



Department of Civil Engineering

Innovative Teaching Method –Case study presentation

Name of Faculty – Mr. M. B. Patil

Class – BE

Academic Year– 2020-21

Semester I

Name of Subject: – Environmental Engineering-II

1. Objectives of Methodology:

1. To create the awareness of about environment and sustainability.
2. To analyze the various wastewater treatment process.
3. Acquire the various concepts of wastewater treatment & different treatment processes used in the field and ability to share acquired knowledge.

2. Details of Activity/Method:

- Using case study as a teaching strategy enables students to reason critically about situations and proposes appropriate courses of action. Case studies uncover values, perspectives and ideas of classmates resulting in students examining their own understandings, leading to deeper analysis of concepts, ideas and solutions.
- The planning process also consider the cases to be used, and whether they are detailed and inclusive enough to nurture a valuable skill set which is transferrable across the curricula.
- Curriculum requirements support the use of case studies when analyzing sources of information, determining perspectives, interpretations and explanations relating to real events of the past and present.

• The method:

- Teachers start by having students read the case or watch a video that summarizes the case.
- Student forms a small group understand a case study on one topic.
- The students in a group explain what they have understood, following the guidelines given by the teacher.

Roles and Responsibilities

• Teacher

- Provide the Introduction to the entire topic.
- Aware the student about the length, breadth, depth of topic.
- Provide the appropriate guide lines at every stage.
- Remain available all the time during all stages of process.
- Prepare assessment methodology.

• Student

- Go through all the material provided on particular topic
- Once topic selected understand and gain expertise on topic through web/book search.
- Actively participate in group and contribute by means of discussion.
- Share the expertise topic by means of online virtual contacts and give the presentation.

• Group

- Develop the guidelines to establish group. (i.e. Decide the roll of all participants)
- Every group should gain the expertise on particular topic.
- Prepare a presentation which covers all the details corresponding to the topic.
- Appropriate references should be given.
- Proper communication is expected.
- Give the presentation with which every group member can share the topic they learned.

3. Assessment Tools & Rubrics:-

Group No	Roll No	Name of the students	Understanding (5 Marks)	Presentation (10 Marks)	Question-Answer (5 Marks)	Total (20)
			1) 3-5: Good topic knowledge 2) 2-3 :Adequate topic knowledge 3) 1-2: Inadequate topic knowledge	1) 7-10 :Good content, Proper formatting, Content Deliver 2) 3-7 :Adequate content, Proper formatting , Body Language, Content Delivery 3) 1-3 :Inadequate content, Improper formatting , Content Delivery	1) 3-5: Appropriate Answers to Questions. 2) 2-3 :Answers questions, but often with little insight knowledge 3) 1-2: Inappropriate Answer	
			1-2 Low, 2-3 Moderate, 3-5 High	1-3 Low, 3-7 Moderate, 7-10 High	1-2 Low, 2-3 Moderate, 3-5 High	
1	39	Kardile Anjali Santosh	4	8	4	16
	40	Khairnar Monali Sanjay	4	8	4	16
	41	Kulkarni Janhavi Shrikant	5	9	4	18
	64	Thakare Kajal Sanjay	4	8	4	16
2	1	Adke Poonam Vilas	5	8	4	17
	31	Ghule Pratik Somnath	4	8	3	15
	44	Nankar Shubham Vijay	4	8	3	15
3	10	Bhalerao Dhananjay Pandharinath	3	7	3	13
	37	Joshi Tejas Shashikant	4	8	3	15
	14	Bhamare Karan Rajendra	3	5	2	10
	12	Bhamare Akshay Himmat	3	7	2	12
4	66	Toche Saurabh Madhukar	5	9	4	18
	38	Kanoje Manoj Shivaji	5	8	4	17
	33	Jadhav Pranav Shashikant	4	8	4	16

