



**MARATHA VIDYA PRASARAK SAMAJ'S**  
**Karmaveer Adv. Baburao Ganpatrao Thakare**  
**College of Engineering, Nashik**



Permanently Affiliated to Savitribai Phule Pune University Vide Letter No. : CA/1542 & Approved by AICTE New Delhi - Vide Letter No. : 740-89-32 (E) ET/98 AISHE Code - C-41622

**Department of Civil Engineering**  
**Innovative Teaching Method – Self Learning**

**Name of Faculty – Ms. M. B. Murkute**  
**Academic Year– 2023-24**

**Class – TE**  
**Semester I**

**Name of Course: – Elective I (Construction Management)**

**Objectives of Methodology:**

1. Students Will able to Categorize Different activities Related to given Project
2. Students Will able to do prepare Work Breakdown Structure (WBS)

**Details of Activity/Method:**

1. Topics/Project are allocated to students Group wise
2. Students have to find out different activities related to topic/Project
3. Students have to Categorize out these activities in chronological Order
4. Students have to prepare WBS Structure according to their own convenience (Auto CAD, MS Word)

Assessment Tools & Rubrics: -

<p><b>A.Y 2023-2024</b>  <b>ELECTIVE I (Construction Management)</b>  <b>Innovative Teaching Methodology:- Self Learning</b></p>
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**INNOVATIVE TEACHING METHODOLOGY**

Group No	Roll No.	Name of students	Name of WBS Structure	Involvement understanding, Performance			Presentation, organization			Timely submission (2)			Final Marks
				Active participation and/or excellent understanding and/or excellence performance	Good involvement and/or good understanding and/or good performance	Less involvement, and/or average understanding and/or poor performance	Correct and systematic	Partially correct and systematic	Partially correct and poorly organized	On or before due date	Delay 3-4 days	Late submission	
				4	(2-4)	(0-1)	4	(2-4)	(0-1)	2	1	0	
1	44	Murkute Tejaswini Sanjay	Housing Project	4			4			2			10
	45	Nagapure Pooja Dnyaneshwar		4			4			2			10
	56	Pinjari Arbaj Firoj		4			4			2			10
	67	Thakur Nikhil Pramod		4			4			2			10
2	53	Patil Mandar Anil	Residential Buildin		3			3			1		7
	55	Pawar Anandarj Gajendra		4				3		2			9

	61	Sonar Prathmesh Girish	g	4				3		2			9
	64	Sonawane Sakshi Shashikant											
3	39	Korde Om Deepak	Comme rcial Buildin g										0
	40	Kothule Sahil Prabhakar		3			3			1			7
	47	Pagar Pratik Sandip		3			3			1			7
	31	Kale Abhishek Dhananjay											
4	15	Chavan Harshali Sanjay	RMC Plant	4				3		2			9
	18	Dagale Jaya Santosh			3			3		2			8
	42	Kumavat Dhanashree Dnyaneshwar		4				3		2			9
	54	Patil Siddhi Manohar		4				3			1		8
5	59	Shaikh Umme Ammarah Imran	Residen tial Buildin g	4			4			2			10
	60	Shirsath Samruddhi Avinash		4			4			2			10
	70	Ugale Aditya Dhananjay			3			3				0	6
	73	Wagh Siddhi Babasaheb		4			4			2			10
6	51	Pathak Manasi Mukesh	City Hospita l	4				3		2			9
	52	Patil Bhagyashri Ravsahab		4				3		2			9
	62	Sonar Soham Sunil		4				3				0	7
	71	Vispute Lokesh Kamalakar		4				3		1			8

