

DEPARTMENT OF CIVIL ENGINEERING
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ORISSA, BURLA
COURSE STRUCTURE OF B.TECH (CIVIL ENGINEERING)
FEBRUARY 2011

FIRST SEMESTER				
THEORY				
SI No.	Course Code	Subject	Contact Hrs. L-T-P	CR
1	BMA 101	Mathematics-I	3-1-0	4
2	BPH 101/BCH 101	Physics/Chemistry	3-1-0	4
3	BME 101/BCS 101	Engg. Mechanics/ Programming & Data Structures	3-1-0	4
4	BEE 101/BEC 101	Basic Electrical Engg/ Basic Electronics	3-1-0	4
5	BHU 101/BCE 101	English for Communication/ Env Sc. & Engg	3-1-0	4
SESSIONAL				
1	BPH 191/BCH 191	Physics Lab/ Chemistry Lab	0-0-3	2
2	BHU 191/BCS 191	Language Lab/Programming Lab	0-0-3	2
3	BCE 191/BME 191	Engg. Drawing./ Workshop Practices	0-0-3	2
4	BEE 191/BEC 191	BEE Lab/B.E. Lab	0-0-3	2
Total			15-5-12	28
SECOND SEMESTER				
THEORY				
1	BMA 102	Mathematics-I	3-1-0	4
2	BCH 101/BPH 101	Chemistry /Physics	3-1-0	4
3	BCS 101/BME 101	Programming & Data Structures / Engg. Mechanics	3-1-0	4
4	BEC 101/BEE 101	Basic Electronics /Basic Electrical Engg	3-1-0	4
5	BCE 101/BHU 101	Env Sc. & Engg / English for Communication	3-1-0	4
SESSIONAL				
1	BCH 191/BPH 191	Chemistry Lab /Physics Lab	0-0-3	2
2	BCS 191/BHU 191	Programming Lab /Language Lab	0-0-3	2
3	BME 191/BCE 191	Workshop Practices /Engg. Drawing Lab.	0-0-3	2
4	BEC 191/BEE 191	B.E. Lab /BEE Lab	0-0-3	2
Total			15-5-12	28

THIRD SEMESTER THEORY				
Sl No.	Course Code	Subject	Contact Hrs. L-T-P	CR
1	BMA 201	Mathematics-III	3-1-0	4
2	BHU 201/BHU 202	EEC/OB	3-1-0	4
3	BCE 201	Object Oriented Programming	3-1-0	4
4	BCE 202	Mechanics of Materials	3-1-0	4
5	BCE 203	Civil Engg Materials & Constructions	3-1-0	4
SESSIONAL				
1	BCE 291	Building Drawing	0-0-3	2
2	BCE 292	Concrete Lab.	0-0-3	2
3	BME 293	Material Testing Lab	0-0-3	2
4	BCS	OOP Lab.	0-0-3	2
Total			15-5-12	28
FOURTH SEMESTER THEORY				
1	BMA 202	Mathematics-IV	3-1-0	4
2	BHU 202/BHU 201	OB /EEC	3-1-0	4
3	BCE 204	Fluid Mechanics	3-1-0	4
4	BCE 205	Structural Analysis-I	3-1-0	4
5	BCE 206	Engg. Surveying	3-1-0	4
SESSIONAL				
1	BCE 294	Hydraulics Lab	0-0-3	2
2	BCE 295	Survey Practice-I	0-0-3	2
3	BCE 296	Geology Lab.	0-0-3	2
4	BCE 297	Environmental Engg Lab.	0-0-3	2
Total			15-5-12	28

FIFTH SEMESTER THEORY				
Sl No.	Course Code	Subject	Contact Hrs. L-T-P	CR
1	BCE 301	Structural Design	3-1-0	4
2	BCE 302	Water Resources Engg.	3-1-0	4
3	BCE 303	Geotech. Engg-I	3-1-0	4
4	BCE 304	Environmental Engg.	3-1-0	4
5	BCE 305	Transportation Engg-I	3-1-0	4
SESSIONAL				
1	BCE 391	Fluid Flow Lab	0-0-3	2
2	BCE 392	Geotech. Engg. Lab	0-0-3	2
3	BCE 393	Env. Engg. Design	0-0-3	2
4	BCE 394	Transportation Engg. Lab.	0-0-3	2
Total			15-5-12	28
SIXTH SEMESTER THEORY				
1	BCE 306	Structural Analysis-II	3-1-0	4
2	BCE 307	Fluid Dynamics	3-1-0	4
3	BCE 308	Transportation Engg-II	3-1-0	4
4	BCE 309	Steel Structures	3-1-0	4
5	BCE 310	Advanced Surveying	3-1-0	4
SESSIONAL				
1	BCE 395	Design of Concrete Structures	0-0-3	2
2	BCE 396	Transportation & Geotechnical Engg Design	0-0-3	2
3	BCE 397	Structural Engg. Lab.	0-0-3	2
4	BCE 398	Survey Practice-II	0-0-3	2
Total			15-5-12	28

SEVENTH SEMESTER THEORY				
Sl No.	Course Code	Subject	Contact Hrs. L-T-P	CR
1	BCE 401	Concrete Structure	3-1-0	4
2	BCE 402	Geotech. Engg-II	3-1-0	4
3	BCE 403	Hydraulic Structures	3-1-0	4
4	BCE 404	Elective-I	3-1-0	4
5	BCE 405	Elective-II	3-1-0	4
SESSIONAL				
1	BCE 491	Design of Steel Structures	0-0-3	2
2	BCE 492	Design of Irrigation Structure	0-0-3	2
3	BCE 493	Minor Project	0-0-3	2
4	BCE 494	Seminar	0-0-3	2
Total			15-5-12	28
EIGHTH SEMESTER THEORY				
1	BCE 406	Estimation & Professional Practice	3-1-0	4
2	BCE 407	Construction Management	3-1-0	4
3	BCE 408	Elective-III	3-1-0	4
4	BCE 409	Elective-IV	3-1-0	4
SESSIONAL				
1	BCE 495	Comprehensive VivaVoce	0-0-2	2
2	BCE 496	Major Project	0-0-3	6
Total			12-4-5	24

Elective-I		Elective-II		Elective-III		Elective-IV	
1	Advanced Mechanics of Materials	1	Advanced Foundation	1	Open Channel Flow	1	Pre-stressed Concrete
2	Theory of Plates & Shell	2	Engineering Finite Element Method	2	Environmental Geo technique	2	Composite Materials & Structures
3	Traffic & Transportation Planning	3	Computer Aided Design of Structures	3	Theory of Elasticity & Plasticity	3	Pavement Design
4	Waste Management & Pollution Control	4	Bridge Engineering	4	Remote Sensing and GIS	4	Ground Improvement Technique
5	Ground Water Engineering	5	Water Power Engg	5	Town Planning & Architecture	5	Soil Dynamics & Earthquake Engineering
6	Machine Foundation	6	Computational Hydraulics	6	River Engineering	6	Water Resources Planning & Management

