



MARATHA VIDYA PRASARAK SAMAJ'S
KARMAVEER ADV. BABURAO GANPATRAO THAKARE
COLLEGE OF ENGINEERING



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

www.kbtcoe.org

Department of Civil Engineering

Innovative Teaching Method – Self Learning

Name of Faculty – Ms. M. B. Murkute

Class – TE

Academic Year– 2021-22

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 2021-2022
ELECTIVE I(Construction Management)
Innovative Teaching Methodology :- Self Learning

			Marks	4	4	4	4	4	20
Sr. No.	Roll No.	Name of student	Name of WBS Structure	Use of time	Knowledge of subject	Required elements	Visual Clarity and Appeal	Thinking Ability	Final Marks
1	37	JUNAGADE YASH HEMANT	TUNNEL	3	3	3	3	3	15
	30	HIRAY TUSHAR ANIL		3	3	3	3	3	15
	73	SHERMALEKAUTIK ROSHAN		3	3	3	3	3	15
	15	BHAMARE DHIRAJ BHARAT		3	3	3	3	3	15
2	63	RATHOD MANSI BIRBAL	HOUSING PROJECT	4	3	3	3	4	17
	7	AVHAD MADHURI BAJIRAO		4	3	3	3	4	17
	88	WATANE ANJALI YUVRAJ		4	3	3	3	4	17
	34	JADHAV PRASHANT DINKAR		4	3	3	3	4	17
3	21	DASHPUTE HRITIK HEMANT	COMMERCIAL BUILDING	4	2	3	2	3	14
	27	GAVIT TANMAY ARJUN		4	2	3	2	3	14
	23	DHIKALE KAUSHIK TUKARAM		4	2	3	2	3	14
	1	ADROJA JAY ASHOKBHAI		4	2	3	2	3	14
4	55	PATIL MANISH DINESH	ROAD PROJECT	4	3	3	3	3	16
	46	MALI RAHUL RAMBHAU		4	2	2	2	2	12
	48	MOGAL VEDANT BALASAHEB		4	2	2	2	2	12
	51	NAGPURE KSHITIJ NITIN		4	2	2	2	2	12

5	26	GAIKWAD RUSHIKESH BAPU	AIRCRAFT SYSTEM	3	3	3	3	3	15
	10	BARKALE ROHITNANDU		3	3	3	3	3	15
	6	AVADHUT AMOL ARUN		3	3	3	3	3	15
	17	BODKE JEEVAN DIGAMBAR		3	3	3	3	3	15
6	25	GAHIWAD DHAVAL DEEPAK	RESIDENTIAL BUILDING G+6	3	3	3	3	3	15
	28	GAWALI TEJASWINI RAMESH		3	3	3	3	3	15
	38	KAPURE BHAVESH MANOJ		3	3	3	3	3	15
	41	KOCHURE SHRIKANT VIKAS		3	3	3	3	3	15
7	76	SONAR KHUSHALI KISHOR	BRIDGE	4	4	4	3	3	18
	77	SONAWANE SAKSHI VIJAY		4	4	4	3	3	18
	79	SONAWANE YUGANDHARA RAHUL		4	4	4	3	3	18
	86	WAGH PRANIT DINESH		4	4	4	3	3	18
8	31	SHWETA VASANT INGALE	DAMS AND CANALS	4	3	3	3	3	16
	40	SAI CHANDRAKANT KHODE		4	3	3	3	3	16
	47	PRIYANKA MANGESH MALVE		4	3	3	3	3	16
	50	ROHINI VIKAS MORE		4	3	3	3	3	16
9	65	SALVE SAKSHI MILIND	DAMS	4	3	3	3	3	16
	20	CHAVAN RUCHI RAHUL		4	3	3	3	3	16
	61	PITLEWAR PARITOSHIKA ANIL		4	3	3	3	3	16
	36	JAWALE SAURAV PRAMOD		4	3	3	3	3	16
10	85	VISPUTE TANAY DIPAK	HOSPITAL	4	3	3	3	3	16
	62	RANDHIR NISHANT ANIL		4	3	3	3	3	16
	64	SALUNKE YOGESH MANOJ		4	3	3	3	3	16
	42	KUDKE PRATIK SANTOSH		4	3	3	3	3	16

