MARATHA VIDYA PRASARAK SAMAJ'S

Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik

Department of Civil Engineering

Innovative Teaching Method – Self Learning

Name of Faculty – Ms. M. B. Murkute **Class – TE**

Academic Year– 2024-2025 **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: -

A.Y 2024-2025
ELECTIVE I (Construction Management)
Innovative Teaching Methodology:- Self Learning

			Marks	Involvement understanding, Performance			Presentation, organization			Timely submission (2)			10
Gr. No.	Roll No.	Name of student	Name of WBS Structure	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	Final Marks
				4	(2-4)	(0-1)	4	(2-4)	(0-1)	2	1	0	
1	28	KADAM MANSI SANTOSH	IT Park	4			4			2			10
	16	JADHAV VARSHA BALASAHEB		4			4			2			10
	25	KOLHE KAVERI EKNATH		4			4			2			10
	9	DEOKAR ANUSHKA AMIT		4			4			2			10
2	26	AVHAD ARYAN VIKRANT	Residential building	4				3		2			9
	31	BHOJ ANIKET DILIP		4			4			2			10
	35	DATIR ROHIT SHASHIKANT		4			4			2			10
	37	SHINDE ABHIMANYU PRABHAKAR		4			4			2			10
3	4	BHIKULE VILASINI VINAYAK	Dam Construction		2			2				0	4
	10	DESHMUKH RUTUJA BHARAT		4			4			2			10
	11	DESHMUKH SAKSHI DATTATRAY		4			4			2			10
	23	NANDAN SWAMINI DINESH		4			4			2			10

4	7	CHAVAN SONAL PURUSHOTTAM	Educational Building	4			4			2			10
	26	SANAP SNEHAL MANIK		4			4			2			10
	32	SHINDE POOJA UMESH		4			4			2			10
	36	TADVI TANISHKA KIRAN		4			4			2			10
5	1	AHIRE SANSKRUTI SANJAY	Housing project	4				3			1		8
	21	KHAIRNAR HARSHAL SANJAY			3			3		2			8
	28	SAWANT ANIKET PRAVIN		4				3		2			9
	39	WAGH KAJAL JAYWANT		4				3			1		8
6	13	GHEGADE DARSHAN DEEPAK	Road Project	4				3			1		8
	24	PAGAR TEJAS PRABHAKAR			3			2			1		6
	33	SHINDE TANMAY PRADIP			3			2				0	5
	35	SURYAVANSHI YASH ANIL		4			4			2			10
7	6	BORSE SARTHAK VISHWAS	Dam Construction	4				3			1		8
	14	HAGAWANE JAGANNATH BALASAHEB		4			4			2			10
	15	INGALE MANISH PANDIT		4			4			2			10
8	20	KEDAR SHWETA DILIP	Residential Building (G+5)		3			3		2			8
	25	PAWAR SRUSHTI PANKAJKUMAR			3			3		2			8
	30	SHETE ABHAY PRADEEP			3			3			1		7
	37	TAJANPURE PRANAV RAMESH			3			2			1		6
9	3	BAGUL VARAD KIRAN	Commercial complex										0
	17	KADAM AVINASH ANIL			2				1			0	3
	34	SURAOKAR RUGVED SANDIP		1				1					0
	41	KADAM SIDHHESH BALWANT											0
10	27	SANGALE VRUSHALI MANIK	Highway Project		2			3			1		6
	40	KORALE SHRUSHTI HEMANT											0

