I.K.Gujral Punjab Technical University Jalandhar, Kapurthala Study Scheme and Syllabus of B. Tech Civil Engineering, Batch 2018 onwards

Study scheme

			Third Se	mest	er					
S. No.	Category	Subject Code	Course Title	Hours per week			Ma	Credits		
110.		Code		L	T	P	Int	Ext	Total	
1	Professional Core courses	BTCE- 301-18	Surveying & Geomatics	3	1	0	40	60	100	4
2	Professional Core courses#	BTCE- 302-18	Solid Mechanics [#]	3	0	0	40	60	100	3
3	Professional Core courses #	BTCE- 303-18	Fluid Mechanics#	3	0	0	40	60	100	3
4	Basic Science Course	BTAM- 301-18	Mathematics III # (Transform & Discrete Mathematics)	4	0	0	40	60	100	4
5	Engineering Science Course	BTEC- 305-18	Basic Electronics & applications in Civil Engineering	3	0	0	40	60	100	3
6	Humanities and Social Sciences including Management	HSMC- 132-18	Civil Engineering- Introduction, Societal & Global Impact	3	0	0	40	60	100	3
7	Professional Core courses	BTCE- 306-18	Surveying & Geomatics Lab	0	0	2	30	20	50	1
8	Professional Core courses	BTCE- 307-18	Fluid Mechanics Lab	0	0	2	30	20	50	1
9	Professional Core courses	BTCE- 308-18	Solid Mechanics Lab	0	0	2	30	20	50	1
10		BMPD- 301-18	Mentoring and Professional Development	0	0	2	Satisfactory/ Unsatisfactory			-
11	Pofessional Skill Enhancement	BTCE- 332-18	Training – I*	-	-	-	60	40	100	1
			29	19	2	8	390	460	850	24

^{*} Students have already completed 3 weeks institutional training and field and market survey in Summer vacation which is to be evaluated by viva-voce conducted along End semester exam of Third semester.

Note: # These are the minimum contact hrs. allocated.

The contact hrs, may be increased by institute as per the need based on the content of subject.

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			Fourth S	emes	ter					
S No	Category	Subject Code	Course Title	Hours Per Week			Ma	Credits		
NO		Coue		L	Т	P	Int	Ext	Total	
1	Professional Core courses	BTCE- 401	Concrete Technology	3	0	0	40	60	100	3
2	Professional Core courses	BTCE- 402	Material, Testing & Evaluation	4	0	0	40	60	100	4
3	Professional Core courses	BTCE- 403	Hydrology & Water Resources	3	1	0	40	60	100	4
4	Professional Core courses	BTCE- 404	Transportation Engineering	3	1	0	40	60	100	4
5	Professional Core courses	BTCE- 405	Disaster Preparedness & Planning	3	0	0	40	60	100	3
6	Basic Sciences (Mandatory Courses)	EVS- 101-18	Environment Science (Non- credit)	2	0	0	50	-	50	0
7	Professional Core courses	BTCE- 406-18	Concrete Testing Lab	0	0	2	30	20	50	1
8	Professional Core courses	BTCE- 407-18	Transportation Lab	0	0	2	30	20	50	1
9	Professional Skill Enhancement		Training –II*	0	0	0	-	-	-	-
10		BMPD- 401-18	Mentoring and Professional Development	0	0	2	Satisfactory/ Unsatisfactory		-	
			26	18	2	6	310	340	650	20

^{* 2} weeks survey camp and 4 weeks industrial/institutional training for which viva will be conducted along End semester examination of Fifth semester.