11	71	SHELAR CHETAN SANJAY	HYDROPOWER PLANT	3	3	3	3	3	15
	70	SHAH NIKHIL SHIRISH		3	3	3	3	3	15
	78	SONAWANE SHUBHAM BHIKAJI		3	3	3	3	3	15
	83	UGALE SANKET RAMKRUSHNA		3	3	3	3	3	15
12	66	SANAP SHUBHAM RAMESH	SEWAGE TREATMENT PLANT	4	3	3	4	3	17
	43	KUWAR PRAVIN RAVJI		4	3	3	4	3	17
	35	JAVALEKAR DHANANJAY HEMANT		4	3	3	4	3	17
	82	THANKAR ABHISHEKH GANESH		4	3	3	4	3	17
13	57	PATIL RITU PRAKASH	RMC PLANT	4	3	3	3	2	15
	74	SHIRSATH ONKAR RAMDAS		4	3	3	3	2	15
	68	SANGALE VAISHNAVI RAMDAS		4	3	3	3	2	15
	56	PATIL PRITHVIRAJ RAJENDRA		4	3	3	3	2	15
14	8	BADHAN ROHIT SANJAY	WATER TREATMENT PLANT	4	2	2	3	2	13
	72	SHELAR VISHAL SANJAY		4	2	2	3	2	13
	59	PAWAR BHAVANA DILIP		4	2	2	3	2	13
	87	WAKLEKAR TEJASWINI SANJAY		4	2	2	3	2	13
15	4	AMBEKAR MANDAR PANDURANG	SCHOOL (HIGHER SECONDARY SCHOOL)	4	2	2	2	2	12
	24	DOND KARTIK SUNIL		4	2	2	2	2	12
	58	PATIL VISHAL VIJAY		4	2	2	2	2	12
	75	SIRAME AJAY MAROTI		4	2	2	2	2	12
16	5	AMRUTSAGAR TEJAS BHASKAR	TOWNSHIP	3	3	3	3	3	15
	11	BEHERE MAYUR NITIN		3	3	3	3	3	15
	12	BHADANE MAYUR KEDA		3	3	3	3	3	15
	22	DEORE SAGAR SUNIL		3	3	3	3	3	15

17	2	AHIRE KRUTIKA DILIP	RAILWAY PROJECT	4	3	2	2	2	13
	3	AHIRRAO PRATIKSHIT PRAKASH		4	3	2	2	2	13
	13	BHANDANE PRANJAL SANJAY		4	3	2	2	2	13
	81	SURYAWANSHI PURVA RAJESH		4	3	2	2	2	13
18	19	CHAVAN DHANASHREE SATISH	PAVERBLOCK UNIT	4	4	4	3	3	18
	16	BHAVSAR SAKSHI RAVINDRA		4	4	4	3	3	18
	9	BAGADE SEJAL PRASHANT		4	4	4	3	3	18
	84	WANI KUNAL BARKU		4	4	4	3	3	18
19	44	LOKHANDE YASH HEMANT	RMC PLANT	4	4	3	4	3	18
	39	KATKADE ATHARVA PADMAKAR		4	4	3	4	3	18
	32	JADHAV KAUSHAL BHARAT		4	4	3	4	3	18
	54	PATIL DIPAK SURESH		4	4	3	4	3	18
20	14	BHAGWAT VAISHALI RAJENDRA	WATER TREATMENT PLANT	4	4	3	4	3	18
	33	JADHAV NEHA ANIL		4	4	3	4	3	18
	18	BORSE TANUJA S.		4	4	3	4	3	18
	80	SURWANSHI KALYANI VIJAY		4	4	3	4	3	18
21	29	AADITYA RAJENDRA GUJARATHI	HOSPITAL	4	3	3	3	3	16
	53	HIMANSHU SANTOSH PAITHANKAR		4	3	3	3	3	16
	69	RAKESH HIRAMAN SAVKAR		4	3	3	3	3	16
	67	VAIBHAV RAMKRUSHNA SANAP		4	3	3	3	3	16
22	45	MAHEWAR SARVESH NARESH	BRIDGE	4	2	2	2	2	12
	49	MOHITE GAURAV MAHENDRA		4	2	2	2	2	12
	52	NIKAM SHUBHAM SANDIP		4	2	2	2	2	12
	60	PAWAR SHIVRAJ HARSHVARDHAN		4	2	2	2	2	12

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.