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

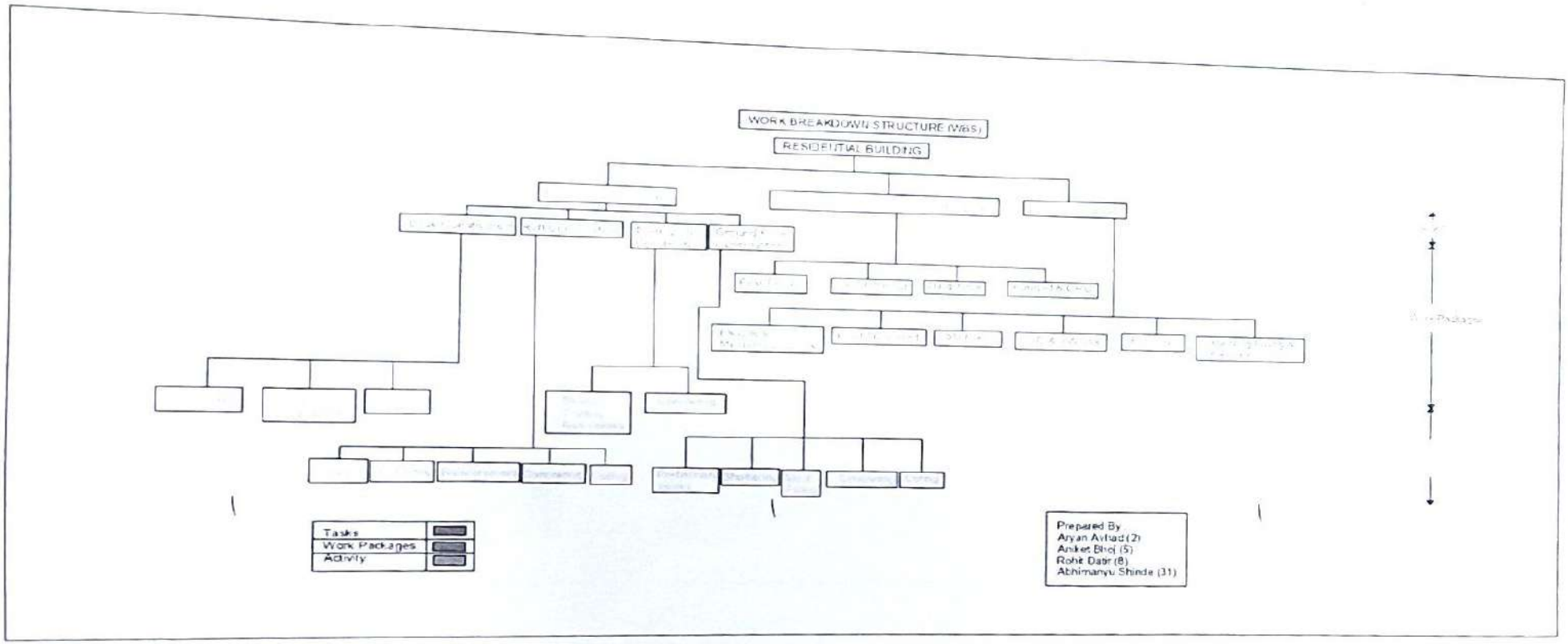
POs (Related to Methodology)