	18	Bhor Mayuri Ratan	5	8	4	17
5	30	Gangurde Sanket Rajendra	5	8	4	17
	20	Bodke Aditya Dnyaneshwar	4	8	4	16
	28	Deshmukh Dinesh Kalu	4	7	3	14
	27	Desale Mayur Rajendra	4	7	3	14
	3	Ahire Anuja Devidas	4	8	3	15
6	46	Palve Pragati Santosh	4	7	3	14
	62	Shinde Vidya Mohandas	3	7	3	13
	67	Wagh Vaishali Dattu	4	7	3	14
	2	Agre Prajakta Sarang	5	9	4	18
7	49	Patil Samrudhi Sanjay	4	8	4	16
	57	Salve Harshad Sanjay	3	7	2	12
	58	Sharma Simat Romeshkumar	4	8	3	15
	29	Gangode Mayuri Nandkumar	5	8	4	17
8	53	Pawar Mrunal Sanjay	4	8	4	16
	22	Chandwadkar Sakshi Rakesh	4	8	4	16
	13	Bhamare Harshada Sanjay	5	8	4	17
	43	More Shashikant Gokul	4	8	3	15
9	6	Bachhav Harshal Prashant	3	7	2	12
	50	Patil Shubham Devidas	3	7	2	12
	47	Patil Chetan Vishwas	3	7	3	13
	36	Jawale Hrishikesh Narendra	4	8	4	16
10	54	Rajput Jayraj Sunil	5	9	4	18
	15	Bhamare Revati Arun	4	8	4	16
	19	Bodade Vishakha Prabhakar	4	8	4	16

11	34	Jadhav Shriyog Shantaram	4	7	3	14
	21	Boraste Samrudhi Sunil	3	7	3	13
	42	Mhaisdhune Pranav Shankar	4	8	3	15
	7	Badgujar Shubhangi Vilas	3	7	2	12
12	24	Chine Pratik Gorakshnath	4	8	3	15
	8	Bendkule Gayatri Rajesh	3	7	3	13
	26	Darode Shweta Hemant	4	8	3	15
	55	Sanap Sonali Ramkrushna	3	7	2	16
13	75	Shingade Omkar Sanjay	5	8	4	17
	74	Pagar Harshvardhan Hemant	4	8	3	15
	71	Jadhav Kunal Sambhaji	4	8	3	15
14	60	Shinde Pratiksha Deepak	4	7	3	14
	9	Bhadange Mrugdha Sunil	4	8	3	15
	61	Shinde Urmila Devidas	3	7	3	13
	69	Chothave Aishwarya Rajendra	3	7	3	13
15	77	Gajarmal Prasad Balwant	3	7	2	12
	65	Thavil Nitin Dharma	3	7	2	12
	17	Bhamre Shivam Avinash	3	7	3	13
	63	Sonawne Aayush Depak	4	7	3	14
16	48	Patil Mohanish Hemant	4	8	3	15
	51	Patil Siddhant Vilas	3	7	3	13
	25	Dargode Nikhil Arun	4	7	3	14
	45	Nikam Rushikesh Subhash	4	7	3	14
17	4	Ahire Sagar Vinod	4	7	3	14

	5	Avhad Archit Prashant	4	7	3	14
	32	Gite Yash Sanjay	4	7	3	13
	68	Walke Aishwarya Namdeo	3	7	2	12
18	70	Deore Chetan Manik	4	8	4	16
	59	Shinde Mayur Dhondiram	4	7	3	14
	72	Ahire Mayur Nandu	4	8	3	15
	73	More Saurav Mulchand	3	7	2	12
19	11	Bhalerao Poonam Lahu	4	8	3	15
	16	Bhamre Roshani Mohan	4	8	4	16
	52	Patil Varsha Vasant	4	7	3	14
	56	Satbhai Ankita Bhaskar	4	7	3	14
20	35	Unnati Rajendra Jadhav	3	6	2	12

4. Evidences: Activity Photographs/Videos/Sample PPT's

The screenshot shows a Google Meet window with the following details:

- Browser Tabs:** Gmail - Email from Google, Inbox (1,221) - patilmanoj89, B.E. Civil 2020-21 Semester-I, Meet - pno-zmbi-fex, Exam Online- Examination Se..., 443_22122020.pdf
- URL:** <https://meet.google.com/pno-zmbi-fex?authuser=0>
- Meeting ID:** h2t12exm3j
- Presenter:** ANJALI KARDILE is presenting
- Slide Content:**

