

Bharati Vidyapeeth Deemed University

College of Engineering, Pune

Department of Civil Engineering

Mapping of University Examination Questions with PO

B.Tech (Civil) – Semester I

Name of Course: -Engineering Mathematics- I

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√	√	√	√					√
	B	√	√	√	√	√					√		√
	C	√	√		√		√	√	√				√
2		√	√	√	√	√	√	√					√
3		√	√	√	√	√					√		√
4		√	√		√		√	√	√				√
5	A	√	√		√		√	√	√		√		√
	B	√	√	√		√	√		√	√		√	√
	C	√	√	√	√	√	√	√	√	√	√	√	√
6		√	√		√		√	√	√		√	-	√
7		√	√	√		√	√		√	√		√	√
8		√	√	√	√	√	√	√	√	√	√	√	√

B. Tech (Civil) – Semester I

Name of Course: -Engineering Science-I

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√		√	√	√	√		√	√		√
	B	√			√	√	√	√		√	√		√
	C	√	√	√	√	√	√	√		√	√		√
2		√	√		√	√	√	√		√	√		√
3		√			√	√	√	√		√	√		√
4		√	√	√	√	√	√	√		√	√		√

5	A	√			√	√	√	√	√	√	√	√	√
	B	√	√	√	√	√	√	√	√		√		√
	C	√			√	√	√	√	√	√	√	√	√
6		√			√	√	√	√	√	√	√	√	√
7		√	√	√	√	√	√	√	√		√		√
8		√			√	√	√	√	√	√	√	√	√

B. Tech (Civil)- Semester I

Name of Course: -Elements of Mechanical Engineering

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√				√	√		√	√		√
	B	√	√	√						√	√		√
	C	√	√				√			√	√		√
2		√	√				√	√		√	√		√
3		√	√	√						√	√		√
4		√	√				√			√	√		√
5	A	√	√										√
	B	√	√							√	√		√
	C	√	√							√	√		√
6		√	√										√
7		√	√							√	√		√
8		√	√							√	√		√

B. Tech (Civil)- Semester I

Name of Course: -Elements of Civil Engineering

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√											√
	B	√								√	√		
	C	√		√		√				√	√	√	
2		√											√
3		√								√	√		
4		√		√		√				√	√	√	
5	A	√		√		√	√	√	√	√	√		√
	B	√	√	√	√	√			√	√	√		√

	C	√							√	√		√	√
6		√		√		√	√	√	√	√	√		√
7		√	√	√	√	√			√	√	√		√
8		√							√	√		√	√

B. Tech. Civil Semester I

Name of Course: -Environmental studies

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√				√	√	√			√		√
	B		√	√			√				√		√
	C	√	√	√		√	√	√			√		√
2		√				√	√	√			√		√
3		√	√	√			√				√		√
4			√	√		√	√	√			√		√
5	A	√	√	√	√		√	√			√		√
	B	√	√		√	√	√	√	√		√		√
	C	√	√		√		√	√			√		√
6			√	√	√		√	√			√		√
7		√	√		√	√	√	√	√		√		√
8		√	√	√	√		√				√		√

B.Tech (Civil)- Semester II

Name of Course: - Engineering Mathematics II

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√	√	√	√					√
	B	√	√	√	√	√					√		√
	C	√	√		√		√	√	√				√
2		√	√	√	√	√	√	√					√
3		√	√	√	√	√					√		√
4		√	√		√		√	√	√				√

5	A	√	√		√		√	√	√		√		√
	B	√	√	√		√	√		√	√		√	√
	C	√	√	√	√	√	√	√	√	√	√	√	√
6		√	√		√		√	√	√		√		√
7		√	√	√		√	√		√	√		√	√
8		√	√	√	√	√	√	√	√	√	√	√	√

B.Tech (Civil)- Semester II

Name of Course:- Engineering Science II

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√		√	√	√	√			√		√
	B	√	√		√	√	√	√			√		√
	C	√			√	√	√	√			√		√
2		√	√		√	√	√	√			√		√
3		√	√		√	√	√	√			√		√
4		√			√	√	√	√			√		√
5	A	√	√		√	√	√	√			√		√
	B	√	√			√	√	√			√		√
	C	√			√	√	√	√			√		√
6		√	√		√	√	√	√			√		√
7		√	√			√	√	√			√		√
8		√			√	√	√	√			√		√

