

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY

Waknaghat, Solan (HP) - 173234

B.Tech Civil Engineering

Course Structure

FIRST SEMESTER			
Subject Code	Name of Subject	Contact hours	Credits
1 10B11PD111	Presentation and Communication Skills	3	3
2 10B11PD199	English*	2	0
3 10B11MA111	Mathematics-I	4	4
4 10B11PH111	Physics-I	4	4
5 10B11EC111	Electrical Circuit Analysis	4	4
6 10B11CI111	Introduction to Computers and Programming	4	4
7 10B17PH171	Physics Lab-I	2	1
8 10B17EC171	Electrical Circuits Lab	2	1
9 10B17CI171	Computer Programming Lab	4	2
10 10B19GE199	Institutional Orientation	1	0
	Total	30	23

Note: English* (*English will be offered as an audit course)

SECOND SEMESTER			
Subject Code	Name	Contact hours	Credits
1 10B11PD211	Group and Co-operative Processes	3	3
2 10B11MA201	Mathematics – II	4	4
3 11B11CE211	Building Materials & Construction	4	4
4 11B17CE271	Engineering Graphics & CAD lab	4	2
5 10B11CE211	Engineering Mechanics	4	4
6 10B11CL212	Chemistry	4	4
7 10B17CE271	Workshop Practices	2	1
8 10B17CL271	Chemistry Lab	2	1
	Total	27	23

THIRD SEMESTER			
Subject Code	Name of Subject	Contact hours	Credits
1 10B11PD311	Managerial Economics	3	3
2 10B11MA312	Numerical Methods	4	4
3 10B11EC311	Electrical Machines & Instruments	4	4
4 10B17EC371	Electrical Machines and Instruments lab	2	1
5 10B11CE311	Mechanics of Solids	4	4
6 10B11CE312	Fluid Mechanics	4	4
7 11B17CE371	Geology & Material Testing Lab	4	2
8 10B17CE372	Fluid Mechanics Lab	2	1
	Total	27	23

FOURTH SEMESTER			
Subject Code	Name	Contact hours	Credits
1 10B11PD411	Financial Management	3	3
2 10B11CE411	Geotechnical Engineering	4	4
3 10B11CE412	Surveying	4	4
4 10B11CE413	Structural Analysis	4	4
5 11B11CE411	Concrete Technology	4	4
6 10B17CE471	Geotechnical Lab	4	2
7 10B17CE472	Surveying Lab	4	2
8 10B11GE411	Environmental Studies	3	3
Total		30	26

FIFTH SEMESTER			
New Code	Name of Subject	Contact hours	Credits
1 10B11PD511	Social and Legal Issues	3	3
2 10B11CE511	Highway Engineering	4	4
3 10B11CE512	Design of Concrete Structures	4	4
4 10B11CE513	Water Resources Engineering	4	4
5 10B11CE514	Water Supply Engineering	4	4
6 10B11CE515	Construction Technology & Management	4	4
7 10B17CE571	Highway Engineering Lab	2	1
8 10B17CE572	Concrete Lab	2	1
9 10B17CE573	Computer Aided Planning & Costing	4	2
10 10B17CE574	Environmental Engg. Lab-I	2	1
Total		33	28

SIXTH SEMESTER			
Subject Code	Name	Contact hours	Credits
1 10B11PD611	Project management	3	3
2 10B11CE611	Design of Steel Structures	4	4
3 10B11CE612	Foundation Engineering	4	4
4 10B11CE613	Sewage Treatment and Disposal	4	4
5 10B11CE614	Transportation Engineering	4	4
6 10B11CE615	Advanced Structural Analysis	4	4
7 10B17CE671	Civil Engineering Software lab	2	1
8 10B17CE672	Foundation Engineering Lab	2	1
9 10B17CE673	Environmental Engg. Lab-II	4	2
10 10B19CE691	Seminar	0	1
Total		31	28
* Compulsory "Six Weeks Industrial Training" after the end of 6 th Semester.			

SEVENTH SEMESTER			
Subject Code	Name	Contact hours	Credits
10B1GPD731/10B1GPD732	Enterpreneurial Development/Managing Marketing of Technology	3	3
10B13CE731-735	Elective 1	3	3
10B13CE741-745	Elective 2	3	3
10B13CE751-755	Elective 3	3	3
10B19CE791	Project , PART-I	20	10
Total		32	22

EIGHTH SEMESTER			
Subject Code	Name	Contact hours	Credits
10B1GPD831/10B1GPD832	Knowledge Management/Human Resource Management	3	3
10B13CE831-836	Elective 4	3	3
10B13CE841-846	Elective 5	3	3
10B13CE851-855	Elective 6	3	3
10B19CE891	Project, PART-II	20	10
Total		32	22

LIST OF ELECTIVES

FOR SEMESTER VII	
Elective 1	
10B13CE731	Design of Water & Wastewater Treatment Plants
10B13CE732	Environmental Management & Impact Assessment
10B13CE733	Traffic Engineering
10B13CE738	Advanced Foundation Engineering
Elective 2	
10B13CE734	Hydropower Engineering
10B13CE735	Dam and Reservoir Design
Elective 3	
10B13CE736	Underground Technology
10B13CE737	Prestressed Concrete Structures

FOR SEMESTER VIII	
Elective 4	
10B13CE831	Advanced RCC Design
10B13CE832	Advanced Hydropower Engineering
10B13CE833	Advanced Concrete Technology
Elective 5	
10B13CE834	FEM and its applications to Civil Engineering
10B13CE835	Soil dynamics & machine foundations
10B13CE836	Remote Sensing and GIS Applications
10B13CE837	Industrial waste treatment
Elective 6	
10B13CE838	Earthquake engineering
10B13CE839	River Engineering