

# M.E. (Thermal)

## SEMESTER-I

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
712101N	Applied Thermodynamics & Heat Transfer	4	4	0	4	4
712102N	Advanced Refrigeration	4	0	2	5	5
712103N	Fluid Mechanics & Gas Dynamics	4	0	2	5	5
710001N	Communication and Research Skills	2	2	0	3	3
712104N	Combustion Engineering (Major Elective 1)	3	2	0	4	4
710205N	Internet Technology (Int.Elective)	3	0	2	4	4
<b>TOTAL</b>		<b>20</b>	<b>8</b>	<b>6</b>	<b>25</b>	<b>25</b>

## SEMESTER-II

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
1720001	Principles of Management	3	0	0	3	3
1722101	Design of Heat Exchange Equipments	3	0	2	4	4
1722102	Thermal Power Plant Engineering	4	0	2	5	5
1722103	Major Elective II - Advanced Air conditioning	4	0	2	5	5
1721005	Major Elective III - Computational Fluid Dynamics	3	0	2	4	4
1720110	Inter Disciplinary Elective II- Numerical Methods	3	0	2	4	4
<b>TOTAL</b>		<b>20</b>	<b>0</b>	<b>8</b>	<b>25</b>	<b>25</b>

**SEMESTER-III**

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
730004	Entrepreneurship Development	2	0	0	2	2
732101	Major Elective IV -Advanced Internal Combustion Engine	4	0	2	5	5
732102	Major Elective IV - Cryogenic Engineering	4	0	2	5	5
732103	Major Elective IV - Economics & Management of Thermal Systems	4	0	2	5	5
730001	Seminar	0	0	4	2	2
730002	Presentation of Literature Review	-	-	-	2	2
730003	Dissertation Phase-I	0	0	18	9	9
<b>TOTAL</b>		<b>14</b>	<b>0</b>	<b>28</b>	<b>30</b>	<b>30</b>

**SEMESTER-IV**

Course Code	Course Title	Total Number of contact hours				Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
742101	Non-conventional Energy Conversion Systems	4	-	2	5	5
740001	Mid semester Thesis Progress Review	-	-	-	5	5
740002	Dissertation Phase - II	0	0	24	10	10
<b>TOTAL</b>		<b>4</b>	<b>0</b>	<b>26</b>	<b>20</b>	<b>20</b>