GREGORIAN INSTITUTE OF TECHNOLOGY

Kangazha, Kottayam, 686555

Run by MGM Education & Charitable Trust

Approved by AICTE, New Delhi & Affiliated to DTE, Kerala

Course Outcome of Semester IV (For all courses)

Name of Course	Course Code	Course Outcome	Statement
THERMAL ENGINEERING	CO210	CO210.1	Explain the concepts in thermodynamics and laws of thermodynamics.
		CO210.2	Describe air standard efficiency of thermodynamic cycles and performance testing of IC engines.
		CO210.3	Explain the properties of steam and working principle of boilers and turbines.
		CO210.4	Explain different modes of Heat transfer and working of heat exchangers and compressors.

Name of Course	Course Code	Course Outcome	Statement
FLUID MECHANICS & HYDRAULIC MACHINERY	CO211	CO211.1	Explain fluid properties and pressure measurement techniques.
		CO211.2	Apply conservation laws to fluid flow over notches and, through pipes and orifices.
		CO211.3	Describe the construction, working and performance testing of hydraulic turbines.
		CO211.4	Describe the construction, working and performance testing of hydraulic pumps.

Name of Course	Course Code	Course Outcome	Statement
AUTOMOBILE ENGINEERING	CO212	CO212.1	Describe the classification and basic structure of an automobile, Basic engine component, Cooling systems, Lubrication systems, Fuel systems, Ignition systems and Governing systems.
		CO212.2	Explain the Transmission system in Automobiles.
		CO212.3	Explain the working of Ignition, suspension, steering and braking system of Automobile.
		CO212.4	Compare Electric, Hybrid-Electric and Plug in Hybrid vehicles, Emission Control and review Indian motor vehicle Act.

Name of Course	Course Code	Course Outcome	Statement
COMMUNITY SKILLS IN INDIAN KNOWLEDGE SYSTEM	CO213	CO213.1	Identify knowledge, skills, and practices followed traditionally.
		CO213.2	Explain process, methods and implements followed traditionally.
		CO213.3	Identify improvements in process and tools to enhance productivity and living standards of the community.
		CO213.4	Make use of socially relevant technologies in the field of water, waste, energy management for the community.

Name of Course	Course Code	Course Outcome	Statement
INDUSTRIAL ENGINEERING	CO214	CO214.1	Describe the functions of PPC, different types of plant layout and plant maintenance.
		CO214.2	Apply method study and work measurement techniques in job standardization.
		CO214.3	Interpret the control charts used in quality control.
		CO214.4	Explain the risks involved in acceptance sampling, components of selling price of a product and the depreciation of assets.

Name of Course	Course Code	Course Outcome	Statement
THERMAL ENGINEERING LAB	CO215	CO215.1	Apply theoretical knowledge in evaluating the performance of IC engines.
		CO215.2	Determination of viscosity, calorific value, flash point and fire point of fuels.
		CO215.3	Demonstrate performance test on Heat exchangers.
		CO215.4	Conduct performance test on air compressors.

Name of Course	Course Code	Course Outcome	Statement
FLUID MECHANICS LAB	CO216	CO216.1	Describe the methods for pressure measurement and determine the metacentric height of floating body.
		CO216.2	Measure various properties such as pressure, velocity, flow rate using various instruments and perform the experiments to understand Bernoulli's theorem and its applications.
		CO216.3	Distinguish various pipe fittings and determine coefficient of friction and minor losses in pipe flow.
		CO216.4	Determine the co-efficient of discharge of Notches and Hydraulic co-efficient of orifice based on experiments.

Name of Course	Course Code	Course Outcome	Statement
MECHANICAL WORKSHOP IV	CO217	CO217.1	Perform machining operations on lathe and shaper.
		CO217.2	Apply technical skill to practice fitting operations and use of various gauges.
		CO217.3	Perform fabrication works by making semi-permanent joints in metal sheets and Practice welding operations.
		CO217.4	Apply technical skill to perform smithy and foundry work.

Name of Course	Course Code	Course Outcome	Statement
MINOR PROJECT	CO218	CO218.1	Apply housekeeping standards as part of lean manufacturing for workplace maintenance.
		CO218.2	Plan procedures for maintenance and preventive maintenance of equipment, tools, machineries, etc.
		CO218.3	Choose methods for calibration of measuring and test equipment.
		CO218.4	Employ skills acquired to solve problems of social significance or to simplifying day to day tasks.

Name of Course	Course Code	Course Outcome	Statement
SUMMER INTERNSHIP II	CO219	CO219.1	Apply theoretical concepts gathered from the classroom to practices followed in industry.
		CO219.2	Identify industrial norms on safety, duties, responsibilities, and ethics of an engineer.
		CO219.3	Identify the social, economic and administrative factors that influence the working environment of industrial organizations.
		CO219.4	Develop experience in writing Technical reports/projects.
		CO219.5	Demonstrate the ability of learning current technological trends.