

Bharati Vidyapeeth Deemed University

College of Engineering, Pune

Department of Civil Engineering

Mapping of Term Work with PO

B.Tech (Civil)- Semester I

Name of Course: -Elements of Civil Engineering

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√											√
2.	√								√			√
3.	√				√				√			
4.	√				√				√			
5.	√				√				√			
6.	√				√				√			√
7.	√				√				√			√

B. Tech. Civil Semester I

Name of Course:- Environmental Studies

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.							√	√	√			√
2.							√	√	√			√
3.						√	√	√	√			√
4.						√	√	√	√			√
5.						√	√	√	√			√
6.							√	√	√			√
7.							√	√	√			√

B.Tech (Civil)- Semester II

Name of Course:-Engineering Mechanics

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	✓	✓		✓					✓	✓		✓
2.	✓	✓		✓					✓	✓		✓
3.	✓	✓		✓					✓	✓		✓
4.	✓	✓		✓					✓	✓		
5.	✓	✓		✓					✓	✓		✓
6.	✓	✓		✓					✓	✓		✓
7.	✓	✓		✓					✓	✓		✓
8.	✓	✓		✓					✓	✓		✓

B.Tech (Civil)- Semester III

Name of Course:-Building Construction of Practices

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	✓		✓		✓	✓		✓		✓		✓
2.	✓	✓	✓		✓	✓	✓	✓		✓		✓
3.	✓	✓	✓		✓	✓	✓	✓		✓		✓
4.	✓	✓	✓		✓	✓	✓	✓		✓		✓
5.	✓	✓	✓		✓	✓	✓	✓		✓		✓
6.	✓	✓	✓		✓	✓	✓	✓		✓		✓
7.	✓	✓	✓		✓	✓	✓	✓		✓		✓
8.	✓	✓	✓		✓	✓	✓	✓		✓		✓
9.	✓	✓	✓		✓	✓	✓	✓		✓		✓
10.	✓	✓	✓		✓	✓	✓	✓		✓		✓

11.	√	√	√		√	√	√	√		√		√
12.	√	√	√		√	√	√	√		√		√
13.	√	√	√	√	√	√	√	√		√	√	√
14.	√	√	√	√	√	√	√	√		√	√	√
15.	√	√	√		√	√	√	√	√	√	√	√
16.	√	√	√		√	√	√	√	√	√	√	√

B.Tech (Civil)- Semester III

Name of Course:-Engineering Geology

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√	√	√		√	√		√	√	√	√
2.	√	√	√	√		√	√		√	√	√	√
3.	√	√	√	√		√	√		√	√	√	√
4.	√	√					√		√	√	√	√
5.	√	√	√	√			√		√	√	√	√
6.	√	√	√	√			√		√	√	√	√
7.	√	√	√	√			√		√	√	√	√
8.	√	√	√	√			√		√	√	√	√
9.	√	√	√	√			√		√	√	√	√
10.	√	√	√	√			√		√	√	√	√

B.Tech (Civil)- Semester III

Name of Course:-Mechanics of Materials

TW	POs
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	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√		√	√	√	√		√			√
2.	√			√	√	√	√	√				√
3.	√	√		√	√	√	√				√	√
4.	√			√	√	√			√			√
5.	√	√		√	√	√	√	√	√	√		√
6.				√	√		√		√	√	√	√
7.	√			√	√	√		√	√			√
8.		√		√	√	√		√	√	√		√
9.		√			√	√	√		√		√	√
10.		√		√	√	√	√	√	√		√	√
11.		√		√	√	√	√		√		√	√
12.		√		√	√	√	√	√	√		√	√

B.Tech (Civil)- Semester III

Name of Course:-Concrete Technology

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√		√	√		√	√	√	√		√
2.	√	√		√	√		√	√	√	√		√
3.	√	√		√	√		√	√	√	√		√
4.	√	√		√	√		√	√	√	√		√
5.	√	√		√	√		√	√	√	√		√
6.	√	√		√	√		√	√	√	√		√
7.	√	√		√	√		√	√	√	√		√
8.	√	√		√	√		√	√	√	√		√
9.	√	√		√	√		√	√	√	√		√
10.	√	√		√	√		√	√	√	√		√
11.	√	√	√	√	√	√	√	√	√	√		√
12.	√	√	√	√	√	√	√	√	√	√		√
13.	√	√	√	√		√	√	√	√	√		√
14.	√	√	√	√		√	√	√	√	√		√
15.	√	√	√	√		√	√	√	√	√		√

B.Tech (Civil)- Semester III

Name of Course:-Computer Applications in Civil Engineering I

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√	√		√	√	√	√	√	√	√	√
2.	√	√	√		√	√	√	√	√	√	√	√
3.	√	√	√		√	√	√	√	√	√	√	√

