SCHEME OF TEACHING & EXAMINATION

DEPARTMENT OF ELECTRICAL ENGINEERING

M.Tech in Industrial Drives and Control

(First Semester)

S. No	Board of Study	Subject Code	Subject Name	Period per week			Scheme of Exam			Total marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Electrical Engg.	585111(24)	Modeling and Analysis of Electrical Machines	3	1	-	100	20	20	140	4
2	Electrical Engg.	585112(24)	Power Electronics Converters	3	1	-	100	20	20	140	4
3	Electrical Engg.	585113(24)	Linear Algebra	3	1		100	20	20	140	4
4	Electrical Engg.	585114(24)	Modern Control System Theory	3	1		100	20	20	140	4
5	Refer Table - I		Elective – I	3	1		100	20	20	140	4
6	Electrical Engg.	585121(24)	Power Electronics and Drives Lab			3	75	-	75	150	2
7	Electrical Engg.	585122(24)	Control Systems Design and Simulation Lab			3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	24

Table – I		
Elective – I		
Board of Study	Subject Code	Subject Name
Electrical Engg.	585131(24)	Optimization Techniques
Electrical Engg.	585132(24)	Soft Computing Techniques
Electrical Engg.	585133(24)	Robotics and Automation
Electrical Engg.	585134(24)	Special Electric Machines

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(Second Semester)

S. N.	Board of Study	Subject Code	Subject Name	Period per week			Scheme of Exam			Total marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Electrical Engg.	585211(24)	Analysis of DC and AC Converters	3	1	-	100	20	20	140	4
2	Electrical Engg.	585212(24)	Microcontrollers And Embedded System Design	3	1	-	100	20	20	140	4
3	Electrical Engg.	585213(24)	Programmable Logic controllers and their applications	3	1		100	20	20	140	4
4	Electrical Engg.	585214(24)	Optimal Control Systems	3	1		100	20	20	140	4
5	Refer Table - II		Elective – II	3	1		100	20	20	140	4
6	Electrical Engg.	585221(24)	Programmable Logic controllers Lab			3	75	-	75	150	2
7	Electrical Engg.	585222(24)	Microcontrollers and Embedded System Design Lab			3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	24

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Table – II		
Elective – II		
Board of Study	Subject Code	Subject Name
Electrical Engg.	585231(24)	Electrical Energy Systems
Electrical Engg.	585232(24)	HV AC and DC Transmission
Electrical Engg.	585233(24)	DSP Processors and Architectures
Electrical Engg.	585234(24)	Power Quality

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(Third Semester)

S. No.	Board of Study	Subject Code	Subject Name	Period per week			Scheme of Exam			Total marks	Credit L+(T+P)/2
							Practical / Theory				
				L	T	P	ESE	CT	TA		
1	Electrical Engg.	585311(24)	Advanced Electric Drives	3	1	-	100	20	20	140	4
2	Refer Table - III		Elective – III	3	1		100	20	20	140	4
3	Electrical Engg.	585321(24)	Preliminary Project			28	100	-	100	200	14
4	Electrical Engg.	585322(24)	Seminar			3	-	-	20	20	2
Total				6	2	31	300	40	160	500	24

Table – III		
Elective – III		
Board of Study	Subject Code	Subject Name
Electrical Engg.	585331(24)	Advanced Instrumentation System
Electrical Engg.	585332(24)	Industrial control and electronics
Electrical Engg.	585333(24)	Adaptive Control System
Electrical Engg.	585334(24)	Power Electronics for Renewable Energy Systems

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DEPARTMENT OF ELECTRICAL ENGINEERING

M.Tech in Industrial Drives and Control

(Fourth Semester)

S. No	Board of Study	Subject Code	Subject Name	Period per week			Scheme of Exam			Total marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Electrical Engg.	585411(24)	Dissertation	6	-	34	300	-	200	500	23
			TOTAL	6	-	34	300	-	200	500	$6+(34/2) = 23$

L – Lecture, T – Tutorial, P – Practical, ESE – End Semester Examination, CT – Class Test, TA – Teacher’s Assessment

Scheme of Marks Allotment

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