7	7	Bedis Tejas Anil	Cement Plant	4			3		2			9	
	13	Burkul Saurabh Sanjay		4		4			2			10	
	14	Chaudhari Aniket Savaliram		4			3		2			9	
	25	Jadhav Manoj Deelip		4			3		2			9	
8	19	Datir Aditya Rajendra	Road Project		3		3		2			8	
	21	Deshmukh Rohit Vijay			3				2		1		6
	24	Handge Shlok Vilas			3				2		1		6
	35	Khade Tejas Sopan			3		3				1		7
9	33	Katad Deepak Dattatray	Bridge		3		3				1		7
	49	Pande Narendra Sunil			3		3				1		7
	69	Thete Rushikesh Santosh			3		3				1		7
	72	Wagh Atul Vishnu		4		4					1		9
10	2	Ahire Harshal Dayanand	Waste Water Treatment Plant		3				2	2			7
	5	Bachhav Siddharaj Mahendra			3		3				1		7
	8	Bezekar Pratik Somnath			3		3				1		7
	10	Bharitkar Yash Somnath		4		4				2			10
11	9	Bhamare Rutuja Pradip	Housing Project	4			3		2			9	
	12	Bodke Vivek Vijay			3		3				1		7

	26	Jadhav Sayali Vinod		4				3		2			9
	36	Khode Kirti Kishor		4				3		2			9
12	20	Deore Yamini Anil	Residential Building										0
	37	Kolpe Akshada Sahebrao		3			3				0		6
	41	Kotwal Bhawana Sunil		3			3			1			7
	74	Zirwal Bhagyashree Chhagan											0
13	50	Pathade Janhavi Vijay	Regional Medical Center		3			3		2			8
14	34	Bhushan Ganpat Katore	Higher Secondary school	4			4			2			10
	30	Rameshwar Sunil Kakad		4			4			2			10
	22	Ketan Dilip Gaikwad			3			3		2			8
	39	Om Deepak Korde			3			3			1		7
15	46	Archies Pagar	Road Project		3			3			1		7

**Course Outcomes (Related to Methodology)**

	After the completion of course students will be able to:	BTL
CO2	Illustrate construction scheduling, work study and work measurement.	3

**POs (Related to Methodology)**

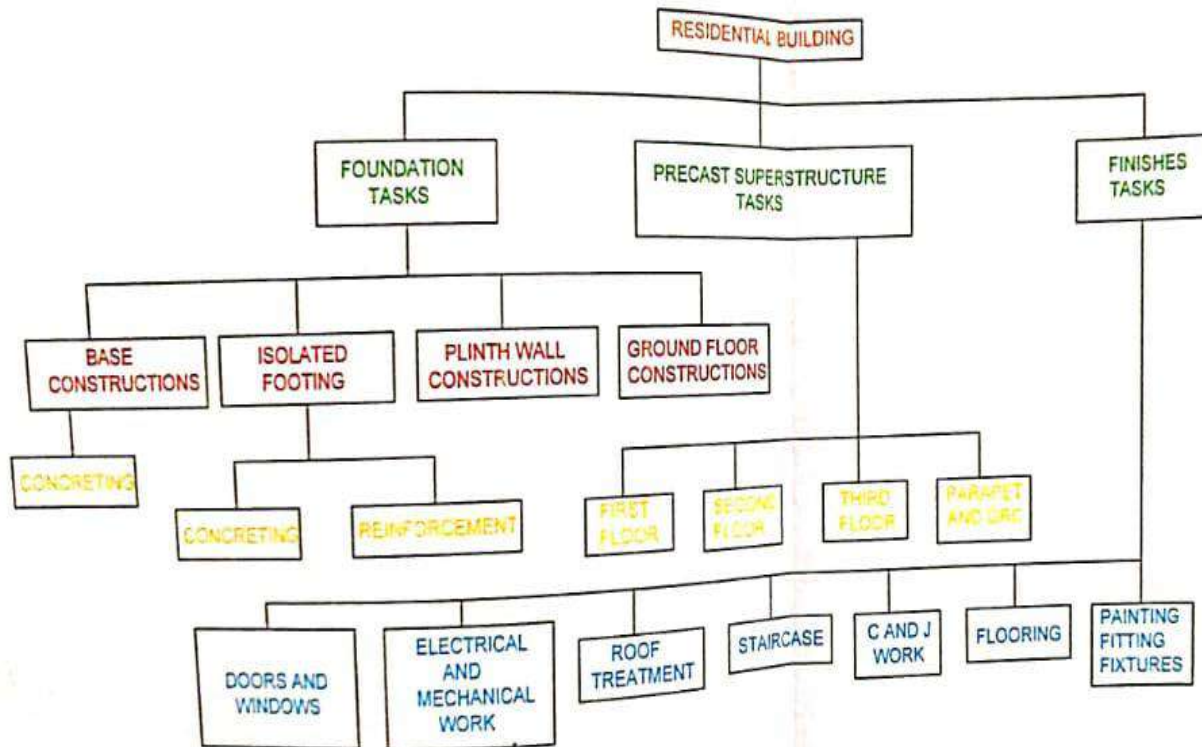
<b>PO1</b>	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
<b>PO2</b>	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3</b>	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>PO4</b>	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>PO6</b>	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>PO8</b>	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>PO9</b>	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>PO10</b>	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>PO11</b>	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>PO12</b>	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**PSOs (Related to Methodology)**