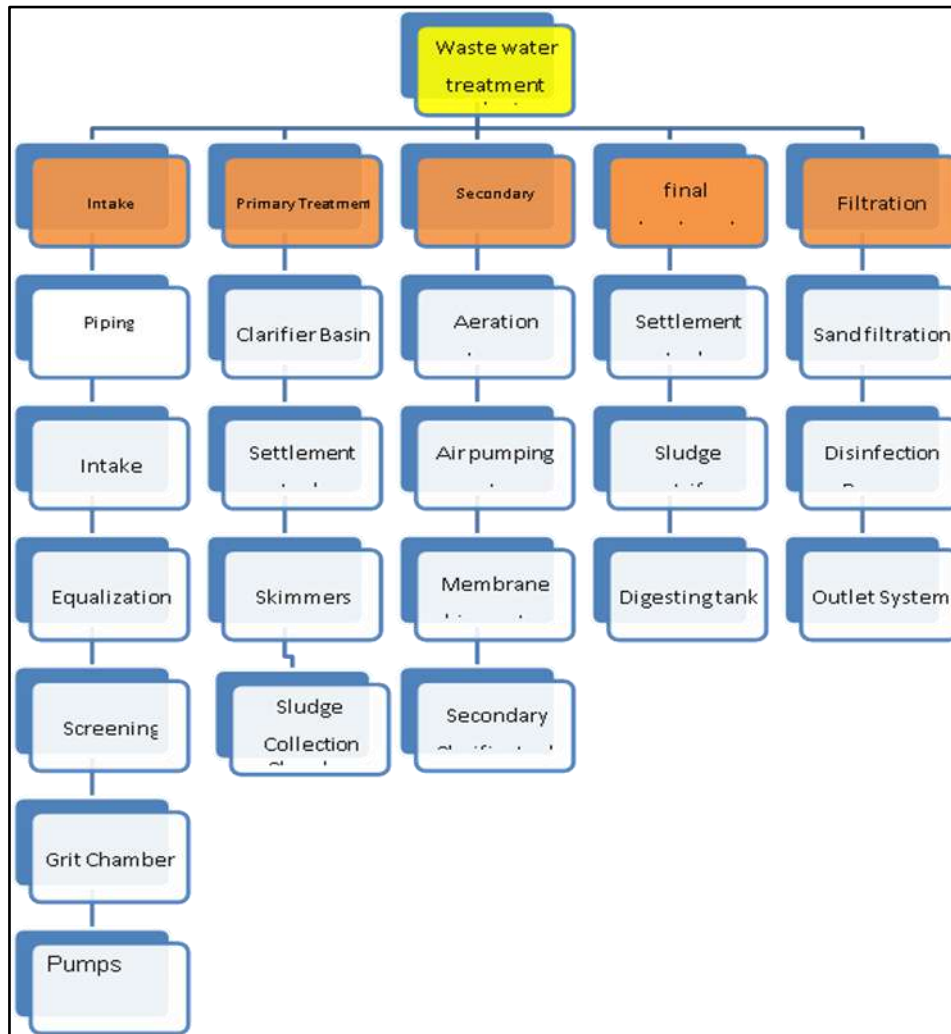
PSOs (Related to Methodology)

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.

