



# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001:2015 certified Institution



Date: 10.05.2018

Lr.No. RIT/Mech/II Sem/Industrial Visit/2017-18/01

To  
The President  
The Ramco Cements limited  
R.R.Nagar  
Virudhunagar – 626204.

Dear sir,

**Sub: Permission for Industrial Visit – I year MECH (Section A&B - 110 students)  
and Civil Engineering (52 students) – 6 Faculty Members – Reg.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few Industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

In this content, we would like to send two batches of about 162 students of I year B.E. Mechanical and Civil engineering accompanied by six faculty members to visit your esteemed industry preferably on 29.05.2018 (Tuesday).

I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

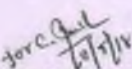
We assure you that our students will observe the rules and regulations that are prescribed by your industry for the visitors and will in no way disturb the functioning of the industry during their visit.

We shall be grateful to you for a favorable response. Herewith we have furnished the list of students and accompanying faculty.

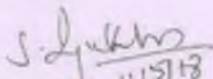
Thanking You,

Yours Faithfully

  
HoD/Mechanical

  
HoD/Civil



  
Principal

North Venganallur, Rajapalayam – 626 117, Tamil Nadu.

Tel : 04563 233400, 233410; Fax : 233499

e-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in



## CERTIFICATE OF INTERNSHIP

This is to certify that **Mr. M.N. Shiva Surya Vignesh, 953615103047** of **Ramco Institute of Technology, Rajapalayam** underwent an internship at Transportation Engineering Division, Department of Civil Engineering, IIT Madras, Chennai 600036 for five weeks starting from 28<sup>th</sup> May 2018. He was assigned the work of Pedestrian Safety Assessment and Analysis. He did a very good work and developed useful data compilation. I wish him all the best.

Dr. S. ARUL JAYACHANDRAN  
Associate Professor  
Department of Civil Engineering  
Indian Institute of Technology Madras  
Chennai - 600 036, INDIA

S. ARUL JAYACHANDRAN PROFESSOR, IIT MADRAS, CHENNAI  
6<sup>TH</sup> JULY 2018

March 27, 2018

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms.Muthulakshmi M**, Final year B.E [CSE] student of Ramco Institute of Technology, has successfully completed her internship program with Solartis Technology Services Pvt. Ltd., during the period **January-2018 to March-2018**.

**For Solartis Technology Services Private Limited**



**Sunil, N**  
**General Manager – Human Resource**

March 27, 2018

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms.Srijanani K J**, Final year B.E [CSE] student of Ramco Institute of Technology, has successfully completed her internship program with Solartis Technology Services Pvt. Ltd., during the period **January-2018 to March-2018**.

For Solartis Technology Services Private Limited

  
**Sunil, N**  
General Manager – Human Resource

March 27, 2018

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms.Renuka M**, Final year B.E [CSE] student of Ramco Institute of Technology, has successfully completed her internship program with Solartis Technology Services Pvt. Ltd., during the period **January-2018 to March-2018**.

**For Solartis Technology Services Private Limited**

  
**Sunil. N**

**General Manager – Human Resource**

March 27, 2018

**TO WHOM IT MAY CONCERN**

This is to certify that **Ms.Vijaya Nandhini V**, Final year B.E [CSE] student of Ramco Institute of Technology, has successfully completed her internship program with Solartis Technology Services Pvt. Ltd., during the period **January-2018 to March-2018**.

**For Solartis Technology Services Private Limited**



**Sunil. N**  
**General Manager – Human Resource**



ENTHU Technology SOLUTIONS

INDIA PVT LTD

Development | Support | Training

Ref: ETS/Internship/17-18/Mar/69

24-03-2018

To

M.Kokila

Department of Electronics and Communication Engineering

Ramco Institute of Technology,

Rajapalayam-626 117.

Dear Ms.Kokila,

**Sub:** Letter for Internship.

This is to inform that you have attended an Internship Program offered by Enthu Technology Solutions India Pvt Ltd-Colombatore during 25-December-2017 to 24-March-2018 (3 Months) on Topic "Smart Health Monitoring system In intensive care unit using Bluetooth Low Energy technology and message queuing telemetry transport". During the Program our Trainers have observed your Skills on Python Programming were Excellent.

All the Best!

Thanks and Regards

Rathinasamy K.S

Training Manager

[ksr@enthutech.in](mailto:ksr@enthutech.in)





**ENTHU TECHNOLOGY SOLUTIONS**  
**INDIA PVT LTD**  
Development | Support | Training

Ref: ETS/Internship/17-18/Mar/70

24-03-2018

To

J.B. Anu Selvamathi  
Department of Electronics and Communication Engineering  
Ramco Institute of Technology,  
Rajapalayam-626 117.

Dear Ms.Anu Selvamathi,

**Sub:** Letter for Internship.

This is to inform that you have attended an Internship Program offered by Enthi Technology Solutions India Pvt Ltd-Coimbatore during 25<sup>th</sup> December 2017 on 24<sup>th</sup> March 2018 (3 Months) Topic "Smart Health Monitoring system in intensive care unit using Bluetooth Low Energy technology and message queuing telemetry transport". During the Program our Trainers have observed your Skills on Python Programming were Excellent.

All the Best!

Thanks and Regards

Rathinasamy K.S

Training Manager

[ksr@enthutech.in](mailto:ksr@enthutech.in)





**ENTHU TECHNOLOGY SOLUTIONS**  
**INDIA PVT LTD**  
Development | Support | Training

Ref: ETS/Internship/17-18/Mar/68

24-03-2018

To

V.Gobiya  
Department of Electronics and Communication Engineering  
Ramco Institute of Technology,  
Rajapalayam-626 117.

Dear Ms.Gobiya,

Sub: Letter for Internship.

This is to inform that you have attended an Internship Program offered by EnthU Technology Solutions India Pvt Ltd-Coimbatore during 25-December-2017 to 24-March-2018 (3 Months) on Topic "Smart Health Monitoring system in intensive care unit using Bluetooth Low Energy technology and message queuing telemetry transport". During the Program our Trainers have observed your Skills on Python Programming were Excellent.

All the Best!

Thanks and Regards

Rathinasamy.K.S

Training Manager

[ksr@enthutech.in](mailto:ksr@enthutech.in)





ENTHU TECHNOLOGY SOLUTIONS

INDIA PVT LTD

Development | Support | Training

Ref: ETS/Internship/17-18/Mar/67

24-03-2018

To

A.Jeya Lakshmi  
Department of Electronics and Communication Engineering  
RamcoInstitute of Technology,  
Rajapalayam-626 117.

Dear Ms.Jeya Lakshmi,

**Sub:** Letter for Internship.

This is to inform that you have attended an Internship Program offered by Enthu Technology Solutions India Pvt Ltd-Coimbatore during 25-December-2017 to 24-March-2018 (3 Months) on Topic "**Smart City Based on Lora-Waste Management**". During the Program our Trainers have observed your Skills on C Programming were Excellent.

All the Best!

Thanks and Regards

Rathinasamy.K.S

Training Manager

[ksr@enthutech.in](mailto:ksr@enthutech.in)





ENTHU TECHNOLOGY SOLUTIONS  
INDIA PVT LTD  
Development | Support | Training

Ref: ETS/Internship/17-18/Mar/65

24-03-2018

To

G.Koushika  
Department of Electronics and Communication Engineering  
Ramco Institute of Technology,  
Rajapalayam-626 117.

Dear Ms.Koushika,

Sub: Letter for Internship.

This is to inform that you have attended an Internship Program offered by Enthi Technology Solutions India Pvt Ltd-Coimbatore during 25-December-2017 to 24-March-2018 (3 Months) on Topic "Smart City Based on Lora-Waste Management". During the Program our Trainers have observed your Skills on C programming were Excellent.

All the Best!

Thanks and Regards

Rathinasamy.K.S

Training Manager

[ksr@enthutech.in](mailto:ksr@enthutech.in)




**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Chemistry**  
**Academic Year: 2017 - 2018 (Even Semester)**

RIT/ Chemistry / Field Study /03

Date: 09.03.18

**CIRCULAR**

A field study is planned to Aravindh Herbal Private Limited, Rajapalayam for II year Mechanical Engineering A & B section students for the subject Environmental Science and Engineering (GE6351) for Unit -3 Natural Resources. This field study covers the importance of natural resources and their impact of overutilization on environment. The field trip will help the students to understand the worth of environmental assets in terms of natural resources.

Sl.No.	Branch/ Semester	Date/Hour	Name of the Faculty member	Signature
1.	II Mechanical 'A & B' / IV	10.03.18/VII (3.00 - 4.00 pm)	Dr. G. Kanthimathi & Mrs. N. Revathi	

Place: Aravindh Herbal Private Limited, Rajapalayam.

  
HOD

Copies to:

Department HOD  
Class Advisor  
File

  
10/03/18

**RAMCO INSTITUTE OF TECHNOLOGY**



**FIELD TRIP: ARAVIND HERBALS,  
RAJAPALAYAM.**

Phone:04563-233300,233320, E-Mail  
ID:info@aravindhherbal.com

**DATE: 10-03-2018**

**TIME: 3:00PM- 4:30 PM**

**ABOUT: NATURAL RESOURCES**

**SUBMITTED BY:**

**MUHAMED ISMAIL BUHARIA  
MUTHUKUMAR.P  
II YR MECHANICAL ENGINEERING  
RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM.**

## About :

Aravindh Herbal Labs (P) Limited is a reputed manufacturer of Indian traditional medicines of Siddha, Ayurveda. Founded in 1992 by Dr.P.Rajalingam, a traditional medicinal practitioner, Aravindh Herbal functions with the AHA mission of producing “Affordable, Holistic healthcare products for All”.

They produce over 300 Siddha and Ayurvedic, personal care, home remedy, health food & nutrition products, and traditional lifestyle products from our manufacturing unit in Rajapalayam, Tamil Nadu. Rheumatigo Oil , a herbal product for joint pains, rheumatism, accumulation of tissues, and arthritis, Hybiscus Herbal Tonic, a hair oil made of hibiscus, Kadukkai Legiyam, drug to cure constipation, gas troubles, and ulcer, and Gold Pills, a herbal drug for vitality and sexual vigour, and Aravindh Herbal Drink, a herbal drink, as a substitute for tea/coffee, are among the flagship products of our company.



Our country India is a mega biodiversity country blessed with a variety of Flora and Fauna occupying the 10<sup>th</sup> position in the world. Natural resources are the

## List of plants used in herbalism:

The ability to synthesize a wide variety of chemical compounds that are used to perform important biological functions, and to defend against attack from predators such as insects, fungi and herbivorous mammals is called herbal medicine. Many of these phytochemicals have beneficial effects on long-term health when consumed by humans, and can be used to effectively treat human diseases. At least 12,000 such compounds have been isolated so far; a number estimated to be less than 10% of the total



Scientific name	Name	Description
<u><i>Azadirachta indica</i></u>	<u>Neem</u>	Used in India to treat worms, <u>malaria</u> , <u>rheumatism</u> and <u>skin infections</u> among many other things. Its many uses have led to neem being called "the village dispensary" in India.

sources useful to man and are transformed into useful products. They are classified into:

- 1) Renewable Resources – Resources which can be regenerated within a time period. Eg: Air, water
- 2) Non Renewable Resources- Resources which cannot be regenerated within a time period. Eg: Minerals, Natural Gas

### **Herbs cultivated:**

Ayurveda and Siddha product are prepared using medicinal plants, trees, herbs - apart from inorganic substances and animal products. Hence these traditional drugs are classified into three groups: thavara (herbal products), thadhu (inorganic substances) and jangamam (animal products).



Run by a team of qualified professionals, the two key business functions of our company are: quality management and corporate social responsibility. Quality is the backbone of their success – they incorporate adequate layers of quality control to eliminate, dust, fungus and other foreign materials from our raw material before manufacturing. They follow Good Manufacturing Process and adhere to various quality best practices in manufacturing, and packaging. They have a full-fledged Quality Lab to conduct all statutory and mandatory tests on raw materials and drugs.

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Scientific name	Name	Description
<u><i>Capsicum frutescens</i></u>	Chili	Its active ingredient, <u>capsaicine</u> , is the basic of commercial pain-relief ointments in Western medicine. The low incidence of <u>heart attack</u> in Thais may be related to capsaicine's <u>fibronolytic action</u> (dissolving blood clots).
<u><i>Carica papaya</i></u>	Papaya	Used for treating wounds.
<u><i>Eucalyptus alobulus</i></u>	<u>Eucalyptus</u>	Leaves were widely used in traditional medicine as a <u>febrifuge</u> . <sup>[22]</sup> Eucalyptus oil is commonly used in <u>over-the-counter</u> cough and cold medications, as well as for an <u>analgesic</u> . <sup>[22]</sup>
<u><i>Morinda oleifera</i></u>	Drumstick tree	It is used for food and traditional medicine. It is undergoing preliminary research to investigate potential properties of its nutrients and phytochemicals



<u>Nelumbo nucifera</u>	<u>Lotus</u>	Sacred lotus has been the subject of a number of in-vitro and animal studies, exploring its pharmacologic effects, including antioxidant, hepatoprotective, immunomodulatory, anti-infective, hyperlipidemic, and psychopharmacologic activity <sup>[22]</sup> although clinical trials are lacking.
<u>Salix alba</u>	<u>White willow</u>	Plant source of <u>salicylic acid</u> . white willow is like the chemical known as <u>aspirin</u> , although more likely to cause <u>stomach upset</u> as a <u>side effect</u> than <u>aspirin</u> itself which can cause the lining in your stomach to be destroyed. Used from ancient times for the same uses as <u>aspirin</u> . <sup>[144]</sup>



### Conclusion:

We learnt about the different varieties of herbals, plants and their uses in medicinal fields to prevent our body from various diseases . They suggested different ways of food habits and taught us about the importance of yoga to keep our body fit and healthy. They also requested us to avoid junk foods and

told us about their ill effects in our body. Finally we got to know about the process recycling water resources.



Chain and food web existing in the area

3. Field study of local polluted sites- Urban/Rural/Industrial/Agricultural on 26-03-18

This field study covers the topics of Causes of water, soil pollution and sewage water treatment. The students observed the primary and secondary treatment of waste water treatment.

local area to document environmental assets-

Field Trip - Waste  
Water  
Management.

Environmental Science and  
Engineering.

## Field trip to Waste Water Treatment System in our College campus.

### Introduction:-

Based on EVS subject, visualization of such item is more convenient for understanding the subject. Like that, Our faculty also arrange to visit waste water-treatment system in our college campus. That was very interesting and useful to understand the concept of the body of the subject.

### Objectives of Waste water treatment :-

The main objective of waste water treatment are,

- i) to convert harmful compounds into harmless compounds.
- ii) to eliminate the offensive smell
- iii) to remove the solid content of the Sewage.
- iv) to destroy the disease producing microorganism.

## Treatment process:-

The sewage (or) waste water treatment process involves the following steps.

1. Preliminary Treatment
2. Primary Treatment (or) Settling process
3. Secondary Treatment (or) Biological Treatment
4. Tertiary treatment
5. Disposal of Sludge.

### 1. Preliminary Treatment:-

In this treatment, coarse solids and suspended impurities are removed by passing the waste water through bar and mesh screens.

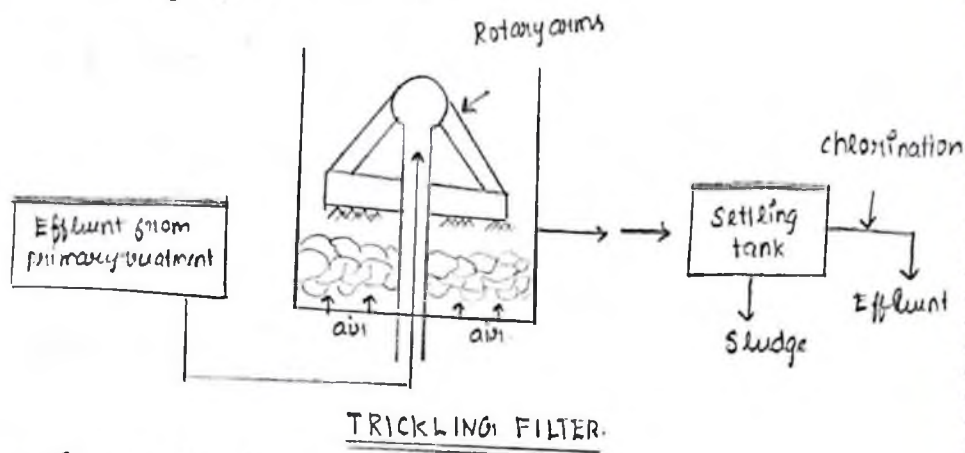
### 2. Primary Treatment (or) Settling process:-

In this treatment, greater proportion of the suspended inorganic and organic solids are removed from the liquid sewage by settling.