B.Tech (Civil)- Semester II

Name of Course: -Engineering Mechanics

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√						√		√
	B	√	√	√							√		√
	C	√	√	√	√						√		√
2		√	√	√	√						√		√
3		√	√	√							√		√
4		√	√	√	√						√		√

5	A	✓	✓	✓	✓						✓		✓
	B	✓	✓	✓	✓						✓		✓
	C	✓	✓	✓	✓						✓		✓
6		✓	✓	✓	✓						✓		✓
7		✓	✓	✓	✓						✓		✓
8		✓	✓	✓	✓						✓		✓

B.Tech (Civil)- Semester II

Name of Course: - Engineering Graphics II

Question No.	POs												
	1	2	3	4	5	6	7	8	9	10	11	12	
1	✓				✓								✓
2	✓				✓								✓
3	✓				✓								✓
4	✓				✓								✓
5	✓				✓								✓
6	✓				✓								✓

B.Tech (Civil)- Semester II

Name of Course: - Elements of Electrical & Electronics Engineering

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	✓	✓		✓				✓			✓	✓
	B	✓	✓		✓				✓				✓
	C	✓	✓		✓				✓				✓
2		✓	✓		✓				✓				✓
3		✓	✓		✓				✓				✓
4		✓	✓		✓				✓				✓
5	A	✓	✓		✓				✓				✓
	B		✓		✓				✓				
	C		✓						✓				✓
6		✓	✓		✓				✓				✓
7			✓						✓			✓	✓
8			✓						✓			✓	✓

B.Tech (Civil)- Semester III

Name of Course:- Building Construction Practices

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A		√	√	√	√	√	√		√	√	√	√
	B			√	√	√				√	√	√	√
	C			√		√				√	√	√	√
2			√	√	√	√	√	√		√	√	√	√
3				√	√	√				√	√	√	√
4				√		√				√	√	√	√
5	A			√		√		√		√	√	√	√
	B			√		√				√	√	√	√
	C					√		√	√		√		√
6				√		√		√		√	√	√	√
7				√		√				√	√	√	√
8						√		√	√		√		√

B.Tech (Civil)- Semester III

Name of Course: -Engineering Geology

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√	√		√		√	√	√	√
	B	√	√	√	√	√				√	√	√	√
	C	√	√	√	√	√	√			√	√	√	√
2		√	√	√	√	√				√	√	√	√
3		√	√	√	√	√				√	√	√	√
4		√	√	√	√	√	√			√	√	√	√
5	A	√	√	√	√	√	√	√		√	√	√	√
	B	√	√	√	√	√	√	√		√	√	√	√



4		√	√	√	√	√	√	√	√	√	√	√	√
5	A	√	√	√	√	√	√	√	√	√	√	√	√
	B	√	√	√	√	√	√	√	√	√	√	√	√
	C	√	√	√	√	√	√	√	√	√	√	√	√
6		√	√	√	√	√	√	√	√	√	√	√	
7		√	√	√	√	√	√	√	√	√	√	√	
8		√	√	√	√	√	√	√	√	√	√	√	

B.Tech (Civil)- Semester III

Name of Course:- Engineering Economics & Management

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A		√			√	√	√	√	√	√	√	
	B		√			√	√	√	√	√	√	√	
	C		√			√		√	√	√	√	√	
2		√	√			√		√	√	√	√	√	
3		√									√	√	
4		√						√	√	√	√	√	
5	A						√	√	√	√	√	√	
	B					√	√			√	√	√	
	C		√			√	√	√	√	√	√	√	
6		√	√					√	√	√	√	√	
7		√	√			√	√	√	√	√	√	√	
8		√	√			√	√	√	√	√	√	√	

B.Tech (Civil)- Semester IV

Name of Course:- Engineering Mathematics III

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√	√						√	√
	B	√	√	√	√	√						√	√
	C	√	√	√	√	√						√	√
2		√	√	√	√	√						√	√

3		√	√	√	√	√						√	√
4		√	√	√	√	√						√	√
5	A	√	√	√	√	√						√	√
	B	√	√	√	√	√						√	√
	C	√	√	√	√	√						√	√
6		√	√	√	√	√						√	√
7		√	√	√	√	√						√	√
8		√	√	√	√	√						√	√

