

GUJARAT TECHNOLOGICAL UNIVERSITY

Mechanical Engineering

B. E. SEMESTER: VI

Subject Name: Control Engineering

Sr. No.	Course Content	Total Hours
1.	BASIC CONTROL SYSTEM: System differential equation of electrical, mechanical, thermal, hydraulic and electromechanical network, analogy	03
2.	THEORY OF AUTOMATIC CONTROL: Concept of feedback referred to linear control systems in general, e.g. displacement and speed control, process control, definition and terminology, open loop and closed loop systems and its advantages.	04
	2.1 Block diagrams and single flow graph representation of a physical system, block diagram algebra, transfer function from a block diagram. Basic control actions and controllers – on – off. Proportional, derivative and integral controllers, steady – state analysis..	04
	2.2 Transient response of first order and second order systems to step, ramp and sinusoidal input, steady state errors, Applications of Laplace transform methods, Reuth's stability criteria and root locus methods improving system performance	05
3.	3. HYDRAULIC SYSTEM: Characteristic of hydraulic components control valves, sources of hydraulic power hydraulic meters, pistons and transmission, elements of circuit design, Accumulation control circuit such as position control and speed control circuit.	04
	3.1 Hydraulic Systems: Reciprocating Pump, pressure intensifier, cranes, ram, press, lift, coupling and hydraulic controls. Maintenance of hydraulic system: Fire Foam resistance oxidation and corrosion of hydraulic pipe sealing devices, Filters regulator, problems caused by gas in hydraulic circuit cooling of power pack	04
4.	PNEUMATIC SYSTEMS: Pneumatic power supply, Amplifiers with different controlling actions, Pneumatic valves and cylinders, theory of four way and pilot valves.	04
5.	ELECTRICAL SYSTEMS: Speed control of D.C. motors, Remote center positional serve mechanism (including effect of gearing between motor and load).	04

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