<b>PSO1</b>	Graduates will apply technical knowledge, engineering skills, and competencies necessary for entering civil engineering career
<b>PSO2</b>	Graduates will be able to demonstrate knowledge and techniques in engineering fields for effective management and professional development.
<b>PSO3</b>	Graduates will be able to apply technical and professional skills to be nationally competitive for employment/self-employment thereby benefit the society

Evidences: Activity Photographs Sample PPT's





SUB PROJECT LEVEL
TASK LEVEL
WORK PACKAGE LEVEL
ACTIVITY LEVEL
OPERATION LEVEL

**MVPS'S KBT COE NASHIK**  
 NAME : SHAIKH UMME AMMARAH IMRAN  
 ROLL NO : 59  
 PROGRAMME : CIVIL ENGG.  
 COURSE : CONSTRUCTION MANAGEMENT  
 SIGN : \_\_\_\_\_

*Handwritten signature and date:*  
 28/11/23



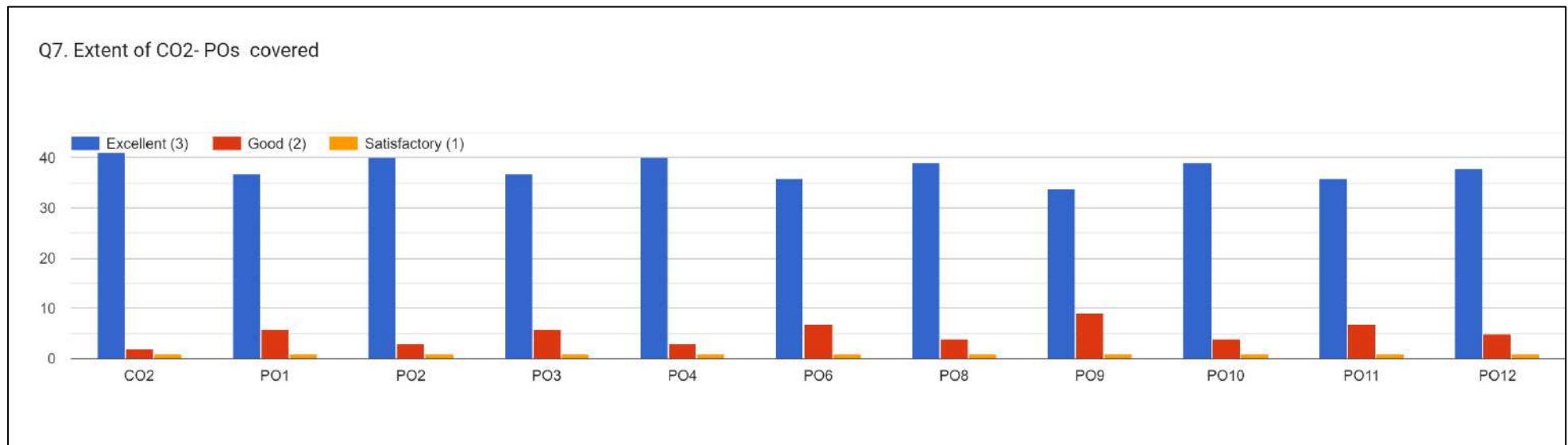
**Feedback/Impact Analysis (Based on Students Feedback):**

