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 II (For all courses)

Name of Course	Course Code	Course Outcome	Statement
MATHEMATICS II	CO110	CO110.1	Make use of Determinants and Matrices in finding the solutions of a linear system.
		CO110.2	Identify the concept of scalar and vector quantities and apply it in engineering problems.
		CO110.3	Build the concept of integration as the inverse operation of differentiation.
		CO110.4	Apply integration techniques to solve different engineering problems and differential equations.

Name of Course	Course Code	Course Outcome	Statement
APPLIED PHYSICS II	CO111	CO111.1	Calculate the characteristics of waves.
		CO111.2	Compute the power of lens.
		CO111.3	Convert galvanometer into ammeter and voltmeter.
		CO111.4	Explain the basic principles of semiconductor physics, photoelectric effect, LASER action and nanoscience.

Name of Course	Course Code	Course Outcome	Statement
ENVIRONMENTAL SCIENCE	CO112	CO112.1	Explain the ecosystem and terminology involved in it.
		CO112.2	Explain air, water, soil and noise pollution, and control measures and acts.
		CO112.3	Explain different renewable energy resources and efficient process of harvesting.
		CO112.4	Explain solid Waste Management, ISO 14000 & Environmental Management and conduct a case study on any one environmental problem / application of sustainable energy resources.

Name of Course	Course Code	Course Outcome	Statement
ENGINEERING MECHANICS	CO113	CO113.1	Identify the force systems for given conditions by applying the basics of mechanics.
		CO113.2	Apply conditions of static equilibrium to determine unknown force(s) of different structural elements.
		CO113.3	Solve problems involving rigid bodies by applying the properties of distributed areas and masses.
		CO113.4	Determine structural behavior of materials under various loading conditions.

Name of Course	Course Code	Course Outcome	Statement
MANUFACTURING TECHNOLOGY	CO114	CO114.1	Explain manufacturing process and the relevance of foundry in manufacturing.
		CO114.2	Identify and explain different types of casting and metal working processes.
		CO114.3	Describe metal joining process and the areas of applications of a particular joining process.
		CO114.4	Explain the principle and concepts of forging & press working.

Name of Course	Course Code	Course Outcome	Statement
COMMUNICATION SKILLS IN ENGLISH LAB	CO115	CO115.1	Use words, phrases and sentences accurately and with correct pronunciation in real life situations
		CO115.2	Listens to and comprehends the substance and central idea of simple narratives and descriptions.
		CO115.3	Use apt language functions while making statements, asking questions, giving instructions, and reporting events.
		CO115.4	Narrate simple experiences and series of events to convey its essence and intention and present ideas coherently, confidently and with clarity in debates, discussions and interviews.

Name of Course	Course Code	Course Outcome	Statement
APPLIED PHYSICS LAB	CO116	CO116.1	Select appropriate measuring tools and make measurements with accuracy and precision.
		CO116.2	Apply and illustrate the concepts of mechanics and properties of matter through experiments
		CO116.3	Experiment with lens, prism and glass slab to realize the basic laws of ray optics.
		CO116.4	Make use of V- I characteristics of conductors and semiconductors to determine the resistance of materials.

Name of Course	Course Code	Course Outcome	Statement
ENGINEERING MECHANICS LAB	CO117	CO117.1	Identify the force systems for given conditions by applying the basics of mechanics.
		CO117.2	Determine unknown forces of different engineering systems.
		CO117.3	Infer center of gravity and mass moment of inertia.
		CO117.4	Determine strains in mutually perpendicular directions under axial tension. Determine the coefficient of friction on a plane through experimentation.

Name of Course	Course Code	Course Outcome	Statement
BASIC CAD LAB	CO118	CO118.1	Illustrate the use of computer aided drafting software.
		CO118.2	Identify various commands used in CAD.
		CO118.3	Apply knowledge to draw simple two-dimensional drawings and sections using CAD
		CO118.4	Construct Isometric drawing of simple objects

Name of Course	Course Code	Course Outcome	Statement
ENGINEERING WORKSHOP PRACTICE	CO119	CO119.1	Identify the safety precautions, tools and devices required to make carpentry joints.
		CO119.2	Make use of various tools, machines, instruments and power tools used in the Fitting shop to make fitting joints.
		CO119.3	Make use of various tools, machines, instruments and power tools used in the Welding shop to make welding joint.
		CO119.4	Utilize different sheet metal tools and measuring instruments to make sheet metal joints.
		CO119.5	Make use of various tools and accessories to practice electrical wiring, motor connection and soldering.

Name of Course	Course Code	Course Outcome	Statement
SUMMER INTERNSHIP 1	CO120	CO120.1	Demonstrate the importance of teamwork in engineering.
		CO120.2	Demonstrate sustainable engineering practices for the benefit of the society.
		CO120.3	Demonstrate the ability of learning current technological trends.
		CO120.4	Assimilate engineering responsibilities and professional ethics.