

Chhattisgarh Swami Vivekanand Technical University, Bhilai

**SCHEME OF TEACHING & EXAMINATION
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

M.Tech. in Electrical Power & Energy System

FIRST SEMESTER

S.N	Board of Study	Code	Subject	Weekly Teaching Hrs/Pds			Scheme of Examination			Grand Total	Credits
				L	T	P	ESE	CT	TA		
1	Electrical & Electronics Engg.	505111(25)	Advanced Power System Protection	3	1	-	100	20	20	140	4
2	Electrical & Electronics Engg.	505112(25)	Energy Conversion Systems	3	1	-	100	20	20	140	4
3	Electrical & Electronics Engg.	505113(25)	Advanced Control Systems	3	1	-	100	20	20	140	4
4	Electrical & Electronics Engg.	505114(25)	Reliability of Energy Systems	3	1	-	100	20	20	140	4
5	Refer table - I		Elective - I	3	1	-	100	20	20	140	4
6	Electrical & Electronics Engg.	505121(25)	Advanced Power System Protection Lab	-	-	3	75	-	75	150	2
7	Electrical & Electronics Engg.	505122(25)	Advanced Control Systems Lab	-	-	3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	24

Tabel-I			
Professional Elective-I			
Sn.	Board of Study	Subject Code	Subject
1	Electrical & Electronics Engg.	505131(25)	Distribution System Engineering
2	Electrical & Electronics Engg.	505132(25)	Power Plant Instrumentation
3	Electrical & Electronics Engg.	505133(25)	Power Sector Restructuring & Management

L- Lecture T- Tutorial P- Practical ESE- End Semester Exam
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SECOND SEMESTER

S.N.	Board of Study	Code	Subject	Weekly Teaching Hrs/Pds			Scheme of Examination			Grand Total	Credits
				L	T	P	ESE	CT	TA		
1	Electrical & Electronics Engg.	505211(25)	Grid Integration of Wind Energy	3	1	-	100	20	20	140	4
2	Electrical & Electronics Engg.	505212(25)	Microcontroller System Design	3	1	-	100	20	20	140	4
3	Electrical & Electronics Engg.	505213(25)	Power System Modeling and Analysis	3	1	-	100	20	20	140	4
4	Electrical & Electronics Engg.	505214(25)	Power System Security	3	1	-	100	20	20	140	4
5	Refer table - II		Elective - II	3	1	-	100	20	20	140	4
6	Electrical & Electronics Engg.	505221(25)	Power System Modeling Lab	-	-	3	75	-	75	150	2
7	Electrical & Electronics Engg.	505222(25)	Microcontroller Interfacing Lab	-	-	3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	.

Tabel-II			
Professional Elective-II			
Sn.	Board of Study	Subject Code	Subject
1	Electrical & Electronics Engg.	505231(25)	Power System Deregulation
2	Electrical & Electronics Engg.	505232(25)	Switched Mode of Power Controllers
3	Electrical & Electronics Engg.	505233(25)	Power System Monitoring

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THIRD SEMESTER

Sr. no.	Board of Study	Code	Subject	Weekly Teaching Hrs/Pds			Scheme of Examination			Grand Total	Credits
				L	T	P	ESE	CT	TA		
1	Electrical & Electronics Engg.	505311(25)	Economic and Planning of Energy System	3	1	-	100	20	20	140	4
2	Refer table - III		Elective - III	3	1	-	100	20	20	140	4
3	Electrical & Electronics Engg.	505321(25)	Dissertation	-	-	28	100	100		200	14
4	Electrical & Electronics Engg.	505322(25)	Seminar on Industrial Training & Dissertation	-	-	3	-	-	20	20	2
Total				6	2	31	300	140	60	500	24

Tabel-III			
Professional Elective-III			
Sn.	Board of Study	Subject Code	Subject
1	Electrical & Electronics Engg.	505331(25)	Modern Digital Signal Processing
2	Electrical & Electronics Engg.	505332(25)	Smart Grid Technology and Applications
3	Electrical & Electronics Engg.	505333(25)	Instrumentation and Control in Energy Systems

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FOURTH SEMESTER

S.N .	Board of Study	Code	Subject	Weekly Teaching Hrs/Pds			Scheme of Examination			Grand Total	Credits
				L	T	P	ESE	CT	TA		
1	Electrical & Electronics Engg.	505421(25)	Dissertation	6	-	34	300	-	200	500	23
Total				6	-	34	300	-	200	500	23

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

L- Lecture T- Tutorial P- Practical ESE- End Semester Exam
CT- Class Test TA- Teachers Assessment