

SCHOOL OF RESEARCH & TECHNOLOGY

AN ISO 9001: 2008 Certified Institute

Course Outcomes		Department -	Mechanical Engineering
Course Title:	Energy Sources and Audit		
Course Code:	MET-801		
Program:	B.Tech.	Semester: VIII	
Credits:	T-4	P-0	Total:4
Course Outcome			
1	Energy audits should identify the greatest opportunities for energy savings.		
2	Energy audits can identify potential for improvement in business and production processes.		
3	Energy audits can help organisations reduce the environmental impact of their activities.		
4	Energy audits can help some organisations to fulfil obligations under their national with respect to emissions to air and pollution control.		
5	CO2 squstration (carbon credits)		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	Work-study and Ergonomics (Elective-I)		
Course Code:	MET-8101		
Program:	B.Tech.	Semester: VIII	
Credits:	T-04	P-0	Total:04
Course Outcome			
1	Work study has come to concern itself more and more intensively with all kinds of work systems		
2	Motion study and work measurement, has gradually given an increasing measure of attention to all systems elements.		
3	Work study has come to concern itself more and more intensively with all kinds of work systems and, after the one-sided stress placed initially on motion study and work measurement, has gradually		
4	Ergonomics refers to the complex relationship between workers and their work that permeates every aspect of the workplace.		
5	It discusses the theories of human physiology and cognitive sciences, and evaluates the application of these theories to design a work environment that optimizes work potential and reduces threats of		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	Fracture Mechanism & Failure Analysis (Elective-I)		
Course Code:	MET-8102		
Program:	B.Tech.	Semester: VIII	
Credits:	T-04	P-0	Total:04
Course Outcome			
1	To understand the Concepts of fatigue failure, statistical methods.		
2	To understand and analysis Fatigue Testing Machines		
3	To analysis Mechanisms of creep, Transient creep		
4	To understand the stress intensity factor of a crack, stress intensity factor in finite bodies		



SCHOOL OF RESEARCH & TECHNOLOGY

AN ISO 9001: 2008 Certified Institute

Course Outcomes		Department -	Mechanical Engineering
Course Title:	Mechatronics (Elective-I)		
Course Code:	MET-8103		
Program:	B.Tech.	Semester: VIII	
Credits:	T-04	P-0	Total:04
Course Outcome			
1	To understand the concepts of Introduction to Mechatronics and need and applications		
2	To understand the importance of sensors in Mechatronics		
3	To analysis the control Elements and Actuators		
4	To understand the Computational Elements and Controllers		
5	To understand Interfacing Systems and Application of Mechatronics Systems:		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	Quality Control and Reliability		
Course Code:	MET-803		
Program:	B.Tech.	Semester: VIII	
Credits:	T-4	P-2	Total= 6
Course Outcome			
1	To study the basic concept of Quality tool & Techniques		
2	To study the concept of source of variations for Variables		
3	To study the concept of source of variations for Attributes		
4	To study the basic concept of Reliability of products or process		
5	To study the tools of Reliability and product life cycle		



SCHOOL OF RESEARCH & TECHNOLOGY

AN ISO 9001: 2008 Certified Institute

Course Outcomes		Department -	Mechanical Engineering
Course Title:	Machine Design - II		
Course Code:	MET-804		
Program:	B.Tech.	Semester: VIII	
Credits:	T-4	P-2	Total-6
Course Outcome			
1	Able to understand Design Philosophy, Economic, Social and Environmental Feasibility and Manufacturing Considerations.		
2	Able to design mechanical drives i.e. Belts and Gears to withstand the loads and deformations for a given application, while considering additional specifications from data book		
3	Numerically able to design I.C. Engine Parts.		
4	To understand the concept of Optimization, its techniques along with applications and numerically design problems by using optimization methods.		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	Mechanical Engineering Software lab – IV		
Course Code:	MET-805		
Program:	B.Tech.	Semester: VIII	
Credits:	T-0	P-2	Total-2
Course Outcome			
1	To understand Design Procedure and design considerations.		
2	To practical use of Data book and other International Engineering Standards in machine part design.		
3	To understand the Material Properties , Failure theories, Strength Characteristic of Machine Components.		
4	To understand the principles involved in evaluating the dimensions of a component i.e. Knuckle joint, cotter joint Levers, Shafts, Keys, Coupling, Springs and Fasters.		

SCHOOL OF RESEARCH & TECHNOLOGY

AN ISO 9001: 2008 Certified Institute

Course Outcomes		Department -	Mechanical Engineering
Course Title:	Major Project-II		
Course Code:	MET-806		
Program:	B.Tech.	Semester: VIII	
Credits:	T-0	P-8	Total-8
Course Outcome			
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.		
Course Outcomes		Department -	Mechanical Engineering
Course Title:	Professional Ethics and Proficiency		
Course Code:	BT-807		
Program:	B.Tech.	Semester: VIII	
Credits:	T-	P-2	Total-2
Course Outcome			
1	To increase one's ability to deal effectively with moral complexity in engineering practice.		
2	Improvement of the cognitive skills		
3	To resolve the moral issues in the profession		
4	Study on ethics helps to know the people's beliefs, values, and morals.		
5	To act in morally desirable ways, towards moral commitment and responsible conduct .		