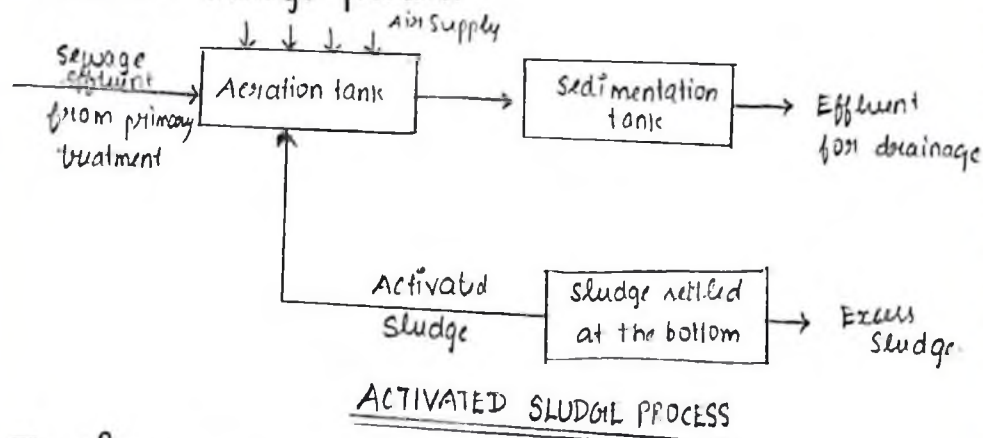


3. Secondary Treatment:-

a. Trickling filter process:-



b. Activated sludge process:-



4. Tertiary Treatment:-

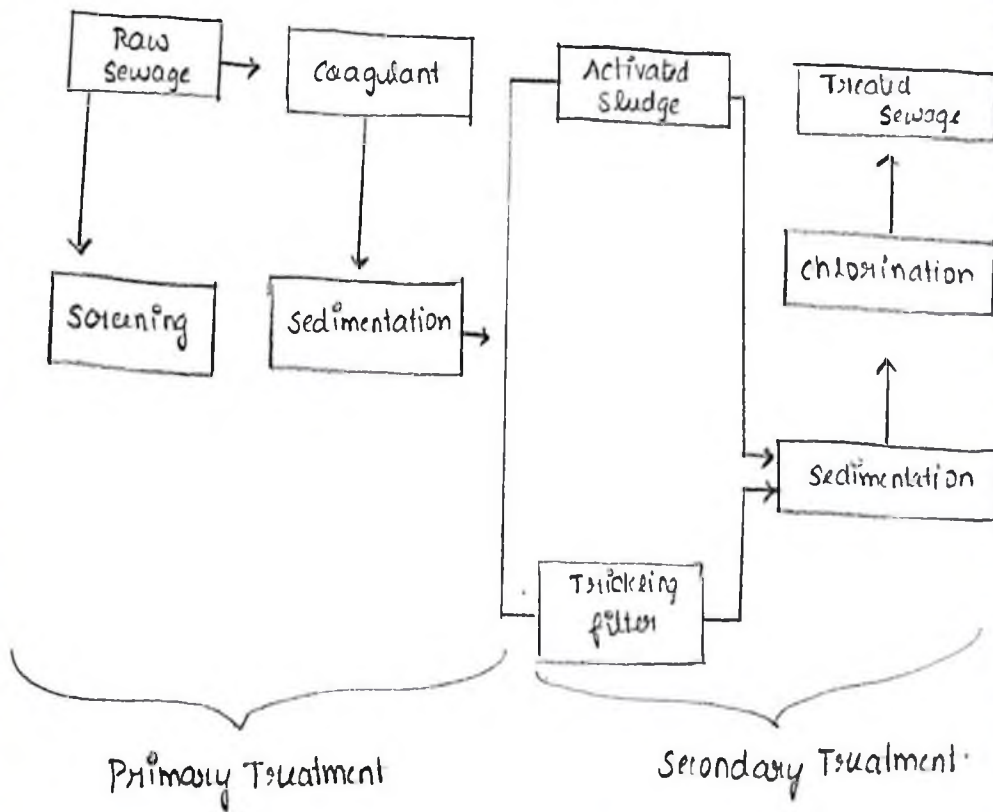
After the secondary treatment, the sewage effluent has a lower 'BOD (25 ppm), which can be removed by the tertiary treatment process.

### Disposal of Sludge:-

This is the last stage in the treatment.

- \* dumping into low-lying areas
- \* burning of sludge (incineration),
- \* dumping into the sea,
- \* using it as low grade fertilizer.

### The flow chart diagram of Sewage treatment :-



### Field Study Planned :

1. Field study of common plants, insects, birds on 17.02.18

This field study covers the topics of terrestrial ecosystem. Students understood the importance of producers, consumers and decomposers. They also learnt the functions of an ecosystem such as food chain, food web, energy flow and nutrient cycle.

2. Field study of simple ecosystems-pond, river, hill slopes etc., on 17.02.18

This field study covers the topics of an aquatic ecosystem. They observed the phytoplankton, zooplankton, water flies larva, etc., They also understood about the various food chain and food web existing in the aquatic ecosystem.

... .. Industrial/Agricultural on 26.03.18

# FIELD TRIP REPORT



Prepared by,  
T.Senthamoorthy  
9536 17105 041  
I<sup>St</sup> yr - EEE

## Field trip report

Our first field trip was filled with both captivating views and significant information of plant life. Although we are studying in our college visiting there was a first time experience for me and my classmates. It was definitely an awesome opportunity to be able to learn about the native and tropical beauty of our college. We learned about the botanical research was its sustainability and environmental - friendly design.

Although the view of the outside of our college was definitely a pleasing sight to see. When we were on the field trip we were able to view a few of the specimen for storage.



At there we saw many kind of plants. we got to learn about many different plants at our field trip. I thought that over all it was very educational and a lot of fun. My reaction to the field trip was that it was a productive way to spend our time. Although that it was an educational field trip, I feel like there were a lot of laughs involved. I really enjoyed seeing all the structures. It was definitely a lot of walking around but it was worth getting to see the different flora and learning more about plants that I ever thought that I could. Enjoy one of our field trips. We spend nearly 50 minutes exploring the seasonal wonders of the garden with our classmates. Students have interest to communicate with others. They like to share many things. Students know about the different species.



conclusion :

They hear about the protection of endangered botanical plants. Field trip is an important part of education. Students can keep clear concept by touching and looking. It provides better understanding. Also there forms co-operation among the students. It is better to make a trip to the backyard. Student can keep clear concept by touching and looking. It provides better understanding.

I have to thank the faculty members of chemistry department. To organise a field trip for us. At last we took a group photo in the field trip. I also enclosed the photocopies in this report.





**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Chemistry**  
**Academic Year: 2017 - 2018 (Even Semester)**

RIT/ Chemistry / Field Study /02

Date: 07.02.18

**CIRCULAR**

A field study will be conducted for II year Mechanical Engineering A & B students for the subject Environmental Science and Engineering (GE6351) for Unit -2 Environmental Pollution. This field study covers the topics of causes of water and soil pollution and sewage water treatment. It makes the students to understand the various causes, effect and control measures of water and soil pollution.

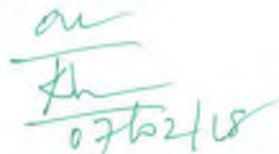
Sl.No.	Branch	Date/Hour	Name of the Faculty member	Signature
1.	II Mech 'A'	10.02.18/V	Dr. G. Kanthimathi	
2.	II Mech 'B'	10.02.18/IV	Mrs. N. Revathi	

Place: Sewage water treatment plant in our campus.

  
HOD

Copies to:

Department HOD  
Class Advisor  
File

  
07/02/18

REPORT ON FIELD TRIP.

SUBMITTED BY

M. ARVIND.

II yr. Mechanical, Engg 'A'



\* Students watching the treatment process.

→ Enzymes are also added with the disinfectious

bacteria.

→ But our college sewage plant has so heavy machines  
can be spread at ease.

→ 100 grams of disinfectious bacteria is used to clean  
1000 liters of sewage water

→ The process is observed by the students in the  
top of aeration tank.



The treated water tank measures upto  $4\text{m} \times 9.5\text{m} \times 4\text{m}$  and can hold upto 60000 liters of water at once. The water in the above picture is the drainage water. It is treated to 60% of its original and the treated water is used for gardening purposes.



\* Guide is explaining about the treatment process.

Students were standing on the top of the treatment tank. The dark coloured, bad, odored sewage water from various outlets such as toilets, kitchens and lab water, are combined in this sewage tank.

Guide is briefly explaining about the process happening in the treatment were to make it without impurities.



Before the settling tank the sewage water is collected in the raw sewage collecting tank whose size and capacity is  $6m \times 4.5m \times 3.5m$  &  $94500$  litres respectively. It is treated and then sent to the settling tank for further treatment.



→ Sewage tank collects the waste water from various places in hostel and college. It's size is about to hold 10000 liters and can clean 10000 liters of water per day.

→ After the water (waste) is treated with enzymes and bacteria it is sent to treated tank.



**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Chemistry**  
**Academic Year: 2017 - 2018 (Even Semester)**

RIT/ Chemistry / Field Study /01

Date: 09.01.18

**CIRCULAR**

A field study will be conducted for II year Mechanical Engineering A & B students for the subject Environmental Science and Engineering (GE6351) for Unit -I Environment, Ecosystem and Biodiversity. This field study covers the topic terrestrial ecosystem. It makes the students to understand importance of producers, consumers and decomposers. They also understand the functions of ecosystem such as food chain, food web, energy flow and nutrient cycle.

Sl.No.	Branch	Date / Hour	Name of the Faculty member	Signature
1.	II Year Mechanical Engineering 'A'	10.01.18/II	Dr. G. Kanthimathi	
2.	II Year Mechanical Engineering 'B'	10.01.18/VI	Mrs. N. Revathi	

Place - In and around  
Campus, Bus shed.

  
HOD 9/1/18

Copies to:

Department HOD  
Class Advisor  
File

  
09/01/18

**RAMCO INSTITUTE OF TECHNOLOGY**

**RAJAPALAYAM – 626 117**

**(Department of Mechanical Engineering)**



***Field trip report of II Year Mechanical Engineering- 'A'***

**Date of Visit:** 10-Jan-2018

**Place of Visit:** College Premises.

**Submitted by,**

N.Kabilasudhan

(953616114029)

## **Field-Trip Report**

As a part of interactive learning, the students of II-Mech-A were planned to be taken to the field study to explore the nore of the Environmental science. On receiving permission from the Principal, the students were taken around the college premises by the faculty in-charge, Dr.G.Kanthimathi on 10.01.2018 around 10 a.m.

The tutor explained the purpose of the trip clearly and also related as many theoretical concepts taught in the class with the live practical examples available in the locality.



The different types of lives present in the environment were observed right from the producers to the primary and secondary consumers. The Nutrient cycle in the grassland was lively explained with the natural examples. The teacher also listed out the varieties of plants available in the ground with their specialties and economic importance. She also insisted the necessity of preserving natural resources.



The behavior of the animals and insects with the changes in the climatic conditions were discussed. The dragon flies and their role in the environment was described.

The 1-hour short trip not only helped us with the studies, but also taught us to observe and enjoy the beauty of the nature and its myths. It was a nice experience to look at the daily scenario from the different perspective.

The trip came to an end by 10:40 a.m. The students found the trip useful and we expect more activities regarding the subject in the future. We thank our Environmental Science teacher, Dr.G.Kanthimathi for her efforts in arranging the field study and leading the students to gather utmost information.

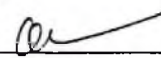
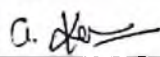
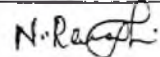
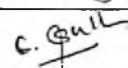
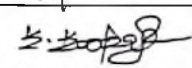
RAMCO INSTITUTE OF TECHNOLOGY  
Department of Chemistry  
Academic Year: 2017 - 2018 (ODD Semester)

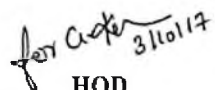
RIT/ Chemistry / Field Study /03

Date: 03.10.17

CIRCULAR

A field study will be conducted for II year Civil, CSE, EEE and III ECE A & B students for the subject Environmental Science and Engineering (GE6351) for Unit -3 Natural Resources. This field study covers the importance of natural resources and their impact of overutilization on environment. It makes the students to understand the worth of environmental assets in terms of natural resources.

Sl.No.	Branch	Date	Name of the Faculty member	Signature
1.	III ECE B	05.10.17	Ms. R. Chithradevi	
2.	III ECE A	06.10.17	Dr. G. Kanthimathi	
3.	II CSE	06.10.17	Mrs. N. Revathi	
4.	II Civil	06.10.17	Mrs. C. Subha	
5.	II EEE	06.07.17	Mr.K. Karpagavel	

  
for order 3/10/17.  
HOD

Copies to:

Department HOD  
Class Advisor  
File





**RAMCO INSTITUTE OF TECHNOLOGY**  
**RAJAPALYAM-626117**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Course:** Environmental Science and Engineering  
**Course code:** GE6351  
**Topic:** Field visit report  
**Date:** 6-Oct-2017

**Submitted to:** Ms.N.Revathi  
**Submitted by:** K.Srinithisivasankari  
**Department:** II year CSE  
**Regno:** 953616104051

### Contents:

- + Introduction
- + Details of the flora seen
- + Conclusion

### Introduction

This report contains the details of the field visit by the II year CSE conducted by the faculty Ms.N.Revathi on 4-Oct-2017. It contains the details of the flora which were seen by the students. It also contains extra inputs which were given by the faculty in charge on the flora present.

### Details of the flora seen

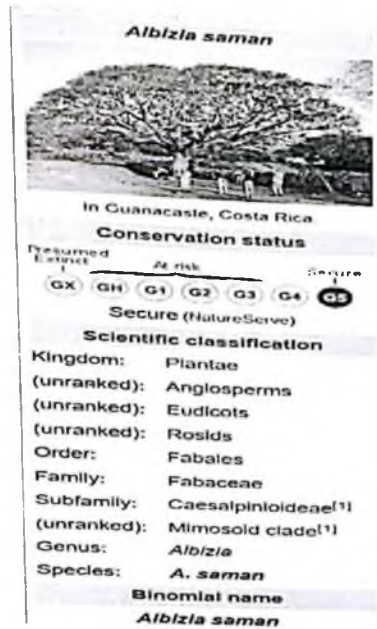
#### Neem:



#### Uses:

The tender shoots and flowers of the neem tree are eaten as a vegetable in India. A soup like dish called Veppampoo charu (Tamil) (translated as "neem flower rasam") made of the flower of neem is prepared in Tamil Nadu. Products made from neem trees have been used in India for over two millennia for their medicinal properties. Traditionally, slender neem twigs (called datun) are first chewed as a toothbrush and then split as a tongue cleaner. This practice has been in use in India, Africa, and the Middle East for centuries.

## Rain tree:



## Uses:

According to a research conducted at the School of Forestry of the Bogor Agricultural Institute, Indonesia, a mature tree with a crown diameter measuring 15 meters absorbed 28.5 tons of CO<sub>2</sub> annually. The trees have been planted in cities of Kudus and Demak and also will be planted along the shoulder of the road from Semarang to Losari.

## Conclusion:

Thus the above report contains the details of the flora which were seen and studied by the second year CSE. On the whole the field visit was very interesting and we learnt a lot from it.




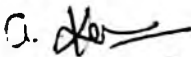
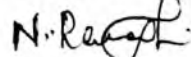
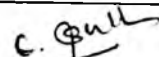
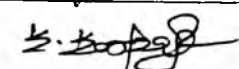
**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Chemistry**  
**Academic Year: 2017 - 2018 (ODD Semester)**

RIT/ Chemistry / Field Study /03

Date: 03.10.17

**CIRCULAR**

A field study will be conducted for II year Civil, CSE, EEE and III ECE A & B students for the subject Environmental Science and Engineering (GE6351) for Unit -3 Natural Resources. This field study covers the importance of natural resources and their impact of overutilization on environment. It makes the students to understand the worth of environmental assets in terms of natural resources.

Sl.No.	Branch	Date	Name of the Faculty member	Signature
1.	III ECE B	05.10.17	Ms. R. Chithradevi	
2.	III ECE A	06.10.17	Dr. G. Kanthimathi	
3.	II CSE	06.10.17	Mrs. N. Revathi	
4.	II Civil	06.10.17	Mrs. C. Subha	
5.	II EEE	06.07.17	Mr.K. Karpagavel	

*for order*  
31/10/17  
**HOD**

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Class Advisor  
File



# Field Visit Report - 3

## Introduction

On 5.10.17 we have gone for field visit to see the natural resources. We were taken to the field visit by Ms. R. Chithra Devi.

## Details of field visit

The field visit was conducted to understand the values of medicinal plants, and the reason to preserve the nature.

We were taken to the garden near to our college. There we have seen Amla tree, Mango tree. The following uses and medicinal values of Amla tree was well explained by our faculty.

### Benefits of Amla:

- It is the excellent source of vitamin C
- Amla juice is the best tonic to make you young longer.
- It is the integral component of Triphala an ayurvedic formulation, which is used to cure many

diseases.

