



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgavi)

Accredited By NBA (BE : CV, CSE, ECE, ISE & ME)

Date: 27. 03.2024

To,

The Principal  
AJIET, Mangalore

Through,

The Dean Academics  
AJIET, Mangalore

**Subject: Permission for Industrial Visit Reg**

Respected sir,

This letter is to request your permission to take the students of 4<sup>th</sup> Year Civil Engineering for Industrial Visit to NMPA Break water Construction Hosbettu on 28<sup>th</sup> March 2024 at 9:30AM  
We request you to grant the permission for the Visit.

Faculty Accompanying:

1. Mr. Saketh Shetty (4<sup>th</sup> Year Class Advisor)
2. Dr. Sangeetha D M

**HOD**

H.O.D.-Civil Engineering

A.J. Institute of Engineering & Technology  
Mangaluru - 575 006. D.K., Karnataka

**Dean Academics**

**Principal**

Principal

A.J. Institute of Engineering & Technology  
Mangaluru - 575 006



# A J INSTITUTE OF ENGINEERING AND TECHNOLOGY

NH-66, Kottara Chowki, Mangaluru -575006, Karnataka, INDIA

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(Approved by AICTE, New Delhi. Affiliated to Visveswaraya Technological University, Belagavi)

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## Department of Civil Engineering

Ref. No. AJIET/ CV/ IV/ 2023-24 /04

DATE: 27-03-2024

### CIRCULAR

Dear Students, we are excited to announce the Industrial Visit for 4<sup>th</sup> Year (8<sup>th</sup> Sem) Students.

This program offers you the opportunity to gain practical experience, industrial exposure, and professional skills.

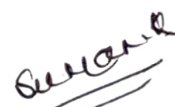
For more details, contact Mrs. Deeksha Anand, Industrail Visit Coordinator.

Details of the visit are as follows:


**Date: 28/03/2024**

**Venue: Break Waters Construction at Kulai**

  
27/3/2024  
**Event Coordinator**  


  
**HOD**

H.O.D.-Civil Engineering  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006, D.K., Karnataka

  
**Principal**  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006



**AJ INSTITUTE OF ENGINEERING & TECHNOLOGY**

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to VIT-VELLURU Technological University, Belagavi)

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Date: 28-3-2024

**Report on "INDUSTRIAL VISIT TO BREAK WATER CONSTRUCTION  
AT KULAI, SURATHKAL"**

Name of the Program:	<b>INDUSTRIAL VISIT TO BREAK WATER CONSTRUCTION KULAI</b>	Program Dates & Timings:	<b>28-3-2024 9:30 a.m. – 12.45p.m.</b>		
Name & Details of the Resource Person:	<b>NMPA Site Engineers</b>				
Organized by (Clubs/ Dept.)	Department of Civil Engineering	In Association with (clubs)	-		
Number of Participants	28	Students	26	Faculty	2
Program Outcome (PO) Mapping	PO3, PO4, PO5, PO6, PO7, PO12				
Coordinators	Mr. Saketh Shetty, Asst Professor. Dept. of Civil. Dr. Sangeetha D M., Assoc. Professor, Dept. of Civil				

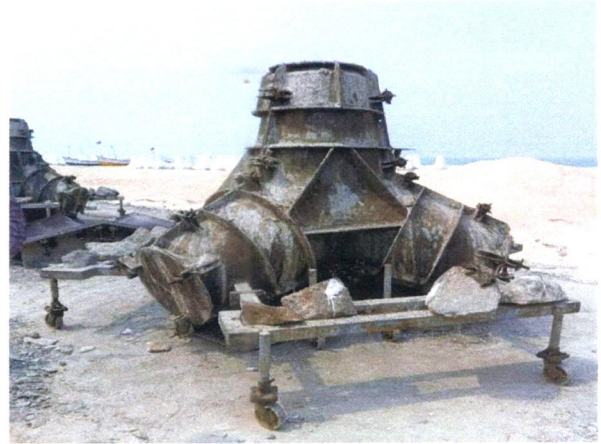
**About the Program:** A break water is a permanent structure constructed at a coastal area to protect against tides, currents, waves and storm surges. Breakwater have been built since antiquity to protect breakwaters reduce the intensity of wave action in inshore waters and thereby provide safe harbourage. Breakwaters built at Kulai for fishing harbour is 700m long and the total cost of the project is 147Crores. Our students got an excellent exposure at the site to see the casting of tetrapod's and quick curing of the tetrapod's. The depth of the soil excavated was 3m and the breakwater height is almost 4m above sea level. The laying of the formation was explained by the site engineer Mr. Ganesh Rao and Preetham. The laying of the tetrapod was demonstrated using the hydraulic cranes. Also, they offered students to visit the NMPA actual port for the next visit on request.