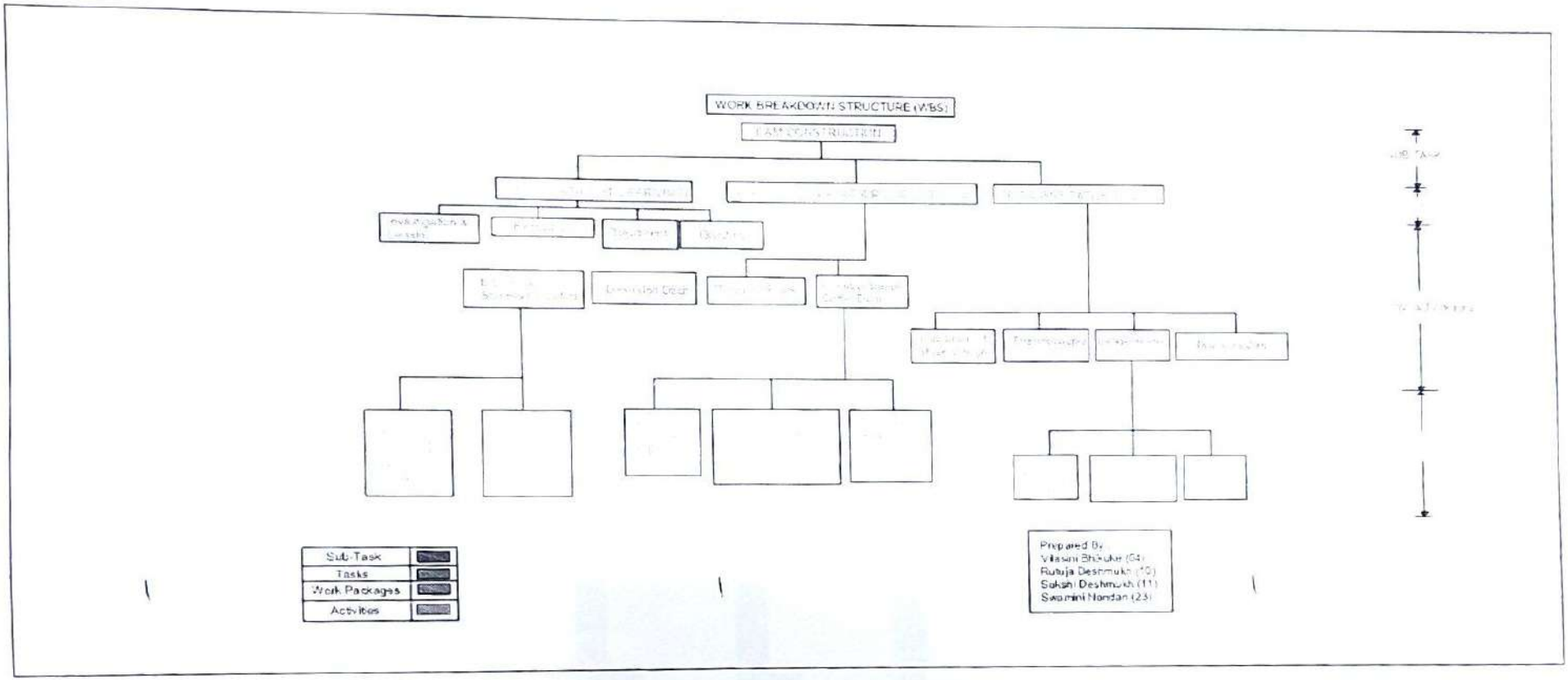
PO1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems 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 Sample/ PPTs


WORK BREAKDOWN STRUCTURE (WBS)
RESIDENTIAL BUILDING
Tasks
Work Packages
Activity
Prepared By
Aryan Avhad (2)
Aniket Bhoj (5)
Rohit Dabir (8)
Abhimanyu Shinde (31)


WORK BREAKDOWN STRUCTURE (WBS)
Sub-Task
Tasks
Work Packages
Activities
Prepared By:
Vilasini Bhosale (04)
Ruturja Deshmukh (10)
Sakshi Deshmukh (11)
Swamini Nandan (23)

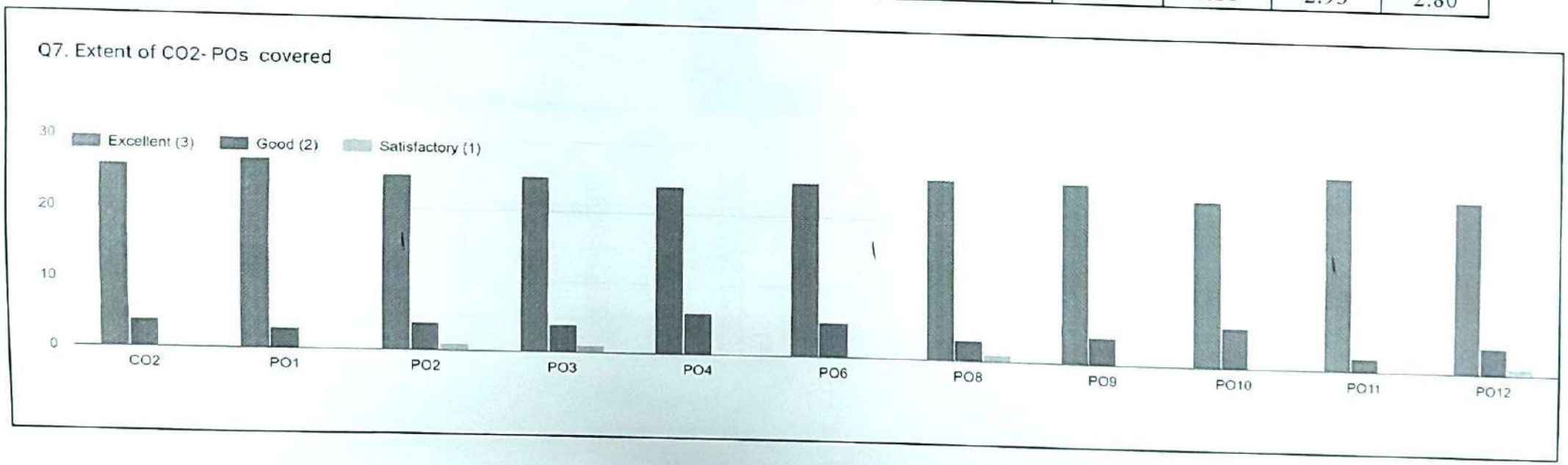
Feedback/Impact Analysis (Based on Students Feedback):