**Course Outcome**

	Course Outcome	CO2
A	No. of Groups/Students Achieving CO	44
B	Total Rating	128
C	Average Rating (B/A)	2.91

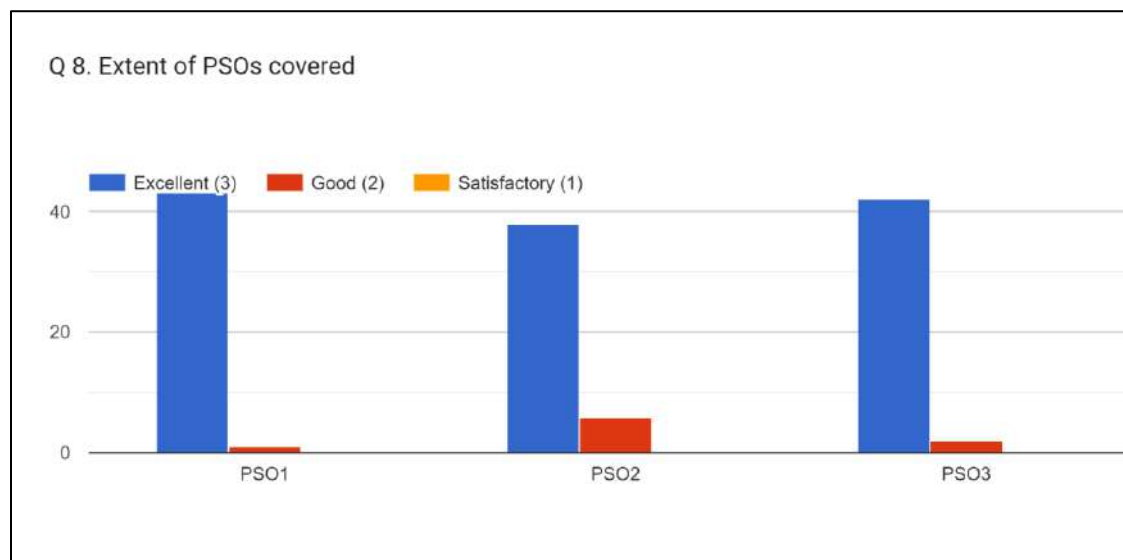
**Program Outcome**

	Program Outcome	PO1	PO2	PO3	PO4	PO6	PO8	PO9	PO10	PO11	PO12
A	No. of Groups/Students Achieving PO	44	44	44	44	44	44	44	44	44	44
B	Total Rating	124	127	124	127	123	126	121	126	123	125
C	Average Rating (B/A)	2.82	2.89	2.82	2.89	2.80	2.86	2.75	2.86	2.80	2.84



