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

SCHEME OF TEACHING AND EXAMINATION

M. Tech. Mechanical Engineering (Design &Thermal Engineering)

Semester - I

S.N.	Board of Study	Sub. Code	SUBJECT	PERIOD PER WEEK			SCHEME OF EXAM Theory/Practical			TOTAL MARKS	Credit L+(T+P) /2
				L	T	P	ESE	CT	TA		
1.	Mechanical Engg	579111 (37)	Advanced Machine Design	3	1	-	100	20	20	140	4
2.	Mechanical Engg	548114(37)	Theory of Elasticity & Plasticity	3	1	-	100	20	20	140	4
3.	Mechanical Engg	564114 (37)	Advanced Heat Transfer	3	1	-	100	20	20	140	4
4.	Mechanical Engg	564112 (37)	Advanced Thermodynamics	3	1	-	100	20	20	140	4
5.		Refer Table – I, Elective-I		3	1	-	100	20	20	140	4
6.	Mechanical Engg	579121 (37)	Advanced Machine Design Lab	-	-	3	75	-	75	150	2
7.	Mechanical Engg	564122 (37)	Computational Fluid Flow & Heat Transfer Lab	-	-	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

S.No.	Board of Study	Subject Code	Subject
	Elective , I		
1	Mechanical Engg.	564131 (37)	Design of Heat Exchangers
2	Mechanical Engg.	564132 (37)	Fluid Power Engineering
3	Mechanical Engg.	579131(37)	Process Equipment Design
4	Mechanical Engg.	579132 (37)	Fracture Mechanics

Note (1) -1/4th 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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SCHEMEOFTEACHING AND EXAMINATION

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Semester - II

S.N.	Board of Study	Sub. Code	SUBJECT	PERIOD PER WEEK			SCHEME OF EXAM Theory/Practical			TOTAL MARKS	Credit L+(T+P) /2
				L	T	P	ESE	CT	TA		
1.	Mechanical Engg	579211 (37)	Advanced Mechanism Design	3	1	-	100	20	20	140	4
2.	Mechanical Engg	579212 (37)	Mechanical Vibration	3	1	-	100	20	20	140	4
3.	Mechanical Engg	564214 (37)	Refrigeration & Air Conditioning System Design	3	1	-	100	20	20	140	4
4.	Mechanical Engg	564213 (37)	Energy Management	3	1	-	100	20	20	140	4
5.	Refer Table – II, Elective-II			3	1	-	100	20	20	140	4
6.	Mechanical Engg	579221 (37)	Experiments in Thermal Engineering	-	-	3	75	-	75	150	2
7.	Mechanical Engg	579222 (37)	Mechanical Vibration Lab	-	-	3	75	-	75	150	2
	Total			15	5	6	650	100	250	1000	24

Table-II
Electives-II

Elective-II			
S.No.	Boardof Study	Subject Code	Subject
1	Mechanical Engg.	564233(37)	Advance Gas Dynamics
2	Mechanical Engg.	564234(37)	Theory of Combustion & Emission
3	Mechanical Engg.	579231 (37)	Advanced Mechanical Drives
4	Mechanical Engg.	548231(37)	Experimental Stress Analysis.

Note(1)- 1/4th 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 can not be changed in future examinations

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SCHEMEOFTEACHING AND EXAMINATION

M.Tech. Mechanical Engineering (Design &Thermal Engineering)

Semester-III

S.N.	Board of Study	Sub. Code	SUBJECT	PERIOD PER WEEK			SCHEME OF EXAM Theory/Practical			TOTAL MARKS	Credit L+(T+P) /2
				L	T	P	ESE	CT	TA		
1.	Mechanical Engg	579311 (37)	Robotics	3	1	-	100	20	20	140	4
2.	Refer Table – III, Elective-III			3	1	-	100	20	20	140	4
3.	Mechanical Engg	579321 (37)	Preliminary work on Dissertation	-	-	28	100	-	100	200	14
4.	Mechanical Engg	579322 (37)	Seminar on Industrial Training and Dissertation	-	-	03	-	-	20	20	2
Total				6	2	31	300	40	160	500	24

Table-III
Electives-III

Elective III			
S.No.	Boardof Study	Subject Code	Subject
1	Mechanical Engg.	564331(37)	Power Plant Engineering
2	Mechanical Engg.	564332(37)	Cold Preservation of Food
3	Mechanical Engg.	564333(37)	Bio-Fluid Mechanics

Note(1)- 1/4th 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 can not be changed in future examinations.

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SCHEME OF TEACHING AND EXAMINATION

M.Tech. Mechanical Engineering (Design &Thermal Engineering)

Semester-IV

S. No.	Board of Study	SubjectCode	Subject	Periodsper Week			Schemeof Examination Theory/ Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Mech.Engg.	579421 (37)	Project+Seminar	6	-	34	300	-	200	500	23
Total				**6**	**0**	**34**	**300**	**0**	**200**	**500**	**23**

L-Lecture   T-Tutorial
P-Practical,   ESE-End Semester Exam
CT-ClassTest   TA-Teacher'sAssessment

Scheme of marks Allotment

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