

SCHOOL OF RESEARCH & TECHNOLOGY

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Course Outcomes		Department -	Mechanical Engineering
Course Title:	Sources		
Course Code:	MTTE-301		
Program:	M.Tech.	Semester: III	
Credits:	T-1	L-3	Total-4
Course Outcome			
1	To understand Transient heat conduction		
2	to understand Extended surfaces		
3	To understand the Thermal boundary layers		
4	Students will understand knowledge of the Heat transfer with phase change		
5	understand the knowledge of Radiative exchange in furnaces		
Course Outcomes		Department -	Mechanical Engineering
Course Title: COMPUTATIONAL FLUID DYNAMICS			
Course Code: MTTE-302			
Program: M.Tech.		Semester: III	
Credits: T-1		L-3	Total-4
Course Outcome			
1	provide the student the significant level of experience in the use of modern CFD use of software for the analysis of complex fluid-flow systems.		
2	Improve the students understanding of the basic principles of Fluid Mechanics		
3	Improve the students research and communiacion skill using the self directed ,detailed study of a comples fluid flow problems.		
Course Outcomes		Department -	Mechanical Engineering
Course Title: BOILER AUXILIARIES AND PERFORMANCE EVALUATION			
Course Code: MTTE-303			
Program: M.Tech.		Semester: III	
Credits: T-1		L-3	Total-4
Course Outcome			
1	To understand the various power plant cycle in detail.		
2	To understand the nuclear power plant		
3	To study the different types of boiler in power plant		
4	To Study the heat & maas Transfer in Boiler		
5	To Study the Flowchart of Temperature and Heat		



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Course Outcomes		Department -	Mechanical Engineering
Course Title:	TRIBOLOGY		
Course Code:	MTTE-304 (Elective-I)		
Program:	M.Tech.	Semester: III	
Credits:	T-1	L-3	Total-4
Course Outcome			
1	To understand Introduction to metrology Precision, Accuracy, Sensitivity, Readability, Calibration		
2	To understand Slip gauge and its accessories, Length bars, Sigma comparator, Pneumatic comparator,		
3	To understand Limits, Fits ,Tolerances and Gauges Concept of Limits, Fits, And Tolerances		
4	To understand Angular Measurement Concept, Instruments For Angular, Universal Bevel Protractor, Sine Bar, Spirit Level, Principle of Working of Clinometers, Angle Gauges		
5	To understand Thread Metrology ISO grade and fits of thread, Errors in threads, Pitch errors		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	ANALYSIS OF THERMAL POWER CYCLE		
Course Code:	MTTE-314 (Elective-I)		
Program:	M.Tech.	Semester: III	
Credits:	T-1	L-3	Total-4
Course Outcome			
1	To understand Steam power plant cycle		
2	To understand Cogeneration , Condensing turbines		
3	To understand Air standard cycles		
4	To understand Open cycle gas turbine		
5	To understand Refrigeration Cycles		

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Course Outcomes		Department -	Mechanical Engineering
Course Title:	ANALYSIS AND DESIGN OF PRESSURE VESSELS		
Course Code:	MTTE-324 (Elective-I)		
Program:	M.Tech.	Semester: III	
Credits:	T-1	L-3	Total-4
Course Outcome			
1	To understand Establishment of design conditions , Fracture Mechanics		
2	To understand Cylindrical shells , Thick cylinders, Lamé's solution		
3	To understand Application of general analysis , Flat closure plates		
4	To understand Development of cracks , Fracture mechanics		
5	To understand Finite element analysis for high pressure and high temperature components.		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	ENVIRONMENTAL POLLUTION AND CONTROL		
Course Code:	MTTE-305 (Elective-II)		
Program:	M.Tech.	Semester: III	
Credits:	T-1	L-3	Total-4
Course Outcome			
1	To understand Identify the major sources and sinks of air pollutants.		
2	To understand Understand the key chemical transformations of air pollution		
3	To understand The air pollution regulation and its scientific basis.		
4	To understand Describe engineering solutions to air pollution problems.		
5	To understand Introduces the chemistry and physics of air pollution.		

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Course Outcomes		Department -	Mechanical Engineering
Course Title:	FINITE ELEMENT METHOD IN HEAT TRANSFER ANALYSIS		
Course Code:	MTTE-315 (Elective-II)		
Program:	M.Tech.	Semester: III	
Credits:	T-1	L-3	Total-4
Course Outcome			
1	To understand Introduction, Weighted Residual Methods, Shape functions		
2	To understand Modeling of Heat Conduction, Variational Formulation		
3	To understand Introduction – A one dimensional Problem solved using a single element – Linear		
4	To understand Time stepping methods for Heat Transfer – Galerkin's approach in Non-linear transient heat conduction problems		
5	To understand Introduction, Basic Equations, Galerkin's Methods for steady		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	COMPUTER AIDED DESIGN OF THERMAL SYSTEM		
Course Code:	MTTE-325 (Elective-II)		
Program:	M.Tech.	Semester: III	
Credits:	T-1	L-3	Total-4
Course Outcome			
1	To understand Basic Consideration in Design		
2	To understand Modeling of Thermal System		
3	To understand Numerical Modeling & Simulation		
4	To understand Optimization: Basic Concepts, Objective function		
5	To understand Optimization Methods: Calculus Method		

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Course Outcomes		Department -	Mechanical Engineering
Course Title:		SEMINAR	
Course Code:		MTTE-306	
Program:		M.Tech.	Semester: III
Credits:		T-0	P-6
Course Outcome		Total-6	
1	To understand Presentation on the relevant topic.		
2	To understand It has the function of bringing together small groups for recurring meetings, focusing each time on some particular subject		
3	To understand Understand the importance of strength & weakness of individual		
4	To understand Implementing the tips of body language for different situation		
5	To understand Preparation of content for deliver in seminar		
Course Outcomes		Department -	Mechanical Engineering
Course Title:		Minor Project	
Course Code:		MTTE-307	
Program:		M.Tech.	Semester: III
Credits:		T-0	P-6
Course Outcome		Total-6	
1	Ability to understand and investigate complex mechanical engineering problems experimentally.		
2	Ability to apply knowledge of mathematics, science and mechanical engineering fundamentals for solving problems.		
3	Ability to Identify, formulate and analyze mechanical engineering problems arriving at meaningful conclusions involving mathematical inferences.		
4	Ability to design and develop mechanical components and processes to meet desired needs considering public health, safety, cultural, social, and environmental aspects.		
5	Ability to apply knowledge of engineering and management principles to lead teams and manage projects in multidisciplinary environments.		