Next we have seen and about discussed the uses and values of hibiscus plant. Then the faculty explained the uses and values of hibiscus. Hibiscus was an ornamental plant and it also reduces body heat and cures several problems in our body. It regulates the body temperature.

Conclusion :

Thus the field visit was conducted to explain us about the values and uses of plants, in many ways. This insist us to protect the nature.

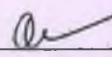
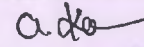
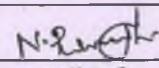
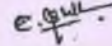
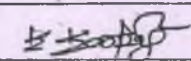
**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Chemistry**  
**Academic Year: 2017 - 2018 (ODD Semester)**

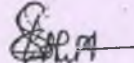
RIT/ Chemistry / Field Study /02

Date: 07.08.17

**CIRCULAR**

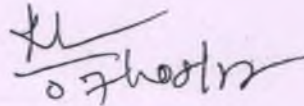
A field study will be conducted for II year Civil, CSE, EEE and III ECE A & B students for the subject Environmental Science and Engineering (GE6351) for Unit -2 Environmental Pollution. This field study covers the topics of causes of water and soil pollution and sewage water treatment. It makes the students to understand the various causes, effect and control measures of water and soil pollution and also the process involved in sewage water treatment.

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4.	II Civil	11.08.17	Mrs. C. Subha	
5.	II EEE	11.08.17	Mr. K. Karpagavel	

  
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# FIELD REPORT

- SEWAGE TREATMENT PLANT

DATE: 11/08/2017

TIME: 3-4 pm

SUBMITTED BY,

R.HEMA KARTHIKA

II YR (B.E.CIVIL)

11/8/17 - 6th period

## INTRODUCTION

A report has been written about the field visit to the sewage treatment plant which is located within the college campus. The report consists of the details of the sewage treatment plant, manufacture of manure and recycling of water.

## LOCATION DETAILS

The sewage treatment plant is located near the main block which is opposite to the girls hostel. The tank is connected to the girls hostel, boys hostel, main block and the auditorium through the underground pipe lines.

The sewage treatment plant contains two tanks one flocculation tank and one sedimentation tank. It is also run by a series of generators. The actual height of the tank is 3.5 to 4 m. The sewage from the urinals and the other wastes are collected

regularly. In the flocculation tank the solid wastes are chopped into small particles and anaerobic bacteria is allowed to act on it.

#### MANUFACTURE OF MANURE

The wastes from the first tank is sent into the second sedimentation tank, the particles are allowed to settle down and the settled down particles are collected and dried for a period of time. The slurry is completely free from water. The particles are used as manure for the plants which are grown in the garden. The by-product also act as low grade fertilizers.

#### WATER RECYCLING

The waste water is recycled and treated with certain chemicals like chlorides, alum, etc.

The odour of the waste water is also removed as the particles are removed. The water is recycled and used for gardening purposes.

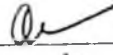
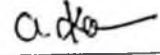
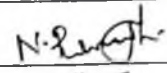
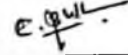
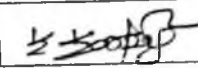
RAMCO INSTITUTE OF TECHNOLOGY  
Department of Chemistry  
Academic Year: 2017 - 2018 (ODD Semester)

RIT/ Chemistry / Field Study /02

Date: 07.08.17

CIRCULAR

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5.	II EEE	11.08.17	Mr. K. Karpagavel	

  
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A Field Study  
Report  
on  
Waste Water Treatment .

G. Priram  
II year - CSE

## Field study on waste water Treatment.

We went to field study on waste water treatment, the waste water plant is located at the backside of our college. 51 members from our class went to visit the plant.

It is huge plant which contains a large tank in the ground and the tank contains the waste water. The water consumed by us are sent to this tank for purifying and retreating the waste water. It consist of a huge motor which is frequently running. This is the first process or the first step of the treatment. Then another tank is built in some height. After the water is treated in the first tank it is sent directly to the second tank. In this tank for purifying the water some pollutant free agents are added which helps in the growth of microorganisms which purifies the

water. The Agents added are jaggery etc.  
It results in the growth of micro organisms and  
the microorganisms present purifies and removes  
the pollutant from the water.

Now the water is sent to another tank  
Here the water gets almost purified and  
kept stagnant but in the before steps it  
is always generated by the motor but in  
step it is kept always constant and  
stagnant and this water is let out through  
the pipe.

The waste removed from the water is  
as sludge and is dried in the sun  
and is used as some pesticide or fertilizer  
The process is repeated again and again

I am A. Ariyancuyargam, studying in II year CSE  
our college. Here I am going to write the field  
study report that we had made with our classmates  
and Revathi mam for Environmental Science and Engineering  
subject, for studying the process involved in waste  
water (sewage) treatment plant which is installed in  
our RIT campus. It is very an. useful one. We, our  
classmates and mam have started our trip from  
our college and within 10 minutes we reached  
the spot. There, the surrounding was noise, and  
plants also were there. The mam guided us to  
the treatment plant, first of all, we see the  
separation of solid wastes, then aeration process  
in which air is pumped and our mam  
explained it very clearly. It is very useful for  
us to understand practically rather than

studying the book (or) seeing any videos.

The chemistry lab technician Sir. Mr. Muniswaran

had taken some pictures of us for filing

purposes. The mam explained from the start

process upto the last process in which water

that has been recycled is obtained. It is very

one like our previous field study on ecology.

I thanked our college management for this opp.

And I request them to continue this process for

the purpose of explaining and to give the

students, the exposure of the ~~st~~ surrounding

and process involved in all studies.

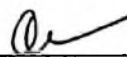
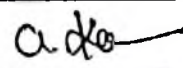
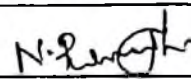
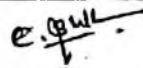
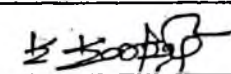
**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Chemistry**  
**Academic Year: 2017 - 2018 (ODD Semester)**

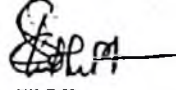
RIT/ Chemistry / Field Study /02

Date: 07.08.17

**CIRCULAR**

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5.	II EEE	11.08.17	Mr. K. Karpagavel	

  
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## **FIELD VISIT REPORT**

On 8<sup>th</sup> of August 2017, we were taken to the field visit of Sewage Treatment Plant (STP) in our college. There we learnt about how sewage water is being recycled and reused. This is the most efficient way of using water. At first sewage water is led through pipes and is collected in aeration tank, where sludge is added to the sewage effluent. Then agar media and jaggery are added for the growth of aerobic bacteria. These aerobic bacteria are responsible for decomposing organic impurities. This whole process is called aerobic oxidation. This process removes 90-95% of BOD. After this these wastes are carried to the sedimentation tank. In that, sludge is settled down. The supernatant is further processed and purified. It cannot be used for drinking purposes but instead used for gardening and other purposes.

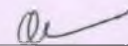
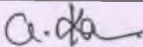
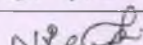
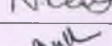
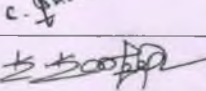
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
RIT/ Chemistry/ Field Study /01

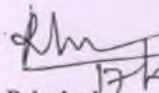
Date: 15.07.17

**CIRCULAR**

A field study will be conducted for II year Civil, CSE, EEE and III year ECE A & B students for the subject Environmental Science and Engineering (GE6351) for Unit -1 Environment, Ecosystem and Biodiversity. This field study covers the topic of terrestrial ecosystem. It makes the students to understand importance of producers, consumers and decomposers. They also understand the functions of ecosystem such as food chain, food web, energy flow and nutrient cycle.

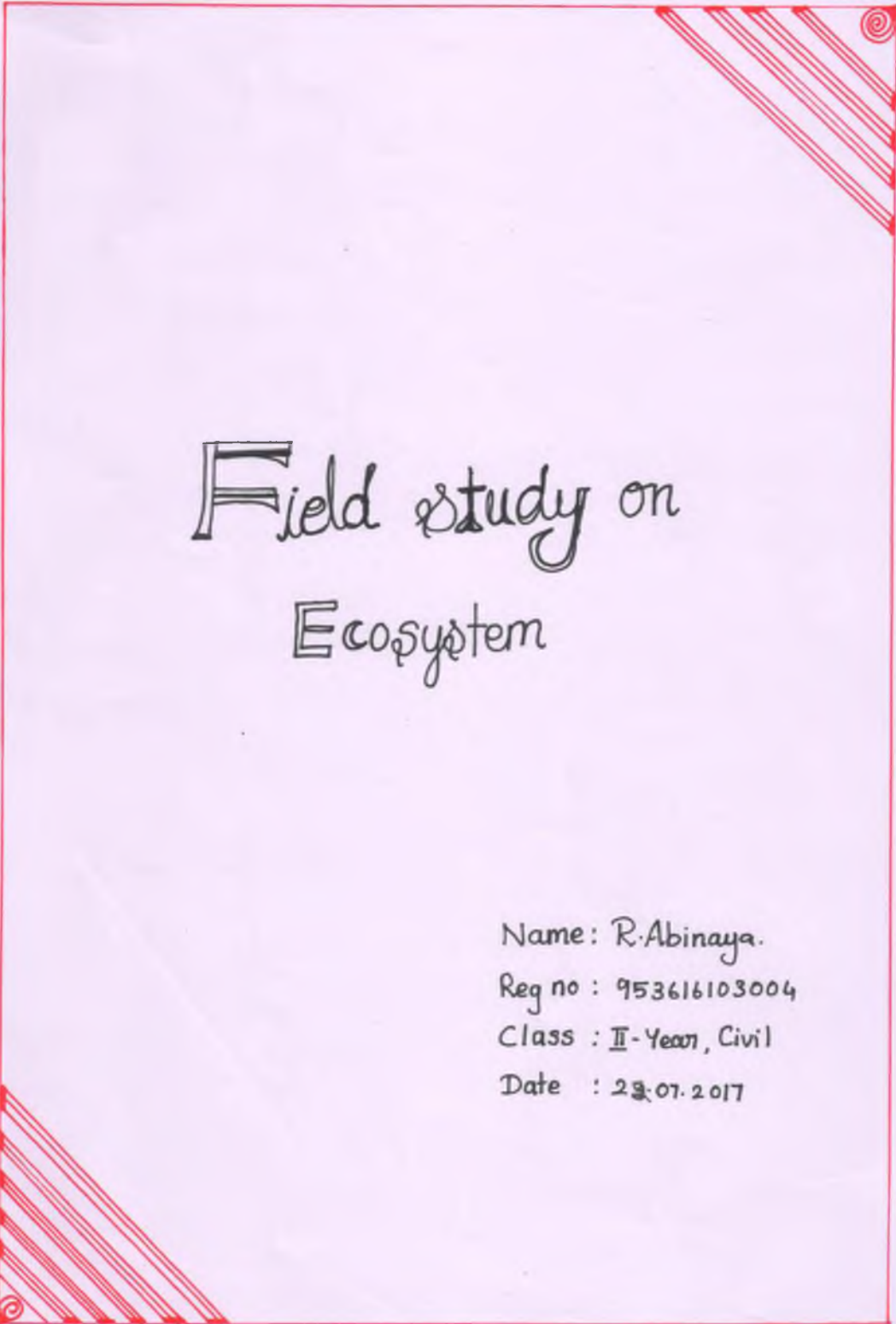
Sl.No.	Branch	Date & Time	Name of the Faculty member	Signature
1.	III ECE B	17.07.17 1:25-2:15pm	Ms. R. Chitradevi	
2.	III ECE A	18.07.17 11:45-12:35pm	Dr. G. Kanthimathi	
3.	II CSE	18.07.17 11:45-12:35pm	Mrs. N. Revathi	
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HOD 15/7/17  
G. Kanthimathi  
HOD i/c CIVIL

  
Principal 17/7/17

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Class Advisor  
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# Field study on Ecosystem

Name: R. Abinaya.

Reg no : 953616103004

Class : II-Year, Civil

Date : 23.07.2017

## Field study of ecosystem

[22.07.2017, 7<sup>th</sup> hour]

### Introduction:

The report has been prepared about simple ecosystem which is located near to our college campus. The report consists of a detail about the ecosystem which we visit. We visit the grass land ecosystem, and forest ecosystem.

### Grassland ecosystem:

The Grassland ecosystem which is located within our college, but that is small example. Where we can see plants (grass, small plants, ...), insects, birds. The function of the ecosystem is plants  $\rightarrow$  insects  $\rightarrow$  birds. Some time the rabbit came to the place.

Next we moved to the other ecosystem.

### Forest ecosystem:-

After grassland ecosystem we went to the forest. That is located near to our college campus. Where we saw more number of trees.

We reach the boundary of the forest only. In deeper side wild animals may come. In that forest we saw a well. The well is fully covered by algae and wastes. This is due to overnourishment of nitrogen, it is also called Eutrophication.

The function of forest ecosystem is

Trees, —→ Deer, rabbit —→ Lion, tiger —→ bacteria  
Plants

Man and wild life conflict:-

Some years ago, the tiger, elephants are roaming in the forest, but the man hunt the animals. Now there is no tiger in that forest.

For the evidence of field study we attached some photos in that.

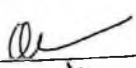
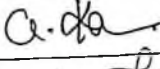
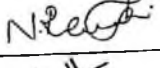
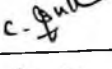
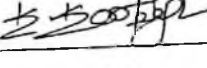
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**Academic Year: 2017 - 2018 (ODD Semester)**


Date: 15.07.17

RIT/ Chemistry/ Field Study /01


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HOD 15/7/17

G. K. R. V. S.  
HOD i/c / CIVIL 15/7/17

  
Principal 17/7/17

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- Class Advisor
- File

## Field Report

A group of 51 students belonging to II year-CSE were taken on a field study along with senior candidates. We were guided by Mrs. N. Revathi (Asst. Professor) and Dr. G. Kanthimathi (Asst. Professor) of Chemistry department. We went to the Land and Garden surrounding the campus of Ramco Institute of Technology. We started our trip by 11.45 a.m on 18.07.2017. We made a walk through the main entrance and reached the land through the bus shed. We managed to walk through thorny plants and reached a well, which is a source for the farmers who work out there to water the crops. On seeing the well, we began to throw stones into it. We played and enjoyed there along with the field study. The professors who accompanied us were explaining us about the surrounding and the species living around the area. We were amazed on seeing different types of birds. We saw many colourful butterflies. We enjoyed looking deep into the well and were playing with our friends. After enjoying the field trip, we returned to our respective classes by the end of the hour. It was a wonderful trip.

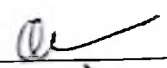
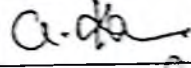
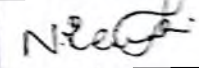
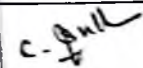
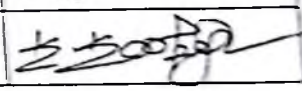
**RAMCO INSTITUTE OF TECHNOLOGY**  
Department of Chemistry  
Academic Year: 2017 - 2018 (ODD Semester)


RIT/ Chemistry/ Field Study /01

Date: 15.07.17


**CIRCULAR**

A field study will be conducted for II year Civil, CSE, EEE and III year ECE A & B students for the subject Environmental Science and Engineering (GE6351) for Unit -1 Environment, Ecosystem and Biodiversity. This field study covers the topic of terrestrial ecosystem. It makes the students to understand importance of producers, consumers and decomposers. They also understand the functions of ecosystem such as food chain, food web, energy flow and nutrient cycle.

Sl.No.	Branch	Date & Time	Name of the Faculty member	Signature
1.	III ECE B	17.07.17 1:25-2:15pm	Ms. R. Chitradevi	
2.	III ECE A	18.07.17 11:45-12:35pm	Dr. G. Kanthimathi	
3.	II CSE	18.07.17 11:45-12:35pm	Mrs. N. Revathi	
4.	II Civil	22.07.17 03.20-04.10pm	Mrs. C. Subha	
5.	II EEE	22.07.17 11.45-12.35pm	Mr.K. Karpagavel	

  
HOD 15/7/17

G. K. R. V. S.  
15/7/17  
HOD: IC / CIVIL

  
Principal 17/7/17

Copies to:

Department HOD  
Class Advisor  
File

## FIELD VISIT REPORT

We, students of III-ECE B went to a field visit to the backyard of Ramco Institute of Technology on 18.07.2017. There we came across many species of shrubs and trees. Some of the shrubs are Tulsi, and few thorny plants. The land was covered with dry grass. Then we went to a nearby well. The water level was low. We were much interested to know the food chain in the well. The food chain we saw was

Insects→Frogs→Snakes

Then we came across large trees like mango tree, jackfruit tree, coconut trees etc. which are of high commercial value. Example mango tree which yields ripe mangoes at a particular season and sold at a good cost in the market. Coconut tree has lot of uses and many things are made from coconut, leaf etc. Jackfruit trees yields jackfruit which is of high value in the market.

The abiotic components, the climate was too hot and hot winds blew. The soil was enriched with nutrients and minerals that would support the growth of wide variety of plants and trees. Some of the biotic components we saw were ants, insects, peacock, crows, snake, frogs etc. Decomposers like Bacteria and Fungi were present everywhere.