B.Tech (Civil)- Semester IV

Name of Course:-Building Planning and Design

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√		√		√	√		√	√	√		√
2.	√	√	√		√	√			√	√	√	√
3.	√	√	√		√	√			√	√	√	√
4.	√	√	√		√	√			√	√	√	√
5.	√	√	√		√	√			√	√	√	√
6.	√	√	√		√	√			√	√	√	√
7.	√	√	√		√	√			√	√	√	√
8.	√	√	√		√	√			√	√	√	√
9.	√	√	√		√	√			√	√	√	√
10.	√	√	√		√	√			√	√	√	√
11.	√	√	√		√	√			√	√	√	√

B.Tech (Civil)- Semester IV

Name of Course:-Surveying & Levelling

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√							√	√	√	√	√
2.	√							√	√	√	√	√
3.	√		V					√	√	√	√	√
4.	√							√	√	√	√	√
5.	√							√	√	√	√	√
6.	√							√	√	√	√	√
7.	√							√	√	√	√	√
8.	√		√					√	√	√	√	√
9.	√		√					√	√	√	√	√
10.	√		√					√	√	√	√	√
11.	√		√					√	√	√	√	√
12.	√		√					√	√	√	√	√
13.	√		√					√	√	√	√	√
14.	√		√					√	√	√	√	√
15.	√		√					√	√	√	√	√

8.	√	√	√	√									
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B.Tech (Civil)- Semester IV

Name of Course:- Computer Application in Civil Engineering II

TW	POs												
	1	2	3	4	5	6	7	8	9	10	11	12	
1.	√	√	√	√	√	√	√	√	√	√	√	√	√

B.Tech (Civil)- Semester V

Name of Course:-Geotechnical Engineering

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√		√				√	√			√
2.	√	√		√				√	√			√
3.	√	√		√				√	√			√
4.	√	√	√	√				√	√			√
5.	√	√	√	√				√	√			√
6.	√	√	√	√				√	√			√
7.	√	√	√	√				√	√			√
8.	√	√	√	√				√	√			√
9.	√	√	√	√				√	√			√
10.	√	√	√	√				√	√			√

B.Tech (Civil)- Semester V

6.	√								√	√		√
7.	√											
8.	√				√				√	√		√
9.	√			√	√				√	√		√
10.	√			√	√				√	√		√
11.	√			√	√				√	√		√

B.Tech (Civil) – Semester VI

Name of Course:- Structural Design-II

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
Project-I												
1.Slab Design	√	√	√		√		√	√	√	√		√
2-Beam Design	√	√	√		√		√	√	√	√		√
3.Staircase Design	√	√	√		√		√	√	√	√		√
4. Column Design	√	√	√		√		√	√	√	√		√
5. Footing Design	√	√	√		√		√	√	√	√		√
Sheet 1					√				√	√		√
Sheet 2					√				√	√		√
Sheet 3					√				√	√		√
Sheet 4					√				√	√		√
Report on site visit		√			√			√	√	√	√	√

B.Tech (Civil)- Semester VI

Name of Course:-Environmental Systems In Water and Waste Water Treatment

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.			√				√		√			
2.			√				√		√			
3.			√				√		√			
4.			√				√		√			
5.			√				√		√			
6.			√				√		√			
7.			√				√		√			
8.			√				√		√			
9.			√				√		√			
10.			√				√		√			

B.Tech (Civil)- Semester VI

Name of Course:-Project Management

TW	POs
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	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√			√	√	√		√			√
2.	√				√	√	√	√				√
3.	√	√		√	√	√	√				√	√
4.	√			√	√	√			√			√
5.	√	√				√	√	√	√	√		√
6.				√	√		√			√	√	√
7.	√			√	√	√		√				√
8.		√		√	√	√		√	√	√		√
9.		√			√	√	√		√		√	√
10.		√		√			√	√	√		√	√
11.		√		√	√	√	√		√		√	√
12.		√		√	√	√	√	√	√		√	√

B.Tech (Civil)- Semester VI

Name of Course:- Computer Applications in Civil Engineering IV

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√	√	√	√	√			√	√		
2.	√	√	√	√	√	√			√	√		
3.	√	√	√	√	√	√			√	√		
4.	√	√	√	√	√	√			√	√		
5.	√	√	√	√	√	√			√	√		
6.	√	√	√	√	√	√			√	√		

B.Tech (Civil) – Semester VII

Name of Course:- Structural Design III

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.Retaining	√	√	√	√	√		√	√	√	√		√

Wall Design												
2-Combined Footing Design	√	√	√	√	√		√	√	√	√		√
3.Prestressed Concrete Girder Design	√	√	√	√	√		√	√	√	√		√
Sheet 1					√				√	√		√
Sheet 2					√				√	√		√
Sheet 3					√				√	√		√
Report on site visit		√			√			√	√	√	√	√

