

Guru Nanak Dev Engineering College, Ludhiana
Civil Engineering Department

Study Scheme

For Batch 2014 & Onwards

Fourth Semester					Contact Hours: 29 Hrs			
Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal Marks	External Marks		
CE-14401	Geomatics Engineering	3	1	-	40	60	100	4
CE-14402	Construction Machinery & Works Management	3	1	-	40	60	100	4
CE-14403	Design of Concrete Structures-I	4	1	-	40	60	100	5
CE-14404	Fluid Mechanics-II	3	1	-	40	60	100	4
CE-14405	Irrigation Engineering-I	3	1	-	40	60	100	4
CE-14406	Structural Analysis-I	3	1	-	40	60	100	4
CE-14407	Concrete Technology Lab	-	-	2	30	20	50	1
CE-14408	Structural Analysis Lab	-	-	2	30	20	50	1
CE-14409	General Fitness				100	-	100	
Total		19	06	04	400	400	800	27

For Batch 2011 & onwards

Sixth Semester					Contact Hours: 34 Hrs			
Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal Marks	External Marks		
BTCE-601	Design of Concrete Structures-II	4	1	-	40	60	100	5
BTCE-602	Elements of Earthquake Engineering	3	2	-	40	60	100	5
BTCE-603	Foundation Engineering	4	1	-	40	60	100	5
BTCE-604	Numerical Methods in Civil Engineering	4	1	-	40	60	100	5
BTCE-605	Professional Practice	3	2	-	40	60	100	5
BTCE-606	Environmental Engineering-II	3	1	-	40	60	100	4
BTCE-607	Environmental Engineering Lab	-	-	2	30	20	50	1
BTCE-608	Computer Aided Structural Drawing-II	-	-	3	30	20	50	2

BTCE-609	General Fitness				100	-	100	
Total		21	08	05	400	400	800	32

For Batch 2011 & onwards

Eighth Semester		Contact Hours: 31 Hrs						
Course Code	Course Name	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal Marks	External Marks		
BTCE-801	Design of Steel Structures-II	4	1	-	40	60	100	5
BTCE-802	Disaster Management	4	0	-	40	60	100	4
BTCE-803	Irrigation Engineering-II	3	1	-	40	60	100	4
BTCE-804	Transportation Engineering-II	3	1	-	40	60	100	4
BTCE-XXX	Elective-I	3	1	-	40	60	100	4
BTCE-YYY	Elective- II	3	1	-	40	60	100	4
BTCE-805	Project	-	-	6	100	50	150	3
	General Fitness				100	-	100	
Total		20	05	06	440	410	850	28

*** Elective I and Elective II should not be from the same group**

List of Electives:

Elective – I	Structural Engineering	<ul style="list-style-type: none"> • BTCE- 806 Dynamics of Structures • BTCE- 807 Finite Element Methods • BTCE- 808 Advanced Reinforced Concrete Design • BTCE- 809 Pre-stressed Concrete
	Infrastructure / Transportation Engineering	<ul style="list-style-type: none"> • BTCE- 818 Pavement Design • BTCE- 819 Traffic Engineering • BTCE- 820 Bridge Engineering • BTCE- 821 Infrastructure Developments and Management
Elective – II	Geotechnical Engineering	<ul style="list-style-type: none"> • BTCE- 810 Ground Improvement Techniques • BTCE- 811 Soil Dynamics and Machine Foundation • BTCE- 812 Earth and earth Retaining Structures • BTCE- 813 Reinforced Earth and Geotextiles
	Environmental/ Irrigation Engineering	<ul style="list-style-type: none"> • BTCE- 814 Advanced Environmental Engineering • BTCE- 815 Environmental Impact Assessment • BTCE- 816 Flood Control and River Engineering • BTCE- 817 Hydrology and Dams