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**Articulation Matrix:**

Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1			2	2	2	2	2					2
2			2	2	2	2	2					2
Average			2	2	2	2	2					2

**Photos:**



Coordinator



HOD

H.O.D.-Civil Engineering

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### **Construction Details:**

- **Pile Foundation:** Required for the construction of the port. Construction starts after the breakwater construction.
- **Varying Depth:** Different depth chainages are provided, with increasing width as the depth increases.
- **Slopes:** The windward side slope is provided at 1:2, while the leeward side slope is at 1:1 due to stronger currents.
- **Geotextile Membrane:** Installed on the leeward side of the breakwater to resist soil erosion in the rehabilitation center.
- **Concrete Path:** Provided above the breakwater for inspection purposes.
- **Vertical Walls:** Installed for safety along the breakwater.
- **Tetrapod's:** Used to reduce wave action.
- **Curing Method:** The plastic curing method was implemented on-site.
- **Concrete Mix:** M35 mix is used to cast concrete in a batching plant.

This construction plan aims to create a port facility that can withstand the challenges posed by the rainy season, providing a safe environment for fishing activities and boat repair.

**Objectives:** The industrial visit to breakwater construction at Kulai, Surathkal enable students and faculty

- To learn about the dynamics of sea movement and complex engineering problems involved in designing the breakwaters
- A practical exposure to the prototypes at site

### **Outcomes:**

- The students will gain valuable insights into coastal protection strategies and develop the skills necessary for contributing to innovative and sustainable solutions in coastal engineering projects.
- The students will be able to relate the theoretical knowledge with the actual prototypes enhancing practical skills in breakwater design and implementation.

# INDUSTRIAL VISIT TO NMPA Break Water- FEED BACK FORM

COURSE OUT COME FEED BACK FORM

Course Name: Industrial visit

Semester:8

Batch: 2020-2024

Academic Year: 2023-2024

\* Indicates required question

1. Email \*

\_\_\_\_\_

2. NAME \*

\_\_\_\_\_

3. USN/Roll Number \*

\_\_\_\_\_

4. Branch \*


\_\_\_\_\_

5. Semester \*

\_\_\_\_\_

6. Date of Visit \*

\_\_\_\_\_

  
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7. 1. Does the industrial visit is related to your course? \*

*Mark only one oval.*

Yes

No

8. 2. Does the industrial visit helped you to gain domain knowledge? \*

*Mark only one oval.*

Yes

No

9. 3. Does faculty member shared information about the industry before the visit? \*

*Mark only one oval.*

Yes

No

10. 4. Do you recommend this visit to your friends? \*

*Mark only one oval.*

Yes

No

11. 5. The visit was well organized. \*

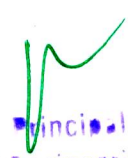
*Mark only one oval.*

Strongly Agree

Agree

Disagree

Strongly Disagree

  
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Mangaluru - 575 009

12. 6. The Teacher/Resource Person discussed subject matter during the visit \*

*Mark only one oval.*

- Strongly Agree  
 Agree  
 Disagree  
 Strongly Disagree

13. 7. The Teacher/Resource Person encouraged student participation \*

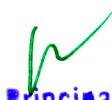
*Mark only one oval.*

- Strongly Agree  
 Agree  
 Disagree  
 Strongly Disagree

14. 8. The field visit was timely. \*

*Mark only one oval.*

- Strongly Agree  
 Agree  
 Disagree  
 Strongly Disagree

  
Principal  
A.J. Institute of Engineering & Technology  
Mangaluru - 575 006

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## DEPARTMENT OF CIVIL ENGINEERING