So we had a good time gaining a good stuff about the terrestrial ecosystem.



# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001:2015 certified Institution



Date: 14.07.2017

To

**The Director**

**Kerala State Science and Technology Museum (KSSTM)**

**Thiruvananthapuram,**

**Kerala – 695 033.**

Dear Sir,

**Sub: Industrial Visit of III Year B.E. Civil Engineering Students**

We thank you for giving permission for our students to visit your organisation. We will inform you that 67 students of III Year B.E Civil Engineering along with two faculty members will visit your organisation on 15.07.2017 (Saturday).

We assure you that our students will observe the rules and regulations that are prescribed by your system for the visitors and will in no way disturb the functioning of it during their visit.

Thanking you,

Yours faithfully

*G. K. Thiruvananthapuram*  
14/7/17  
**HOD / Incharge**

**PRINCIPAL**



North Venganallur, Rajapalayam – 626 117, Tamil Nadu.

Tel : 04563 233400, 233410; Fax : 233499

e-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in

# RAMCO INSTITUTE OF TECHNOLOGY

Department of Civil Engineering

Academic Year: 2017-2018

## STUDENTS NAME LIST

Semester/Class: V Semester B.E. Civil Engineering

Accompanying Staff: 1.Mr.T.Chockalingam, AP/Civil

2.Ms.A.Hari Rama Lakshmi, AP/Civil

Sl. No.	Register Number	Name of the Student
1.	953615103001	ABIMANYU S
2.	953615103002	AJEETHKUMAR R
3.	953615103003	AJITHKUMAR R
4.	953615103004	AMRUTHA PK
5.	953615103005	ANANTHAVEL P
6.	953615103006	ANISA SHIFANA D R
7.	953615103007	ARAVINDHAN S
8.	953615103008	ARULINFANTA X
9.	953615103009	BHUVANESWARI J
10.	953615103010	DEEPAK A
11.	953615103012	DHARINI R
12.	953615103013	DINESH G
13.	953615103014	DINESH P K
14.	953615103015	GOKULA NANDHINI G
15.	953615103016	GOKUL NATH M
16.	953615103017	GURU KISHOR K RA
17.	953615103018	GURU PRASAD K
18.	953615103019	JAYA HARISH S
19.	953615103020	JEEVA P
20.	953615103021	JEYA SNEHA J
21.	953615103022	KANNAN P
22.	953615103023	KARANKUMAR M
23.	953615103025	LOGHA SUNDHAR AC
24.	953615103027	MARUTHARAJ S
25.	953615103028	MUTHU PRAKASH N
26.	953615103029	MUTHU VIJAYA KUMAR R
27.	953615103030	NAVEEN KUMAR V
28.	953615103031	NIVETHA RANI R
29.	953615103032	PETCHIMUTHU M
30.	953615103033	PONKUMARAN M
31.	953615103034	PRABHU C
32.	953615103035	RAGHUL T
33.	953615103036	RAJA RS

Sl. No.	Register Number	Name of the Student
34.	953615103037	RAJKUMAR R
35.	953615103038	RAMKUMAR K
36.	953615103039	RAM PRASAD A
37.	953615103040	ROHITH KUMAR R
38.	953615103041	SACHITHANANTHAN P
39.	953615103042	SARATHKUMAR S
40.	953615103043	SATHIYARUBAN K
41.	953615103044	SATHIYAVENI KB
42.	953615103045	SELVAKUMAR T
43.	953615103046	SHARATHA P
44.	953615103047	SHIVA SURYA VIGNESH M. N
45.	953615103048	SIVA B
46.	953615103049	SUJITH S
47.	953615103050	SUKESAMOORTHI C
48.	953615103051	SUNDARA PANDIAN N
49.	953615103052	SURYA B
50.	953615103053	THIREKA M
51.	953615103054	VAISHNAVI P
52.	953615103055	VENKATESH M
53.	953615103056	VIJAYA KUMAR K
54.	953615103057	VINOTH S
55.	953615103058	VISHVASENAN A
56.	953615103059	YOGANANDH S
57.	953615103301	AJAYKUMAR E.R
58.	953615103302	ARUNKUMAR M
59.	953615103303	CHANDRU G
60.	953615103304	DEVA MURUGAN R
61.	953615103305	JEYAKUMAR S
62.	953615103306	KARTHICK RAJA S
63.	953615103308	MOHAMED BAGRUDEEN M
64.	953615103309	MOHAN RAJA C
65.	953615103310	SORNA SUNDAR RAJ B
66.	953615103311	SURYAPRAKASH M
67.	953615103312	VANAMOORTHILINGAM M

  
Class Adviser

  
HOD/Incharge

  
Principal





**The Kerala Minerals and Metals Ltd.**

(A Govt. Of Kerala Undertaking)

(An ISO 9001, ISO 14001, OHSAS 18001 & SA 8000 Certified Company)

SANKARAMANGALAM, CHAVARA-691 583

KOLLAM, KERALA, INDIA.

Phone : 0476-2686722 to 2686733 (12 Lines), 2651000

Fax : 91-476-2680101, 2686721

E-mail : kmml@md3.vsnl.net.in, URL www.kmml.com



CIN-U14109KL1972SGC002399

TP/PD/GA-24/17

17.07.2017

**CERTIFICATE**

This is to certify that Sixty Nine (69) B.E. Mechanical Engineering Students & Two Faculty Members of **Ramco Institute of Technology, Rajapalayam** have visited Titanium Dioxide Pigment Unit of the Company on 17.07.2017.

M (PR/P&A-TSP)



**K.M.ANIL MUHAMMED**

Manager (P. R / P&A-TSP)

**The Kerala Minerals and Metals Ltd.**

Sankaramangalam, Chavara-691583, Kollam, Kerala.

# RAMCO INSTITUTE OF TECHNOLOGY

RAJAPALAYAM - 626 117

Department of Mechanical Engineering



*Industrial visit report of III year Mechanical Engineering-"B"*

**Faculty Coordinators:**

Mr.M.Lakshmanan, AP/Mechanical

Mr.L.Karthikeyan, AP/Mechanical

**Student coordinators:**

Mr.R.Rakesh (953615114076)

Mr.E.Selvakumar (953615114090)

**Date:** 10.07.2017 (Monday)

**Place:** The Kerala Minerals and Metals Limited, Government of Kerala Undertaking, Kerala.

  
Industrial visit coordinator

  
HOD 31/7/17

**Introduction:**

The following report is based on the industrial visit undergone by us in the period of 10.07.2017(Monday) at The Kerala Minerals and Metals Ltd., Sankarmangalam, Kerala. The main raw material for Titanium Dioxide is Ilmenite, which has been available a lot at this place. This report has been written in reference to things we've learned in the plant.

**General information:****Products:**

- Titanium Dioxide Pigment (Rutile)
- Nano Titanium Dioxide Pigment (Rutile)
- Magnesium Chloride
- Titanium Tetra Chloride
- Titanium Sponge

**Raw material:**

Ilmenite

**Unique features:**

The Kerala Minerals and Metals Ltd (KMML) is the world's first fully integrated Titanium Dioxide Plant. KMML is also India's first and only manufacturer of Rutile Grade Titanium dioxide by chloride process.

A highly quality conscious and environment friendly company, with commitment to continuous environmental improvement, KMML dedicates its research and development towards promoting technology, processes and applications that focus on a greener world.

**Overall process:**

Titanium dioxide ( $\text{TiO}_2$ ), also referred to as Titania, is a substance as old as the earth itself. Titanium dioxide is readily mined in its purest form from beach sand. The beaches of Sankarmangalam and nearby areas in Kollam are inextricably intertwined with the history of this substance and KMML. Titanium Dioxide is essentially harvested from sea. The Mineral Separation Unit (MS Unit) of KMML is engaged in the separation of Ilmenite, Rutile, Leucosone, Monazite, Silliminite etc from the beach sand. The MS Unit employs Gravitational, Magnetic & High Tension Electrostatic Techniques for separation of minerals from the sand. Raw Ilmenite is chemically processed to remove impurities such as iron, leaving the pure, white pigment available for use. The chloride process produces  $\text{TiO}_2$  products by reacting titanium ores with chlorine gas. The chloride process produces  $\text{TiO}_2$  products by reacting titanium ores with chlorine gas.

The chlorides of impurity metals are removed from Titanium Tetra Chloride ( $TiCl_4$ ) through various processes to complete the recovery of  $TiCl_4$ . It is further purified by distillation to obtain pure Titanium Tetra Chloride in the liquid form which is stored in storage vessels. Titanium Tetra Chloride is vaporized, pre heated and oxidized with oxygen in the Oxidation Plant to produce raw Titanium Dioxide at a high temperature.

Beneficiated Ilmenite (BI) is the raw material for the Pigment Production Plant. BI from Ilmenite Beneficiation Plant is chlorinated in the Chlorination Plant to produce Titanium Tetra Chloride (Ticlor). Chlorine reacts with Titanium Dioxide and other metallic oxide impurities in BI in the presence of petroleum coke at a temperature of  $9000C$  in a fluidised bed chlorinator to produce chlorides of Titanium and other impurity metals.

The raw Titanium Dioxide is then classified and surface treated with various chemicals, filtered and washed to remove the salts, sent to the dryer and then to the microniser, in the Pigment Surface Treatment & Finishing Plant. The Titanium Dioxide pigment (in powder form) is subsequently packed.

The plant uses recycling and regeneration methods at various levels of processing, including acid regeneration, which ensures negligent pollution. Responsible harvesting from the seas reaffirms their commitment to the environment.





# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001:2015 certified Institution



Date: 13/07/2017

Lr. No. RIT/Mech./V Sem/Industrial Visit/2017-18/02

To  
**The Managing Director**  
**Traco Cable Company,**  
**(A Government of Kerala Understanding)**  
**Via Chumathra,**  
**Pathanamthitta District, Thiruvalla,**  
**Kerala, India – 689 108.**

Dear Sir,

**Sub: Permission for Industrial Visit – III Year MECH – 70 students – 2 Faculty Members - Reg.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

In this context, we would like to send two batches of students of III year B.E. Mechanical Engineering accompanied by two faculty members to visit your esteemed industry preferably on 17.07.2017 (Monday).

I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

We assure you that our students will observe the rules and regulations that are prescribed by your industry for the visitors and will in no way disturb the functioning of the industry during their visit.

We shall be grateful to you for a favorable response. Herewith we have furnished the list of students and accompanying faculty.

Thanking you,

Yours Faithfully

*J. Rajakumar*  
13/7/17  
HOD/MECH



*[Signature]*  
PRINCIPAL

North Venganallur, Rajapalayam – 626 117, Tamil Nadu.

Tel : 04563 233400, 233410; Fax : 233499

e-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in

Lin : U31200KL 1960 SGC 001860

'ഭരണഭാഷ മാതൃഭാഷ'

ട്രാക്കോ കേബിൾ കമ്പനി ലിമിറ്റഡ്, തിരുവല്ല

(ഒരു കേരള സർക്കാർ സ്ഥാപനം)

TRACO CABLE COMPANY LIMITED

(A KERALA GOVERNMENT COMPANY)



JFTC Factory, Chumathra, Thiruvalla- 689101, Pathanamthitta (Dist) Kerala.

PH : 0469 - 2730231, 2730253 Fax : 0469 - 2630254 E-mail : tracotvla@gmail.com

No.22/JFTC/SM/ 2162

Date: 17-07-2017

The Principal,  
Ramco Institute of Technology,  
North Venganallur,  
Rajapalayam,  
Tamil Nadu.

Sir,

Sub:-Factory Visit of 3<sup>rd</sup> Year B.E Mechanical Engineering  
Students.

Ref:- Your letter No.RIT/Mech/V Sem/Industrial Visit/  
2017-18/02 dated 13-07-2017.

.....

This is to certify that 66 students & 2 faculty members of 3<sup>rd</sup>  
Year B.E Mechanical Engineering students of your Institute had  
visited our factory on 17-07-2017. They have taken keen interest  
in understanding various process and machineries in the factory.



Yours faithfully,  
For TRACO CABLE COMPANY LTD.,

  
Unit Head (Thiruvalla)



Regd.office : XXVIII / 1242, KSHB office Complex,  
Panampilly Nagar, P.B.No. 4269, Cochin - 682036, Kerala  
Phone : 0484 2314847, 230472 Grams : 'TRACO' Ernakulam, Fax : 0484- 2312744



**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Mechanical Engineering**  
**Academic Year 2017-18 (Odd Semester)**

**Class: V Semester B.E. Mechanical Engineering 'A'**

Sl.No.	Reg. No.	Name of Student
1.	953615114001	AJAYKIRUBAHAR G S
2.	953615114002	AJAY RAJAPPAN S
3.	953615114003	AJEETHKUMAR K
4.	953615114004	AL AMEEN P S
5.	953615114005	ANANDHARAJ S
6.	953615114006	ARUL RAJ J
7.	953615114007	ARUNKUMAR VK
8.	953615114008	ASHOK BABU B
9.	953615114009	BABUGANESHRAM S
10.	953615114010	BALAKUMARESAN S
11.	953615114011	BHARATH KUMAR R
12.	953615114012	CHANDRA MOHAN P
13.	953615114013	DAKSHINA MURTHY M
14.	953615114014	DEIVA PRAKASH S
15.	953615114015	DHALAPATHI G
16.	953615114016	DHANUSHRAM R
17.	953615114018	DIWAN AHAMMED SHA S
18.	953615114019	FAIZOOR RAHMAN S
19.	953615114020	GIRIDHARAN R
20.	953615114021	GOBINATH M
21.	953615114022	GOPAL RAJ S
22.	953615114023	GOWRISANKAR M
23.	953615114024	GOWTHAM M
24.	953615114025	GOWTHAM CHAKARAVARTHI V
25.	953615114026	GUNASEKARAMANI R
26.	953615114027	HARI PRASATH K
27.	953615114028	HARISHKUMAR P R
28.	953615114030	HARSATH SAMUEL B R
29.	953615114031	ILANCHERAN I
30.	953615114033	JANANI SUDHA M D
31.	953615114034	JEEVA GANESH C
32.	953615114035	KALAISRIRAM S
33.	953615114036	KALYANA SUNDARAM G
34.	953615114037	KARELMARX MUTHIAH B
35.	953615114038	KARPAGARAJAN P
36.	953615114039	KARTHICK RAJ R
37.	953615114040	KARTHIK K
38.	953615114041	KARTHIK M



*[Handwritten signature]*

Sl.No.	Reg. No.	Name of Student
39.	953615114042	KARTHIKEYAN N
40.	953615114043	KARTHIKEYAN V S
41.	953615114044	KATHIRESAN M
42.	953615114045	KEERTHANA P
43.	953615114046	KESAVAN R
44.	953615114048	MANIKANDAN M
45.	953615114049	MANIVIGNESH S
46.	953615114050	MANOJ A
47.	953615114051	MANOJKUMAR M
48.	953615114052	MATHU SUDAN V
49.	953615114053	MOHAMED MEERAN S
50.	953615114054	MOHAMED YUSUFF S H
51.	953615114055	MOHAN RAJ M
52.	953615114056	MUGESHJAILSINGH R
53.	953615114057	MUKESH ASWIN R
54.	953615114058	MUKESH KUMAR T
55.	953615114059	MUNIYARAJ K
56.	953615114060	NARAYANAMOORTHI G
57.	953615114061	NATARAJAN M
58.	953615114062	NILAVARASU M
59.	953615114301	AJITHKUMAR M
60.	953615114302	ARUMUGAM A
61.	953615114304	DINESH KUMAR M
62.	953615114305	FAISAL U
63.	953615114306	GANESH S
64.	953615114308	MALAR MANNAN S
65.	953615114309	MANIPRABHU R
66.	953615114311	MARUTHANYAGAM S
<b>FACULTY MEMBERS</b>		
1.	Mr.S.MAHARAJAN, AP/Mechanical	
2.	Mr.M.SANTHANA MARUTHU PANDIAN, AP/Mechanical	

*A. Manoj*  
10/12/17  
Class Advisor

*J. S. Kumar*  
10/12/17  
HOD

*Sh. Lakshmi*  
10/12/17  
PRINCIPAL



# RAMCO INSTITUTE OF TECHNOLOGY

RAJAPALAYAM - 626 117

Department of Mechanical Engineering



*Industrial visit report of III year Mechanical Engineering-"B"*

**Faculty Coordinators:**

**Mr.S.Maharajan, AP/Mechanical**

**Mr.M.Santhana Maruthupandi, AP/Mechanical**

**Student coordinators:**

**Mr.Arun kumar(953615114007)**

**Mr.Mukesh kumar(953615114058)**

**Date:** 17.07.2017 (Monday)

**Place:** TRACO CABLE COMPANY pvt limited,  
THIRUVALLA  
KERALA-689103

**Industrial visit coordinator**

*A. M. M. 10/7/17*

*J. S. V. K. M.*  
**HOD** 31/7/17

## **INTRODUCTION:**

TRACO CABLE COMPANY, a Premier Kerala Government Company, commenced operations in the year 1964, manufacturing high quality Electric Cables and Wires in Technical Collaboration with M/s. Kelsey Engineering Co. Ltd., Canada. Since then TRACO has been in the forefront in meeting the needs of Public Sector Undertakings in India like Railways, Electricity Boards of various states in the country and others for AAC/ACSR, Power and Signaling Cables.