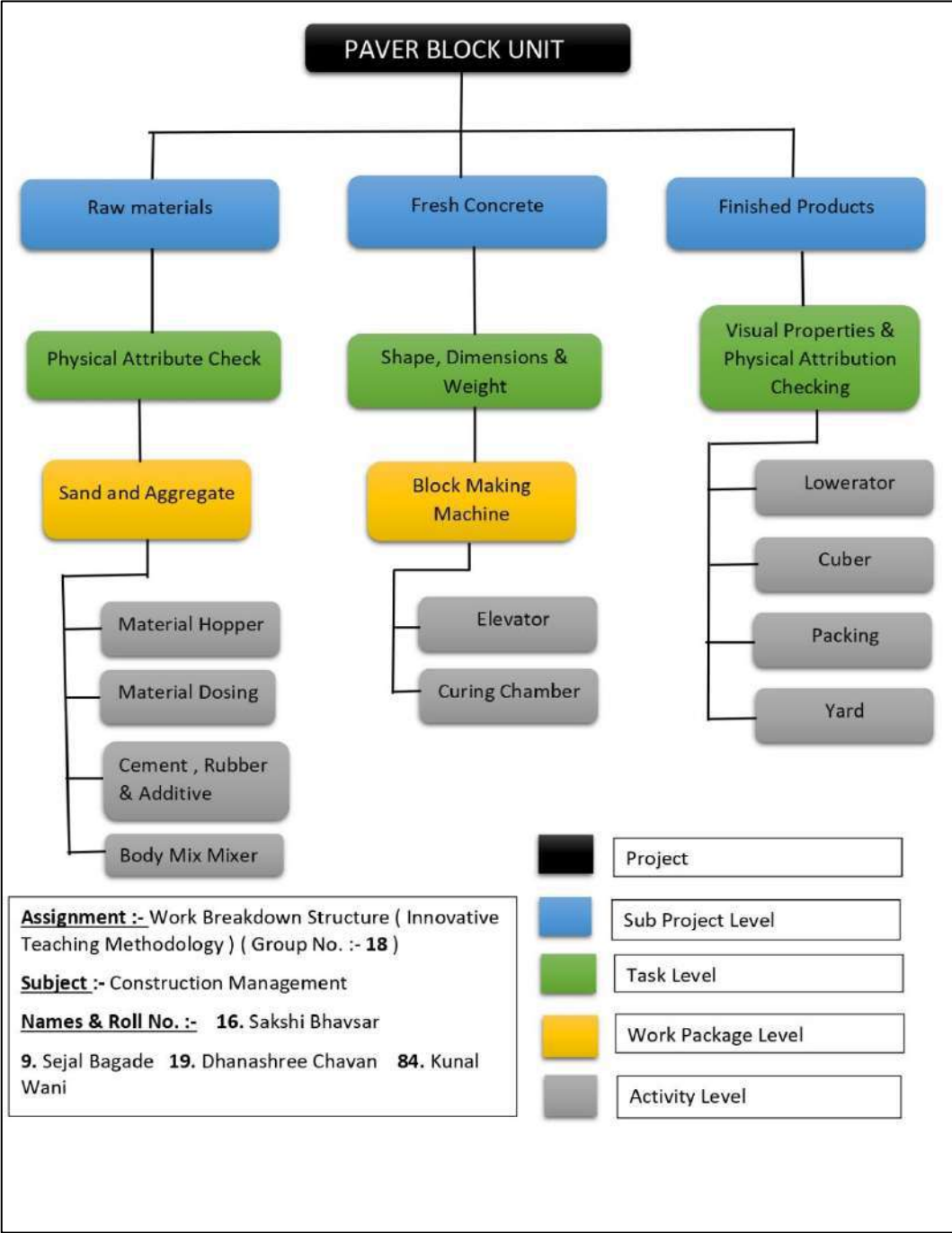
PSO3

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



Name: Pravin Ravaji Kuwar Roll NO:- 43
Shubham Ramesh Sanap Roll No:- 66
Dhananjay Hemant Javalekar Roll No:- 35
Abhishekh Ganesh Thankar Roll No:- 82



Assignment :- Work Breakdown Structure (Innovative Teaching Methodology) (Group No. :- 18)

Subject :- Construction Management

Names & Roll No. :- 16. Sakshi Bhavsar

9. Sejal Bagade 19. Dhanashree Chavan 84. Kunal Wani

- Project
- Sub Project Level
- Task Level
- Work Package Level
- Activity Level

ASSIGNMENT- WORK BREAKDOWN STRUCTURE(WBS)

