

EXISTING COURSE STRUCTURE : B.Sc. Eng. PROGRAMME IN CIVIL ENGINEERING 2020

SUBJECT AREA		1 st SEMESTER	2 nd SEMESTER	3 rd SEMESTER	4 th SEMESTER	5 th SEMESTER	6 th SEMESTER	7 th SEMESTER	8 th SEMESTER	CREDIT	
										CORE	ELECTIVE
MATHEMATICS	CORE	GP115 : CALCULUS I ③	GP116 : LINEAR ALGEBRA ③	EM211 : ORDINARY DIFFERENTIAL EQUATIONS ② EM213 : PROBABILITY & STATISTICS ②	EM212 : CALCULUS II ②	EM315 : NUMERICAL METHODS FOR CIVIL ENGINEERS ②				14	
	ELECTIVE					EM527 : OPERATIONS RESEARCH I ③	EM502 : OPTIMIZATION ②	EM527 : OPERATIONS RESEARCH I ③ EM502 : OPTIMIZATION ③			4
STRUCTURES AND MATERIALS	CORE	GP109 : MATERIALS SCIENCE ③ GP110 : ENGINEERING MECHANICS ③		CE201 : MECHANICS OF MATERIALS I ③	CE208 : STRUCTURAL ANALYSIS ③	CE312 : DESIGN OF STRUCTURES II ③	CE307 : FINITE ELEMENT ③ METHODS IN SOLID MECHANICS CE306 : DESIGN OF STRUCTURES I ③ CE316 : ADVANCED MECHANICS OF MATERIALS ②			23	
	ELECTIVE							CE594 : COMPUTER AIDED STRUCTURAL ANALYSIS & DESIGN ② CE592 : CONCRETE TECHNOLOGY ②	CE586 : DYNAMICS OF STRUCTURES ② CE587 : DESIGN OF STRUCTURES III ② CE591 : HIGH RISE BUILDING DESIGN ②		10
FLUID MECHANICS AND ENVIRONMENTAL ENGINEERING	CORE			CE202 : FLUID MECHANICS I ③	CE205 : ENGINEERING HYDROLOGY ③	CE302 : ENVIRONMENTAL ENGINEERING ③ CE305 : HYDRAULICS ③	CE311 : HYDRAULIC ENGINEERING AND DESIGN ③			15	
	ELECTIVE						CE570 : WATER SUPPLY AND WASTE WATER ENGINEERING ② CE599 : DISASTER ② MANAGEMENT	CE553 : IRRIGATION AND DRAINAGE ENGINEERING ② CE542 : HYDRAULIC STRUCTURES ② CE568 : INDUSTRIAL POLLUTION CONTROL ②	CE571 : ENVIRONMENTAL HEALTH AND SANITATION ② CE545 : COASTAL ENGINEERING AND COASTAL ZONE MANAGEMENT ② CE561 : INTEGRATED RIVER BASIN MANAGEMENT ②		16
GEOTECHNICAL ENGINEERING	CORE				CE204 : GEOMECHANICS ③	CE310 : GEOTECHNICAL ENGINEERING ③	CE308 : GEOTECHNICAL ② DESIGN			8	
	ELECTIVE					CE521 : ADVANCED ② GEOMECHANICS	CE514 : GROUND IMPROVEMENT AND GEOSYNTHETICS ② CE522 : FOUNDATION ENGINEERING ②	CE523 : GEOTECHNICAL ② DESIGN AND CONSTRUCTION	CE: 515 GEOHAZARD MANAGEMENT ②		10
HIGHWAY AND TRANSPORTATION ENGINEERING	CORE					CE318 : TRANSPORTATION AND HIGHWAY ENGINEERING ③				3	
	ELECTIVE						CE533 : TRAFFIC ENGINEERING ②	CE532 : HIGHWAY ENGINEERING AND DESIGN ② CE535 : TRANSPORTATION PLANNING ②	CE534 : TRAFFIC MANAGEMENT ②		8
CONSTRUCTION AND MANAGEMENT	CORE				CE209 : BUILDING CONSTRUCTION ③ MA201 : ENGINEERING MANAGEMENT ③			CE403 : CONSTRUCTION MANAGEMENT ③		9	
	ELECTIVE								CE588 : CONSTRUCT EQUIPMENT AND MATERIAL MANAGEMENT ② CE589 : SUSTAINABLE DESIGN AND CONSTRUCTION ② CE593 : CONSTRUCTION PLANNING ②		6
SURVEYING	CORE & ELECTIVES		GP118 : BASIC ELECTRICAL & ③ ELECTRONIC ENGINEERING	CE210 : ENGINEERING SURVEYING ③			CE317 : CIVIL ENGINEERING FIELD WORK ③ (OUTSIDE SEMESTER)	CE598 : GIS AND RS FOR CIVIL ENGINEERS ②		6	2
OTHERS	CORE	GP112 : ENGINEERING MEASUREMENTS ③	GP111 : ELEMENTARY THERMODYNAMICS ③ GP113 : FUNDAMENTAL OF MANUFACTURE ③	EE280 : INTRODUCTION TO ③ ELECTRICAL ENGINEERING	CE219 : CIVIL ENGINEERING LABORATORY I ①	CE319 : CIVIL ENGINEERING LABORATORY II ①	CE320 : CIVIL ENGINEERING LABORATORY III ①	CE405 : CIVIL ENGINEERING PROJECT I ③	CE406 : CIVIL ENGINEERING PROJECT II ③	42	
		GP114 : ENGINEERING DRAWINGS ③ GP101 : ENGLISH I ③	GP106 : COMPUTING ③ GP102 : ENGLISH II ③	ME202 : MECHANICAL ENGINEERING FOR CIVIL ENGINEERS ③					CE 402 : MULTI DISCIPLINARY DESIGN PROJECT ③		
	GENERAL ELECTIVE						GENERAL ELECTIVE - 1 ②	GENERAL ELECTIVE - 2 ② GENERAL ELECTIVE - 3 ②	GENERAL ELECTIVE - 4 ②	RATIO OF TOTAL ELECTIVE CREDITS OFFER AND CREDITS COUNTED 16/56 = 0.29	
CREDITS		18 (CORE)	18 (CORE)	19 (CORE)	18 (CORE)	18 (CORE) + 4 (TE) = 22	17 (CORE) + 6 (TE) + 2 (GE) = 25 3 (CORE OUTSIDE SEMESTER)	6 (CORE) + 6 (TE) + 4 (GE) = 16	6 (CORE) + 4 (TE) + 2 (GE) = 12	120(CORE) + 16 (ELECTIVES) + 8 (GE) + 6 (INDUSTRIAL TRAINING) = 150	