## **RAW MATERIAL:**

- STEEL
- ALUMINIUM

## **PRODUCTS:**

Aluminium conductor steel-reinforced cable

## **ALUMINIUM STEEL REINFORCED CABLE:**

(ACSR) is a type of high-capacity, high-strength stranded conductor typically used in overhead power lines. The outer strands are high-purity aluminium chosen for its excellent conductivity, low weight and low cost. The center strand is steel for additional strength to help support the weight of the conductor. Steel is higher strength than aluminium which allows for increased mechanical tension to be applied on the conductor. Steel also has lower elastic and inelastic deformation (permanent elongation) due to mechanical loading (e.g. wind and ice) as well as a lower coefficient of thermal expansion under current loading. These properties allow ACSR to sag significantly less than all-aluminium conductors. Per the International Electrotechnical Commission (IEC) and The CSA Group (formerly the Canadian Standards Association or CSA) naming convention, ACSR is designated A1/S1A.

## **PROCESS:**

### **PACKING:**

- The ACSR shall be supplied in wooden drums.
- Drums shall be stoutly constructed of good quality timber or steel and clearly marked with the length and type of conductor in manner not easily removable. Drums shall be securely battened around the perimeter and shall be lined with approved impervious material to prevent contact between the contents and both the drum itself and any chemicals with which the drum has been treated. Drums shall be suitable for rolling on the flanges without causing damage to the conductor and the direction of rolling shall be clearly shown.

- All timber drums and battens shall be protected from deterioration by termite or fungus attack by an approved impregnation treatment at the works before dispatch. Such substance shall not be harmful to the conductor.

#### **LABELLING:**

- Each drum shall be labeled with clear stencil on both sides of the drum with the following.
  - (a) CEYLON ELECTRICITY BOARD, TENDER NO :
  - (b) Manufacturer's name
  - (c) Direction of rolling
  - (d) Lifting instructions and limitations
- The letters shall not be less than 75 mm of height and the ink used shall be waterproof.
- An Aluminium name plate shall be fixed to each drum clearly showing the following.
  - (a) Serial No. The serial numbers shall be from 001 onwards
  - (b) Conductor type, material and stranding
  - (c) Length of the conductor
  - (d) Net Weight
  - (e) Gross Weight
  - (f) Manufacturer's batch number
  - (g) Winding date
  - (h) Approximate measurements of the drum

#### **QUALITY ASSURANCE:**

The manufacturer shall possess ISO 9001:2008 Quality Assurance certification for the manufacture of the ACSR conductor for the plant where the manufacture of conductor is done. The bidder shall furnish a copy of the ISO 9001:2008 certificates certified as true copy of the original by the Manufacturer, along with the offer.







Maharajan S <maharajan@ritrjpm.ac.in>

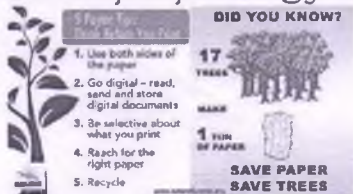
**Fwd: Requesting permission for industrial visit on 28.07.2017 (Friday)**

1 message

Jerold John Britto J <jerold@ritrjpm.ac.in>  
To: Maharajan S <maharajan@ritrjpm.ac.in>

Sat, Aug 19, 2017 at 2:12 PM

With Thanks and Regards  
**J. Jerold John Britto AP/MECH**  
Ramco Institute of Technology  
Rajapalayam.  
Email Id : jeroldjohnbritto@gmail.com



**Save Paper.  
Save Trees.  
Save the World.**

**Forwarded conversation**

Subject: Requesting permission for industrial visit on 28.07.2017 (Friday)

From: **Valai Ganesh** <valaiganesh@ritrjpm.ac.in>  
Date: Thu, Jul 27, 2017 at 1:48 PM  
To: karthik.visu@festo.com  
Cc: Jerold John Britto J <jerold@ritrjpm.ac.in>

Sir,

We are planning to visit your industry on 29.07.2017 (Friday). There are 50 students along with 2 faculty members will visit your industry around 9.30am. So,we request your permission to visit your industry on Friday (29.07.2017).

Faculty Name and contact number - Mr.J.Jerold John Britto, AP/Mechanical  
(9843763682)

---  
WITH REGARDS,  
S.VALAI GANESH M.E-CAD/CAM  
ASSISTANT PROFESSOR  
DEPARTMENT OF MECHANICAL ENGINEERING  
RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM

-----  
From: **Valai Ganesh** <valaiganesh@ritrjpm.ac.in>  
Date: Thu, Jul 27, 2017 at 1:51 PM  
To: karthik.visu@festo.com  
Cc: Jerold John Britto J <jerold@ritrjpm.ac.in>

Sir,

We are planning to visit your industry on 28.07.2017 (Friday). There are 50 students along with 2 faculty members will visit your industry around 9.30am. So, we request your permission to visit your industry on Friday (28.07.2017).

Faculty Name and contact number - Mr.J.Jerold John Britto, AP/Mechanical  
(9843763682)

--  
WITH REGARDS,  
S.VALAI GANESH M.E-CAD/CAM  
ASSISTANT PROFESSOR  
DEPARTMENT OF MECHANICAL ENGINEERING  
RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM

--  
WITH REGARDS,  
S.VALAI GANESH M.E-CAD/CAM  
ASSISTANT PROFESSOR  
DEPARTMENT OF MECHANICAL ENGINEERING  
RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM

-----  
From: **Visu, Karthik** <karthik.visu@festo.com>  
Date: Thu, Jul 27, 2017 at 2:02 PM  
To: Valai Ganesh <valaiganesh@ritrjpm.ac.in>  
Cc: Jerold John Britto J <jerold@ritrjpm.ac.in>, "M, Manoharan" <manoharan.m@festo.com>

Dear Mr.Valai Ganesh,

Greetings from Festo India!!!

Your students & faculties are cordially welcome to Festo, Bangalore for an Industrial Visit by tomorrow. Your visit request is approved. We have scheduled the session between 9.15 AM to 11 AM tomorrow.

For any clarifications or guidance, Your team can contact me.

Regards,

Karthik

Sr.Officer Marketing

Festo India Pvt Ltd | #237B, Bommasandra Industrial Area, Hosur Highway, Bengaluru 560 099. INDIA | M: +91 90080 13254 | Tel: +91 80 22894310 | Web: [www.festo-didactic.com](http://www.festo-didactic.com)

*"Festo Didactic - Your global partner for competence development"*

**From:** Valai Ganesh [mailto:[valaiganesh@ritrjpm.ac.in](mailto:valaiganesh@ritrjpm.ac.in)]  
**Sent:** Thursday, July 27, 2017 1:52 PM  
**To:** Visu, Karthik <[karthik.visu@festo.com](mailto:karthik.visu@festo.com)>  
**Cc:** Jerold John Britto J <[jerold@ritrjpm.ac.in](mailto:jerold@ritrjpm.ac.in)>  
**Subject:** Requesting permission for industrial visit on 28.07.2017 (Friday)

-----  
**From:** Visu, Karthik <[karthik.visu@festo.com](mailto:karthik.visu@festo.com)>  
**Date:** Fri, Jul 28, 2017 at 2:26 PM  
**To:** Valai Ganesh <[valaiganesh@ritrjpm.ac.in](mailto:valaiganesh@ritrjpm.ac.in)>  
**Cc:** Jerold John Britto J <[jerold@ritrjpm.ac.in](mailto:jerold@ritrjpm.ac.in)>, "M, Manoharan" <[manoharan.m@festo.com](mailto:manoharan.m@festo.com)>

Dear Mr. Valai Ganesh,

Refer to our discussion, Your students were reached Festo by 11.10 AM due to delay in their boarding & transportation. We started the session by 11.20 AM with welcome drink & snacks.

Following topics were covered,

- Ø Brief presentation on Automation & Introduction to Festo
- Ø Walk-in through Automation static & dynamic displays and brief explanation on applications
- Ø Demonstration & explanation on Pneumatic & Electro-Pneumatic Equipment's
- Ø Videos on World Skills Competition & MPS
- Ø Demonstration & explanation on Mobile Robot

We hope that your students are benefited visiting Festo today. We wish you good luck for your prospective students and your organization.

Regards,

Karthik

Sr. Officer Marketing

## FESTO

Festo India Pvt Ltd | #237B, Bommasandra Industrial Area, Hosur Highway, Bengaluru 560 099. INDIA | M: +91 90080 13254 | Tel: +91 80 22894310 | Web: [www.festo-didactic.com](http://www.festo-didactic.com)

*"Festo Didactic - Your global partner for competence development"*

---

**From:** Visu, Karthik  
**Sent:** Thursday, July 27, 2017 2:02 PM  
**To:** 'Valai Ganesh' <[valaiganesh@ritrjpm.ac.in](mailto:valaiganesh@ritrjpm.ac.in)>  
**Cc:** Jerold John Bri o J <[jerold@ritrjpm.ac.in](mailto:jerold@ritrjpm.ac.in)>; M, Manoharan <[manoharan.m@festo.com](mailto:manoharan.m@festo.com)>  
**Subject:** RE: Requesting permission for industrial visit on 28.07.2017 (Friday)

Dear Mr.Valai Ganesh,

Greetings from Festo India!!!

Your students & faculties are cordially welcome to Festo, Bangalore for an Industrial Visit by tomorrow. Your visit request is approved. We have scheduled the session between 9.15 AM to 11 AM tomorrow.

For any clarifications or guidance, Your team can contact me.

Regards,

Karthik

Sr.Officer Marketing

## FESTO

Festo India Pvt Ltd | #237B, Bommasandra Industrial Area, Hosur Highway, Bengaluru 560 099. INDIA | M: +91 90080 13254 | Tel: +91 80 22894310 | Web: [www.festo-didactic.com](http://www.festo-didactic.com)

*"Festo Didactic - Your global partner for competence development"*

**From:** Valai Ganesh [<mailto:valaiganesh@ritrjpm.ac.in>]  
**Sent:** Thursday, July 27, 2017 1:52 PM  
**To:** Visu, Karthik <[karthik.visu@festo.com](mailto:karthik.visu@festo.com)>

**Cc:** Jerold John Britto J <jerold@ritrjpm.ac.in>

**Subject:** Requesting permission for industrial visit on 28.07.2017 (Friday)

Sir,

We are planning to visit your industry on 28.07.2017 (Friday). There are 50 students along with 2 faculty members will visit your industry around 9.30am. So, we request your permission to visit your industry on Friday (28.07.2017).

Faculty Name and contact number - Mr.J.Jerold John Britto, AP/Mechanical  
(9843763682)

--  
WITH REGARDS,

S.VALAI GANESH M.E-CAD/CAM

ASSISTANT PROFESSOR

DEPARTMENT OF MECHANICAL ENGINEERING

RAMCO INSTITUTE OF TECHNOLOGY

RAJAPALAYAM

--  
WITH REGARDS,

S.VALAI GANESH M.E-CAD/CAM

ASSISTANT PROFESSOR

DEPARTMENT OF MECHANICAL ENGINEERING

RAMCO INSTITUTE OF TECHNOLOGY

RAJAPALAYAM

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2 attachments

**FESTO** image001.png  
3K

**FESTO** image001.png  
3K

**RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM**  
**Department of Mechanical Engineering**  
**Academic Year 2017-2018 (Odd Semester)**

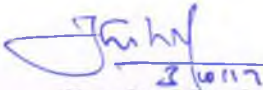
**INDUSTRIAL VISIT - FESTO PRIVATE LIMITED, BANGALORE**  
**(JULY 28- 29, 2017)**

**REPORT ON THE PROGRAMME**

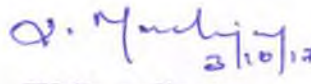
Final Year Mechanical Engineering 'B' of Ramco Institute of Technology successfully attended the industrial visit in FESTO Private Ltd, Bangalore during 28<sup>th</sup>, 29<sup>th</sup> July 2017. Fifty three Students and two faculty members were attended Industrial Visit. Mr.Karthick (Senior Marketing Officer, Festo Pvt., Ltd, Bangalore) handled the session with hands on training for the following topics:

- Brief presentation on Automation & introduction about company.
- Walk-in through Automation static & dynamic displays with brief explanation on applications
- Demonstration & explanation on Pneumatic & Electro-Pneumatic Equipment's
- Videos on World Skills Competition & MPS
- Demonstration & explanation on Mobile Robot.



  
**Faculty Members**

Mr. J. Jerold John Britto AP/Mech  
Mr.R.Vigneshwar AP/Mech

  
**IV Co-ordinator**

Mr.S.Maharajan AP/Mech

  
**HoD/Mech**



**RAMCO INSTITUTE OF TECHNOLOGY**

**REPORT on Industrial Visit at**

**Bharath Earth Movers Limited, Truck Division**

**Mysore**



**29<sup>th</sup> July, 2017**



Industrial visit was carried out at **Bharath Earth Movers Limited (BEML) Truck Division** on 29<sup>th</sup> July, 2017 especially for the final year students. The main objective behind the visit was to make student aware about how various activities related to marketing, financing, manufacturing, assembling and human resource are carried out in the industry and give them feel of engineers as soon as the start there course.

There were nearly 53 students travelled to reach the industry at 12.00 P.M. The industry is located around 130kms from Bangalore which was established in 1986 with a total area of 600 acres. It is the one of the Asia's biggest Dump Truck Factory in India located at Truck Division, Mysore.

As soon as we reached the company we were divided into two batches consisting of 26 students and 27 students how was guided by **Mr.R.Venkatesh** and **Mr.J.Jabinth John** for orientation of industry which was given by the four trainers of the BEML training department and their history. They also give some safety instructions for us.

It was great to know that the industry follows Japanese quality principal inside the working area. The dress code was followed strictly and trainers were given separate dress for them to wear. Their motto is "New Frontiers New Dreams".

### **Vision of BEML:**

To become a market leader, as a diversified company supplying products and services to Mining & Construction, Railway & Metro and Defense Services and emerge as an International Player.

### **Mission of BEML:**

1. Improve competitiveness through organizational transformation and collaboration / strategic alliances / joint ventures in technology.
2. Grow profitably by aggressively pursuing opportunities in national and international markets.
3. Attract and build people in a rewarding and inspiring environment by fostering creativity and innovation.

### **Objectives:**

1. To maintain a dominant position in design, development, manufacture and marketing of Defense, Earthmoving & Construction and Rail & Metro equipment.
2. To diversify and grow.
3. To provide total engineering solutions to its customers.
4. To internationalize operations by enhancing exports.
5. To improve profitability.
6. To maintain State-of-the-Art technology for all products.
7. Re-orientation of the business operations to match present scenario.
8. Continuous building of skills and competencies to bring about Executive Effectiveness for Management Succession.

The products manufactured at Truck Division are:

### **Mining & Construction:**

- Dump Trucks (Mechanical Drive)
- Dump Trucks (Electrical Drive)
- Water Sprinkler
- Motor Grader

### **Defense:**

- Tatra 6x6 (Euro II)
- Air Craft Weapon Loader

### **Others:**

- Air Craft Towing Tractor
- Air Craft Towing Tractor with Ground Power Unit

### **Manufacturing Facilities:**

- Dumper Assembly
- Welding Robot
- 5 Major Hangers
  - Plate / Fabrication Shop
  - Machine Shop
  - Light Assembly
  - Major Assembly
  - Final Testing & Paint Shop
- Equipment Test Track
- Tatra Hanger
- 5 Ancillary Units

**Central Test Laboratory – NABL Accredited:**

- To Ensure Quality of Conformance, Precision Measuring, Test Equipment's and their Calibration
- Having Facility for Testing of Materials, Castings, Forgings, Raw Materials, Oils and Paints Rubbers
- Test Facility include Mechanical Tests, Chemical Analysis, Metallographic, Radiography, Ultrasonic Testing, Magnetic Particle Inspection and Dye Penetrant Testing
- Metrology & Gauge Calibration is having facility for Calibration of Precision Measuring Instruments – Co-ordinate Measuring Machine, Form Tester and Surface Tester
- Sophisticated test cell for performance of Engines & Endurance Testing of Components, Injector Tester and FIP Calibration Bench

We had a great opportunity to see the industry vision, mission and their products like BH205E, Tatra and many earth movers. They used the Japanese technology **halpaco**. They have a separate ground for testing their products. They were designing and manufacturing some Indian Missiles like Akash. They followed the sub assembly approach for their dumper product manufacturing unit. They had nearly 4 units separately for manufacturing the parts for the dumpers, tatra.





They have a special division for manufacturing the engine attached with quality checkup lab. They nearly buy 80% of products from local vendors of India and 20% of products from various countries like Japan, Germany, USA, etc. They even manufacture train coaches for India.



