



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– 2022-23**

**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>A.Y 2022-2023 ELECTIVE I (Construction Management) Innovative Teaching Methodology:- Self Learning</p>
--

INNOVATIVE TEACHING METHODOLOGY

Group No	Roll No.	Name of students	Name of WBS Structure	Involvement understanding, Performance (4)			Presentation, organization (4)			Timely submission (2)			10	
				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	10	
1	28	Borave Vinay sunil	Hospital		3			3				1		7
	24	Bangar Manoj Navnath			3			3				0		6
	25	Bhadane Suraj Nivruthi			2			2				1		5
	27	Bhamare Yogita Dilip			3			3			2			8
2	26	Avinash Santosh Bhadange	Residential building		3			3				1		7
	31	Vaibhav Keshav Deshmukh			3			3				1		7
	35	Yogini Dhanraj Jadhav			4			4			2			10
	37	Tanishka Devendra Jagtap			3			3				1		7

Group No	Roll No.	Name of students	Name of WBS Structure	Involvement understanding, Performance (4)			Presentation, organization (4)			Timely submission (2)			Final Marks
				4	(2-4)	(0-1)	4	(2-4)	(0-1)	2	1	0	
3	46	Aman Ganesh Mehetre	Secondary School building	4				3			1		8
	45	Kajal Karamchand Maurya		4			4			2			10
	55	Harshali Jitendra Patil		4				3		2			9
	54	Mayuresh Somnath Patil		4				3		2			9
4	47	Sahil Mhaisdune	Smart City Road		2			3		2			7
	49	Lalit Latish Mundware			3			3			1		7
	52	Yuvraj Hiren pagar			3			3		2			8
	44	Kothiya Jaykumar Jagdish			3			3		0			6
5	58	Nikita Anil Pawar	Housing project	3			3			2			8
	59	Om Anil Rajole		4			4			2			10
	60	Pranjal Shashikant Randhir		4			4			2			10
	63	Sakshi Gorakshnath Sangle		4			4			2			10
6	61	Salunke Janavhi Prakash	Highway Project	4			4			2			10
	62	Sangale Hemant Dattatray			2				2			0	4
	64	Shinde Rohit Somnath		4			4			2			10
	65	Singh Arjun Mahypal			3			3				0	6
7	66	Sonawane Abhishek Shriram	Commercial Building		3		4			2			9
	67	Sonawane Bhuvanesh Dhanraj			3			3		2			8
	68	Suryawanshi Aniket Rajesh		4			4			2			10
	69	Tajanpure Vaishnavi Bharat		4				3		2			9

Group No	Roll No	Name of students	Name of WBS Structure	Involvement understanding, Performance (4)			Presentation, organization (4)			Timely submission (2)			Final Marks
				4	(2-4)	(0-1)	4	(2-4)	(0-1)	2	1	0	
8	70	Tambe Rahul Kailas	Residential Building (G+5)		2					2		0	4
	72	Ugale Vikas Rajendra		4			4			2			10
9	50	Srushti Girish Musale	Housing project	4			4			2			10
	57	Yashwardhan Patil		4			4			2			10
	56	Patil Pratik Yogesh			2			3				0	5
	48	Mhaske Gaurav Prakash			3			3				0	6
10	42	Vedant Mangesh Khadangle	G+5 RESIDENTIAL BUILDING	4			4			2			10
	41	Pranav Karve		4				3		2			9
	51	Gayatri Nagapure		4			4			2			10
	53	Kalyani Pagar		4			4			1			9
11	23	Bagul Somnath Popat	Bridge		3			2			1		6
	43	Khambait Ajay Chandrakant			3			2			1		6
	74	Velis Siddhant Dnyaneshwar			3			3			1		7
	75	Wagh Rushikesh Madan			3			3			1		7
12	29	Deore Ritesh Rakesh	Secondary school Building		3			3		2			8
	30	Deore Arjun Prashant			3			3				0	6
	32	Yash Deshmukh			3			3				0	6
	36	Jadhav Tejas Uttam			3			3				0	6

Group No	Roll No	Name of students	Name of WBS Structure	Involvement understanding, Performance (4)			Presentation, organization (4)			Timely submission (2)			Final Marks
				4	(2-4)	(0-1)	4	4	(2-4)	(0-1)	4	4	(2-4)
13	20	Aher Swatej Raghunath	Airport		2			3				0	5
	21	Aher Vaibhav Karbhari			2			3				0	5
	22	Bachhav Darshan Sunil			2			3		1			6
14	38	Kakad Atharv Manik	Canal		3			3			1		7
	39	Kale Siddesh Sanjay			3			3			1		7
	40	Kaloge Ashutosh Anil			3			3			1		7
	34	Ghuge Pranav Dnyaneshwar			3			2				0	5