### FEED BACK FORM ON INDUSTRIAL VISIT TO BREAK WATER CONSTRUCTION, KULAI SURATHKAL

Timestamp	Email Address	NAME	USN/Roll Number	Branch	Semester	Date of Visit	1. Does the industrial visit is related to your course?	2. Does the industrial visit helped you to gain domain knowledge?	3. Does faculty member shared information about the industry before the visit?	4. Do you recommend this visit to your friends?	5. The visit was well organized.	6. The Teacher/Resource Person discussed subject matter during the visit	7. The Teacher/Resource Person encouraged student participation	8. The field visit was timely.
3/28/2024 15:15:15	myselfnikhithayadav@gmail.com	Nikhitha KN	4JK20CV019	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Strongly Agree	Strongly Agree	Strongly Agree	Agree
3/28/2024 15:18:56	saiteja8050@gmail.com	Sai teja devineni	4jk21cv404	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Agree
3/28/2024 15:27:11	mahimn960@gmail.com	Mahesha	4JK20CV015	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Strongly Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/28/2024 15:38:47	myselfnikhithayadav@gmail.com	Nikhitha KN	4JK20CV019	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Agree
3/28/2024 16:00:10	spandanakotian70@gmail.com	Spandana kotian S	4JK20CV022	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Strongly Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/28/2024 20:59:38	abhinavabd19@gmail.com	Abhinav Mohan	4JK20CV001	Civil Engineering	8th	28/03/2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 11:32:10	alanchristy5@gmail.com	Alan Christy	4JK21CV400	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 11:32:57	shivani.kodical@gmail.com	Shivani Kodical	4JK20CV024	Civil Engineering	8th	28/3/2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Agree
3/29/2024 11:45:57	amoghgowda061@gmail.com	AMOGH MG	4JK20CV005	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/29/2024 15:51:21	Thameemmm@gmail.com	Thameem	4JK20CV016	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 16:01:11	naikpreetham9@gmail.com	Preetham	4JK21CV402	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 16:01:11	chandnisanjay126@gmail.com	Chandni Sanjay	4JK20CV008	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 16:23:12	chithukotian55@gmail.com	Chitharanjan	4jk20cv009	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 16:39:11	spandanakotian70@gmail.com	SPANDANA KOTIAN S	4JK20CV022	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/29/2024 16:45:00	edwinamathew37@gmail.com	Edwin Abraham Mathew	4JK20CV011	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 16:59:11	eerannarangappa@gmail.com	EERANNA RANGAPPA D	4JK20CV012	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 17:09:19	roystonvincent@gmail.com	Royston Vincent	4jk21cv403	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/29/2024 17:16:10	nithinraj2310@gmail.com	Nithin Raj P	4JK21CV401	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Strongly Agree	Strongly Agree	Strongly Agree	Agree
3/29/2024 17:25:05	skdanjose2001@gmail.com	Dan Sk	4JK20CV010	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Strongly Agree	Strongly Agree	Strongly Agree	Agree
3/29/2024 17:33:05	fusco8958@gmail.com	Fusco Anna Augustine	4jk20cv013	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/29/2024 17:53:51	navyaksd147@gmail.com	Navya.k	4JK20CV018	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Strongly Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/29/2024 17:56:02	afiah313@gmail.com	Afiah Abduraheem	4JK20CV004	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 18:13:11	appuadithya2011@gmail.com	Adithya r	4JK20CV003	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/29/2024 18:38:51	tanvishraj7@gmail.com	Tanvishraj	4JK20CV014	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 18:43:01	ayushshetty@gmail.com	AYUSH SHETTY	4JK20CV006	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree

Principal

A.J. Institute of Engineering & Technology  
Mangaluru - 575 006



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3/29/2024 18:55:25	shetlaxmikanth17@gmail.com	N Laxmikanth Shet	4JK20CV017	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Agree
3/29/2024 19:00:51	nikithakn@gmail.com	NIKITHA K N	4JK20CV019	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Agree	Agree	Agree
3/29/2024 19:26:59	arackalbidhovan@gmail.com	Bidhovan A james	4jk20cv007	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Strongly Agree
3/29/2024 19:53:02	abhisreehari777@gmail.com	Abhishek A	4JK20CV002	Civil Engineering	8th	28-03-2024	Yes	Yes	Yes	Yes	Agree	Strongly Agree	Strongly Agree	Agree

*Handwritten signature*  
30/3/24

*Handwritten signature*  
Principal

A.J. Institute of Engineering & Technology  
Mangaluru - 575 806

Date: 28-3-2024

**Attendance for "4<sup>th</sup> year -INDUSTRIAL VISIT TO NMPABREAK WATER"**

Sl No	USN	Name	Department	Signature
1	4JK20CV001	ABHINAV MOHAN	Civil Engineering	
2	4JK20CV002	ABHISHEK A	Civil Engineering	
3	4JK20CV003	ADITHYA RAMNATH	Civil Engineering	
4	4JK20CV004	AFLAH ABDURAHEEM	Civil Engineering	
5	4JK20CV005	AMOGH M G	Civil Engineering	
6	4JK20CV006	AYUSH SHETTY	Civil Engineering	
7	4JK20CV007	BIDHOVAN A JAMES	Civil Engineering	
8	4JK20CV008	CHANDNI SANJAY	Civil Engineering	
9	4JK20CV009	CHITHARANJAN	Civil Engineering	
10	4JK20CV010	DAN S K	Civil Engineering	
11	4JK20CV011	EDWIN ABRAHAM MATHEW	Civil Engineering	AB
12	4JK20CV012	EERANNA RANGAPPA DALAWAI	Civil Engineering	
13	4JK20CV013	FUSCO ANNA AUGUSTINE	Civil Engineering	
14	4JK20CV014	G TANVISHRAJ	Civil Engineering	
15	4JK20CV015	MAHESH	Civil Engineering	
16	4JK20CV016	MOHAMMAD THAMEEM	Civil Engineering	
17	4JK20CV017	N LAXMIKANTH SHET	Civil Engineering	
18	4JK20CV018	NAVYA K	Civil Engineering	
19	4JK20CV019	NIKHITHA K N	Civil Engineering	
20	4JK20CV021	RISHANA M S	Civil Engineering	
21	4JK20CV022	S SPANDANA KOTIAN	Civil Engineering	
22	4JK20CV023	SAGAR SURESH BAILANAYKAR	Civil Engineering	AB
23	4JK20CV024	SHIVANI KODICAL	Civil Engineering	
24	4JK20CV025	SHRUJAN S SHETTY	Civil Engineering	
25	4JK20CV026	U DHANVIN PADMANABHA THANTRI	Civil Engineering	AB
26	4JK21CV400	ALAN CHRISTY	Civil Engineering	AB
27	4JK21CV401	NITHIN RAJ P	Civil Engineering	
28	4JK21CV402	PREETHAM	Civil Engineering	
29	4JK21CV403	ROYSTON VINCENT	Civil Engineering	
30	4JK21CV404	SAI TEJA DEVINENI	Civil Engineering	

Coordinator

HOD

Dean Academics

Principal

H.O.D. - Civil Engineering

Principal



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Date: 28-3-2024

## Attendance for "4<sup>th</sup> year -INDUSTRIAL VISIT TO NMPABREAK WATER"

SI No	Name	Designation	Department	Signature
1	Mr. Saketh Shetty	Assistant Professor	Civil Engineering	
2	Dr. Sangeetha D M	Associate Professor	Civil Engineering	

28/3/24

Coordinator

H.O.D. Oil Engineering

A.J. Institute of Engineering & Technology  
Mangaluru - 575 006, D.K., Karnataka

Dean Academics

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