It is rightly said that "See & know" is better than "read & learn". Students have got real feel of company's working after this visit. They got a chance to transfer their theoretical knowledge to practical implication. This will even help students to understand subject matter clearly in future also. We would like to extend our gratitude to company for permission and support they gave to make our visit a success with accomplishment of objective and our class advisor Mr. P. Suresh Kumar for arranging this visit for our student.

Thank You



SELVA SUNDAR &lt;selvasundar@ritrjpm.ac.in&gt;

**Fwd: Industrial Visit - Reg.**

Suresh Kumar P <sureshkumar@ritrjpm.ac.in>  
To: Selvasundar <selvasundar@ritrjpm.ac.in>

Thu, Jun 28, 2018 at 12:04 PM

----- Forwarded message -----

From: **Rajakarunakaran S** <rajakarunakaran@ritrjpm.ac.in>  
Date: Mon, Jun 4, 2018 at 1:00 PM  
Subject: Re: Industrial Visit - Reg.  
To: "Inigo Jeganath\_A\_RRN [Dy.Manager - HR]" <inigo@ramcocements.co.in>, Karthikeyan G <karthikeyang@ritrjpm.ac.in>, Suresh Kumar P <sureshkumar@ritrjpm.ac.in>, KARTHIKEYAN L <karthikeyan@ritrjpm.ac.in>, "Selvaraj K.S" <dgmadmin@ritrjpm.ac.in>

Respected Sir,

Based on the revised Anna University Schedule and discussion with HOD/Civil & respective class advisers, we are planning to visit our organisation as per the schedule given below:

08.06.2018 (Friday): Civil Engineering (27 boys & 24 girls)  
29.06.2018 (Friday): Mechanical Engineering (Section A: 57 boys)  
06.07.2018 (Friday): Mechanical Engineering (Section B: 53 boys)

We are expecting your approval at your earliest convenience. Accordingly we will proceed transport arrangements from our college.

We also request you to kindly arrange Lunch to our students and accompanying faculty members on payment basis as per our organisation norms.

with kind regards

On Tue, May 15, 2018 at 3:42 PM, Inigo Jeganath\_A\_RRN [Dy.Manager - HR] <inigo@ramcocements.co.in> wrote:

Dear Sir,

Greeting from The Ramco Cements Limited, R R Nagar.

With reference to your request letter no RIT/Mech/II Sem/Industrial Visit/2017-18/01 dated 10.05.2018 for industrial visit, Please note that Industrial visit to your Mechanical & Civil engineering students is approved. As discussed with you, kindly plan for industrial visit on any Friday as we have a system of allowing industrial visits only on Fridays.

Thanks &amp; Regards

Inigo Jeganath

Human Resources

9894925682



# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001:2015 certified Institution



Date: 10.05.2018 .

Lr.No. RIT/Mech/II Sem/Industrial Visit/2017-18/01

To  
The President  
The Ramco Cements limited  
R.R.Nagar  
Virudhunagar – 626204.

Dear sir,

**Sub: Permission for Industrial Visit – I year MECH (Section A&B - 110 students)  
and Civil Engineering (52 students) – 6 Faculty Members – Reg.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few Industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

In this content, we would like to send two batches of about 162 students of I year B.E. Mechanical and Civil engineering accompanied by six faculty members to visit your esteemed industry preferably on 29.05.2018 (Tuesday).

I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

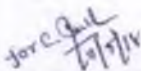
We assure you that our students will observe the rules and regulations that are prescribed by your industry for the visitors and will in no way disturb the functioning of the industry during their visit.

We shall be grateful to you for a favorable response. Herewith we have furnished the list of students and accompanying faculty.

Thanking You,

Yours Faithfully

  
HoD/Mechanical

  
HoD/Civil



  
Principal

North Venganallur, Rajapalayam – 626 117, Tamil Nadu.

Tel : 04563 233400, 233410; Fax : 233499

e-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in

**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Mechanical Engineering**  
**Academic Year: 2017-18 (Even Semester)**

**Semester/Class: II Semester B.E.Mechanical Engineering A**

S.No.	Reg. No.	Name of Student
1.	953617114001	AAKASH K
2.	953617114002	ABISHAKE P
3.	953617114003	ADHITHYA VISHNU KUMAR M
4.	953617114004	AJITH S
5.	953617114005	ANANTHAJOTHI A
6.	953617114006	ARAVIND S
7.	953617114007	ARAVINDH M
8.	953617114008	ARI KRISHNAN P
9.	953617114009	ARUNACHALAM S
10.	953617114010	ARUNKUMAR P
11.	953617114011	ASIM AHAMED I
12.	953617114012	ASWIN V R
13.	953617114013	BALAJI S
14.	953617114014	BHARATH KUMAR J
15.	953617114015	BHOOTHALINGAM PILLAI E
16.	953617114016	CHANDRU D
17.	953617114017	DEEPAK KUMAR V
18.	953617114018	DEEPAK VISHNU M
19.	953617114019	DINESH M
20.	953617114020	DINESHKUMAR M
21.	953617114021	DINESH KUMAR R
22.	953617114022	ESAKKI S
23.	953617114023	ESAKKIESWAR S
24.	953617114024	GANESHKUMAR S
25.	953617114025	GOKULPRASATH N
26.	953617114026	GURU BALAJI M
27.	953617114028	HARI KUMARAN M
28.	953617114029	HARI NARAYANAN S
29.	953617114030	JOHN STALIN S
30.	953617114031	JOTHIKRISHNA V
31.	953617114032	KALAI PRABHU S
32.	953617114033	KARANKUMAR G
33.	953617114034	KARTHEESWARAN V
34.	953617114035	KARTHICK M
35.	953617114036	KARTHIKEYAN B
36.	953617114037	KARTHIK KUMAR A
37.	953617114038	KASIVISWANATHAN S
38.	953617114039	KISHORE G V
39.	953617114040	KRISHNA KUMAR S
40.	953617114041	KRISHNA MOORTHY K
41.	953617114042	LAL KRISHNA S L

S.No.	Reg. No.	Name of Student
42.	953617114043	MADHAN A
43.	953617114044	MAHADEVAN N P
44.	953617114045	MAHARAJAN S
45.	953617114046	MAHENDRARAJ V
46.	953617114047	MAHESHWARAN G
47.	953617114048	MANIKANDAN G
48.	953617114049	MANOJ C
49.	953617114050	MANOJ P
50.	953617114051	MANOJ KUMAR R
51.	953617114052	MANOJKUMAR R
52.	953617114053	MATHANRAJ L
53.	953617114054	MOHAMEDABRAR I
54.	953617114055	MOHAMMED JALAL AZEEZ D
55.	953617114056	MUKESH G
56.	953617114057	MUTHU KRISHNAN K
57.	953617114058	MUTHU VENKATESH T

*S. L. H. H. H.*  
Class Adviser

*S. L. H. H. H.*  
HOD





# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001 2015 certified Institution



Date: 29/07/2017

To

**The Managing Director,  
Traco Cable Company,  
Pathinamithitha District,  
Thiruvalla,  
Kerala - 689 108**

Sir,

**Sub: Permission for Industrial Visit - IV Year EEE - 71 students - Reg.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

In this context, we would like to send a batch of about 71 students of IV year B.E. Electrical and Electronics Engineering accompanied by two faculty members to visit your esteemed industry preferably on 07.08.17 (Monday).

I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

We assure you that our students will observe the rules and regulations that are prescribed by your company for the visitors and will in no way disturb the functioning of the company during their visit.

We shall be grateful to you for a favorable response. Herewith we have furnished the list of students and accompanying faculty.

Thanking you,

Yours faithfully,

*S. Kumar*  
29/07/17  
HoD/EEE

*[Signature]*  
PRINCIPAL

North Venganallur, Rajapalayam - 625 117, Tamil Nadu

Tel: 04563 233400, 233410, Fax: 233499

e-mail: rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in



RAMCO  
INSTITUTE OF  
TECHNOLOGY

KannanSubramanian S <kannan@ritrjpm.ac.in>

---

## Fwd: Requeing Industrial Visit for Final Year Electrical and Electronics Engineering Students -Ramco Institute of Technology

---

Suresh Kumar P <sureshkumar@ritrjpm.ac.in>

Wed, Aug 2, 2017 at 4:03 PM

To: kannan@ritrjpm.ac.in

----- Forwarded message -----

From: TRACOCABLE THIRUVALLA <tracotvla@gmail.com>

Date: Wed, Aug 2, 2017 at 2:52 PM

Subject: Re: Requeing Industrial Visit for Final Year Electrical and Electronics Engineering Students -Ramco Institute of Technology

To: Suresh Kumar P <sureshkumar@ritrjpm.ac.in>

Dear Sir,

Permission is granted for 71 students and 2 faculty members of your firm for an Industrial visit on 07-08-2017(Monday). The fees for the visit is Rs. 3500 /-

Regards

Officer (P&A)

On Sun, Jul 30, 2017 at 1:38 PM, Suresh Kumar P <sureshkumar@ritrjpm.ac.in> wrote:

Dear Sir

Here I attached a letter for Requesting Industrial Visit for Final Year Electrical and Electronics Engineering Students. Please give permission to visit your factory in order to learn more about practical application.

# ട്രാക്കോ കേബിൾ കമ്പനി ലിമിറ്റഡ്

(ഒരു കേരള സർക്കാർ സ്ഥാപനം)

## TRACO CABLE COMPANY LIMITED

(A Kerala Government Company)



IRIMPANAM, TRIPUNITHURA, Dist. ERNAKULAM, PIN: 682 309  
Phones: 0484 2780937, 2780237, 2785672, Fax: 0484 2780937

No. P&A/TRG/ 910

Irimpanam,  
07.08.2017

### CERTIFICATE

This is to certify that 71 Nos. of IV<sup>th</sup> year BE Electrical and Electronics Engineering students along with 2 staff members of Ramco Institute of Technology, North Venganallur, Rajapalayam, Tamil Nadu – 626 117 have undergone an Industrial visit in this institution on 07.08.2017 F.N.

For TRACO CABLE COMPANY LIMITED



  
UNIT HEAD

Regd. Office ; XXXIX/5465, 4th Floor, KSHB Office Complex, Panampilly Nagar, Kochi - 682 036, Kerala  
Phones: 0484 2314847, 2314864, 2311851 & 2320472 Fax 91-484 2312744  
E-mail : mail@tracocable.com, Web : www.tracocable.com

Factories:

Pinarayi - 670742, Dist. Kannur Ph : 0490-2384161, Fax 0490-2384761 Thiruvalla-689 103, Dist. Pathanamthitta  
Phones : 0469-2730231, 2730391 & 2730253, Fax : 0469 2630254 (TVLA)



# TRACO CABLE COMPANY LIMITED

(A Kerala Government Company)  
Irimpanam, Ernakulam (Dist.) Pin - 682 309

No. **6170**

Date: 07/08/17

Received with thanks from RAMCO INSTITUTE OF  
TECHNOLOGY, Rajapalayam

the sum of Rupees Three thousand and five  
hundred only paise (Rs. 3500 Ps. 00)

only by Cash / M.O. / Cheque / Draft / Postal Order No. ....

dated ..... on ..... towards .....

Fee for plant visit

For TRACO CABLE COMPANY LIMITED

Cheque subject to realisation

Accountant to

Officer (Finance) / Divisional Manager Abhishek

TRACO CABLE COMPANY LIMITED



Date: 11/07/2017

To  
**GD ELECTRICAL EQUIPMENTS,**  
SF.No.223/1, Nethaji Nagar,  
Nanjundapuram Road,  
Nanjundapuram Post,  
Coimbatore – 641 036.  
Mobile: 98422 78144.

Sir,

**Sub: Permission for Industrial Visit – III Year EEE – 62 students – Reg.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

In this context, we would like to send a batch of about 62 students of III year B.E. Electrical and Electronics Engineering accompanied by four faculty members to visit your esteemed industry preferably on 15.07.17 (Saturday).

I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

We assure you that our students will observe the rules and regulations that are prescribed by your company for the visitors and will in no way disturb the functioning of the company during their visit.

We shall be grateful to you for a favorable response. Herewith we have furnished the list of students and accompanying faculty.

Thanking you.

Yours faithfully

S. K. K. K.  
HoD/EEE 11/07/17

  
PRINCIPAL

# G.D. ELECTRICAL EQUIPMENTS

S.F. NO. 223/1, NETHAJI NAGAR, NANJUNDAPURAM ROAD,  
NANJUNDAPURAM POST, COIMBATORE - 641 036.

Manufacturers & Suppliers of Electrical & Electro Mechanical Machines.  
Control Equipments.

GVD

Ref. :

GVD/OL/2/2017 -18

Date :

12.07.2017

To,

The Principal,  
M/s. Ramco Institute of Technology,  
North Venganallur Village,  
Krishnapuram Panchayat,  
Rajapalayam - 626117.


Dear Sir,

Sub: Industrial visit of your students on 15.07.2017  
Ref: Your letter No. Nil dated 11.07.2017

With reference to the above we are glad to permit a batch of about 62 students of your III year Electrical And Electronics Engineering accompanied by four faculty members for an industrial visit to our factory on 15.07 2017 (Saturday).

Thanking you with kind regards.

Yours faithfully,  
For G.D. Electrical Equipments,

  
G. Durairaju. B.E.  
Proprietor.



# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001:2015 certified Institution



ISO 9001:2015  
ID 9108633093

Date: 10.05.2018

To

**THE PRESIDENT,  
RAJAPALAYAM MILLS,  
Post Box No. 1 P.A.C.Ramasamy Raja Salai,  
Rajapalayam – 626 117**

Respected Sir,

**Sub: Permission for Industrial Visit – I Year EEE – 51 students – Reg.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

In this context, we would like to send a batch of about 51 students of I year B.E. Electrical and Electronics Engineering accompanied by two faculty members to visit your esteemed industry preferably on 30.05.18 (Wednesday) from 02.30 PM to 05.00 PM.

I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

We assure you that our students will observe the rules and regulations that are prescribed by your industry for the visitors and will in no way disturb the functioning of the company during their visit.

We shall be grateful to you for a favourable response. Herewith we have furnished the list of students and accompanying faculty members.

Thanking you,

Yours faithfully

S. K. K. 10/05/18  
HoD/EEE

S. Rajan  
PRINCIPAL

North Venganallur, Rajapalayam – 626 117. Tamil Nadu.

Tel : 04563 233400, 233410; Fax : 233499

e-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in

# SRI VISHNU SHANKAR MILL LIMITED

(Government of India Recognised Export House)

Regd. Office : Sri Vishnu Shankar Mill Premises, Post Box No. 109,

P.A.C.Ramasamy Raja Salai, Rajapalayam - 626 117,

Tamil Nadu, India.

CIN : U17301TN1981PLC008677  
PAN : AACCS0536Q  
GSTIN : 33AACCS0536Q1Z7

Telephone : 91 4563 235552-55 (4 Lines)  
Fax : 91 4563 236493  
E-mail : svsm@ramcotex.com  
svsmill@bsnl.in  
Website : www.vishnushankarmill.co.in

16.05.2018

The Principal  
Ramco Institute of Technology,  
North Venganallur Village,  
Rajapalayam.

Dear Sir,

Sub: Permission for Industrial Visit – reg

This has with reference to your letter dated 10.05.2018, regarding your EEE students' visit to our factory. We pleased to inform you that we are permitting your students to visit our units on 30.05.2018 (Wednesday) between 2.30 pm to 5.00 pm, in our Mills.

Thanking you

For **Sri Vishnu Shankar Mill Limited**



V.Raju  
Vice President-Technical

RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM

REQUESTING PERMISSION FOR ORGANIZING  
INDUSTRIAL VISIT/INDUSTRIAL TRAINING

Date: 08.06.2018

Submitted to the Principal:

Department : Electronics and Communication Engineering  
Year Semester Section : IV/VII/B  
Class strength : 44  
Proposed industries for visit :  
1. Hindustan Aeronautics Limited, Bengaluru, Karnataka.  
2. Entho Technology Solutions India Pvt. Ltd, Bengaluru, Karnataka.

Proposed period of Industrial visit : 19.06.2018

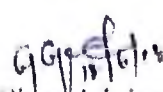
Reason/Justification for organizing Industrial visit (IV)/Industrial Training (IT):


- Visiting various industries R&D organizations will enrich and upgrade the knowledge about the latest technological advancements practiced in their premises and enhance the skills of the students.
- Accomplishing the outcomes such as
  1. Recognizing the various process units
  2. Identifying input and output of the process
  3. Observing the importance of safety and quality
  4. Explaining the concepts and principles
  5. Exposing to the real-time applications
  6. Exploring Industry-Institute Interaction for student internships, student career opportunities, curriculum development of special courses to fill the curricular gap, arranging expert lecture and funded research and consultancy projects.