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

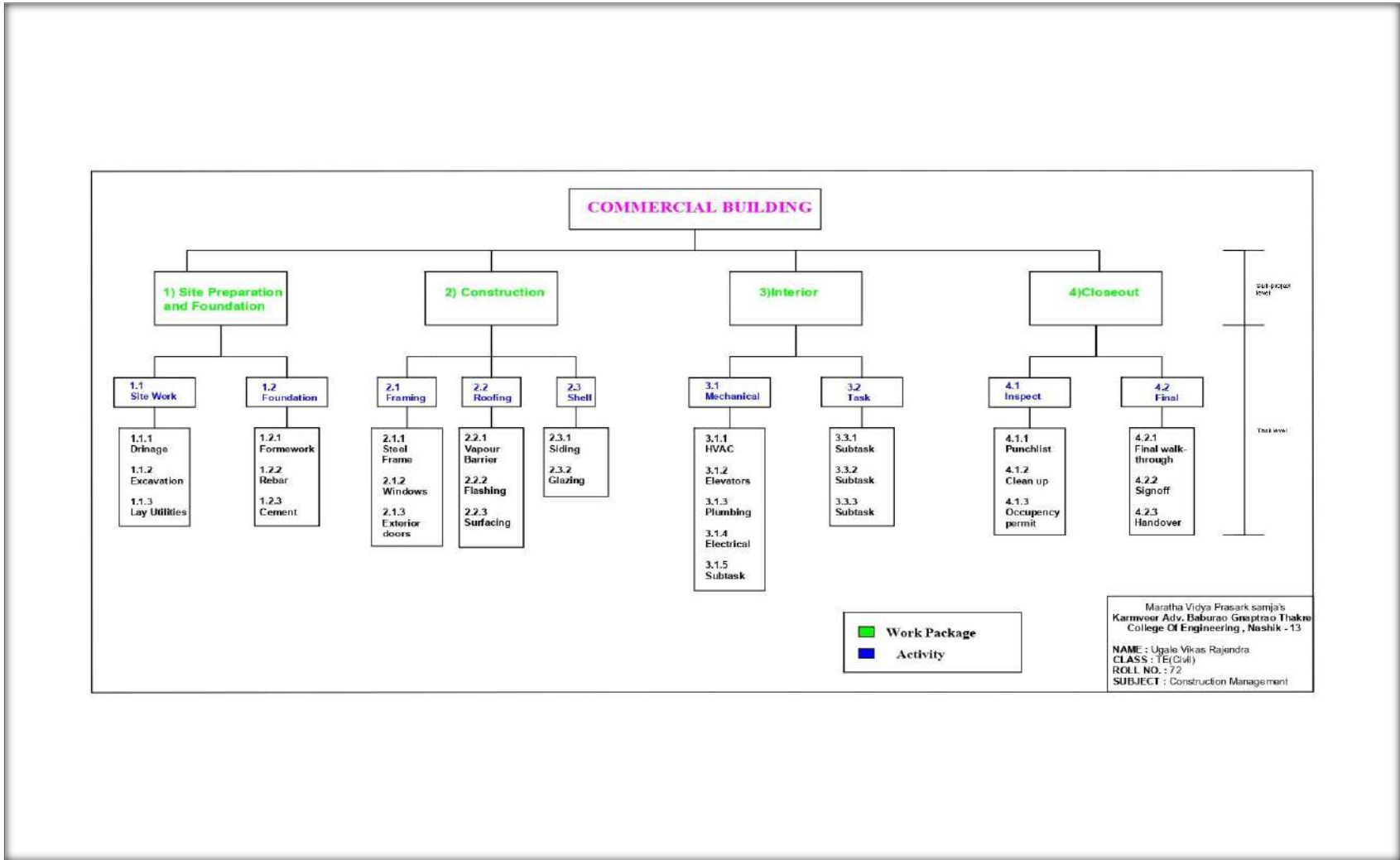
POs (Related to Methodology)

