



VIMAL JYOTHI ENGINEERING COLLEGE

APPROVED BY AICTE AND AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Jyothi Nagar, Chemperi P.O, Kannur Dt. Kerala - 670632 | www.vjec.ac.in

FIELD WORK

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING





VIMAL JYOTHI ENGINEERING COLLEGE

JYOTHI NAGAR, CHEMPERI – 670632, KANNUR, KERELA

Affiliated to APJ Abdul Kalam Technological University, Approved by AICTE
ISO 9001 : 2015 Certified | Accredited by Institution of Engineers (India), NBA, NAAC
Ph: 0490 2212240, 2213399 Email: office@vjec.ac.in Website: www.vjec.ac.in

NAAC Cycle 2

Criterion: 1.3.2

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VIMAL JYOTHI ENGINEERING COLLEGE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING LIST OF STUDENTS UNDERTAKING FIELDWORK		
SLNO	REGISTER NUMBER	NAME
1	VML19EC001	AAVANI M
2	VML19EC002	ABDUL BASITH C C
3	VML19EC003	ADARSH V K
4	VML19EC004	ADWAITH KRISHNA
5	VML19EC005	AMAL PRAMOD
6	VML19EC006	ANGITHA N
7	VML19EC007	ANJANA MUKUNDAN K
8	VML19EC008	ANUSREE K V
9	VML19EC010	ARCHANA T
10	VML19EC011	ASHIK BENNY
11	VML19EC012	ASWIN SURENDRAN
12	VML19EC013	ATHUL GEORGE
13	VML19EC014	BRAJESH P V
14	VML19EC015	CHAITHRA P PRADEEPAN
15	VML19EC016	CHITHRA S
16	VML19EC017	DHANUSH C H
18	VML19EC019	FLEMY
19	VML19EC020	GEETHIKA T
20	VML19EC021	GEOFFIN SAJAN
21	VML19EC022	GOPIKA GOPALAKRISHNAN
22	VML19EC024	JACOB JAMES
23	VML19EC025	JOBIN JOSEPH
25	VML19EC027	KEERTHI PRADEEP KUMAR
26	VML19EC028	KRIS PARUKUNNEL THANKACHAN
27	VML19EC029	MALAVIKA AJITH
28	VML19EC030	MANAS TOM
29	VML19EC031	MARTIN P THOMAS
30	VML19EC032	MELVIN JOSEPH
32	VML19EC034	NAYANA SAJI
33	VML19EC035	NEVIN SAJI
34	VML19EC036	NISWARTH A V
35	VML19EC037	OLIVIA ANN MATHEW
36	VML19EC038	RUBY SHARIN
37	VML19EC039	SAGAR UNNIKRISHNAN
38	VML19EC040	SAISHNA SHAMEJ





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39	VML19EC041	SANATH K
40	VML19EC042	SARANG K
41	VML19EC043	SAVIO JOSE
42	VML19EC044	SEBASTIAN GEORGE
43	VML19EC045	SHILPA M NAIR
44	VML19EC046	SHREYA DEEP ANAND
45	VML19EC047	SHRUTI BALACHANDRAN
46	VML19EC048	SIDHARTH K
47	VML19EC049	SNEHA SAJEEVAN T
48	VML19EC050	SOURAV K R V
49	VML19EC051	SWATHI LAKSHMI K V
52	VML19EC055	VIMAL KUMAR P P
53	VML19EC056	VISHNU SHANKAR V K
54	LVML19EC057	ABHIJITH C
55	LVML19EC058	ABHINAV K V
56	LVML19EC059	AKHIL SUNNY
57	LVML19EC060	AKSHAY JANARDHANAN
58	LVML19EC061	ANJALI K P
59	LVML19EC062	HEERA PRADEEP
60	LVML19EC063	JEENA GEORGE



**VIMAL JYOTHI ENGINEERING COLLEGE
CHEMPERI**



**INDUSTRIAL VISIT REPORT
OF
S8 ECE
(2019-2023 BATCH)**

**Department of Electronics and Communication
Engineering**

2022-2023

INTRODUCTION

Industrial Visit is an important part of the Kerala Technical University curriculum with the goal to understand the technical aspect and workings of an industry which would work hand-in-hand to boost the visual as well as growth in the knowledge base of a BTech student. S8 students of Electronics and Communication department set out to boost this knowledge base for a 3 Day Industrial Visit to Astronomy Research Centre and Dhoddabetta Tea Factory and Chocolate Factory, Ooty. Visitation permission was granted and schedules for the 11th of March, 2023 between 10am- 5pm. The visit was packed with 50 Electronics and Communication Engineering students, 3 faculty members and parent representative to interact with the industry and take in the know-how.

