

DELHI TECHNOLOGICAL UNIVERSITY														
SCHEME OF TEACHING AND EVALUATION														
MASTER OF TECHNOLOGY IN THERMAL ENGINEERING (THE)														
Semester-I														
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group A	1	THE501	Thermodynamics and Gas Dynamics	Core	4	3	0	2	15	25	20	40	-	17
	2	THE503	Heat Transfer & Fluid Mechanics	Core	4	3	0	2	15	25	20	40	-	
Group B	3	THE5401/5403/.....	Elective 1	Elective	4	3/4	0	2/0	15/20	25/0	20/30	40/50	-	
	4	THE5301/5303/.....	Elective 2	Elective	3	3	0	0	20	-	30	50	-	
	5	THE5201/5203/...../ UEC5201/5203/.....	Elective 3/University Elective I	Elective	2	2	0	0	20	-	30	50	-	
Semester-II														
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group C	1	THE502	Energy Systems	Core	4	3	0	2	15	25	20	40	-	17
	2	THE504	Turbomachines	Core	4	3	0	2	15	25	20	40	-	
Group D	3	THE5402/5404/.....	Elective 4	Elective	4	3/4	0	2/0	15/20	25/0	20/30	40/50	-	
	4	THE5302/5304/.....	Elective 5	Elective	3	3	0	0	20	-	30	50	-	
	5	THE5202/5204/...../ UEC5202/5204/.....	Elective 6/ University Elective II	Elective	2	2	0	0	20	-	30	50	-	
Semester-III														
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group E	Track 1													12
	1	THE651	Research Project	Core	12	0	0	12	0	-	0	100	-	
	Track 2													
	1	THE601	Major Project I	Core	3						40	60		

	2	THE6401/6403/.....	Elective 7	Elective	4	3/4	0	2/0	15/20	25/0	20/30	40/50	-	
	3	THE6301/6303/.....	Elective 8	Elective	3	3	0	0	20	-	30	50	-	
	4	THE6201/6203/.....	Elective 9	Elective	2	2	0	0	20	-	30	50	-	
Semester-IV														
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE	Total Credits
Group F	Track 1													12
	1	THE652	Research Project	Core	12	0	0	12	0	-	0	100	-	
	Track 2													
	1	THE602	Major Project II	Core	12	0	0	12	0	-	0	100	-	

LIST OF ELECTIVES :													
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 1	1	THE5401	Advanced Refrigeration Systems	Elective	4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	2	THE5403	Advanced I C Engines		4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	3	THE5405	Power Plant Engg.		4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 2	1	THE5301	Computational Methods in Thermal & Fluid Engineering	Elective	3	3	0	0	20	-	30	50	-
	2	THE5303	Optimization Techniques		3	3	0	0	20	-	30	50	-
	3	THE5305	Finite Element Methods		3	3	0	0	20	-	30	50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 3	1	THE5201	Seminar	Elective	2	2	0	0	2	-	-	100	-
	2	THE5203	Renewable & Non-Conventional Energy Sources		2	2	0	0	20	-	30	50	-
	3	THE5205	Measurement & Control Techniques		2	2	0	0	20	-	30	50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 4	1	THE5402	Advanced Heat Transfer	Elective	4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	2	THE5404	Advanced Fluid Dynamics		4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	3	THE5406	Advanced Air Conditioning Systems		4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 5	1	THE5302	Minor Project	Elective	3	0	0	-	-	40	0	-	60
	2	THE5304	Solar Engineering Thermal Processes		3	3	0	0	20	-	30	50	-
	3	THE5306	Thermal Energy Conservation		3	3	0	0	20	-	30	50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 6	1	THE5202	Steam and Gas Turbines	Elective	2	2	0	0	20	-	30	50	-
	2	THE5204	Combustion & Emissions		2	2	0	0	20	-	30	50	-
	3	THE5206	Advanced Cryogenic systems		2	2	0	0	20	-	30	50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective	1	THE6401	Advanced Power Generation Systems	Elective	4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	2	THE6403	Micro / Nano scale Heat Transfer		4	3/4	0	2/0	15/20	25/0	20/30	40/50	-

	3	THE6405	Combustion Modelling		4	3/4	0	2/0	15/20	25/0	20/30	40/50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 8	1	THE6301	Advanced Heating Ventilation & Air Conditioning	Elective	3	3	0	0	20	-	30	50	-
	2	THE6303	Two Phase Flow Heat Transfer		3	3	0	0	20	-	30	50	-
	3	THE6305	Exergy Analysis of Thermal Systems		3	3	0	0	20	-	30	50	-
	S. No.	Course Code	Course Name	Type/Area	Cr	L	T	P	CWS	PRS	MTE	ETE	PRE
Elective 9	1	THE6201	Advanced Energy Systems	Elective	2	2	0	0	20	-	30	50	-
	2	THE6203	Dynamics and Control of Mechanical Systems		2	2	0	0	20	-	30	50	-
	3	THE6205	Alternative Fuels		2	2	0	0	20	-	30	50	-