A case study report on
**"SEWAGE TREATMENT PLANT,
DELAWAS, JAIPUR"**

Prepared by
Name of Students : 1. Kardile Anjali Santosh (39)
2. Khairnar Monali Sanjay (40)
3. Kulkarni Janhavi Shrikant (41)
4. Thakare Kajal Sanjay (64)

Guided by :- Prof. M.B. Patil
- Participants (44):** AKSHAY BHAMARE, ANJALI KARDILE, ANJALI KARDILE Presentation, ANJALI KARDILE, ANKITA SATBHAI, ANUJA AHIRE, CHETAN PATIL, DHANANJAY BHALER..., GAYATRI BENDKULE.
- Taskbar:** Windows taskbar with icons for Edge, File Explorer, Chrome, PDF Reader, and Word. System tray shows time 1:37 PM and date 31-Dec-20.

The screenshot shows a Google Meet window with the following details:

- Browser Tabs:** Gmail - Email from Google, Inbox (1,223) - patilmanoj89, B.E. Civil 2020-21 Semester-I, Meet - pno-zmbi-fex, Exam Online- Examination Se..., 443_22122020.pdf
- URL:** <https://meet.google.com/pno-zmbi-fex?authuser=0>
- Meeting ID:** h2t12exm3j
- Presenter:** MAYURI BHOR is presenting
- Slide Content:**

A CASE STUDY REPORT ON
WASTE WATER TREATMENT
PLANT OF VITHALWADI, PUNE

Submitted By :- bhor Mayuri R. (18)
Jadhav Pranav S. (33)
Kanoje Manoj S. (38)
Tocha Saurabh M. (66)

Guided By :- Prof. M. B. Patil
- Participants (37):** POONAM BHALERAO, PRAGATI PALVE, PRAJAKTA AGRE, PRANAV JADHAV, PRATIK CHINE, PRATIK GHULE, rushikesh nikam, SAMRUDHI PATIL, SAURABH TOCHE.
- Taskbar:** Windows taskbar with icons for Edge, File Explorer, Chrome, PDF Reader, and Word. System tray shows time 2:41 PM and date 31-Dec-20.

File Edit View History Bookmarks Tools Tabs sharing devices Help

Gmail - Email from Google X Inbox (1,225) - patil.mang890 X B.E. Civil 2020-21 Semester-I X Meet - pno-zmbi-fex X Exam Online- Examination Sci X 443_23_122020.pptf X

https://meet.google.com/pno-zmbi-fex?authuser=0

VIDYA SHINDE is presenting

A case study report on Waste Water Treatment plant "Common Effluent Treatment Plant (CETP), Solapur, Maharashtra"

Prepared by
Name of Students : Ahire Anuja D.
Shinde Vidya M.
Wagh Vaishali D.
Palve Pragati S

Under the Guidance of
Name of Guide: Prof. M.B.Patil

h2tl2exm3j

People (37)

- PRANAV JADHAV
- PRANAV MHAISDHUNE
- PRATIK CHINE
- rushikesh nikam
- SAKSHI CHANDWADK...
- SAMRUDDHI PATIL
- SAURABH TOCHE
- SHRIYOG JADHAV
- SHUBHAM NANKAR

h2tl2exm3j

VIDYA SHINDE is presenting

Windows Taskbar: File Explorer, Chrome, PDF Reader, Firefox, Word, etc.

System Tray: 3:02 PM, 31-Dec-20

File Edit View History Bookmarks Tools Tabs sharing devices Help

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https://meet.google.com/wse-qqoq-pft?authuser=0

REC

VISHAKHA BODADE is presenting

NITIN THAVIL and 4 more

16 10:33 AM



DEPARTMENT OF CIVIL ENGINEERING
MARATHA VIDYA PRASARAK SAMAJ'S
KARMAVEER ADV. BABURAO
GANPATRAO THAKARE, COLLEGE OF
ENGINEERING, NASHIK -13

ENVIRONMENTAL ENGG II

A
Case Study
Presentation On

"WASTE WATER TREATMENT PLANT"

h2tl2exm3j

People (16)

- Revati Arun Bhamare
- VISHAKHA BODADE
- UNNATI JADHAV
- ANKITA SATBHAI
- JAYRAJ RAJPUT
- Omkar Shingade

Omkar Shingade joined

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VISHAKHA BODADE is presenting

Windows Taskbar: File Explorer, Chrome, PDF Reader, Firefox, Word, etc.