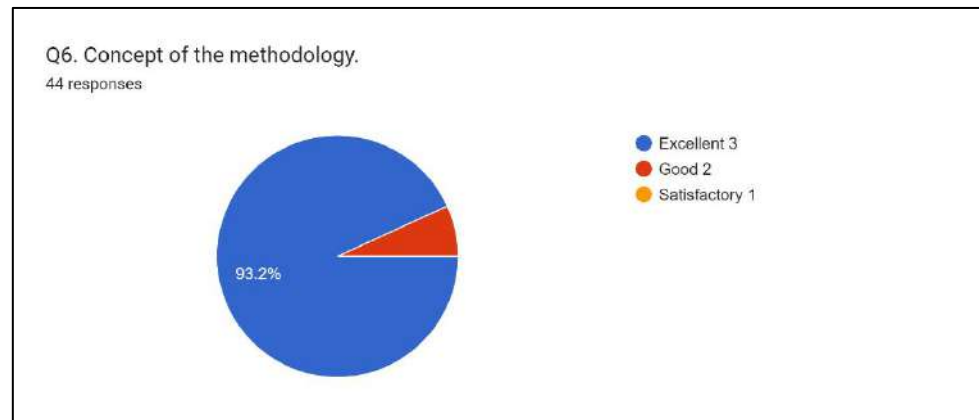
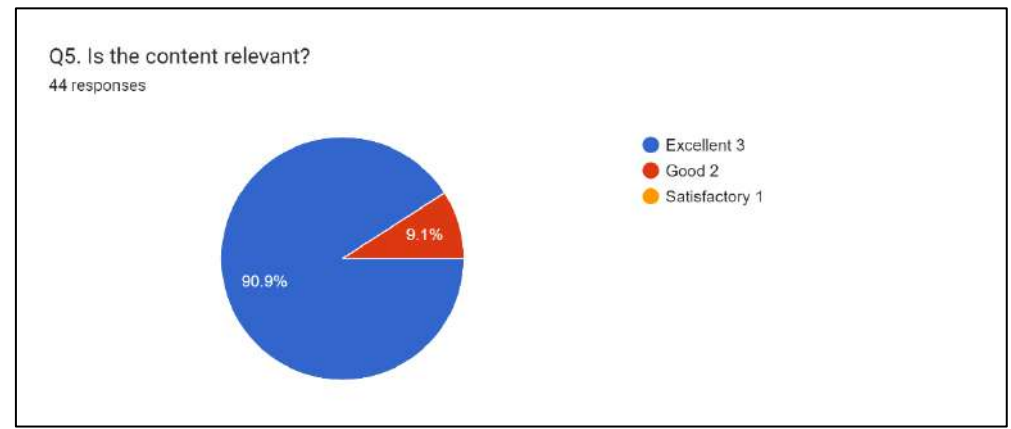
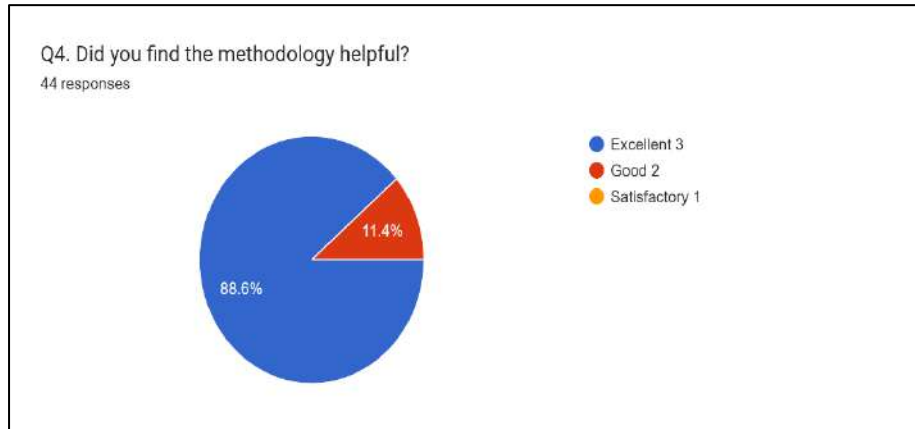
### Program Specific Outcome

	Program Specific Outcome	PSO1	PSO2	PSO3
A	No. of Groups/Students Achieving PSO	44	44	44
B	Total Rating	131	126	130
C	Average Rating (B/A)	2.98	2.86	2.95



### Impact Analysis of Methodology (Based on Students Feedback):

		1. Did you find the methodology helpful	2. Is the content relevant	3. Concept of the methodology
A	No. of Groups/Students Achieving CO	44	44	44
B	Total Rating	127	128	129
C	Average Rating (B/A)	2.89	2.91	2.93



**Link for Review and Critics:**

<https://forms.gle/ZJTDyVqr9AqsFnmW9>

**Ms. M. B. Murkute**  
Course In charge

**Dr. P. D. Nemade**  
HOD, Civil