AIM OF THE INDUSTRIAL VISIT

Industrial visit is considered as one of the tactical methods of teaching which is encouraged by our University curriculum to help embolden the students into the desired professionals. The main reason behind this is to let students know the practicality of things through interaction, working methods and employment practices. Moreover, it gives exposure from an academic point of view. It gives them exposure to current work practices as opposed to possibly theoretical knowledge being taught at college. The main aim of an Industrial Visit is to provide an exposure to students about the working environment and the time consuming steps that each end product has to go through .They also provide students a good opportunity to gain full awareness about industrial practices and gain awareness about new technologies. Technology development is a main factor, about which a students should have a good knowledge. Visiting different companies actually help students to build a good relationship with those companies.

After visiting an industry the students can gain a combined knowledge about both theory and practical involvement in the workings.

OBJECTIVES

- An opportunity to get exposure to the real workstations, plants, machines and systems.
- Opportunity to get the senior functional experts / supervisors to explain about company functions.
- Company tour to understand the end-to-end process at all levels.
- Expert briefing about the functioning of machines and systems.
- Opportunity to have a face-to-face session with technical or administrative experts of the organization to ask questions and clarify doubts.
- Opportunity to understand the company policies in terms of production, quality, and service management.
- Make students aware with industrial practices.
- Acquaint students with interesting facts and newer technologies.
- Practical application of instruments handled during course curriculum.

DETAILS OF THE INDUSTRIAL VISIT

1) Tata Institute of Fundamental Research, National Centre for Radio Astrophysics, Ooty, Tamil Nadu 643001

- Date of Visit: 11th March – 2023
- Faculty during visit: Dr. Anto Sahayadas, Dr. Jayesh George and Ms.Shimna P K
- Class during visit: Final Year, Electronics and Communication

Description of the visit



Introduction to the industry: The Radio Astronomy Centre (RAC) is part of the National Centre of Radio Astrophysics (NCAR) of the well-known Tata Institute of Fundamental Research (TIFR) which is funded by the Government of India through the Department of atomic energy. The RAC is situated near Udhagamandalam in the beautiful surroundings of the Nilgiri Hills and it provides stimulating Environment for the front-line research in radio astronomy and astrophysics with its excellent and highly qualified staff and international reputations.

This is a dedicated Astronomy Centre for research and training. This was established by Ratan Tata Basic research Centre. This institute houses physicists, mathematicians and statisticians. It was indeed an enriching experience. The faculty and staff over there were very hospitable and helpful. Our students gained a lot and wanted to delve more into this field.





Contact details

INSTITUTE DETAILS

Radio Astronomy Centre
NCRA - TIFR
Post Box No - 8
Udhagamandalam
Dist: Nilgiris State: Tamilnadu
PIN: 643 001.

☎ 0423 2244880 / 2244888

✉ www@rac.ncra.tifr.res.in

2) The Tea Factory & The Tea Museum, Dodabetta Road, Mel Koddapmund, Ooty, Tamil Nadu 643002

- Date of Visit: 11th March – 2023
- Faculty during visit: Dr. Anto Sahayadas, Dr. Jayesh George and Ms. Shimna P K
- Class during visit: Final Year, Electronics and Communication

Description of the visit



Doddabetta Tea Factory is among the highest-elevation tea factories of the Nilgiris, established 15 years ago, with a view to produce and promote purely authentic Nilgiri teas!

The need for a 'pure blend' of Nilgiri tea has been long-felt, after it was lost to an entire generation, when in the late 1900s, pure blends of Nilgiri teas gave way to 'mixes' and 'matches' with other high grown produce in the region, including Sri Lanka and Assam tea... In fact, in 1858, after the early experiments with tea by the East India Company, Nilgiri tea, dried and hand rolled, was pronounced as 'excellent' in the London auctions!



