

HASMUKH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL

SYLLABUS FOR MID SEM EXAM-SEPT-2018

CIVIL ENGINEERING

SEM	Sub Code	Subject	Unit No(GTU Syllabus)	Unit Name(GTU Syllabus)
7TH	2170610	PROFESSIONAL PRACTICES & VALUATION	1,2,3,4,5,6,7	COMPUTATION OF AREA AND VOLUME ESTIMATION RATE ANALYSIS SPECIFICATION CONTRACT CONTRACT AND TENDER VALUATION
	2170607	Design of Reinforced Concrete Structures	1,2,3	Unit 1 - Building Layout and Design - G+3, Unit 2 - Design of Retaining wall,
	2170613	TARFFIC ENGINEERING	1,2,3,4,5	TRAFFIC CHARACTERISTICS TRAFFIC STUDIES
	2170609	IRRIGATION ENGINEERING	1,2,4	introduction water requirement of crops irrigation Channels
SEM	Sub Code	Subject	Unit No(GTU Syllabus)	Unit Name(GTU Syllabus)
5TH	2150602	HYDROLOGY AND WATER RESOURCES ENGINEERING	1,2,3,4	INTRODUCTION, HYETOGRAPH AND HYDROGRAPH ANALYSIS, GROUND WATER,RESERVOIR, DAM, HYDRAUELECTRIC POWER, FLOOD MANAGEMENT, HYDRAULOGICAL ANALYSIS
	2150608	Structural Analysis 2	1,2,3,4	Unit 1 - Energy Principles, Unit 2 - Slope Deflection Method, Unit 3 - Moment Distribution Method, Unit 4 - Influence line diagrams and Refer Assignments No. 1 to 4
	2150601	HIGHWAY ENGINEERING	1,2,6	INTRODUCTION, HIGHWAY GEOMETRIC DESIGN TRAFFIC ENGINEERING
	2150003	DISASTER MANAGEMENT	1,2,5	Understanding Disaster Types, Trends, Causes, Consequences and Control of Disaster Applications of Science and Technology for Disaster Management & Mitigation
	2150603	ENVIRONMENTAL ENGINEERING	2,3,4,5	Quality and Quantity of water supply to towns/cities characteristics of wastewater house drainage solid waste management
	2150609	SOIL MECHANICS	1,2,3,5,7	Compaction shear strength of soil consolidation of soil earth pressure basics of foundation
SEM	Sub Code	Subject	Unit No(GTU Syllabus)	Unit Name(GTU Syllabus)
3RD	2130606	GEOTECHNICS AND APPLIED GEOLOGY	1,2,3,4,5,6,7,8,9	INTRODUCTION, ORIGIN AND NATURE OF SOIL, INDEX PROPERTIES, PARTICLE SIZE ANALYSIS, SOIL STRUCTURE, SOIL CONSISTENCY, SOIL CLASSIFICATION , SOIL WATER, PERMEABILITY AND SEEPAGE
	2130601	SURVEYING	1,2,3	Plane Table Survey Theodolite Traversing Trigonometric Levelling
	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
	2130607	BUILDING CONSTRUCTION	1,2,3,4,5,6,7	Introduction subsurface investigation
	2130602	FLUID MECHANICS	1,2,5,6,7,8	Fluids hydrostatics fluid kinematics fluid dynamics orifice and mouthpiece notches and weirs
	2130002	ADVANCED ENGINEERING MATHEMATICS	2,3,5	Unit 2: FOURIER SERIES AND FOURIER INTEGRAL, Unit 3: ORDINARY DIFFERENTIAL EQUATION (UP TO LAST LECTURE), Unit 5: LAPLACE TRANSFORM
	Semester	Sub Code	Subject	Unit No(GTU Syllabus)
1ST PG	3711301	Urban Transportation System Planning	1,2,3	Introduction to transportation systems planning Planning methodologies Urban Mass transportation Systems
	3711302	Traffic Engineering	1,2,3,4,5	Introduction Highway Capacity Transportation Survey Merging Diverging Traffic Control Devices
	3711306	Rail Transportation System Planning and Design	1,2	Introduction to Railway Transportation System Demand Analysis and Forecasting for Passenger & Goods
	3711304	Numerical Methods and Statistical Analysis	8,9,10	8. NUMERICAL METHODS, 9 NUMERICAL INTEGRATION, 10 MATRIX FACTORIZATION AND LINEAR SYSTEM
3RD PG	2731307	ROAD SAFETY AUDIT	1,2,3	Introduction Road safety audit and analysis Engineering measures