System Tray: 10:33 AM, 01-Jan-21

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https://meet.google.com/pno-xmbi-fex?authuser=0

MRUNAL PAWAR is presenting

h2tl2exm3j

People (27) Chat

- PRATIK CHINE
- rushikesh nikam
- SAGAR AHIRE
- SAKSHI CHANDWADK...
- SAMRUDHI BORASTE
- SAMRUDHI PATIL
- SHRIYOG JADHAV
- SHWETA DARODE
- SONALI SANAP

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Next contents

Microphone Muted

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Raise hand

Turn on captions

MRUNAL PAWAR is presenting

Windows Taskbar: e, Chrome, PDF, Firefox, Word, System tray: ENG INTL, 3:41 PM, 31-Dec-20

File Edit View History Bookmarks Tools Tabs sharing devices Help

Gmail - Email from Google X Inbox (1,230) - patil.manoj89@... X B.E, Civil 2020-21 Semester-I X Meet - pno-xmbi-fex X Exam Online- Examination Se... X 483_22.122020.pdf X

https://meet.google.com/pno-xmbi-fex?authuser=0

SHRIYOG JADHAV is presenting

h2tl2exm3j

People (23) Chat

- SAGAR AHIRE
- SAKSHI CHANDWADK...
- SHRIYOG JADHAV
- SHRIYOG JADHAV Presentation
- SHWETA DARODE
- SIDDHANT PATIL
- SONALI SANAP
- UNNATI JADHAV
- URMILA SHINDE

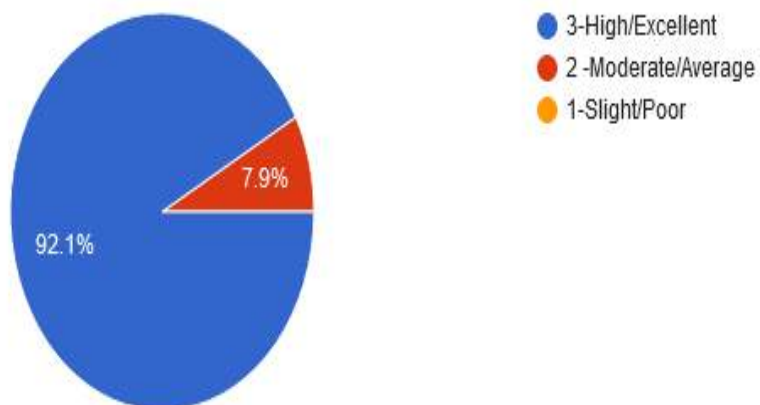
Windows Taskbar: e, Chrome, PDF, Firefox, Word, System tray: ENG INTL, 4:02 PM, 31-Dec-20

5. Feedback/Impact Analysis (Based on Students Feedback):

Sr. No.	3- High/Excellent	2 - Moderate /Average	1- Slight/Poor
1. Did you understand and cover the objective of the activity?(PO7)	92.1%	7.9%	
2.How Much do you find explanation or notes or presentation material OR Video of particular topic helpful (CO3)	88.2%	11.8%	
3. Do you find that methodology is helpful to cover the content beyond syllabus?	85.5%	14.5%	
4.Does the group members communicate effectively on given topic (PO10)	93.42%	5.26%	1.32%
5.Does the content of covered topic will be remember for life long (PO12)	85.5%	14.5%	
6. Would You Like To Participate in This Methodology again	98.7%	1.3%	