Course Outcome

	Course Outcome	CO2
A	No. of Groups/Students Achieving CO	30
B	Total Rating	86
C	Average Rating (B/A)	2.87

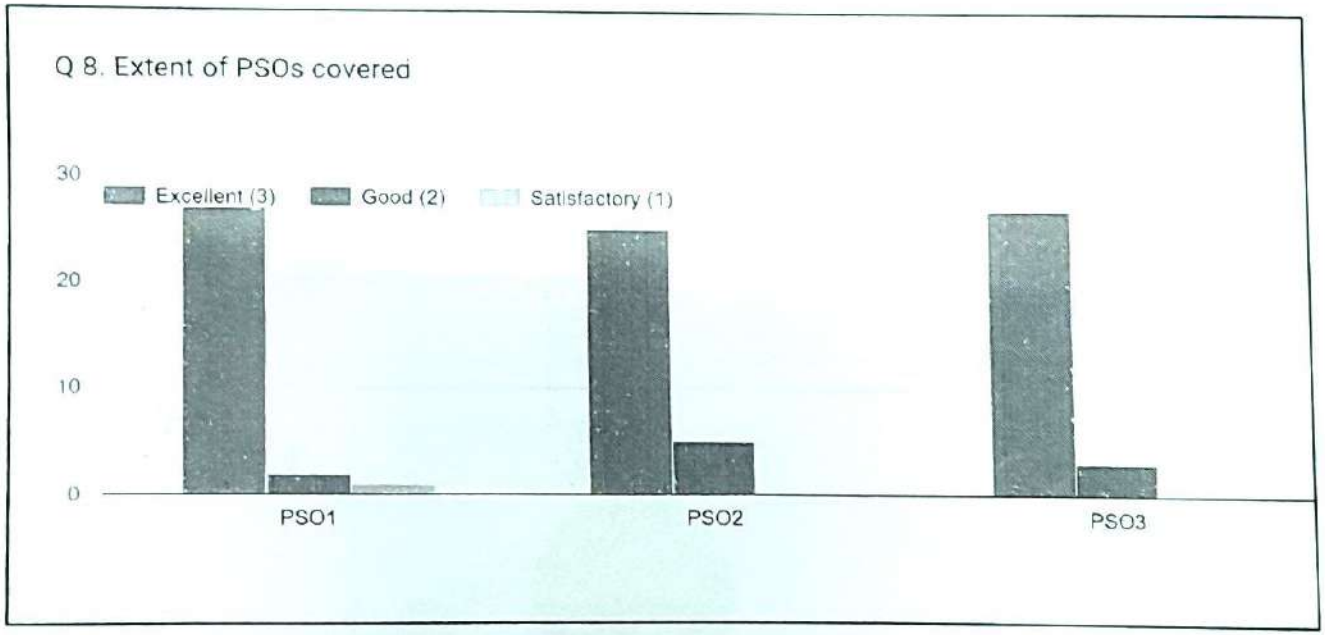
Program Outcome

	Program Outcome	PO1	PO2	PO3	PO4	PO6	PO8	PO9	PO10	PO11	PO12
A	No. of Groups/ Students Achieving PO	30	30	30	30	30	30	30	30	30	30
B	Total Rating	87	84	84	84	85	85	86	84	88	84
C	Average Rating (B/A)	2.90	2.80	2.80	2.80	2.83	2.83	2.87	2.80	2.93	2.80



