First Semester (Common to all Disciplines)

Course	Course	Con p	tact H er wee	ours ek	Credit	Inte Assessment/	rnal Evaluation	External	Total
Code	Course Title	L	т	Р	Hours	Assignments/ Lab Record	Teachers' Evaluation	/Viva-voce	Marks
BS-101	Engineering Physics-I	3	1	-	4.0	35	15	50	100
BS-103	Engineering Mathematics-I	3	1	-	4.0	35	15	50	100
BS-105	Engineering Chemistry	3	1	-	4.0	35	15	50	100
ES-101	Engineering Graphics & Drawing	1	3	-	4.0	35	15	50	100
ES-103	Fundamentals of Computers and Programming	3	1	-	4.0	35	15	50	100
ES-105	Basics of Electrical Engineering/ Basics of Electronics Engineering	3	1	-	4.0	35	15	50	100
BS-107	Physics Lab-I	-	-	2	1.0	15	10	25	50
BS-109	Chemistry Lab	-	-	2	1.0	15	10	25	50
ES-107	Computer Lab	-	-	2	1.0	15	10	25	50
ES-109	Electrical/ Electronics Engineering Lab	-	-	2	1.0	15	10	25	50
ES-111	Workshop Practice-I	-	-	2	1.0	15	10	25	50
ELGA-101	English Language and General Awareness-I	1	-	-	1.0	-	-	25	25
	Total		То	tal Semester M	arks=875				

Second Semester (Common to all Disciplines)

Course	Course Title	Con p	tact H er we	ours ek	Credit	InternalreditAssessment/Evaluation	External Examination	Total	
Code	Course litte	L	т	Р	Hours	Assignments/ Lab Record	Teachers' Evaluation	/Viva-voce	Marks
BS-102	Engineering Physics-II	3	1	-	4.0	35	15	50	100
BS-104	Engineering Mathematics-II	3	1	-	4.0	35	15	50	100
ES-102	Introduction to Environmental Sciences	3	1	-	4.0	35	15	50	100
ES-104	Introduction to CADD	3	1	-	4.0	35	15	50	100
ES-106	Basics of Electronics Engineering/ Basics of Electrical Engineering	3	1	-	4.0	35	15	50	100
ES-108	Basics of Mechanical Engineering	3	1	-	4.0	35	15	50	100
BS-108	Physics Lab-II	-	-	2	1.0	15	10	25	50
ES-110	Electronics / Electrical Engineering Lab	-	-	2	1.0	15	10	25	50
ES-112	Workshop Practice-II	-	-	2	1.0	15	10	25	50
ES-114	CAD Lab	-	-	2	1.0	15	10	25	50
HS-102	Language Lab	-	-	2	1.0	15	10	25	50
ELGA-102	English Language and General Awareness-II	1	-	-	1.0	-	-	25	25
	Total	Seme	ester (Credit	s = 30.0		Το	tal Semester M	arks=875

Third Semester

Course Code Course Title	a	Cont	tact H er wee	ours ek	Credit	Inte Assessment	rnal /Evaluation	External	Total Marks
	Course litle	L	т	Р	Hours	Assignments/ Lab Record	Teachers' Evaluation	/Viva-voce	
CE-201	Structural Analysis-I	3	1	-	4.0	35	15	50	100
CE-203	Fluid Mechanics-I	3	1	-	4.0	35	15	50	100
CE-205	Surveying-I	4	-	-	4.0	35	15	50	100
CE-207	Building Construction and Materials	3	1	-	4.0	35	15	50	100
CE-209	Design of Steel Structures-I	3	1	-	4.0	35	15	50	100
HS-201	Essentials of Management and Organizational Behavior	3	1	-	4.0	35	15	50	100
CE-211	Structural Mechanics Lab-I	-	-	2	1.0	15	10	25	50
CE-213	Fluid Mechanics Lab-I	-	-	3	1.5	25	15	35	75
CE-215	Surveying Lab-I	-	-	3	1.5	25	15	35	75
ELGA-201	English Language and General Awareness-III	1	-	-	1.0	-	-	25	25
	Tot		То	tal Semester Ma	arks=825				

Fourth Semester

Course Course Title		Cont pe	act H er wee	ours ek	Credit	Inte Assessment	ernal /Evaluation	External	Total
	Course Title	L	т	Р	Hours	Assignments/ Lab Record	Teachers' Evaluation	/Viva-voce	Marks
CE-202	Structural Analysis-II	3	1	-	4.0	35	15	50	100
CE-204	Fluid Mechanics-II	3	1	-	4.0	35	15	50	100
CE-206	Surveying-II	3	1	-	4.0	35	15	50	100
CE-208	Design of Concrete Structures-I	3	1	-	4.0	35	15	50	100
CE-210	Concrete Technology	3	1	-	4.0	35	15	50	100
HS-202	Fundamentals of Business & Economics	3	1	-	4.0	35	15	50	100
CE-212	Concrete Lab	-	-	2	1.0	15	10	25	50
CE-214	Surveying Lab-II	-	-	3	1.5	25	15	35	75
CE-216	Fluid Mechanics Lab-II	-	-	3	1.5	25	15	35	75
ELGA-202	English Language and General Awareness-IV	1	-	-	1.0	-	-	25	25
	Tota	1	Το	tal Semester M	arks=825				

