

**HASMU KH GOSWAMI COLLEGE OF ENGINEERING, VAHELAL**

**SYLLABUS FOR MID SEM EXAM-MARCH-2018**

**CIVIL**

Semester	Sub Code	Subject	Unit No(GTU Syllabus)	Unit Name(GTU Syllabus)
8th	2180609	FOUNDATION ENGINEERING (FE)	1,2,3	Introduction,Shallow Foundation and Deep Foundation
	2180610	DESIGN OF STEEL STRUCTURE (DSS)	1, 2, 3, 4	Loads & Load Combinations, Connections, Design of Industrial Building, Design of plate girders
	2180611	CONSTRUCTION MANAGEMENT (CM)	1,2,3,4,5,6,7,8,14	INTRODUCTION, PROJECT ORGANIZATION, CONSTRUCTION ECONOMICS, CONSTRUCTION PLANNING, PROJECT SCHEDULING & RESOURCE LEVELLING,CPM,PERT,SIMPLEX METHODS,GRAPHICAL METHODS
	2180602	HARBOUR & AIRPORT ENGINEERING (H&AE)	1,2,3,4,5,6,7	Harbour Engineering
Semester	Sub Code	Subject	Unit No(GTU Syllabus)	Unit Name(GTU Syllabus)
6th	2160601	ADVANCED CONSTRUCTION & EQUIPMENTS (ACE)	1,4,5	Pile Foundation , Caissons, Construction Equipments, Engineering Fundamentals, Tractors and Related Equipment, Excavating Equipments, Hauling & Hoisting Equipments
	2160602	APPLIED FLUID MECHANICS (AFM)	3,5	Open Flow Channel, Diamensional Analysis
	2160603	RAILWAY, BRIDGE & TUNNEL ENGINEERING (RBT)	1,2,3,4	Railway Engineering
	2160604	WATER & WASTE WATER ENGINEERING (W&WWE)	1,2,3,4,5	WATER TREATMENT PLANT,COLLECTION AND CONVEYANCE OF RAW WATER FROM SOURCE, WATER TREATMENT PROCESSES & TREATMENT UNITS, DISTRIBUTION SYSTEM,DEFINITION OF VARIOUS TERMS
	2160607	ELEMENTRAY STRUCTURAL DESIGN (ESD)	1,2 (A) (B) (D) (E), 3 (A) (B) (C)	Introduction, Limit state design of RC elements, Limit State design of Steel elements
	2160608	URBAN TRANSPORTATION SYSTEM (UTS)	1,2,3	TRANSPORTATION, URBAN MASS TRANSPORTATION AND LAND USE
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4th	2140003	Engineering Economics and Management(EEM)☐	1,2,3,4,5	INTRODUCTION TO ECONOMICS,THEORY OF PRODUCTION,MARKETS,BASIC ECONOMIC PROBLEM,MONEY
	2140601	Advanced Surveying(AS)	1,2,3,5	Tacheometric Survey, Geodetic Survey, Theory of Error & Photogrammetry Survey
	2140603	Structural Analysis 1(SA-I)	1, 3, 4, 8	Fundamentals of Statically Determinate Structures, Direct and Bending stresses, Columns and Struts & Strain Energy
	2140606	Numerical And Statistical Method(NSM)☐		
	2140607	Building & Town Planning(BTP)☐	A.Building planning 2,3,6, & B. Town planning 1,2,3,4	Building Bay Laws, Earthquake Resistant building planning, Building Servieces, History & Origin of town planning, Civic Surveys, Land Use, Elements of town planning
	2140608	Concrete Technology(CT)☐	1,2	
Semester	Sub Code	Subject	Unit No(GTU Syllabus)	Unit Name(GTU Syllabus)
2ND PG	2721307	Economical Evauation of Transportation Projects(EETP)☐	1,2,3,4,5,6,7	INTRODUCTION, LAWS OF DEMAND,NATIONAL INCOME, PROJECT APPRAISAL, ECONOMIC EVALUATION, MAINTENANCE COST, TRAFFIC SYSTEM EVALUATION
	2721302	Pavement Design, Construction and Evaluation(PDCE)	1,2,3,4,5	Types of Pavments, Stresses in Flexible Pavements
	2721312	Airport System Planning and Design(ASPD)☐	1,2,3,4	INTRODUCTION, AIRCRAFT CHARACTERISTICS, FORECASTING AIR TRAVEL DEMAND, GEOMETRIC DESIGN OF RUNWAY
	2721314	Decision Models in Management(DMM)	1,2,3,4	INTRODUCTION, LINEAR PROGRAMMING MODELS, TRANSPORTATION AND TRANSHIPMENT PROBLEMS, ASSIGNMENT PROBLEMS
	2720725	Economics of Energy Generation & Supply(EEGS)	2,3,6	Energy demand analysis and forecasting, Energy demand management, Economics of renewable energy supply