

Chhattisgarh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING AND EXAMINATION

M. E. Mechanical Engineering (Thermal Engineering)

Ist Semester

S. No.	Board of Study	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	564111 (37)	Numerical Methods in Thermal Engineering	3	1	,	100	20	20	140	4
2.	Mechanical Engg	564112 (37)	Advanced Thermodynamics	3	1	,	100	20	20	140	4
3.	Mechanical Engg	564113 (37)	Advance Fluid Mechanics	3	1	,	100	20	20	140	4
4.	Mechanical Engg	564114 (37)	Advanced Heat Transfer	3	1	,	100	20	20	140	4
5.	Elective - I			3	1	,	100	20	20	140	4
6.	Mechanical Engg	564121 (37)	Computational Fluid Flow & Heat Transfer Lab	,	,	3	75	,	75	150	2
7.	Mechanical Engg	564122 (37)	Experiments in Thermal Engineering	,	,	3	75	,	75	150	2
			Total	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**

**Table,I
List of Electives,I**

Elective , I			
S.No.	Board of Study	Subject Code	Subject
1	Mechanical Engee.	564131 (37)	Design of Heat Exchangers
2	Mechanical Engee.	564132 (37)	Fluid Power Engineering
3	Mechanical Engee.	564133 (37)	Advanced I.C. Engines Technology
4	Mechanical Engee.	564134 (37)	Non Conventional Energy Systems.

Note (1) - $1/4^{\text{th}}$ of total strength of 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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IInd Semester

S. No.	Board of Study	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	564211 (37)	Modeling & Simulation of Thermal Systems	3	1	,	100	20	20	140	4
2.	Mechanical Engg	564212 (37)	Experimental Methods in Thermal Engineering	3	1	,	100	20	20	140	4
3.	Mechanical Engg	564213 (37)	Energy Management	3	1	,	100	20	20	140	4
4.	Mechanical Engg	564214 (37)	Refrigeration & Air Conditioning System Design	3	1	,	100	20	20	140	4
5.	Elective – II			3	1	,	100	20	20	140	4
6.	Mechanical Engg	564221 (37)	Instrumentation Lab	,	,	3	75	,	75	150	2
7.	Mechanical Engg	564222 (37)	Modeling & Simulation Lab	,	,	3	75	,	75	150	2
Total				15	5	6	650	100	250	1000	24

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**Table, II
List of Electives, II**

Elective - II			
S.No.	Board of Study	Subject Code	Subject
1	Mechanical Engg	564231 (37)	Boundary layer Theory
2	Mechanical Engg	564232 (37)	Two Phase Flow & Heat Transfer
3	Mechanical Engg	564233 (37)	Advance Gas Dynamics
4	Mechanical Engg	564234 (37)	Theory of Combustion & Emission

Note (1) - 1/4th of total strength of students subject 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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SCHEME OF TEACHING AND EXAMINATION

M. E. Mechanical Engineering (Thermal Engineering)

IIIrd Semester

S. No.	Board of Study	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	564311 (37)	Computational Fluid Dynamics & Heat Transfer	3	1	,	100	20	20	140	4
2.	Electives - III			3	1	,	100	20	20	140	4
3.	Mechanical Engg	564321 (37)	Preliminary work on Dissertation	,	,	28	100	,	100	200	14
4.	Mechanical Engg	564322 (37)	Seminar on Industrial Training and Dissertation	,	,	3	,	,	20	20	2
Total				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

Table - I
List of Electives - III

Elective , I			
S.No.	Board of Study	Subject Code	Subject
1	Mechanical Engineering	564331 (37)	Power Plant Engineerig
2	Mechanical Engineering	564332 (37)	Cold Preservation of Food
3	Mechanical Engineering	564333 (37)	Bio-Fluid Mechnics
4	Mechanical Engineering	564334 (37)	Micro & Nano Scale Thermal Engineering

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SCHEME OF TEACHING AND EXAMINATION

M. E. – Thermal Engineering

IVth Semester

S. No.	Board of Study	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 Engineering	564421 (37)	Dissertation + Seminar	6	-	34	300	-	200	500	23
Total				6	-	34	300	-	200	500	23

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

Scheme of Allotment of Marks

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