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			Fifth Se	mest	er					
S No	Category	Subject Code	Course Title	Hours Per Week			Ma	Credits		
				L	T	P	Int	Ext	Total	
1	Professional Core courses	BTCE- 501-18	Engineering Geology	3	0	0	40	60	100	3
2	Professional Core courses	BTCE- 502-18	Elements of Earthquate	3	0	0	40	60	100	3
3	Professional Core courses	BTCE- 503-18	Construction Engineering & Management	3	0	0	40	60	100	3
4	Professional Core courses	BTCE- 504-18	Environmental Engineering	4	0	0	40	60	100	4
5	Professional Core courses	BTCE- 505-18	Structural Engineering	3	1	0	40	60	100	4
6	Professional Core courses #	BTCE- 506-18	Geotechnical Engineering#	3	0	0	40	60	100	3
7	Professional Core courses	BTCE- 507-18	Geotechnical Lab	0	0	2	30	20	50	1
8	Professional Core courses	BTCE- 508-18	Environmental Engineering Lab	0	0	2	30	20	50	1
9	Professional Core courses	BTCE- 509-18	Structural Lab	0	0	2	30	20	50	1
10		BMPD- 501-18	Mentoring and Professional	0	0	2	Satisfactory/ Unsatisfactory			-
11	Professional Skill Enhancement	BTCE- 532-18	Training – II*	-	-	-	60	40	100	1
			28	19	1	8	390	460	850	24

^{*} Students have already completed 2 weeks survey camp and 4 weeks summer internship in Summer vacation which is to be evaluated by viva-voce conducted along End semester exam of Fifth semester.

			Sixth Se	mest	er					
S No	Category	Subject Code	Course Title			Per k	Marks			Credits
				L	T	P	Int	Ext	Total	
1	Professional Core courses	BTCE-	Estimation & Costing and Professional	3	1	0	40	60	100	4
2	Professional Core courses	BTCE- 116	Construction Practices	3	0	0	40	60	100	3
3	Professional Elective courses	BTCE- XXX	Elective – I	3	1	0	40	60	100	4
4	Professional Elective courses	PECE- XXX	Elective – II	3	1	0	40	60	100	4
5	Professional Core courses	BTCE- 109	CAD Lab	0	0	2	30	20	50	1
6	Open Elective courses	OEZZ- XXX	Open Elective – I	3	0	0	40	60	100	3
7	Project	PRCE- 102	Minor Project (Estimation & costing)	0	0	4	60	40	100	2
8	Mandatory Courses	MCXX- XX	Constitution of India	2	0	0	50	-	50	0
9		BMPD- 601-18	Mentoring and Professional	0	0	2	Satisfactory/ Un	satisfact	ory	-
			28	17	3	8	340	360	700	21

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# 6 W	veeks industrial/institu	ıtional traini	ng for which viva will be			d alor	ng End semester e	xam of S	Seventh s	emester.
S No	Category	Subject Code	Seventh S Course Title	Hours Per Week			Ma	rks		Credits
110		Code		L	Т	P	Int	Ext	Total	
1	Professional Elective courses	PECE- XXX	Elective – III	3	1	0	40	60	100	4
2	Professional Elective courses	PECE- XXX	Elective – IV	3	1	0	40	60	100	4
3	Open Elective courses	OEZZ- XXX	Open Elective – II(Metro system and Engg)	3	0	0	40	60	100	3
4	Professional Core courses	BTCE-	Software Application Lab	0	0	2	30	20	50	1
5	Project	PRCE-	Project -I (Project work / internship in industry or at appropriate work place)	0	0	6	120	80	200	3
6	Project/Training	BTCE- 732-18	Training – III	-	-	-	60	40	100	2
7	Mandatory Courses (Non-credit)	BTMC- XXXX	Management- I (Organizational Behavior and Entrepreneurship)	2	0	0	50	-	50	0
8		BMPD- 701-18	Mentoring and Professional	0	0	2	Satisfactory/ U	-		
			23	11	2	10	430	320	750	17
S	Catanana	Subject	Eighth So	Но	urs		Ma	rks		Credits
No	Category	Code	Course Tide	L	Wee T	k P	Int	Ext	Total	
1	Professional Elective courses	PECE- XXX	Elective – V	3	1	0	40	60	100	4
2	Professional Elective courses	PECE- XXX	Elective – VI	3	1	0	40	60	100	4
3	Open Elective courses	OEZZ- XXX	Open Elective – III	3	0	0	40	60	100	3
4	Project	PRCE- 104	Project -II (Project work / internship in industry or at appropriate work place)	0	0	6	120	80	200	3
5		BMPD- 801-18	Mentoring and Professional	0	0	2	Satisfactory/ U	Satisfactory/ Unsatisfactory		
			19	9	2	8	240	260	500	14