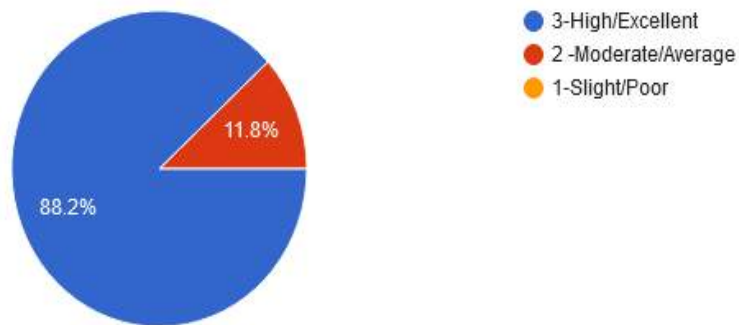
1. Did you understand and cover the objective of the activity?(PO7)

76 responses



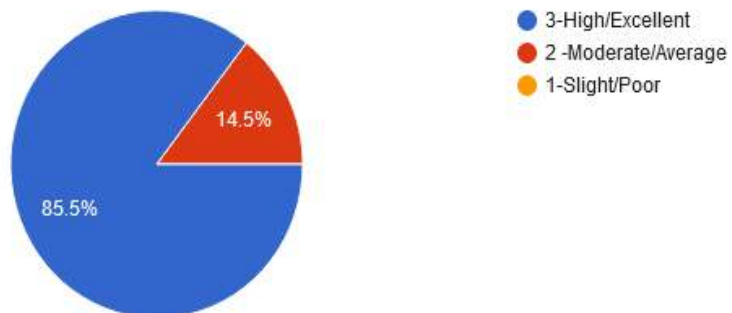
2.How Much do you find explanation or notes or presentation material OR Video of particular topic helpful (CO3)

76 responses



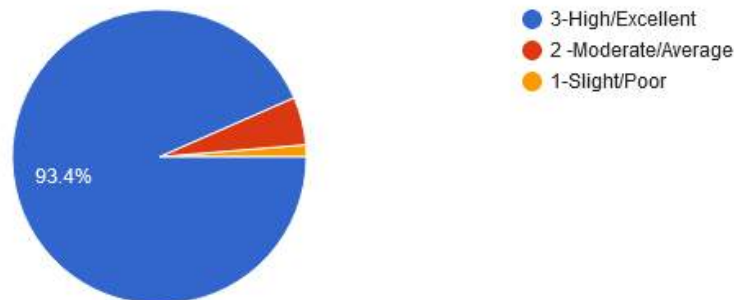
3. Do you find that methodology is helpful to cover the content beyond syllabus?

76 responses



4.Does the group members communicate effectively on given topic (PO10)

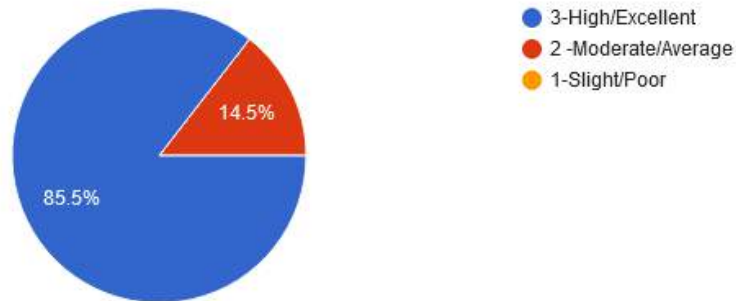
76 responses



5.Does the content of covered topic will be remember for life long (PO12)



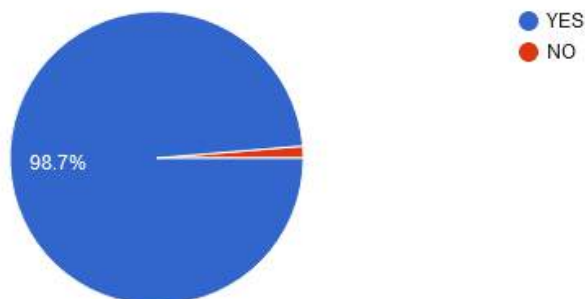
76 responses



6. Would You Like To Participate in This Methodology again



76 responses



Link for review and critics: <https://forms.gle/zxYNVpUJ1J8naZa38>

For review and critique contact: e-mail address of faculty and HOD

patil.manoj89@kbtcoe.org

hod.civil@kbtcoe.org

Mr. M. B. Patil
Subject In charge

Dr. P. N. Balve
Module Coordinator

Dr. M. P. Kadam
HoD