

From

05-10-2019

Prof. Prakash K Shetty

Electronics & Communication department

AJIET Mangalore

To

Dr. Shantharama Rai

The Principal

AJIET Mangalore

Subject: Request for Permission for Industrial Visit for 2nd year ECE Students

Respected Sir, I am writing on behalf of the ECE Department to seek your gracious permission to organize an industrial visit for our 2nd year ECE Students.

Details of the proposed industrial visit are as follows:

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- **Date:** 25/10/2019
- **Venue:** MRPL Mangalore

Your approval will significantly benefit our students.



H.O.D. - Electronics & Commn. Engineering
A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY
Mangaluru - 575 006, D.K., Karnataka
Prof. Prakash K Shetty



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



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Department of Electronics and Communication Engineering

AJIET/EC/IV002/2019

CIRCULAR

Dear Students, we are excited to announce the Industrial Visit for the 4th semester Students. This program offers you the opportunity to gain practical experience, industry exposure, and professional skills.

For more details, contact Mr. Raghavendra Hawaldhar Industrial Visit Coordinator

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NH 66, Kottara Chowki, Mangaluru 575006

Department of Electronics and Communication Engineering

REPORT ON INDUSTRIAL VISIT TO MRPL, MANGALURU

The students of V Sem ECE, AJIET, Mangaluru visited Mangalore Refinery and Petrochemicals Limited (MRPL) on 25-10-2019. MRPL is an oil refinery at Mangalore and is a subsidiary of ONGC, set up in 1988. The refinery has a versatile design with high flexibility to process crudes with high degree of automation. MRPL has a design capacity to process 15 million metric tonnes of crude per annum and is the only refinery in India to have two hydrocrackers producing premium diesel.

After the initial inspection by the security personnel, students were given a brief presentation about the refinery. They were then taken for an on-site visit to several manufacturing units listed below.

1. Crude and vacuum distillation units: The Atmospheric, Vacuum Distillation Units and Naphtha Splitter Units are heat integrated, using Pinch Technology to achieve high-energy efficiency, thereby reducing Fuel Oil consumption and in turn reducing air emissions.
2. Hydrocracker units: These units produce high quality Sulphur free Diesel and ATF. The Plant is designed for 100 percent conversion of low value Vacuum Gas Oils to lighter, low Sulphur valuable products.
3. Soaker Visbreaker: This technology has been adopted to upgrade heavy vacuum residue to Gas, Naphtha and Gas Oil
4. Platforming Units: The Continuous Catalytic Regeneration Platforming Unit (CCR), produces Lead free, high Octane Motor Spirit (Petrol) and also LPG. Hydrogen is the bi-product.

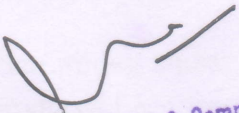
The various other units are Hydrogen, Bitumen, DCU (Delayed coker unit), CHTU, SRU, PP unit (Polypropylene unit) and DHDTU (Diesel hydro desulphurization unit). There was also a visit to the control rooms where the operation of the units is controlled by the staff from a remote place. The students were also briefed about the upcoming De-Salination Project under MRPL

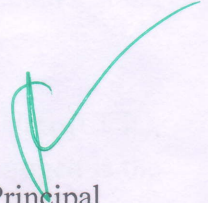
Over the Course of the visit the students learnt about different refining units and how various technologies were used to control them. Further the visit was knowledgeable and inspirational.

Total No. of Students: 29

Faculties: Mr. Manjukiran B, Asst Prof, ECE
Mrs. Pratheksha Rai N, Asst Prof, ECE
Mr. Raghavendra Havaladar, Asst Prof, ECE
Mrs. Sahana Adyanthaya, Asst Prof, ECE




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Principal

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

CC to:

1. President, LMET
2. Vice President, LMET



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Department of Electronics and Communication Engineering

Attendance List

| Sl No. | USN | Name | Sign |
|--------|------------|---------------------------|------|
| 1. | 4JK16EC024 | Rajesh | |
| 2. | 4JK17EC002 | Abdul Rashid Sinan C U | |
| 3. | 4JK17EC003 | Adarsh Kumar Gatti | |
| 4. | 4JK17EC004 | Aneesh K | |
| 5. | 4JK17EC005 | Anumol Sajan | |
| 6. | 4JK17EC006 | Anupama K | |
| 7. | 4JK17EC007 | Ashika U C S | |
| 8. | 4JK17EC008 | Chaithra | |
| 9. | 4JK17EC010 | Lekha R Poojary | |
| 10. | 4JK17EC011 | Macquin santhmayor | |
| 11. | 4JK17EC012 | Madhusudhan A S | |
| 12. | 4JK17EC013 | Manishraj | |
| 13. | 4JK17EC016 | Mohammed Sadaf | |
| 14. | 4JK17EC020 | Nandini G | |
| 15. | 4JK17EC022 | Nidhi B L | |
| 16. | 4JK17EC023 | Nikitha V S | |
| 17. | 4JK17EC024 | Nishmitha | |
| 18. | 4JK17EC025 | Prasanna Kumar P | |
| 19. | 4JK17EC026 | Roshan Preetham Crasta A. | |
| 20. | 4JK17EC028 | Sheetal Adappa | |
| 21. | 4JK17EC029 | Shivarama Somayaji | |
| 22. | 4JK17EC030 | Shreeja | |
| 23. | 4JK17EC031 | Shubham | |
| 24. | 4JK17EC032 | Sinju Varghese | |
| 25. | 4JK17EC033 | Sneha Anil Kumar C T | |
| 26. | 4JK17EC034 | Sowmya | |
| 27. | 4JK17EC035 | Swasthik | |

Principal

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