

Chhattisgarh Swami Vivekanand Technical University, Bilai

SCHEME OF TEACHING AND EXAMINATION

**M. E. Mechanical Engineering (Energy Management)
Ist Semester**

S N o.	Board Of Studies	Sub. Code	Subject	Periods Per Week			Scheme of Exam Theory/Practical			Total Marks	Credit L+(T+P)/ 2
				L	T	P	ESE	CT	TA		
1	Mechanical Engg	583111(37)	Solar Energy Utilization	3	1		100	20	20	140	4
2	Mechanical Engg	583112(37)	Numerical Methods in Energy Management	3	1		100	20	20	140	4
3	Mechanical Engg	583113(37)	Energy Conversion Systems & Devices	3	1		100	20	20	140	4
4	Mechanical Engg	583114(37)	Energy optimization	3	1		100	20	20	140	4
5	Elective- I			3	1		100	20	20	140	4
6	Mechanical Engg	583121(37)	Energy Lab			3	75		75	150	2
7	Mechanical Engg	583122(37)	Computational Lab			3	75		75	150	2
				15	5	6	650	100	250	1000	24

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

List of Electives I

S.No	Board of Study	Subject Code	Subject
1	Mechanical Engg	583131(37)	Energy, Environment & Sustainable Development
2	Mechanical Engg	583132(37)	Computer Applications: Energy Software
3	Mechanical Engg	583133(37)	Electric Power Generation & Distribution
4	Mechanical Engg	583134(37)	Energy Resources & Economics

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SCHEME OF TEACHING AND EXAMINATION

**M. E. Mechanical Engineering (Energy Management)
2nd Semester**

S r	Board Of Studies	Sub. Code	Subject	Periods Per Week			Scheme of Exam Theory/Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Mechanical Engg	583211(37)	Energy Audit & Management	3	1		100	20	20	140	4
2	Mechanical Engg	583212(37)	Renewable Energy Sources and Technologies	3	1		100	20	20	140	4
3	Mechanical Engg	583213(37)	Modeling of Energy Systems	3	1		100	20	20	140	4
4	Mechanical Engg	583214(37)	Modern Measurement Techniques	3	1		100	20	20	140	4
5	Elective II			3	1		100	20	20	140	4
6	Mechanical Engg	583221(37)	Measurement Lab			3	75		75	150	2
7	Mechanical Engg	583222(37)	Renewable Energy Lab			3	75		75	150	2
				15	5	6	650	100	250	1000	24

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List of Electives II

S.No.	Board of Study	Subject Code	Subject
1	Mechanical Engg	583231(37)	Energy Policy & Legislation
2	Mechanical Engg	583232(37)	Air & Water pollution control
3	Mechanical Engg	583233(37)	Power System Planning & Reliability
4	Mechanical Engg	583234(37)	Environmental Impact Assessment

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SCHEME OF TEACHING AND EXAMINATION

**M. E. Mechanical Engineering (Energy Management)
3rd Semester**

S N o.	Board Of Studies	Sub. Code	Subject	Periods Per Week			Scheme of Exam Theory/Practical			Total Marks	Credit L+(T+P)/ 2
				L	T	P	ESE	CT	TA		
1	Mechanical Engg	583311(37)	Green Building Technologies	3	1		100	20	20	140	4
2	Elective - III			3	1		100	20	20	140	4
3	Mechanical Engg	583321(37)	Preliminary work on Dissertation			28	100		100	200	14
4	Mechanical Engg	583322(37)	Seminar on Industrial Training and Dissertation			3			20	20	2
				6	2	31	300	40	160	500	24

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

List of Electives III

S.No.	Board of Study	Subject Code	Subject
1	Mechanical Engg	583331(37)	Wind Energy utilization
2	Mechanical Engg	583332(37)	Alternative Fuels
3	Mechanical Engg	583333(37)	Bio & Fossile fuel technology
4	Mechanical Engg	583334(37)	Nuclear Measurement and Detection