Note:

- Faculty Coordinator (IV/IT) and Class Advisor are informed to follow the general guidelines for organising Industrial Visit/Industrial Training.
- Students and Accompanying faculty members are instructed to observe the IV/IT RULES AND REGULATIONS FOR STUDENTS/ACCOMPANYING FACULTY MEMBER

  
Faculty Coordinator (IV/IT)

  
Class Advisor

  
HOD/ECE

Permission granted/not granted

  
PRINCIPAL

# RAMCO INSTITUTE OF TECHNOLOGY

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### SCHEDULE FOR INDUSTRIAL VISIT

18.06.2018

The Department of ECE Association (RIT-ELECTRONICA) has arranged an Industrial Visit to "Hindustan Aeronautics Limited and Enthu Technology Solutions India Private Limited, Bengaluru, Karnataka" from 19.06.2018 (Tuesday) to 21.06.2018 (Thursday) for IV year ECE B section students.

#### Itinerary

Date	Time	Activities
18.06.2018	5.30 PM	Start from RIT Campus
	7.30 PM	Dinner
19.06.2018	6.00 AM	Reach Hotel Taiba Regency
	8.00 AM	Breakfast
	9.30 AM	Visit Enthu Technology Solutions India Pvt. Ltd. Bengaluru, Karnataka
	1.00 PM	Lunch
	2.00 PM	Visit Mysuru Palace
	6.30 PM	Reach Hotel Taiba Regency
	7.30 PM	Dinner
20.06.2018	8.00 AM	Breakfast
	9.30 AM	Visit Hindustan Aeronautics Limited, Bengaluru, Karnataka
	1.00 PM	Lunch
	1.30 PM	Visit Brindavan Gardens
	6.00 PM	Reach Hotel Taiba Regency
	7.30 PM	Dinner
21.06.2018	8.00 AM	Breakfast
	10.00 AM	Visit WonderLa Theme Park, Bengaluru
	1.00 PM	Lunch
	6.00 PM	Start from Bengaluru
	7.30 PM	Dinner
22.06.2018	6.00 AM	Reach RIT Campus

*[Signature]*  
18/6/18

Faculty In-charge

*[Signature]*  
18/6/18

HOD/ECE

*[Signature]*  
18/6/18

PRINCIPAL

RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM

REQUESTING PERMISSION FOR ORGANIZING  
INDUSTRIAL VISIT/INDUSTRIAL TRAINING

Date: 18.05.2018

Submitted to the Principal:

Department : Electronics and Communication Engineering  
Year/Semester/Section : I/II/B  
Class strength : 52  
Proposed industries for visit :  
1. RAMCO Group Textile Division, Rajapalayam.  
Proposed period of Industrial visit : 30.05.2018

Reason/Justification for organizing Industrial visit (IV)/Industrial Training (IT):

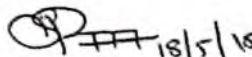
- Visiting various industries/R&D organizations will enrich and upgrade the knowledge about the latest technological advancements practiced in their premises and enhance the skills of the students.
- Accomplishing the outcomes such as
  1. Recognizing the various process units
  2. Identifying input and output of the process
  3. Observing the importance of safety and quality
  4. Explaining the concepts and principles
  5. Exposing to the real-time applications
  6. Exploring Industry-Institute Interaction for student internships, student career opportunities, curriculum development of special courses to fill the curricular gap, arranging expert lecture and funded research and consultancy projects.

Note:

- Faculty Coordinator (IV/IT) and Class Advisor are informed to follow the general guidelines for organising Industrial Visit/Industrial Training.
- Students and Accompanying faculty members are instructed to observe the *IV/IT RULES AND REGULATIONS FOR STUDENTS/ACCOMPANYING FACULTY MEMBER*

  
Faculty Coordinator (IV/IT)

  
Class Advisor

  
HOD/Incharge

Permission granted/~~not granted~~

  
PRINCIPAL

RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM

REQUESTING PERMISSION FOR ORGANIZING  
INDUSTRIAL VISIT/INDUSTRIAL TRAINING

Date: 18.05.2018

Submitted to the Principal:

Department : Electronics and Communication Engineering  
Year/Semester/Section : I/II/A  
Class strength : 52  
Proposed industries for visit :

1. RAMCO Group Textile Division, Rajapalayam.

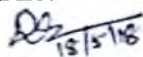
Proposed period of Industrial visit : 30.05.2018

Reason/Justification for organizing Industrial visit (IV)/Industrial Training (IT):

- Visiting various industries/R&D organizations will enrich and upgrade the knowledge about the latest technological advancements practiced in their premises and enhance the skills of the students.
- Accomplishing the outcomes such as
  1. Recognizing the various process units
  2. Identifying input and output of the process
  3. Observing the importance of safety and quality
  4. Explaining the concepts and principles
  5. Exposing to the real-time applications
  6. Exploring Industry-Institute Interaction for student internships, student career opportunities, curriculum development of special courses to fill the curricular gap, arranging expert lecture and funded research and consultancy projects.

Note:

- Faculty Coordinator (IV/IT) and Class Advisor are informed to follow the general guidelines for organising Industrial Visit/Industrial Training.
- Students and Accompanying faculty members are instructed to observe the *MITT RULES AND REGULATIONS FOR STUDENTS/ACCOMPANYING FACULTY MEMBER*

  
Faculty Coordinator (IV/IT)

  
Class Advisor

  
HOD/Incharge

Permission granted/~~not granted~~

  
PRINCIPAL

**RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Academic Year 2017-2018**

**Industrial Visit at Rajapalayam Mills Limited, Rajapalayam**

**Date: 28.05.2018**

**Branch/Year/Semester/Section:** B.E CSE /I Year/ II Semester

**Date of Industrial visit:** 28.05.2018

**Details of Industries to be visited (attach industry permission letter):**

1. Rajapalayam Mills Limited, Rajapalayam

**Accompanying Faculty members:**

1. Ms.G.Mahalakshmi, AP/CSE
2. Ms.S.Manjula, AP/CSE
3. Ms.P.Jothi Thilaga, AP/CSE

**ABOUT THE INDUSTRY:**

Rajapalayam Mills Ltd. established in 1938, with 6800 Spindles imported from England. Rajapalayam Mills today produces 11 million kgs of yarn per year, employs more than 1000 workers and has a turnover of over Rs.1818 million. Acknowledged as the most efficient spinning mills in the industry. Rajapalayam Mills has set the industry standard for quality and price in cotton yarn manufactured with a production increase of about 40% purely through modernization.

**Product range of the company includes:**

Rajapalayam Mills Ltd is engaged in manufacture and sale of yarns

- Ring Yarn (Ne) – 30/1 to 120/1
- Compact Yarn (Ne) – 30/1 to 140/1
- Elitwist Compact Yarn (Ne) – 40/2 to 200/2
- TFO Doubled Yarn (Ne) – 40/2 to 160/2
- Gassed Yarn (Ne) – 40/2 to 220/2
- Slub & Multicount Yarn (Ne) – 16s to 94s
- Model / Tencel Yarn (Ne) – 20s to 40s
- OE Yarn (Ne) – 4s to 20s
- Organic Cotton Yarn – 30s to 60s

**Session:**

Two staff members from the industry explained us about the terms and condition of their industry, where they are importing their raw material and how they are manufacturing the products.

The students where splitted into two groups and the staff members took the students around the company to explain about the manufacturing process. They explained each process in detail how the raw cotton is turned into yarn.

To begin the spinning process, the compressed staple fiber delivered to the spinning plant is unraveled using a mixing and blowing machine. It is then cleaned by removing substance such as leaves, seeds, or sand adhering to it. Finally, the staple fiber is processed into sheet-shaped lap. The sheet-shaped lap processed in the mixing and blowing process is combed using the carding machine to separate the fibers and remove fine dust and short fibers. Remaining long fibers are aligned nearly parallel and collected to be processed into the string-shaped "carded sliver."



The carded sliver is further combed to remove short fibers and dust that could not be removed in the carding process. Fibers are then arranged parallel to obtain uniform combed sliver. This process is essential to manufacture uniform, high-quality yarn. Six to eight slivers after the carding or combing process are gathered and elongated to six to eight times their original length using a drawing machine to straighten and remove uneven thickness from the fibers. This process transforms fibers into string-like "drawn sliver. Twisting is first applied to fibers in this process to obtain the yarn, which is wound onto a bobbin.

In the fine spinning process, the last of the main spinning processes, the yarn resulting from the roving process is further elongated to obtain a desired thickness and then twisted. The final product, or the finished yarn, is wound on a bobbin. The winding process involves rewinding the finished yarn onto bobbins into the cheese or cone according to its purpose. Finally, the manufactured yarn is inspected and folded. Imperfections are corrected as required. The yarn is packed in a manner appropriate to the shipping conditions.



### SUMMARY:

The purpose of conducting the industrial visit is to make students to enrich and upgrade the knowledge about the latest technological advancement practiced and enhance the skills of the students.

I would like to thank our facilitators Dr.k.Vijayalakshmi, HOD/CSE for motivating us to attend such industrial visit. Also, we extend our thanks to Dr.S.Rajakarunakaran, Principal-Incharge for his good support for facilitating such valuable activities.

*G. Mahalingam*  
Prepared By 29/5/18

*K. S. Rajakarunakaran*  
29/05/18  
Approved By



# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001:2015 certified Institution



LT. NO RIT/CSE/IV/2018-2019/002

Date: 06/06/2018

To

THE VICE PRESIDENT (Technical),  
RAMCO Group Textile Division,  
Rajapalayam - 626 117.

*Handwritten initials and signatures*

Dear Sir,

Sub: Permission for Industrial Visit - I Year CSE - 24 students - Reg.

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

In this context, we would like to send a batch of about 24 students of I year B.E. Computer Science and Engineering accompanied by two faculty members to visit your esteemed industry preferably on 07.06.18 (Thursday) from 2.00 PM to 5.00 PM.

I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

We assure you that our students will observe the rules and regulations that are prescribed by your industry for the visitors and will in no way disturb the functioning of the industry during their visit.

We shall be grateful to you for a favorable response. Herewith we have furnished the list of students and accompanying faculty.

Thanking you,

Yours faithfully

*Handwritten signature*  
HOD-CSE 06/06/18

*Handwritten signature*  
PRINCIPAL 06/06/18

North Venganallur, Rajapalayam - 626 117, Tamil Nadu.

Tel : 04563 233400, 233410; Fax : 233499

•-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in

RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM

REQUESTING PERMISSION FOR ORGANIZING  
INDUSTRIAL VISIT/INDUSTRIAL TRAINING

Submitted to the Principal:

Date: 06.06.2018

Department : Computer Science and Engineering

Year/Semester/Section : B.E CSE /I Year/II Semester

Class strength : 24 Students

Proposed industries for visit :

1. Rajapalayam Mills Limited, Rajapalayam

Proposed period of Industrial visit : 1 Day

Reason/Justification for organizing Industrial visit (IV)/Industrial Training (IT):

- Visiting various industries/R&D organizations will enrich and upgrade the knowledge about the latest technological advancements practiced in their premises and enhance the skills of the students.
- Accomplishing the outcomes such as
  1. Recognizing the various process units
  2. Identifying input and output of the process
  3. Observing the importance of safety and quality
  4. Explaining the concepts and principles
  5. Exposing to the real-time applications
  6. Exploring Industry-Institute Interaction for student internships, student career opportunities, curriculum development of special courses to fill the curricular gap, arranging expert lecture and funded research and consultancy projects.

Note:

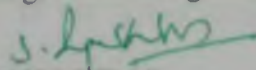
- Faculty Coordinator (IV/IT) and Class Advisor are informed to follow the general guidelines for organising Industrial Visit/Industrial Training.
- Students and Accompanying faculty members are instructed to observe the *IV/IT RULES AND REGULATIONS FOR STUDENTS/ACCOMPANYING FACULTY MEMBER*

G. Mahalingam 6/6/18  
Faculty Coordinator (IV/IT)

G. Mahalingam 6/6/18  
Class Advisor

K. J. Srinivasan 06/06/18  
HoD/Incharge

Permission granted/not granted

  
PRINCIPAL

# RAJAPALAYAM MILLS LIMITED

Regd. Office : Rajapalayam Mills Premises, P A C, Ramasamy Raja Salai,  
Post Box No. 1, Rajapalayam, Tamil Nadu, Pin : 626 117.

CIN : L17111TN1936PLC002298  
PAN : AAACR8897F  
GSTIN : 33AAACR8897F1Z1



Telephone : 91 4563 235666 (5 lines)  
Fax : 91 4563 236520  
E-mail : rajacot@ramcotex.com  
rajacot@bsnl.in  
Website : www.rajapalayammills.co.in

16.05.2018

The Principal  
Ramco Institute of Technology,  
North Venganallur Village,  
Rajapalayam.

Dear Sir,

Sub: Permission for Industrial Visit – reg

This has with reference to your letter dated 04.05.2018, regarding your CSE students' visit to our factory. We pleased to inform you that we are permitting your students to visit our units on 28.05.2018 (Monday) between 2.00 pm to 5.00 pm, in our Mills.

Thanking you

For **Rajapalayam Mills Limited**

V. Raju  
Vice President-Technical

RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM

REQUESTING PERMISSION FOR ORGANIZING  
INDUSTRIAL VISIT/INDUSTRIAL TRAINING

Date: 28.05.2018

Submitted to the Principal:

Department : Computer Science and Engineering  
Year/Semester/Section : B.E CSE /I Year/II Semester  
Class strength : 30 Students  
Proposed industries for visit :  
1. Rajapalayam Mills Limited, Rajapalayam  
Proposed period of Industrial visit : 1 Day

Reason/Justification for organizing Industrial visit (IV)/Industrial Training (IT):

- Visiting various industries/R&D organizations will enrich and upgrade the knowledge about the latest technological advancements practiced in their premises and enhance the skills of the students.
- Accomplishing the outcomes such as
  1. Recognizing the various process units
  2. Identifying input and output of the process
  3. Observing the importance of safety and quality
  4. Explaining the concepts and principles
  5. Exposing to the real-time applications
  6. Exploring Industry-Institute Interaction for student internships, student career opportunities, curriculum development of special courses to fill the curricular gap, arranging expert lecture and funded research and consultancy projects.

Note:

- Faculty Coordinator (IV/IT) and Class Advisor are informed to follow the general guidelines for organising Industrial Visit/Industrial Training.
- Students and Accompanying faculty members are instructed to observe the *IV/IT RULES AND REGULATIONS FOR STUDENTS/ACCOMPANYING FACULTY MEMBER*

G. Mahalingam 28/5/18  
Faculty Coordinator (IV/IT)

G. Mahalingam 28/5/18  
Class Advisor

K. J. J. 28/05/18  
HoD/Incharge

Permission granted/not granted

  
PRINCIPAL

**RAMCO INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Academic Year 2017-18**

**Industrial visit at Bharath Electronic Limited, Bangalore,**

**Date: 27-Nov -2017**

**FACULTY MEMEBER:**

M.Swarna Sudha, AP (SG)/CSE,

Mr.D.Lakshmanan AP/CSE

Ramco Institute of Technology, Rajapalayam.

**ATTENDED BY:**

IV Year CSE Students - 38

**ABOUT THE INDUSTRY:**

In 1954, in a newly independent India, the need to develop indigenous industry. The dream of a self-reliant India gave birth to many Public Sector Undertakings. Bharat Electronics Limited (BEL) was one such dream. The objective is to be a customer focussed company providing state-of-the-art products & solutions at competitive prices, meeting the demands of quality, delivery & service.

BEL designs, develops and manufactures products in the fields of:

- Electronic voting machine
- Defence Communication products
- Naval Systems
- Weapons Systems
- Simulators
- Batteries





### SESSION:

The session started with the presentation. A faculty from the industry explained us about the terms and conditions of their industry and where they are importing their raw materials and how they are manufacturing the products.

Then expert took the around the company using company bus visiting all departments where the products are manufactured, assembly section and testing section .Finally we went checking the quality by quality assurance section. The defense products tested in different environment. They explained clearly about the software's used behind the machines and how the coding's are done. They produce a wide variety of defense and non-defense product. BELL also manufactures related products optoelectronics components and assemblies, Microwave Integrated Circuit Assemblies, Antennae manufacturing. Products and services from BEL for offset requirements include manufacture of precision mechanical parts and assemblies for use in aircraft. He also discusses the recruitment procedure done in Bell Company.

### SUMMARY:

The purpose of conducting the industrial visit is to make students to gain knowledge about the contribution of computer science.

I would like to thank our facilitators Dr. K. Vijayalakshmi, HOD/CSE for motivating us to attend such Industrial visit. Also, we extend our thanks to Dr. R. V. Mahendra Gowda, Principal, for his good support for facilitating such valuable activities at CSE Department.

Prepared By

S. Sudha  
1/12/17

Approved By  
01/12/17



Date: 18.11.2017

To  
General Manager,  
Public Relation Department,  
Bharat Electronics Limited,  
Bangalore -560 097.

Sir,

**Sub: Permission for industrial visit - IV Year CSE-38 students-Reg.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

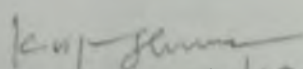
In this context, we had already planned to send a batch of about 38 students of IV Year B.E. Computer Science and Engineering accompanied by two faculty members to visit industry on 20.11.2017. Due to unavoidable circumstance we wish to postpone our visit. You confirmed the date on 27.11.2017 to visit your esteemed industry. I enclosed the list of students and faculties coming to your industry. Kindly request you to bear with the inconvenience caused and I accord the necessary permission for the above visit and arrange for guiding the students.