NAME - RUCHI RAHUL CHAVAN

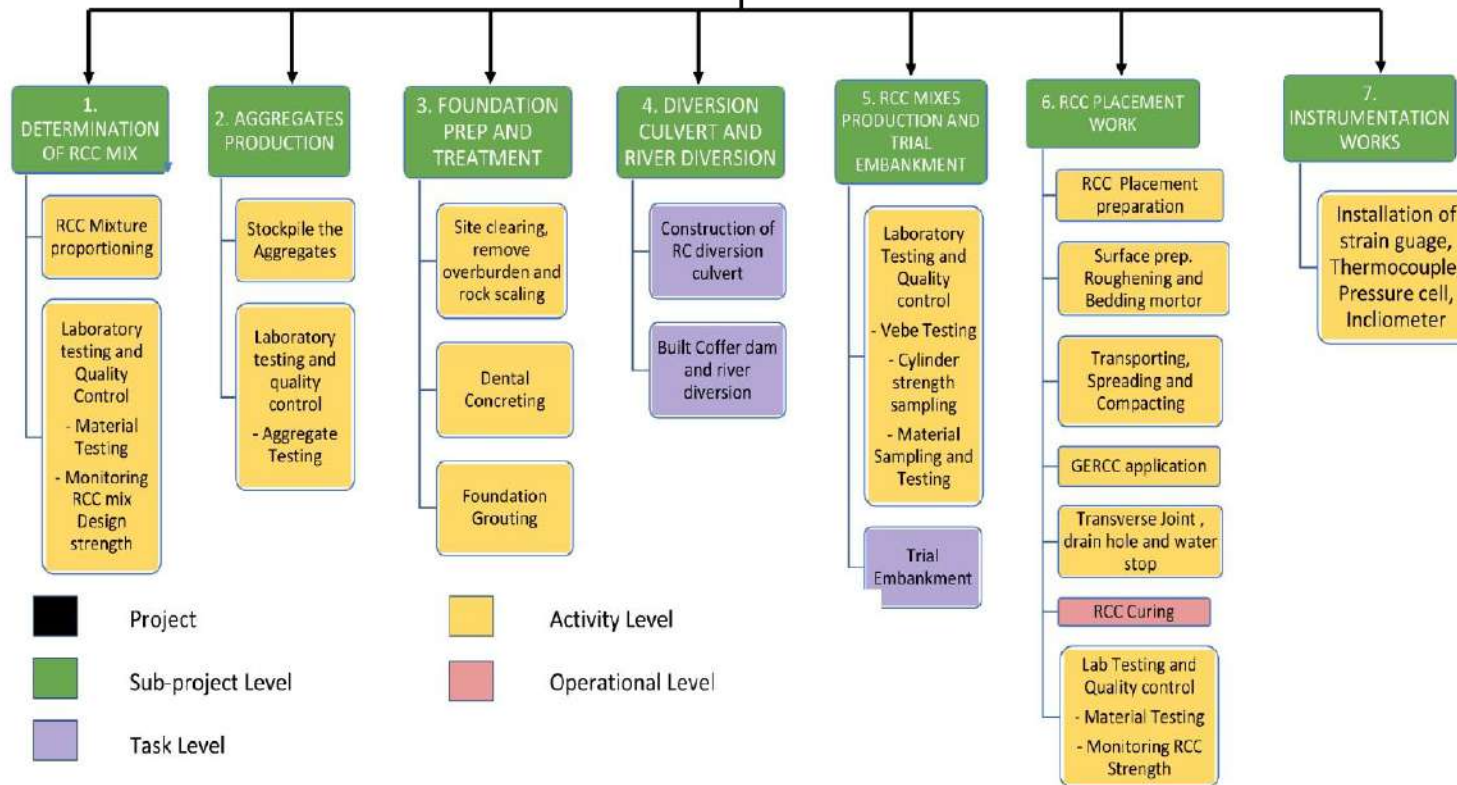
ROLL NO- 20

GROUP NO- 09

SUB- CONSTRUCTION MANAGEMENT

GROUP PARTICIPANTS ROLL. NO -20,36,61,65

RCC DAM CONSTRUCTION



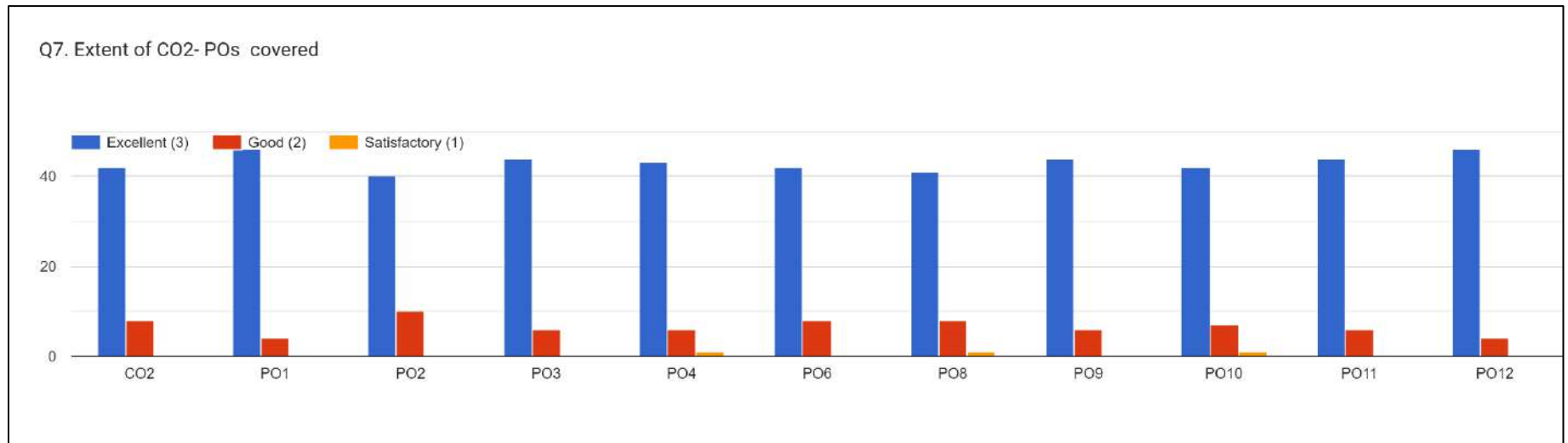
Feedback/Impact Analysis (Based on Students Feedback):

Course Outcome

	Course Outcome	CO2
A	No. of Groups/Students Achieving CO	50
