Course Outcomes		**Department -**	**Mechanical Engineering**
Course Title:	**Advanced Mathematics**		
Course Code:	**MTTE-101**		
Program:	**M.Tech.**		**Semester: I**
Credits:	**T-1**	**L-3**	**Total-4**
Course Outcome			
1	Use mathematical tool to understand engineering principles and concepts.		
2	Find the distance between points with the help of co-ordinate geometry		
3	Apply Differentiation to velocity, acceleration maximum and minimum		
4	Apply integration for finding area and volume.		
5	Apply basic knowledge of statistics for sampling, data collection, standard deviation		
Course Outcomes		**Department -**	**Mechanical Engineering**
Course Title:	**Advanced Thermodynamics**		
Course Code:	**MTTE-102**		
Program:	**M.Tech.**		**Semester: I**
Credits:	**T-1**	**L-3**	**Total-4**
Course Outcome			
1	Explain basic concepts such as thermodynamic temperature, equilibrium, and reversibility		
2	Analyse Phase and reaction equilibriums:		
3	knowledge about Steam and gas turbines principles, schematic plantlayouts, application ofapp		
4	study on Process heat, heat sources and energy transport systems		
5	Determineair/fuel ratios andexhaust analysisfor common fuelsand describe their		

Course Outcomes		**Department -**	**Mechanical Engineering**
Course Title:	**Advanced Fluid Mechanics**		
Course Code:	**MTTE-103**		
Program:	**M.Tech.**		**Semester: I**
Credits:	**T-1**	**L-3**	**Total-4**
Course Outcome			
1	Explain This course is a survey of principal concepts and methods of fluid dynamics		
2	introduction to turbulence lift and drag surface tension and surface tension driven flows.		
3	computational fluid dynamicsefficiency, axial thrust, efficiencies, heatexchanger effectivenes		
4	Advanced Fluid Mechanics" courses typically cover a variety of topics involving fluids in various multiple states		
5	Understand the Theory and design of hydro-turbines and centrifugal pumps		
Course Outcomes		**Department -**	**Mechanical Engineering**
Course Title:	**IC Engines & Alternate Fuels**		
Course Code:	**MTTE-104**		
Program:	**M.Tech.**		**Semester: I**
Credits:	**T-1**	**L-3**	**Total-4**
Course Outcome			
1	Concepts Fuels for use in S.I. Engines		
2	Combustion in S.I. Engines		
3	Performance & testing of I.C. Engine		
4	Non Conventional I.C. Engines conservation equation for transport phenomena		
5	Introduction, Necessity for substitute Fuels.		

Course Outcomes		**Department -**	**Mechanical Engineering**
Course Title:	**Design of Heat Exchangers**		
Course Code:	**MTTE-105**		
Program:	**M.Tech.**		**Semester: I**
Credits:	**T-1**	**L-3**	**Total-4**
Course Outcome			
1	Students will demonstrate knowledge Types of Heat Exchangers		
2	Students will demonstrate the ability to Numerical solution Procedures heat exchanger		
3	Computational fluid dynamicsefficiency, axial thrust, efficiencies, heatexchanger effectivenes		
4	Hydraulic design of Commonly used heat exchangers.		
5	Students will demonstrate an understanding of tits mathematical model, micro Heat Exchangers		
Course Outcomes		**Department -**	**Mechanical Engineering**
Course Title:	**Lab-I**		
Course Code:	**MTTE-106**		
Program:	**M.Tech.**		**Semester: I**
Credits:	**T-0**	**P-6**	**Total-6**
Course Outcome			
1	Study of combustion of flame		
2	Experiment on thermodynamics laws		
3	To Determine Volume Flow Rate for Low Speed Wind Tunnel using Pitot Tube.		
4	To find out the terminal velocity of a spherical body in water.		
5	Reynolds experiment for demonstration of stream lines & turbulent flow		

Course Outcomes		**Department -**	**Mechanical Engineering**
Course Title:	**Lab-II**		
Course Code:	**MTTE-107**		
Program:	**M.Tech.**		**Semester: I**
Credits:	**T-0**	**P-6**	**Total-6**
Course Outcome			
1	Test on four stroke Diesel Engine.		
2	Morse Test on multi cylinder Engine		
3	Test on computer controlled I.C. Engine		
4	Study of Heat Exchangers.		
5	Test on shell and tube type heat exchanger.		