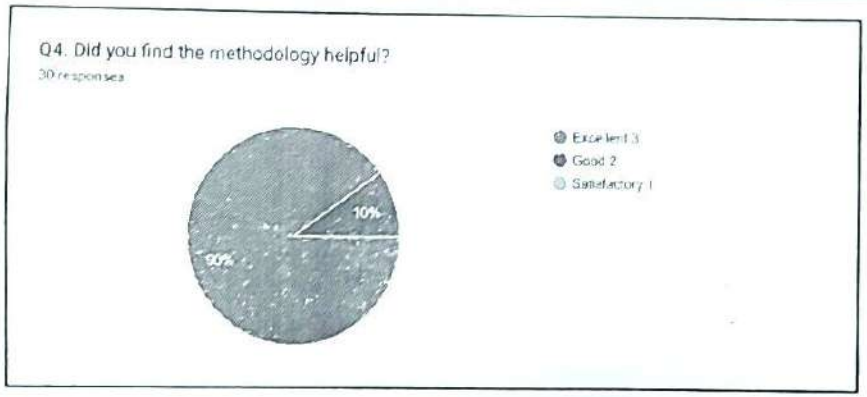
Program Specific Outcome

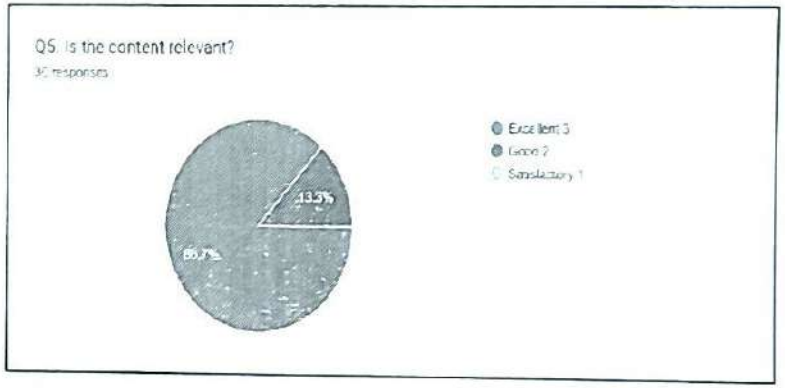
	Program Specific Outcome	PSO1	PSO2	PSO3
A	No. of Groups/Students Achieving PSO	30	30	30
B	Total Rating	86	85	87
C	Average Rating (B/A)	2.87	2.83	2.90

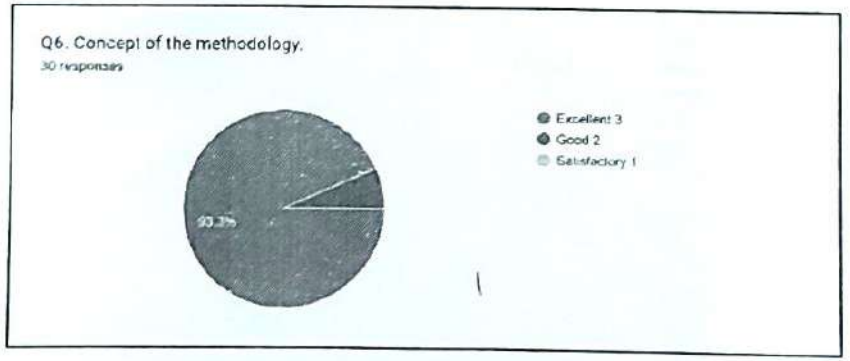


Impact Analysis of Methodology (Based on Students Feedback):

		1. Did you find the methodology helpful	2.Is the content relevant	3. Concept of the methodology
A	No. of Groups/Students Achieving CO	30	30	30
B	Total Rating	87	86	88
C	Average Rating (B/A)	2.90	2.87	2.93







Link for **Review and Critics:**
https://forms.gle/ZJTDyVqr9AqsFnmW9

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Course In charge

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