

HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL

SYLLABUS FOR MID SEM EXAM-SEPT-2018

MECHANICAL ENGINEERING

SEM	Sub Code	Subject	Unit No (GTU Syllabus)	Unit Name(GTU Syllabus)
7TH	2171910	PPE	1,2,3,4,5,6	Thermal Power Plant, High Pressure Boilers, Coal and Ash Handling Systems, Draught System, Steam Nozzles, Steam turbine.
	2171912	OHP	1 2 3 4 5	INTRODUCTION SYSTEM COMPONENTS & HYDRAULIC OILS FLUID PROPERTIES AND FILTER HYDRAULIC PUMPS, MOTORS AND ACTUATORS HYDRAULIC VALVES AND HYDRAULIC SYSTEM ACCESSORIES DESIGN OF HYDRAULIC CIRCUITS
	2171908	MD	1,2,5	Gear, Gear Box, I.C Engine Components
	2171903	CAM	1,2,3,5,6	INTRODUCTION,NC/CNC MACHINE TOOLS,NC/CNC MACHINE TOOLS:PART PROGRAMMING,FMS,ROBOT TECHNOLOGY
	2171901	OR	1,3,5,6,9	operation research,transporation and assignment,inventory control,replacement theory,project management
SEM	Sub Code	Subject	Unit No (GTU Syllabus)	Unit Name(GTU Syllabus)
5TH	151902	TOM	1,2,3	Gyroscope, Friction Devices: Clutches, Brakes and Dynamometers, Flywheels,
	2151903	FPE	1,2,3,6,7,8,	HYDROPOWER PLANT, IMPACT OF JET, HYDRAULIC TURBINES, RECIPROCTING COMPRESSORS, ROTARY COMP, CENTRIFUGAL COMPRESSORS
	2151907	DME	1,2,3	Introduction, Design Against Fluctuating Loads, Design of Springs
	2151909	HT	1,2,4,5	FUNDAMENTAL ,CONDUCTION ENTIRE, RADIATION, HEAT EXCHANGER
	2151908	CE	1,2,3,5,6,7	Basic Concept, Mathematical modellling, Time Response Analysis, Stability, Hydraulic control system, Pneumatic control system
SEM	Sub Code	Subject	Unit No (GTU Syllabus)	Unit Name(GTU Syllabus)
3RD	2130003	MECHANICS OF SOLIDS	1,2,3,5,6	Introduction, Coplanar Concurrent Forces, Coplanar Non-Concurrent Forces, Support Reaction & S.F. B.M. Centroid & Centre of Gravity Moment of Inertia Simple Stress & Strain
	2131906	KOM	1,2,4	Introducion,Synthesis Mechanisms Cams and Followers
	2131904	MSM	1,2,3,6,7,8,13,14	INTRODUCTION TO MATERIAL SCIENCE METALLURGY , CRYSTAL GEOMETRY AND CRYSTAL IMPERFECTIONS , PLASTIC DEFORMATION, PHASE AND PHASE EQUILIBRIUM , ALLOTROPY OF IRON(ALL TOPIC), HEAT TREATMENT OF STEELS, POWDER METALLURGY, NON DESTRUCTIVE TESTING OF MATERIALS
	2131903	MP 1	1, 2, 3	BASIC MACHINE TOOLS & METAL CUTTING PRINCIPLES METAL CUTTING LATHES DRILLING MACHINES
	2131905	ET	1, 2, 6, 7	Basic Concepts First law of Thermodynamics Vapor Power cycles Gas Power cycles
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3RD PG	2730806	MMC	1, 2, 3, 4	Basic concepts and characteristics Constituents Macromechanics Behaviour Lamina Micromechanical Behaviour Lamina