

# PEOPLE'S UNIVERSITY, BHOPAL

## Scheme of Examination

***(With Effective from Academic Session 2019-20 onwards)***

**PROGRAMME:** Master of Technology

**BRANCH :** Mechanical Engineering

**Specialization:** Thermal Engineering

**SEMESTER: I**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Teaching Hour Per Week	Total Credits	Remark			
			Theory Slot				Practical Slot								
			End Sem	MST	Quiz, Assignment	Attendance	End Sem	Term Work							
								Lab Performance, Lab Record & Viva	Assignment /Quiz/Attendance						
			L	T	P										
1	MT1101	Research Methodology & IPR	70	15	10	05	-	-	-	100	3	1	-	One hour Lecture (L) refers to 1 credit, One hour Tutorial (T) refers to 1 credit, One hour Practical (P) refers to 0.5 credit.	
2	MTTE 1102	Advanced Thermodynamics	70	15	10	05	-	-	100	3	1	-			
3	MTTE 1103	Advanced Fluid Mechanics	70	15	10	05	-	-	100	3	1	-			
4	MTTE 1104	IC Engine & Alternate Fuels.	70	15	10	05	-	-	100	3	1	-			
5	MTTE 1105	Boiler Auxiliaries & Performance Evaluation.	70	15	10	05	-	-	100	3	1	-			
6	MTTE 1106	Fluid Mechanics Lab	-	-	-	-	70	15	15	100	-	-	4		
7	MTTE 1107	IC Engine Lab	-	-	-	-	70	15	15	100	-	-	4		
8	MT 1108	# Audit Course I (Value Education)	35	-	10	05	-	-	-	50	2	-	-		
<b>Total</b>			<b>350</b>	<b>75</b>	<b>50</b>	<b>25</b>	<b>140</b>	<b>30</b>	<b>30</b>	<b>700</b>	<b>17</b>	<b>05</b>	<b>08</b>	<b>24</b>	<b>700</b>

# Mandatory (Non Credit) subject according to AICTE. Non University Examination, End Sem marks not to be included in total marks and credit. Students must pass in this subject.

MST: Mid Semester Test (at least twice per Semester)

L: Lecture

T: Tutorial

P: Practical

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**PROGRAMME:** Master of Technology  
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**Specialization:** Thermal Engineering.

**SEMESTER: II**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted								Teaching Hour Per Week			Total Credits	Remark	
			Theory Slot				Practical Slot				Total Marks	L	T			P
			End Sem	MST	Quiz, Assignment	Attendance	End Sem	Term Work								
								Lab Performance, Lab Record & Viva	Assignment /Quiz/Attendance							
1	Refer Table-I	Professional Elective - I	70	15	10	05	-	-	-	100	3	1	-	<b>04</b> One hour Lecture (L) refers to 1 credit, One hour Tutorial (T) refers to 1 credit, One hour Practical (P) refers to 0.5 credit.		
2	MTTE 1202	Advanced Refrigeration & Air Conditioning	70	15	10	05	-	-	-	100	3	1	-		<b>04</b>	
3	MTTE 1203	Advanced Heat Transfer	70	15	10	05	-	-	-	100	3	1	-		<b>04</b>	
4	MTTE 1204	Computation Fluid Dynamics	70	15	10	05	-	-	-	100	3	1	-		<b>04</b>	
5	MTTE 1205	Energy Conservation Management & Audit	70	15	10	05	-	-	-	100	3	1	-		<b>04</b>	
6	MTTE 1206	Refrigeration & Air Conditioning Lab	-	-	-	-	70	15	15	100	-	-	4		<b>02</b>	
7	MTTE 1207	Computation Fluid Dynamics Lab	-	-	-	-	70	15	15	100	-	-	4		<b>02</b>	
8	MT 1208	# Audit Course II (English for Research Paper Writing)	35	-	10	05	-	-	-	50	2	-	-		<b>0</b>	
<b>Total</b>			<b>350</b>	<b>75</b>	<b>50</b>	<b>25</b>	<b>140</b>	<b>30</b>	<b>30</b>	<b>700</b>	<b>17</b>	<b>05</b>	<b>08</b>	<b>24</b>	<b>700</b>	

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**Table I: Professional Elective-I**

Professional Elective –I Subject Code	MTTE12101	MTTE12102	MTTE12103
Name of Professional Elective Subject	Environmental Pollution and Control	Solar Energy Technology	Gas Dynamics

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**Specialization:** Thermal Engineering

**SEMESTER:** III

S.No.	Subject Code	Subject Name	Maximum Marks Allotted							Teaching Hour Per Week	Total Credits	Remark			
			Theory Slot				Practical Slot								
			End Sem	MST	Quiz, Assignment	Attendance	End Sem	Term Work							
								Lab Performance, Lab Record & Viva Assignment /Quiz/Attendance	Total Marks				L	T	P
1	Refer Table- II	Open Elective	70	15	10	05	-	-	-	100	3	1	-	One hour Lecture (L) refers to 1 credit, One hour Tutorial (T) refers to 1 credit, One hour Practical (P) refers to 0.5 credit.	
2	Refer Table- III	Professional Elective -II	70	15	10	05	-	-	-	100	3	1	-		
5	MTTE 1303	Pre-Dissertation	-	-	-	-	200	50	50	300	-	-	12		
<b>Total</b>			<b>140</b>	<b>30</b>	<b>20</b>	<b>10</b>	<b>200</b>	<b>50</b>	<b>50</b>	<b>500</b>	<b>06</b>	<b>02</b>	<b>12</b>		<b>14</b>
<b>Grand Total</b>															<b>500</b>

**Table II: Open Elective**

Open Elective Subject Code	MT13101	MT13102	MT13103
Name of Open Elective Subject	Industrial Safety	Waste to Energy	Cost Management of Engineering Projects

**Table III: Professional Elective-II**

Professional Elective –II Subject Code	MTTE13201	MTTE13202	MTTE13203
Name of Professional Elective II Subject	Analysis of Thermal Power Cycles	Finite Element Method in Heat Transfer Analysis	Computer Aided Design of Thermal System

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**Specialization:** Thermal Engineering.

**SEMESTER: IV**

S.No.	Subject Code	Subject Name	Maximum Marks Allotted								Teaching Hour Per Week			Total Credits	Remark	
			Theory Slot				Practical Slot				Total Marks	L	T			P
			End Sem	MST	Quiz, Assignment	Attendance	End Sem	Term Work								
								Lab Performance, Lab Record & Viva	Assignment /Quiz/Attendance							
1	MTTE1401	Dissertation	-	-	-	-	300	100	100	500	-	-	32	<b>16</b>	One hour Lecture (L) refers to 1 credit, One hour Tutorial (T) refers to 1 credit, One hour Practical (P) refers to 0.5 credit.	
<b>Total</b>			-	-	-	-	<b>300</b>	<b>100</b>	<b>100</b>	<b>500</b>	-	-	<b>32</b>	<b>16</b>	<b>500</b>	

MST: Mid Semester Test (at least twice per Semester)

L: Lecture

T: Tutorial

P: Practical