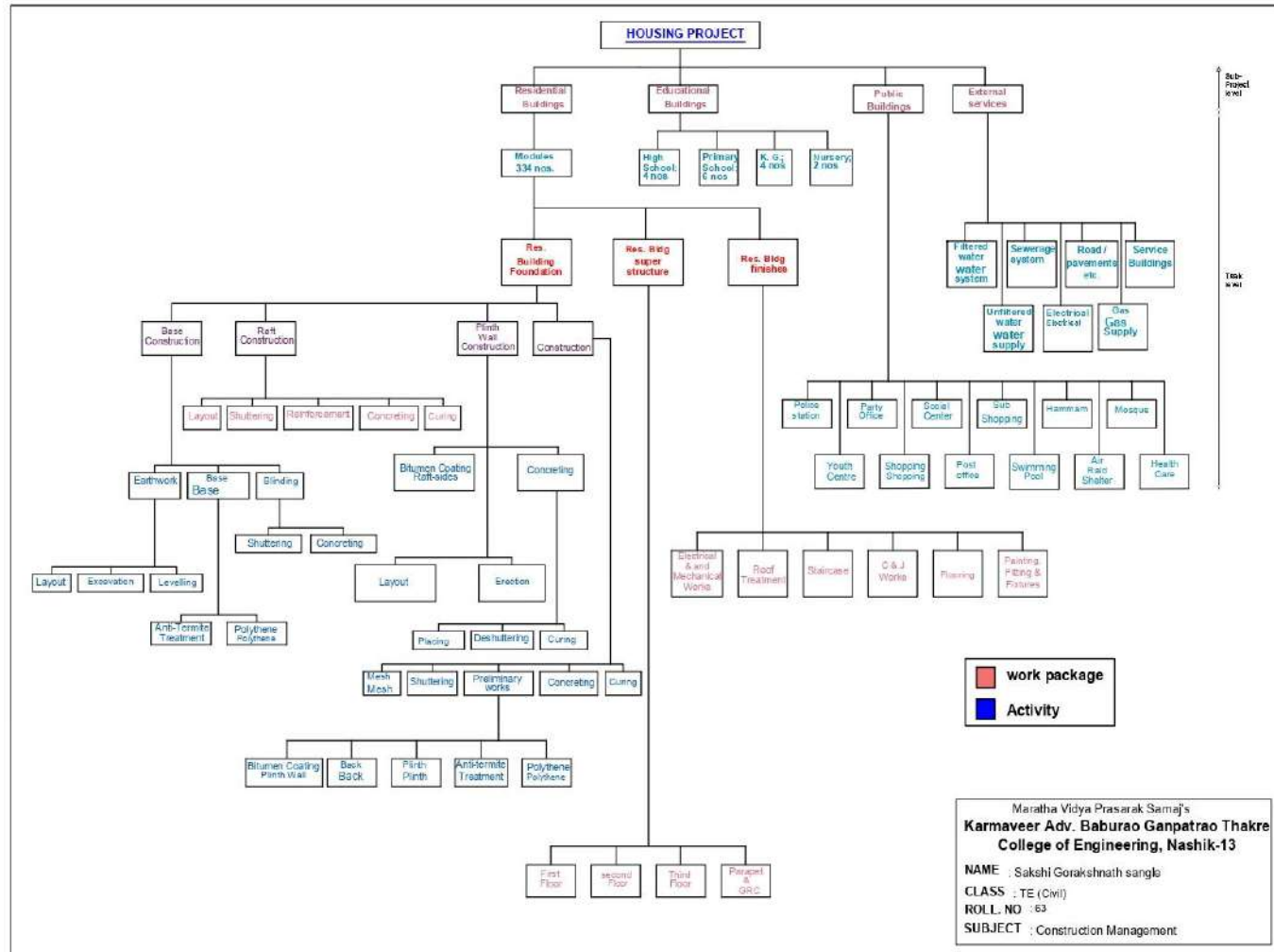
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: 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.
PO4	Conduct investigations of complex problems: 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.
PO6	The engineer and society: 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.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: 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.
PO11	Project management and finance: 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.
PO12	Life-long learning: 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.