B	Total Rating	142
C	Average Rating (B/A)	2.84

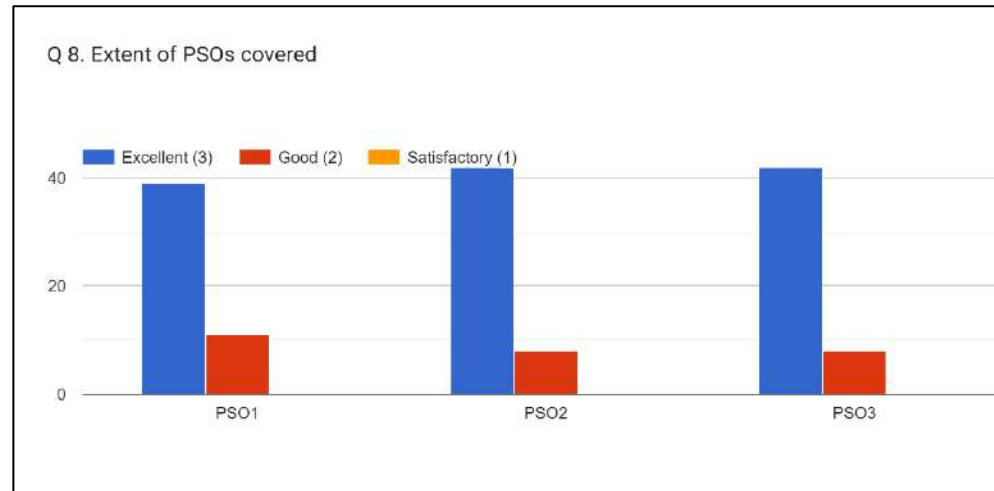
Program Outcome

	Program Outcome	PO1	PO2	PO3	PO4	PO6	PO8	PO9	PO10	PO11	PO12
A	No. of Groups/Students Achieving PO	50	50	50	50	50	50	50	50	50	50
B	Total Rating	146	140	144	142	142	140	144	141	144	146
C	Average Rating (B/A)	2.92	2.8	2.88	2.84	2.84	2.8	2.88	2.82	2.88	2.92