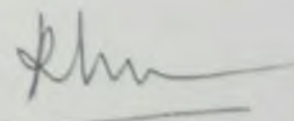
We assure you that our students will observe the rules and regulations that are prescribed by your company for the visitors and will in no way disturb the functioning of the company during their visit.

We shall be grateful to you for a favourable response. Herewith we have furnished the list of students and accompanying faculty.

Thanking you,

Yours faithfully,

  
HOD/CSE 18/11/17



**PRINCIPAL**

North Vengalloor, Rajapalayam - 626 117, Tamil Nadu.

Tel : 04563 233400, 233410, Fax : 233499

e-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in

RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM

REQUESTING PERMISSION FOR ORGANIZING  
INDUSTRIAL VISIT/INDUSTRIAL TRAINING

Submitted to the Principal:

Date: 22.11.2017

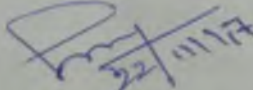
Department : Computer Science and Engineering  
Year/Semester/Section : B.E CSE/ IVYear/ VII Semester  
Class strength : 38 Students  
Proposed industries for visit :  
1. Bharath Electronic Limited, Bangalore, Karnataka 560 058.  
Proposed period of Industrial visit : 2 Days

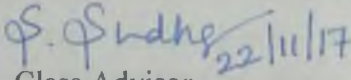
Reason/Justification for organizing Industrial visit (IV)/Industrial Training (IT):

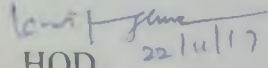
- Visiting various industries/R&D organizations will enrich and upgrade the knowledge about the latest technological advancements practiced in their premises and enhance the skills of the students.
- Accomplishing the outcomes such as
  1. Recognizing the various process units
  2. Identifying input and output of the process
  3. Observing the importance of safety and quality
  4. Explaining the concepts and principles
  5. Exposing to the real-time applications
  6. Exploring Industry-Institute Interaction for student internships, student career opportunities, curriculum development of special courses to fill the curricular gap, arranging expert lecture and funded research and consultancy projects.

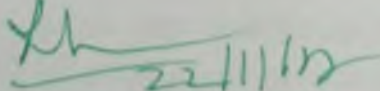
Note:

- Faculty Coordinator (IV/IT) and Class Advisor are informed to follow the general guidelines for organising Industrial Visit/Industrial Training.
- Students and Accompanying faculty members are instructed to observe the *IV/IT RULES AND REGULATIONS FOR STUDENTS/ACCOMPANYING FACULTY MEMBER*

  
Faculty Coordinator (IV/IT)

  
Class Advisor

  
HOD

  
PRINCIPAL

**RAMCO INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Academic Year 2017-18**

**Industrial visit at Pragati Automation PVT Ltd**

**Date: 23-Aug-2018**

**FACULTY MEMBER:**

Mr.R.Venkatesh, AP (SG)/CSE,

Ms. P. Abinaya, AP/CSE and

Ms.J.Subthami, AP/CSE

Rameo Institute of Technology, Rajapalayam.

**ATTENDED BY:**

III Year CSE Students - 50.

**ABOUT THE INDUSTRY:**

Pragati Automation Pvt. Ltd, (earlier known as Pragati Engineering Works) was established in 1977 by Mr A.V. Sathe and Mr P.D. Kulkarni, with the objective of manufacturing world class machine tools in India.

Pragati has also made a foray into China, setting up a world class manufacturing plant in Jiaxing, near Shanghai, a feat that few other Indian companies have achieved. Pragati is now leading manufacturer of Tool Turrets and ATCs (Automatic tool changers).



### SESSION:

The session started with the presentation. A faculty from the industry explained us about the terms and conditions of their industry and where they are importing their raw materials and how they are manufacturing the products. Pragati is known for its Automatic Tool Changers (ATC). ATC is used in Computerized Numerical Control (CNC) machine tools to improve the production and carrying capacity of the machine.

Then we went into the machine's section to see the working of the machines. They explained clearly about the software's used behind the machines and how the coding's are done. They produce a wide variety of turrets, including hydraulic turrets, servo turrets etc., Pragati also manufactures related products like Tool discs and Tool holders using the ATC technology. The coding is written in the AutoCAD language.

### SUMMARY:

The purpose of conducting the industrial visit is to make students to gain knowledge about the contribution of computer science.

I would like to thank our facilitators Mr. R. Venkatesh, Ms. P. Abinaya and Ms. J. Sabthami, Assistant Professor/CSE and also Dr. K. Vijayalakshmi, HOD/CSE for motivating us to attend such Industrial visit. Also, we extend our thanks to Dr. R. V. Mahendra Gowda, Principal, for his good support for facilitating such valuable activities at CSE Department.

*Copy*  
Prepared By  
(P. Abinaya, AP/CSE)  
20/10/23

*Copy*  
Approved By  
20/10/23

REQUESTING PERMISSION FOR ORGANIZING  
INDUSTRIAL VISIT/INDUSTRIAL TRAINING

Date: 21.08.17

Submitted to the Principal:

Department : Computer Science and Engineering  
Year/Semester/Section : B.E CSE/ III Year/ V Semester  
Class strength : 52 Students  
Proposed industries for visit :

1. Pragati Automation Pvt. Ltd, Bangalore, Karnataka 560 058.

Proposed period of Industrial visit : 2 Days

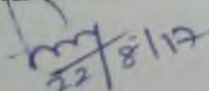
Reason/Justification for organizing Industrial visit (IV)/Industrial Training (IT):

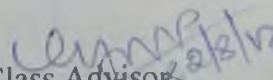
- Visiting various industries/R&D organizations will enrich and upgrade the knowledge about the latest technological advancements practiced in their premises and enhance the skills of the students.
- Accomplishing the outcomes such as
  1. Recognizing the various process units
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  4. Explaining the concepts and principles
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  6. Exploring Industry-Institute Interaction for student internships, student career opportunities, curriculum development of special courses to fill the curricular gap, arranging expert lecture and funded research and consultancy projects.

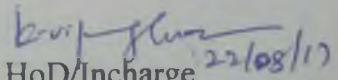
Note:

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- Students and Accompanying faculty members are instructed to observe the IV/IT

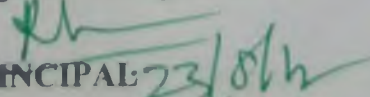
*RULES AND REGULATIONS FOR STUDENTS/ACCOMPANYING FACULTY MEMBER*

  
22/8/17  
Faculty Coordinator (IV/IT)

  
22/8/17  
Class Advisor

  
22/08/17  
HoD/Incharge

Permission granted/not granted

  
PRINCIPAL 23/08/17

IV



Dr.K.Vijayalakshmi  
Professor and Head  
Department of Computer Science and Engineering  
Ramco Institute of Technology  
Rajapalayam – 626 117

Mobile No: 094866 04522  
E-mail: vijayalakshmik@ritrjpm.ac.in

To

Date: 10/08/2017

Mr.Deepak Joglekar,  
Director (Technical),  
Pragati Automation Pvt. Ltd,  
19&20, Plot No.467-469, 12h Cross,  
Peenya Industrial Area,  
Bangalore - 560 058.

Sir,

**Sub: Permission for Industrial Visit – III Year CSE – 57 students – Reg.**  
**Ref: Swaroop and Jaikar Sankarappan.**

I wish to inform you that, as a part of the curriculum, all students are required to undertake Industrial Visits to a few industries of repute. We feel it will be fruitful if the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory.

With the reference of Swaroop and Jaikar Sankarappan, we would like to send a batch of about 57 students of III year B.E. Computer Science and Engineering accompanied by three faculty members to visit your esteemed industry preferably on 24.08.2017 (Thursday). I request you to kindly accord the necessary permission for the above visit and arrange for guiding the students.

We assure you that our students will observe the rules and regulations that are prescribed by your company for the visitors and will in no way disturb the functioning of the company during their visit.

We shall be grateful to you for a favorable response. Herewith we have furnished the list of students and accompanying faculty.

Thanking you,

Yours faithfully,

*but flm*  
10/8/17  
HOD-CSE

**Dr. K. VIJAYALAKSHMI, M.E., Ph.D.,**  
Professor & Head,  
Department of Computer Science & Engg.  
Ramco Institute of Technology.  
RAJAPALAYAM - 626 117.



**19<sup>th</sup> June 2018**

**To Whomsoever It May Concern**

**Mr. R Muthu Vijaya Kumar** from **Ramco Institute of Technology- Tamil Nadu** has successfully completed his internship training at Sobha Limited for the duration from **05<sup>th</sup> June 2018 to 19<sup>th</sup> June 2018.**

We wish him all the best for his future endeavors.

Thanking you,

**For Sobha Ltd.**

  
**Srinivas Shetty**  
**Deputy General Manager HR.**

**SOBHA LIMITED**

REGD & CORPORATE OFFICE : 'SOBHA', SARJAPUR - MARATHAHALLI OUTER RING ROAD, BELLANDUR POST, BANGALORE - 560103, INDIA  
CIN: L45201KA1995PLC01B475 | TEL : +91-80-49320000 | FAX : +9180 49320444 | www.sobha.com



**19<sup>th</sup> June 2018**

**To Whomsoever It May Concern**

**Mr. Rohith Kumar** from **Ramco Institute of Technology- Tamil Nadu** has successfully completed his internship training at Sobha Limited for the duration from **05<sup>th</sup> June 2018 to 19<sup>th</sup> June 2018.**

We wish him all the best for his future endeavors.

Thanking you,

**For Sobha Ltd.**

  
**Srinivas Shetty**  
**Deputy General Manager HR.**

**SOBHA LIMITED**

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**19<sup>th</sup> June 2018**

**To Whomsoever It May Concern**

**Mr. N Muthu Prakash** from **Ramco Institute of Technology- Tamil Nadu** has successfully completed his internship training at Sobha Limited for the duration from **05<sup>th</sup> June 2018 to 19<sup>th</sup> June 2018**.

We wish him all the best for his future endeavors.

Thanking you,


**For Sobha Ltd.**

  
**Srinivas Shetty**

**Deputy General Manager HR.**

**SOBHA LIMITED**

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**SOBHA**

PASSION AT WORK

**19<sup>th</sup> June 2018**

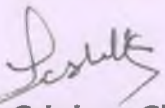
**To Whomsoever It May Concern**

**Mr. T Raghul from Ramco Institute of Technology- Tamil Nadu** has successfully completed his internship training at Sobha Limited for the duration from **05<sup>th</sup> June 2018 to 19<sup>th</sup> June 2018.**

We wish him all the best for his future endeavors.

Thanking you,

**For Sobha Ltd.**



**Srinivas Shetty**

**Deputy General Manager HR.**

**SOBHA LIMITED**

REGD & CORPORATE OFFICE 'SOBHA', SARJAPUR - MARATHAHALLI OUTER RING ROAD, BELLANDUR POST, BANGALORE - 560103, INDIA

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**19<sup>th</sup> June 2018**

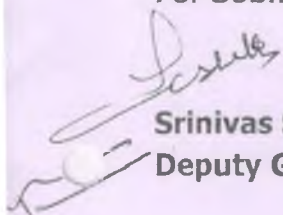
**To Whomsoever It May Concern**

**Mr. M. Gokul Nath from Ramco Institute of Technology- Tamil Nadu** has successfully completed his internship training at Sobha Limited for the duration from **05<sup>th</sup> June 2018 to 19<sup>th</sup> June 2018.**

We wish him all the best for his future endeavors.

Thanking you,

**For Sobha Ltd.**

  
**Srinivas Shetty**  
**Deputy General Manager HR.**

**SOBHA LIMITED**

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RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai)  
An ISO 9001:2015 certified Institution



Date: 23/02/2018

### Bonafide Certificate

This is to certify that **S.Balakumaresan** (Reg. No.: 953615114010) is a bonafide student of our college, studying in Third Year B.E Mechanical Engineering during the academic year 2017-2018. This certificate is issued for the purpose of attending internship training programme in your esteemed organisation for the period of 60 days.



  
**PRINCIPAL**  


North Venganallur, Rajapalayam – 626 117, Tamil Nadu.

Tel : 04563 233400, 233410; Fax : 233499

e-mail : rit.rjpm.office@gmail.com, rit.rjpm@gmail.com, www.ritrjpm.ac.in



Bala selvaraj &lt;balamech1998@gmail.com&gt;

## Internship Invitation - RNAIPL

3 messages

**Training, Support** <training.support@rnaipl.com>

Wed, May 2, 2018 at 3:18 PM

To: "balamech1998@gmail.com" <balamech1998@gmail.com>

Cc: "Nijil, Gangadharan" <nijil.gangadharan@rnaipl.com>, "Job, Antony" <job.antony@rnaipl.com>, "Anusha, Ramalingam" <anusha.ramalingam@rnaipl.com>, "Saravanan, Anbalagan" <anbalagan.saravanan@rnaipl.com>

Dear **BalaKumaresan S,**

**Greetings from Renault Nissan Automotive India Pvt. Ltd. !**

Further to your application, we are happy to inform that you have been selected to pursue your internship at Renault Nissan Automotive India Private Limited (RNAIPL).

Please make note of details as under:

Duration of Internship	10-05-2018 TO 10-07-2018
Reporting Date	10-05-2018
Reporting Time	9:00 AM
Department	Vehicle Production Engineering – Trim & Chassis
Mentor	Anusha R
HR SPOC	Mr Nijil (044-37197182)
Venue	Renault Nissan Automotive India Private Limited Plot No. 1, SIPCOT Industrial Park, Oragadam Mattur Post, Sriperumbudur, Kancheepuram – 602 105

You are required to bring the following documents on the day of your joining:

- Résumé
- Bona-fide Certificate – Original
- College ID Proof – Original & Photocopy
- Print out of this invitation mail
- Passport - Size Photo (2)
- Any Valid Govt ID Proof Photocopy

Note: **Safety Shoe and Cap (Mandatory).**

**Below is a brief about Renault Nissan Alliance:**

**Renault Nissan Automotive India Private Limited**

Renault-Nissan plant in Oragadam, Chennai is the first dedicated Alliance global plant.

Representing an investment of over 45 billion Rupees over 7 years, the plant has the capacity to produce 480,000 units per year at full ramp up.

The Renault-Nissan Alliance had announced its plans to build a new manufacturing plant in Chennai, India, by the signature of a Memorandum of Understanding with the Government of Tamil Nadu on February 22nd, 2008. The official ground breaking ceremony took place on June 6th, 2008 and the production started in May 2010. The first vehicle produced at the plant was the Nissan Micra, a global hatchback.

Renault-Nissan Automotive India Private Limited has crossed a milestone of having manufactured 1 million cars from this plant.

The companies, which have been strategic partners since 1999, have nearly 350,000 employees and control seven major brands: Renault, Nissan, Infiniti, Renault Samsung Motors, Dacia, Datsun, Dongfeng and Lada.

#### **Terms & Conditions:**

1. Office timing > 9:00 AM – 4:30 PM.
2. No stipend will be paid.
3. Free transport (to and from Tambaram) will be provided.
4. Camera mobiles, laptops and any kind of electronic gadgets with camera are prohibited within the premises.

Wishing you all the best with your experience at RNAIPL.

**Regards**

**HR T&D**

**Renault Nissan Automotive India Pvt Ltd**

Plot No 1 , SIPCOT Industrial Estate,  
Post- Mattur, Oragadam, Kancheepuram;

Chennai-602105; INDIA

Ph no: 044 37197182



\*\*\*\*\*  
CONFIDENTIALITY NOTICE

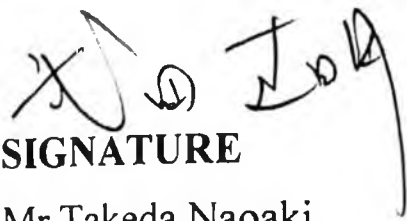
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## BONAFIDE CERTIFICATE

This is to certify the project entitled report “**COST REDUCTION ON SEALER**” submitted is a bonafide record of the work done by **BALAKUMARESAN S**, pursuing Mechanical Engineering in Ramco Institute of Technology, Rajapalyam who carried out the project under our supervision at “**RENAULT NISSAN AUTOMOTIVE INDIA PRIVATE LIMITED**” from 10 May 2018 to 10 July 2018.



**SIGNATURE**

Mr. Takeda Naoaki

**General Manager**

Body shop Department

RNAIPL

Oragadam



10/07/18  
(Anbu)

**SIGNATURE**

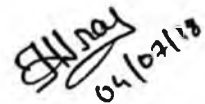
Mr. Anbalagan Saravanan

**Deputy General Manager**

Body shop Department

RNAIPL

Oragadam



10/07/18

**SIGNATURE**

Mr. Johnson Raj A

**Assistant Manager**

Body shop Department

RNAIPL

Oragadam