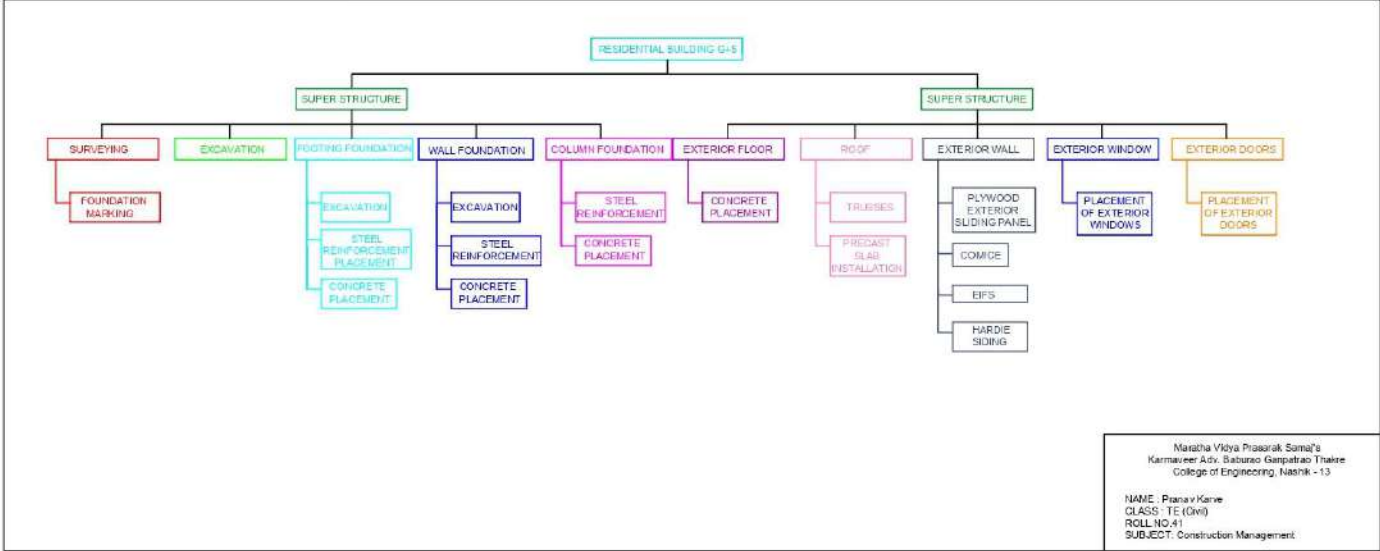
PSOs (Related to Methodology)

PSO1	Graduates will apply technical knowledge, engineering skills, and competencies necessary for entering civil engineering career
PSO2	Graduates will be able to demonstrate knowledge and techniques in engineering fields for effective management and professional development.
PSO3	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/Videos/Sample PPT's







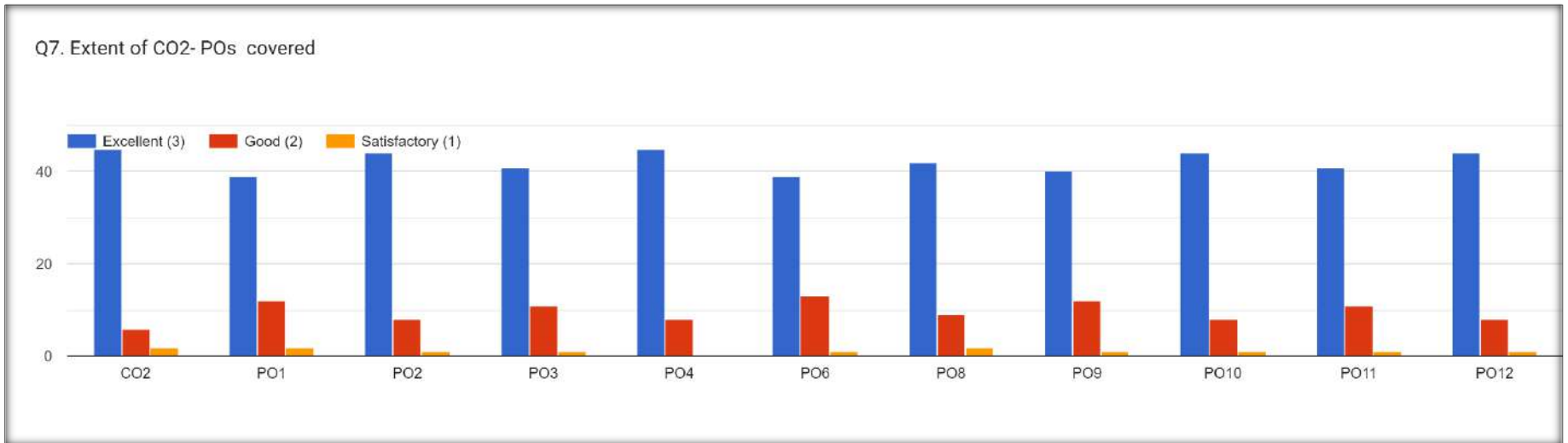
Feedback/Impact Analysis (Based on Students Feedback):