Fifth Semester

Course Course Title		Cont	tact He	ours ek	Credit	Inte Assessment	rnal /Evaluation	External	Total
	Course little	L	т	Р	Hours	Assignments/ Lab Record	Teachers' Evaluation	/Viva-voce	Marks
CE-301	Structural Analysis-III	3	1	-	4.0	35	15	50	100
CE-303	Transportation Engineering-I	3	1	-	4.0	35	15	50	100
CE-305	Hydrology and Water Power	3	1	-	4.0	35	15	50	100
CE-307	Soil Mechanics	3	1	-	4.0	35	15	50	100
CE-309	Project Planning & Management	3	1	-	4.0	35	15	50	100
CE-311	Environmental Engineering-I	3	1	-	4.0	35	15	50	100
CE-313	Computer Applications Lab	-	-	2	1.0	15	10	25	50
CE-315	Transportation Engineering Lab	-	-	2	1.0	15	10	25	50
CE-317	Soil Mechanics Lab	-	-	2	1.0	15	10	25	50
CE-319	Environmental Engineering Lab	-	-	2	1.0	15	10	25	50
ELGA-301	English Language and General Awareness-V	1	-	-	1.0	-	-	25	25
	Tota	ester (Credit	s = 29.0		То	tal Semester Ma	arks=825	

Sixth Semester

Course	Course Course Title	Cont pe	act He	ours ek	Credit	Inte Assessment	rnal /Evaluation	External	n Total
Code	Course little	L	т	Р	Hours	Assignments/ Lab Record	Teachers' Evaluation	/Viva-voce	Marks
CE-302	Design of Steel Structures-II	3	1	-	4.0	35	15	50	100
CE-304	Geotechnology	3	1	-	4.0	35	15	50	100
CE-306	Transportation Engineering-II	3	1	-	4.0	35	15	50	100
CE-308	Environmental Engineering-II	3	1	-	4.0	35	15	50	100
CE-310	Irrigation Engineering	3	1	-	4.0	35	15	50	100
CE-312	Design of Concrete Structures-II	3	1	-	4.0	35	15	50	100
CE-314	Transportation Engineering Lab- II	-	-	2	1.0	15	10	25	50
CE-316	Environmental Engineering Lab- II	-	-	2	1.0	15	10	25	50
CE-318	Soil Mechanics Lab-II	-	-	2	1.0	15	10	25	50
CE-320	Seminar	-	-	2	1.0	25	25	-	50
ELGA-302	English Language and General Awareness-VI	1	-	-	1.0	-	-	25	25
	Tota	l Seme	ester (Credit	s = 29.0		То	tal Semester Ma	arks=825

All the courses shall have a mandatory 21-45 days on-the-job training at the end of the Sixth Semester to be certified by the concerned Industrial house / body; covering a credit of 6 to be included in the SGPA / CGPA.

Seventh Semester

Course Code		Cont pe	act H er wee	ours ek	Credit	Inte Assessment	rnal /Evaluation	External	Total
	Course litie	L	т	Р	Hours	Assignments	Teachers' Evaluation	/Viva-voce	Marks
CE-421	Departmental Elective-I	3	1	-	4.0	35	15	50	100
CE-422	Departmental Elective-II	3	1	-	4.0	35	15	50	100
CE-423	Departmental Elective-III	3	1	-	4.0	35	15	50	100
CE-424	Departmental Elective-IV	3	1	-	4.0	35	15	50	100
OE-431	Open Elective-I	3	-	-	3.0	25	-	50	75
OE-432	Open Elective-II	3	-		3.0	25	-	50	75
IT-001	Industrial Training (21-45 Days)	-	-	12	6.0	-	-	150	150
		18	04	12					
	Tota		То	tal Semester M	arks=700				

Eighth Semester

Course		Con p	tact H er we	lours ek	Credit	Inte Assessment	rnal /Evaluation	External Examination /Viva-voce	Total Marks
Code	Course Title	L	т	Р	P Hours	Training/ Project Report	Teachers' Evaluation		
CE-441/442	Industrial Training/Project	-	-	40	20	150	100	250	500
CE-450	Comprehensive Academic and General Proficiency Viva-Voce	-	-	-	02	-	-	50	50
		-	-	40					
	Total		То	tal Semester M	arks=550				

LIST OF DEPARTMENTAL ELECTIVES (16) CE-421/422/423/424

Quantity Survey and Valuation	Finite Element Methods
Prestressed Concrete Structures	Traffic Engineering
Ground Improvement Techniques	Environmental Pollution Control
Solid and Hazardous Waste Management	Hydraulic Structures
Hydro Power Engineering	Retrofitting and Rehabilitation of Structures
Optimization Techniques for Civil Engineering	Machine Foundations
Bridge Engineering	Rock Mechanics
Highway & Airfield Pavement Design	Structural Dynamics and Seismic Design

LIST OF OPEN ELECTIVES (10) OE-431/432

Operations Management	Renewable Energy Sources
Advanced Engineering Mathematics	Consumer Electronics
Entrepreneurship	Security in Computing
Soft Computing	Modeling and Simulation
Artificial Intelligence	Microprocessors and Microcontrollers
Remoter Sensing and GIS	Civil Engineering Estimating & Costing