



# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

**CHOICE BASED CREDIT SYSTEM (CBCS)**

SCHEME OF TEACHING AND EXAMINATION FOR M.Tech. COURSE

**(Effective from the academic year 2024-2025)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**M.Tech (THERMAL POWER ENGINEERING)**



## 1<sup>st</sup> SEMESTER MTech

SI No	Course Code		Course Title	Teaching Dept.	L	T	P	Credits	CIE Marks	SEE Marks	Total Marks	Exam Hrs.
1	PC	24TPE11	Applied Mathematics	MA	4	-	-	4	50	50	100	3
2	PC	24 TPE 12	Advanced Power Plant Cycles	ME	4	-	-	4	50	50	100	3
3	PC	24 TPE 13	Advanced Fluid Mechanics	ME	4	-	-	4	50	50	100	3
4	PC	24 TPE 14	Combustion Engineering Science	ME	3	-	-	3	50	50	100	3
5	PE	24 TPE 15x	Professional Elective-I	ME	3	-	-	3	50	50	100	3
6	PE	24 TPE 16x	Professional Elective-II	ME	3	-	-	3	50	50	100	3
7	PC	24 TPE TS1	Technical Seminar-I	ME	-		3	1.5	50	-	50	-
8	PC	24 TPE LB1	Thermal Engineering Laboratory	ME	-	-	3	1.5	50	-	50	-
L: Lecture, T-Tutorial, P-Practical/Drawing, CIE: Continuous Internal Evaluation, SEE: Semester End Examination				<b>Total</b>	<b>21</b>	<b>-</b>	<b>6</b>	<b>24</b>	<b>400</b>	<b>300</b>	<b>700</b>	<b>-</b>

Professional Elective-I		Professional Elective-II	
24TPE151	Energy Conservation and Management	24TPE161	Theory of IC Engines
24TPE152	Thermal Power Station	24TPE162	Refrigeration and Air Conditioning
24TPE153	Modeling & Simulation of Thermal Systems	24TPE163	Experimental Methods in Thermal Power Engineering



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### 3<sup>rd</sup> SEMESTER MTech

SI No	Course Code		Course Title	Teaching Dept.	L	T	P	Credits	CIE Marks	SEE Marks	Total Marks	Exam Hrs.
1	PC	24 TPE IS1	<b>Internship</b>	<b>ME</b>	-	-	-	<b>9</b>	100	-	100	-
2	PC	24 TPE NE1	<b>Online Courses:NPTEL/MOOC/Swayam</b>	<b>ME</b>				<b>3</b>	50	50	100	
3	PC	24 TPE PW1	<b>Project Phase-I</b>	<b>ME</b>	-	-	-	<b>8</b>	50	-	50	-
L: Lecture, T-Tutorial, P-Practical/Drawing, CIE: Continuous Internal Evaluation, SEE: Semester End Examination				<b>Total</b>	-	-	-	<b>20</b>	<b>150</b>	<b>50</b>	<b>150</b>	-

### 4<sup>th</sup> SEMESTER MTech

SI No	Course Code		Course Title	Teaching Dept.	L	T	P	Credits	CIE Marks	SEE Marks	Total Marks	Exam Hrs.
1	PC	24 TPE PW2	<b>Professional Work Phase-II</b>	<b>ME</b>	-	-	-	<b>20</b>	100	200	300	-
2 Paper Publications is compulsory (Conference/Journal)												
L: Lecture, T-Tutorial, P-Practical/Drawing, CIE: Continuous Internal Evaluation, SEE: Semester End Examination				<b>Total</b>	-	-	-	20	<b>100</b>	<b>200</b>	300	-
Credits Distribution: 1 <sup>st</sup> Sem=24, 2 <sup>nd</sup> Sem =24, 3 <sup>rd</sup> Sem=20, 4 <sup>th</sup> Sem=20, Total Credits=24+24+20+20=88 Credits												

**Total Credits: 24+24+20+20=88**



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## 11. Chapter V: Summary of Findings

This chapter be a brief statement of analysis already stated in the findings section – 3 pages

## 12. Chapter VI: Conclusions and suggestions – 3 pages

Total number of pages must be at least 80 but not more than 100.

13. **Bibliography:** References like articles, books, websites, etc., used in the project work must be included in this section strictly following the citation style prescribed by the University.

14. **Appendix:** This will include printed secondary data (only if it is very critical) and any questionnaire used for the study.