Course Outcome

	Course Outcome	CO2
A	No. of Groups/Students Achieving CO	53
B	Total Rating	149
C	Average Rating (B/A)	2.81

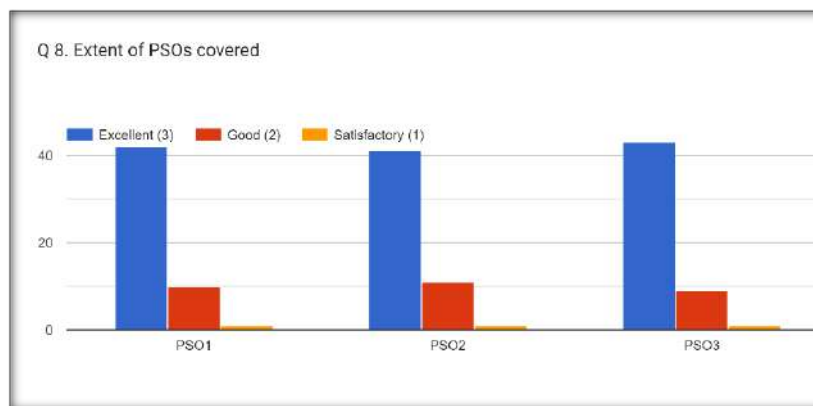
Program Outcome

	Program Outcome	PO1	PO2	PO3	PO4	PO6	PO8	PO9	PO10	PO11	PO12
A	No. of Groups/Students Achieving PO	53	53	53	53	53	53	53	53	53	53
B	Total Rating	143	149	146	151	144	146	145	149	146	149
C	Average Rating (B/A)	2.70	2.81	2.75	2.85	2.72	2.75	2.74	2.81	2.75	2.81



Program Specific Outcome

	Program Specific Outcome	PSO1	PSO2	PSO3
A	No. of Groups/Students Achieving PSO	53	53	53
B	Total Rating	147	146	148
C	Average Rating (B/A)	2.77	2.75	2.79

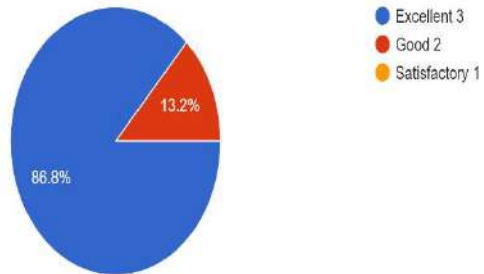


Impact Analysis of Methodology (Based on Students Feedback):

		1. Did you find the methodology helpful	2. Is the content relevant	3. Concept of the methodology
A	No. of Groups/Students Achieving CO	53	53	53
B	Total Rating	152	148	149
C	Average Rating (B/A)	2.87	2.79	2.81

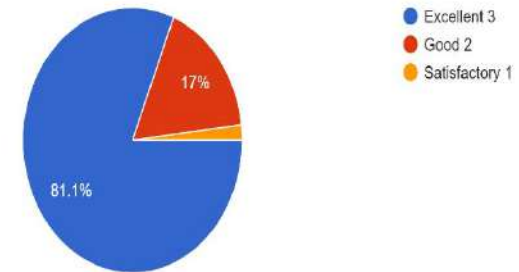
Q4. Did you find the methodology helpful?

53 responses



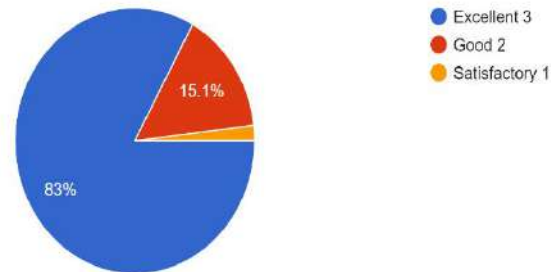
Q5. Is the content relevant?

53 responses



Q6. Concept of the methodology.

53 responses



Link for Review and Critics:

<https://forms.gle/ZJTDyVqr9AqsFnmW9>

Ms. M. B. Murkute
Course In charge

Dr. P. D. Nemade
HOD, Civil