B.Tech (Civil)- Semester IV

Name of Course:- Building Planning & Design

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A			√		√		√		√	√		√
	B		√	√	√	√		√		√	√		√
	C		√	√	√	√		√		√	√		√
2				√		√		√		√	√		√
3			√	√	√	√		√		√	√		√
4			√	√	√	√		√		√	√		√
5	A		√	√		√		√		√	√		√
	B		√	√		√		√		√	√		√
	C					√	√		√	√	√		√
6			√	√		√		√		√	√		√
7			√	√		√		√		√	√		√
8						√	√		√	√	√		√

B.Tech (Civil)- Semester IV

Name of Course:- Surveying & Levelling

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√			√	√			√	√	√	√
	B	√	√			√	√		√	√	√		√

	C	√	√	√	√			√	√	√	√		√
2		√	√			√	√			√	√	√	√
3		√	√			√	√		√	√	√		√
4		√	√	√	√			√	√	√	√		√
5	A	√				√			√	√	√		√
	B	√	√			√	√	√	√	√	√	√	√
	C	√				√	√		√	√	√	√	√
6		√			√			√	√	√		√	
7		√	√			√	√	√	√	√	√	√	√
8		√				√	√		√	√	√	√	√

B.Tech (Civil)- Semester IV

Name of Course: -Structural Mechanics I

Question No.	POs												
	1	2	3	4	5	6	7	8	9	10	11	12	
1	A	√	√	√	√						√		
	B	√	√	√	√						√		
	C	√	√	√	√						√		
2		√	√	√	√						√		
3		√	√	√	√						√		
4		√	√	√	√						√		
5	A	√	√	√	√						√		
	B	√	√	√	√						√		
	C	√	√	√	√						√		
6		√	√	√	√						√		
7		√	√	√	√						√		
8		√	√	√	√						√		

B.Tech (Civil)- Semester IV

Name of Course:- Fluid Mechanics I

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A		√	√	√			√		√	√		√
	B	√	√	√	√			√		√	√		√
	C	√	√	√	√			√		√	√		√
2		√	√	√	√	√		√		√	√		√
3		√	√	√	√	√		√		√	√		√
4		√	√	√	√	√		√		√	√		√
5	A	√	√	√	√			√		√	√		√
	B	√	√	√	√			√		√	√		√
	C	√	√	√	√			√		√	√		√
6		√	√	√	√			√		√	√		√
7		√	√	√	√			√		√	√		√
8		√	√	√	√			√		√	√		√

B.Tech (Civil)- Semester V

Name of Course:- Geotechnical Engineering

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√	√	√		√	√	√	√	√
	B	√	√	√	√	√	√		√	√	√	√	√
	C	√	√	√	√	√	√		√	√	√	√	√
2		√	√	√	√	√	√		√	√	√	√	√
3		√	√	√	√	√	√		√	√	√	√	√
4		√	√	√	√	√	√		√	√	√	√	√
5	A	√	√	√	√	√	√		√	√	√	√	√
	B	√	√	√	√	√	√		√	√	√	√	√
	C	√	√	√	√	√	√		√	√	√	√	√
6		√	√	√	√	√	√		√	√	√	√	√
7		√	√	√	√	√	√		√	√	√	√	√
8		√	√	√	√	√	√		√	√	√	√	√

B.Tech (Civil)- Semester V

Name of Course:- Construction Operation & Equipment

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√		√	√		√		√	√	√	√
	B	√	√		√	√		√		√	√	√	√
	C	√			√					√		√	√
2		√	√		√	√		√		√	√	√	√
3		√	√		√	√		√		√	√	√	√
4		√			√					√		√	√
5	A	√	√		√	√					√	√	√
	B				√	√		√				√	√
	C	√							√		√		√
6		√	√		√	√				√	√	√	√
7		√			√	√		√				√	√
8		√							√		√		√

B.Tech (Civil)- Semester V

Name of Course:- Structural Design I

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√		√	√	√		√		
	B	√	√	√	√		√	√	√		√		
	C	√	√	√	√		√	√	√		√		
2		√	√	√	√		√	√	√		√		
3		√	√	√	√		√	√	√		√		
4		√	√	√	√		√	√	√		√		
5	A	√	√	√	√		√	√	√		√		
	B	√	√	√	√		√	√	√		√		
	C	√	√	√	√		√	√	√		√		
6		√	√	√	√		√	√	√		√		
7		√	√	√	√		√	√	√		√		
8		√	√	√	√		√	√	√		√		