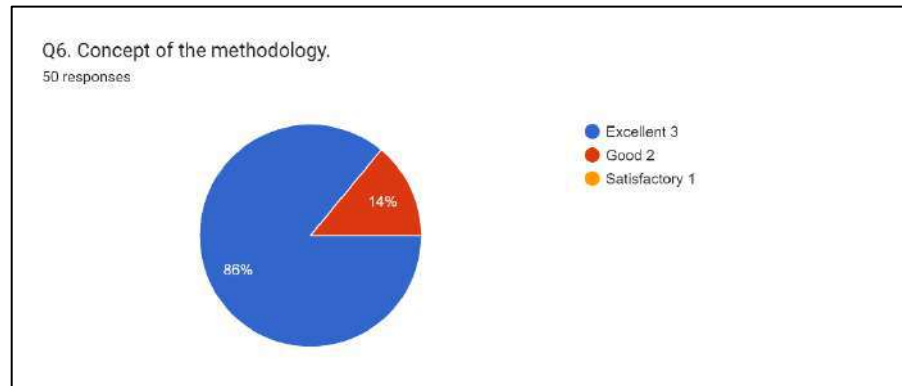
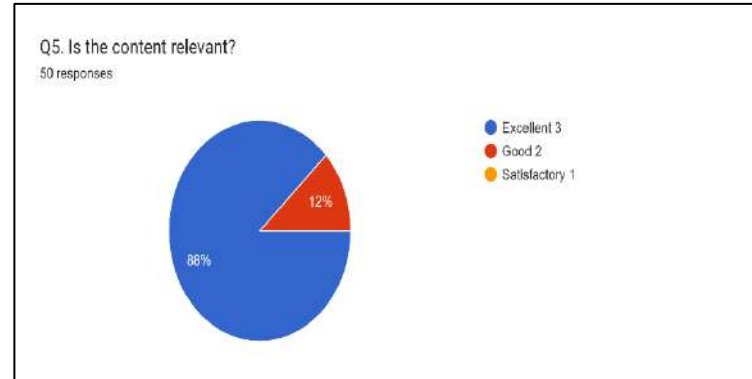
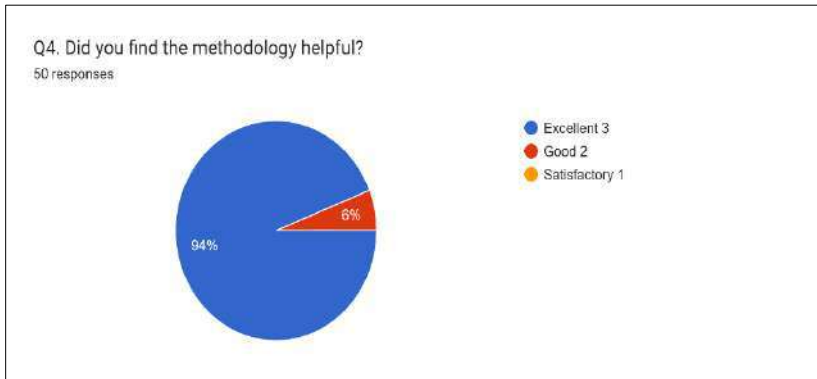
Program Specific Outcome

	Program Specific Outcome	PSO1	PSO2	PSO3
A	No. of Groups/Students Achieving PSO	50	50	50
B	Total Rating	139	142	142
C	Average Rating (B/A)	2.78	2.84	2.84



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	50	50	50
B	Total Rating	147	144	143
C	Average Rating (B/A)	2.94	2.88	2.86



Link for Review and Critics:

<https://forms.gle/ZJTDyVqr9AqsFnmW9>

Ms. M. B. Murkute
Course In charge

Dr. P. D. Nemade
HOD, Civil