

S.Y.B.Tech. In Civil Engineering

Sem. III & IV

Academic Evaluation Scheme

Year 2018-19

Sardar Patel College of Engineering

Andheri (West), Mumbai 400 058

Credit System for S.Y.B.Tech.in Civil Engineering, (Semester - III) Academic Year 2018-19

Sr. No.	Course	Code	Course Type	Course Plan for Each Week (Hrs)			Credits	Evaluation (Marks)						Total
				Lectures	Laboratory	Tutorial		Test 1	Test 2	End Semester		End Semester Weightage (%)	In Semester Evaluation	
										Marks	Duration (Hrs)			
Theory Courses														
1	Engineering Mathematics III	BS-BTC301	BSC	2	--	---	2	20	20	100	3	60%	--	100
2	Mechanics of Materials	ES-BTC302	ESC	2	--	--	2	20	20	100	3	60%	--	100
3	Basics of Surveying	PC-BTC303	PCC	2		--	2	20	20	100	3	60%	--	100
4	Building Drawing with CAD	ES-BTC304	ESC	1	--	--	1	20	20	100	3	60%	--	100
5	Engineering Geology	BS-BTC305	BSC	2	-	--	2	20	20	100	3	60%	--	100

Sardar Patel College of Engineering Andheri (West), Mumbai 400 058

Academic Book

Year: 2018-19

6	Fluid Mechanics	PC-BTC306	PCC	2	--	---	2	20	20	100	3	60%	--	100	
7	Engineering Materials	PC-BTC307	PCC	2			2	20	20	100	3	60%	--	100	
Laboratory Courses															
8	Mechanics of Materials (Lab)	ES-BTC351	ESC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]	
9	Basics of Surveying (Lab.)	PC-BTC352	PCC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]	
10	Fluid Mechanics (Lab.)	PC-BTC353	PCC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]	
11	Materials Testing & Evaluation (Lab.)	PC-BTC354	PCC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]	
12	Building Drawing with CAD (Lab.)	ES-BTC355	ESC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]	
13	Engineering Geology (Lab.)	BS-BTC356	BSC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]	
Total					13	12	--	19	140	140	--	--	---	150	850
Choice based value added courses															

Sardar Patel College of Engineering Andheri (West), Mumbai 400 058

Academic Book

Year: 2018-19

1	Energy science & Engineering	VA-BTC-326	BSC	1	--	1	0	10	10	100	2	60%	20	100
2	Life Science	VA-BTC-327	BSC	1	-	-	0	20	20	100	2	60%	-	100
3	Introduction to Civil Engineering	VA-BTC-328	HSMC	2	--	--	0	20	20	100	2	60%	---	100
4	Economics for Engineers	VA-BTC-329	HSMC	3	-	-	0	20	20	100	3	60%	-	100
5	Sociology & Elements of Indian History for Engineers	VA-BTC-326	HSMC	3	-	-	0	20	20	100	3	60%	-	100
6	Life Science (LAB)	VA-BTC-357	BSC	-	2	-	-	-	-	-	-	-	20	20

Assessment criteria for laboratory/Tutorial work. i.e. weightage for assessment shall be as follows:

(i) Attendance in Laboratory/Tutorial = 20%, (ii) Journal/Drawing sheet/Sketch book = 40%, (iii) MCQ/Oral/Test = 40%.

Students can take any one course from choice based value added courses.

Note: (1) Refer (i) Academic rules and regulations and (ii) Examination rules and regulations for further details.

(2) Laboratory course is considered as a separate head of passing.

(3) Student can opt for an online course available on <https://swayam.gov.in/> or <https://onlinecourses.nptel.ac.in/> and inform department by filling up registration form. After successful completion of the course and approval from the department UG committee, the course title can appear on the grade card of the student.

(4) The Mandatory courses are with Pass (P) and No Pass (NP) grades offered institute wide, available in both semesters of year and must be passed before obtaining degree.

(5) For value added and elective courses, minimum 20 students must be enrolled for the department to offer a particular course.

Students can take any one value added course.

Sardar Patel College of Engineering
Andheri (West), Mumbai 400 058

Credit System for S.Y.B.Tech. In Civil Engineering, (Semester - IV) Academic Year 2018-19

Sr. No.	Course	Code	Course Type	Course Plan for Each Week (Hrs)			Credits	Evaluation (Marks)					Total	
				Lect ures	Laboratory	Tutorial		Test 1	Test 2	End Semester		End Semester Weightage (%)		In Semester Evaluation
										Marks	Duration (Hrs)			
Theory Courses														
1	Probability and Statistics	BS-BTC401	BSC	2	--	--	2	20	20	100	3	60%	--	100
2	Structural Mechanics	PC-BTC402	PCC	2	--	1	3	20	20	100	3	60%	25#	125
3	Concrete Technology	PC-BTC403	PCC	2	---	---	2	20	20	100	3	60%	---	100
4	Surveying & Geomatics	PC-BTC404	PCC	2	--	---	2	20	20	100	3	60%	--	100
5	Hydraulic Engineering	PC-BTC405	PCC	2	--	--	2	20	20	100	3	60%	--	100

Sardar Patel College of Engineering Andheri (West), Mumbai 400 058

Academic Book

Year: 2018-19

6	Transportation Engineering	PC-BTC406	PCC	2	--	--	2	20	20	100	3	60%	--	100
7	Soil Mechanics	PC-BTC407	PCC	2	--	--	2	20	20	100	3	60%	--	100
8	Environmental Engineering-I	PC-BTC408	PCC	2	--	--	2	20	20	100	3	60%	--	100
Laboratory Courses														
10	Concrete Technology (Lab)	PC-BTC451	PCC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]
11	Surveying & Geomatics (Lab.)	PC-BTC452	PCC	--	2	--	1	--	--	--	--	--	50 [#]	50 [#]
12	Hydraulic Engineering (Lab.)	PC-BTC453	PCC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]
13	Soil Mechanics (Lab)	PC-BTC454	PCC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]
14	Environmental Engineering (Lab.)	PC-BTC455	PCC	--	2	--	1	--	--	--	--	--	25 [#]	25 [#]
Total				19	8	2	22	180	180	540	18	---	175	975
Mandatory Course														
1	Indian traditional knowledge	MC-BT-02	Mandatory Course(MC)	2	-	-	AU	20	20	100		60%	-	100

Sardar Patel College of Engineering Andheri (West), Mumbai 400 058

Academic Book

Year: 2018-19

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Choice based value added Courses														
2	Disaster Preparedness & Planning	VA-BTC-426	HSMC	3	--	1	0	20	20	100	3	60%	20 [#]	100
3	Civil Engineering - Societal & Global Impact	VA-BTC-427	HSMC	2	--	--	0	20	20	100	3	60%	-	100
4	Management- I (Organizational Behavior)	VA-BTC-428	HSMC	3	--	--	0	20	20	100	3	60%	--	100
5	Rural Technology & Community Development	VA-BTC-429	ESC	3	-	-	0	20	20	100	3	60%	-	100
6	Developing soft skills and personality	VA-BTC-430	HSMC	2		2	0	20	20	100	3	60%	20 [#]	100
7	Development Engineering	VA-BTC-431	ESC	2	-	--	0	20	20	100	3	60%	-	100
8	Development Engineering(LAB)	VA-BTC-456	ESC	-	2	-	0	-	-	-	-	-	25	25

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