B.Tech (Civil)- Semester V

Name of Course:- Fluid Mechanics II

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√			√		√	√		√
	B	√	√	√	√			√		√	√		√
	C	√	√	√	√			√		√	√		√
2		√	√	√	√	√		√		√	√		√
3		√	√	√	√	√		√		√	√		√
4		√	√	√	√	√		√		√	√		√
5	A	√	√	√	√			√		√	√		√
	B	√	√	√	√			√		√	√		√
	C	√	√	√	√			√		√	√		√
6		√	√	√	√			√		√	√		√
7		√	√	√	√			√		√	√		√
8		√	√	√	√			√		√	√		√

B.Tech (Civil)- Semester V

Name of Course:-Structural Mechanics II

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√						√		
	B	√	√	√	√						√		
	C	√	√	√	√						√		
2		√	√	√	√						√		
3		√	√	√	√						√		
4		√	√	√	√						√		
5	A	√	√	√	√						√		
	B	√	√	√	√						√		
	C	√	√	√	√						√		
6		√	√	√	√						√		
7		√	√	√	√						√		
8		√	√	√	√						√		

B.Tech (Civil)- Semester VI

Name of Course:- Advanced Surveying

Question No.		Pos											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√									√		

	B	√									√		
	C	√									√		
2		√				√					√		
3		√									√		
4		√				√					√		
5	A	√									√		
	B	√									√		
	C	√									√		
6		√				√				√			
7		√									√		
8		√									√		

B.Tech (Civil)- Semester VI

Name of Course:- Structural Design II

Question No.		POs												
		1	2	3	4	5	6	7	8	9	10	11	12	
1	A	√	√	√								√		
	B	√	√	√			√	√	√		√			
	C	√	√	√			√	√	√		√			
2		√	√	√										
3		√	√	√			√	√	√		√			
4		√	√	√			√	√	√		√			
5	A	√	√	√			√	√	√		√			
	B	√	√	√			√	√	√		√			
	C	√	√	√			√	√	√		√			
6		√	√	√			√	√	√		√			
7		√	√	√			√	√	√		√			
8		√	√	√			√	√	√		√			

B.Tech (Civil)- Semester VI

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

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√				√	√	√			√		√
	B	√	√	√			√	√			√		√
	C	√	√	√		√	√	√			√		√





B.Tech (Civil)- Semester VII

Name of Course:-Structural Design III

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√		√	√	√		√		
	B	√	√	√	√		√	√	√		√		
	C	√	√	√	√		√	√	√		√		
2		√	√	√	√		√	√	√		√		
3		√	√	√	√		√	√	√		√		
4		√	√	√	√		√	√	√		√		
5	A	√	√	√	√		√	√	√		√		
	B	√	√	√	√		√	√	√		√		
	C	√	√	√	√		√	√	√		√		
6		√	√	√	√		√	√	√		√		
7		√	√	√	√		√	√	√		√		
8		√	√	√	√		√	√	√		√		

B.Tech (Civil)- Semester VII

Name of Course: - Elective I Construction Management

Question No.	POs
--------------	-----

		1	2	3	4	5	6	7	8	9	10	11	12
1	A		√			√	√	√	√	√	√	√	
	B		√			√	√	√	√	√	√	√	
	C		√			√		√	√	√	√	√	
2		√	√			√		√	√	√	√	√	
3		√									√	√	√
4		√						√	√	√	√	√	√
5	A						√	√	√	√	√	√	√
	B					√	√			√	√	√	√
	C		√			√	√	√	√	√	√	√	√
6		√	√					√	√	√	√	√	√
7		√	√			√	√	√	√	√	√	√	√
8		√	√			√	√	√	√	√	√	√	√

B.Tech (Civil)- Semester VII

Name of Course: - Elective I Solid Waste Management

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√	√	√	√	√	√	√	√	√
	B	√	√	√	√	√	√	√	√	√	√	√	√
	C	√	√	√	√	√	√	√	√	√	√	√	√
2		√	√	√	√	√	√	√	√	√	√	√	√
3		√	√	√	√	√	√	√	√	√	√	√	√
4		√	√	√	√	√	√	√	√	√	√	√	√
5	A	√	√	√	√	√	√	√	√	√	√	√	√
	B	√	√	√	√	√	√	√	√	√	√	√	√
	C	√	√	√	√	√	√	√	√	√	√	√	√
6		√	√	√	√	√	√	√	√	√	√	√	√
7		√	√	√	√	√	√	√	√	√	√	√	√
8		√	√	√	√	√	√	√	√	√	√	√	√