B.Tech (Civil)- Semester VII

Name of Course:-Elective I Construction Management

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√		√	√	√	√		√			√
2.	√			√	√	√	√	√				√
3.	√	√		√	√	√	√				√	√
4.	√			√	√	√			√			√
5.	√	√		√	√	√	√	√	√	√		√
6.				√	√		√		√	√	√	√
7.	√			√	√	√		√	√			√
8.		√		√	√	√		√	√	√		√
9.		√			√	√	√		√		√	√
10.		√		√			√	√	√		√	√
11.		√		√	√	√	√		√		√	√
12.		√		√	√	√	√	√	√		√	√

B.Tech (Civil) - Semester VII

Name of Course:- Elective I Solid Waste Management

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√	√	√	√	√	√	√	√	√	√	√
2.	√	√	√	√	√	√	√	√	√	√	√	√
3.	√	√	√	√	√	√	√	√	√	√	√	√
4.	√	√	√	√	√	√	√	√	√	√	√	√
5.	√	√	√	√	√	√	√	√	√	√	√	√
6.	√	√	√	√	√	√	√	√	√	√	√	√

B.Tech (Civil) - Semester:- VII

Name of Course :- Environmental and Water Resources Engineering

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.			√				√		√			√
2.			√				√		√			√
3.			√				√		√			√
4.			√				√		√			√
5.			√				√		√			√
6.			√				√		√			√
7.			√				√		√			√
8.			√				√		√			√
9.			√				√		√			√
10.			√				√		√			√

11.			√				√		√			√
12.			√				√		√			√

B.Tech (Civil) - Semester:- VII

Name of Course:- Project Stage I

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√	√	√	√	√	√	√	√	√	√	√

B.Tech (Civil)- Semester VII

Name of Course:-Infrastructure Engineering II

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√		√	√	√	√		√			√
2.	√			√	√	√	√	√				√
3.	√	√		√	√	√	√				√	√
4.	√			√	√	√			√			√
5.	√	√		√	√	√	√	√	√	√		√
6.				√	√		√		√	√	√	√
7.	√			√	√	√		√	√			√
8.		√		√	√	√		√	√	√		√
9.		√			√	√	√		√		√	√
10.		√		√	√	√	√	√	√		√	√
11.		√		√	√	√	√		√		√	√

12.		√		√	√	√	√	√	√		√	√
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B.Tech (Civil)- Semester:- VII

Name of Course:- In Plant Training

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√	√	√	√	√	√	√	√	√	√	√

B.Tech (Civil) – Semester VIII

Name of Course:- Earthquake Engineering and Disaster Management

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
Unit-1	√					√	√	√	√	√		√
Unit-1I	√	√	√		√	√	√	√	√	√		√
Unit-1II	√	√	√		√	√	√	√	√	√		√
Unit-1V						√	√	√	√	√	√	√
Unit-V						√	√	√	√	√	√	√
Unit-V1						√	√	√	√	√	√	√

B.Tech (Civil)- Semester:- VIII

Name of Course:-Water Resource Engineering II

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√									√		√
2.	√	√	√				√	√		√		√
3.	√	√	√				√	√		√		√
4.	√	√	√				√	√		√		√
5.		√	√				√	√		√		√
6.	√									√		√
7.	√											
8.	√									√		√

B.Tech (Civil)- Semester:- VIII

Name of Course:-Quantity Surveying and Valuation

TW	Pos											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√		√	√	√	√		√			√
2.	√			√	√	√	√	√				√
3.	√	√		√	√	√	√				√	√
4.	√			√	√	√			√			√
5.	√	√		√	√	√	√	√	√	√		√
6.				√	√		√		√	√	√	√
7.	√			√	√	√		√	√			√
8.		√		√	√	√		√	√	√		√
9.		√			√	√	√		√		√	√
10.		√		√	√	√	√	√	√		√	√
11.		√		√	√	√	√		√		√	√

12.		√		√	√	√	√	√	√		√	√
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B.Tech (Civil)- Semester:- VIII

Name of Course:-Advanced Engineering Geology with Rock Mechanics. (Elective II)

TW	POs											
	1	2	3	4	5	6	7	8	9	10	11	12
1.	√	√	√	√		√	√		√	√	√	√
2.	√	√	√	√		√	√		√	√	√	√
3.	√	√	√	√		√	√		√	√	√	√
4.	√	√					√		√	√	√	√
5.	√	√	√	√			√		√	√	√	√
6.	√	√	√	√			√		√	√	√	√
7.	√	√	√	√			√		√	√	√	√
8.	√	√	√	√			√		√	√	√	√
9.	√	√	√	√			√		√	√	√	√
10.	√	√	√	√			√		√	√	√	√