B Tech Civil Semester VII

Name of Course: - Environmental and Water Resources Engineering

Question No.	Pos
--------------	-----

		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√		√	√			√		√
	B	√	√		√	√	√	√	√		√		√
	C	√	√	√	√		√	√			√		√
2		√	√	√	√		√	√			√		√
3		√	√		√	√	√	√	√		√		√
4		√	√	√	√		√	√			√		√
5	A	√	√	√		√		√		√	√		√
	B	√	√	√		√		√		√	√		√
	C	√	√	√		√		√		√	√		√
6		√	√	√		√		√		√	√		√
7		√	√	√		√		√		√	√		√
8		√	√	√		√		√		√	√		√

### B Tech Civil Semester VII

Name of Course: - Infrastructure Engineering II

Question No.	Pos												
	1	2	3	4	5	6	7	8	9	10	11	12	
1	A		√			√	√	√	√	√	√		
	B		√			√	√	√	√	√	√		
	C		√			√		√	√	√	√		
2		√	√			√		√	√	√	√		
3		√						√	√	√	√		√
4		√						√	√	√	√		√
5	A					√	√	√	√	√	√		√
	B					√	√	√	√	√	√		√
	C		√			√	√	√	√	√	√		√
6		√	√			√	√	√	√	√	√		√
7		√	√			√	√	√	√	√	√		√
8		√	√			√	√	√	√	√	√		√

### B.Tech (Civil)- Semester VIII

Name of Course:- Earthquake Engineering and Disaster Management

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√		√	√	√		√		
	B	√	√	√	√		√	√	√		√		
	C	√	√	√	√		√	√	√		√		
2		√	√	√	√								
3		√	√	√	√		√	√	√		√		
4		√	√	√	√		√	√	√		√		
5	A	√	√	√	√		√	√	√		√		
	B	√	√	√	√		√	√	√		√		
	C	√	√	√	√		√	√	√		√		
6		√	√	√	√		√	√	√		√		
7		√	√	√	√		√	√	√		√		
8		√	√	√	√		√	√	√		√		

B.Tech (Civil)- Semester VII

Name of Course:- Water Resources Engineering II

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√									√		
	B	√									√		
	C	√									√		
2		√		√	√						√		√
3		√		√	√						√		√
4		√		√							√		√
5	A	√									√		
	B	√		√							√		
	C	√									√		
6		√		√	√						√		√
7		√									√		
8		√									√		

B.Tech (Civil)- Semester VII

Name of Course:-Quantity Surveying and Valuation

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A		√			√	√	√	√	√	√	√	
	B		√			√	√	√	√	√	√	√	
	C		√		√	√		√	√	√	√	√	√
2		√	√		√	√		√	√	√	√	√	√
3		√			√					√	√	√	√
4		√			√			√	√	√	√	√	√
5	A				√		√	√	√	√	√	√	√
	B				√	√	√			√	√	√	√
	C		√		√	√	√	√	√	√	√	√	√
6		√	√		√			√	√	√	√	√	√
7		√	√		√	√	√	√	√	√	√	√	√
8		√	√			√	√	√	√	√	√	√	√

B.Tech (Civil)- Semester VIII

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

Question No.		POs											
		1	2	3	4	5	6	7	8	9	10	11	12
1	A	√	√	√	√	√		√		√	√	√	√
	B	√	√	√	√	√				√	√	√	√
	C	√	√	√	√	√	√			√	√	√	√
2		√	√	√	√	√				√	√	√	√
3		√	√	√	√	√				√	√	√	√
4		√	√	√	√	√	√			√	√	√	√
5	A	√	√	√	√	√	√	√		√	√	√	√
	B	√	√	√	√	√	√	√		√	√	√	√
	C	√	√	√	√	√	√	√		√	√	√	√
6		√	√	√	√	√	√	√		√	√	√	√
7		√	√	√	√	√	√	√		√	√	√	√
8		√	√	√	√	√	√	√		√	√	√	√