The class was guided by the staff through the whole process for Tea making, packing and learnt a lot about the history of how it came into place and what equipment were used and how the breaking down of the leaves through each machine was done as a process with patience. We were introduced to the machinery that is used to prepare the tea leaf packets that we see in the stores. What caught our interest was the machinery undergoing the breaking down of the initial product. After gaining a lot of information we were given samples to taste and were able to buy the end products. Next we went to the chocolate factory nearby and saw the whole process of Chocolate making from the Cocoa bean to the delicious chocolates of varied varieties, taste buds were satisfied throughout the visit so was the knowledge gained of how the end products were formulated.



Contact details

Contact

94430-52066

Doddabetta Tea Factory,

Doddabetta Road, Ooty; Nilgiris

DETAILS OF THE TRIP

A 3 day trip to Rameshwaram - Ooty was planned for an Industrial Visit was organized by the students of S8 ECE with the help of Rosariyo Travel Hub, Kannur from 09th March 2023 to 13th March 2023. 50 Electronics and Communication Engineering students, 3 faculty members and parent representative visited the Astronomy Research Centre and Dhoddabetta Tea factory and Chocolate factory to gain.

Detailed instructions regarding the safety and the trip schedule was presented to the parents and faculty in charge through a meeting conducted prior to the trip.

The bus left at 3:30pm from the college premises on 09 March for Kannur railway station where we boarded the train and left for coimbatore. From there we went by bus arranged by Rosariyo Travel Hub to Rameshwaram-Dhanushkoodi-Nilayamvari Temple-Abdul Kalam house and memorial-Meenakshi Amman Temple.

Dhanushkodi is an abandoned town at the south-eastern tip of Pamban Island of the state of Tamil Nadu in India.[1] It is south-east of Pamban and is about 24 kilometres (15 mi) west of Talaimannar in Sri Lanka.

The town was destroyed during the 1964 Rameswaram cyclone and remains uninhabited in the aftermath. Today only a few vendors and restaurants can be seen at Dhanushkodi during the day along with the ruins of the long destroyed town.



Nilayamvari Temple, The remains of the temple. Floating stone can also be witnessed (look for a small well covered with metal grill). Reaching this place itself is an adventure.



Sir APJ Abdul Kalam's house is renovated by the government but it still holds the same structure. The museum contains so many books and life stories and achievements of Sir APJ Abdul Kalam. It also has a uniform which was worn by him. The top floor contains a souvenir shop which has so many items at a very reasonable rate. You can find toys, artificial jewelry, books, show pieces and a lot more. One must visit this place if you are going to Rameswaram.



Meenakshi Amman Temple is a Beautiful with so much history within the walls of the temple. Such a grandeur. The temple is layered with grace and Ancient history. The temple has a "Hall of Thousand pillars" and each pillar is carved with various sculptures.

Thousands and thousands of unique statues, the gopuras, the polish of the statues, the grandeur. Everyone should see it.



All in all it was an exhilarating experience where each moment was cherished.

From there in the evening we left for Ooty and freshened up and left for the Industrial visit around 9am. We reached the Astronomy Radio Centre, This is a dedicated Astronomy centre for research and training. This was established by Ratan Tata Basic research centre. This institute houses physicists, Mathematicians and statisticians. It was indeed an enriching

experience. The faculty and staff over there were very hospitable and helpful. Our students gained a lot and wanted to delve more into this field through the technical aspect.

We then left for Dhoddabetta Tea factory at around 11am, the class was guided by the staff through the whole process for Tea making, packing and learnt a lot about the history of how it came into place and what equipments were used and how the breaking down of the leaves through each machine was done as a process with patience. We were introduced to the machinery that is used to prepare the tea leaf packets that we see in the stores. What caught our interest was the machinery undergoing the breaking down of the initial product. After gaining a lot of information we were given samples to taste and were able to buy the end products. Next we went to the chocolate factory nearby and saw the whole process of Chocolate making from the Cocoa bean to the delicious chocolates of varied varieties, taste buds were satisfied throughout the visit so was the knowledge gained of how the end products were formulated.



The chosen accommodation was Funcity at Ooty where we were provided with a comfortable stay. The facilities were appreciated by everyone and the highlight of the stay was the calm and esthetic ambience of the surroundings.

The food was prepared by Rosariyo Travel hub which was absolutely enjoyed by all, freshly made breakfast, lunch and dinner was equally devoured by all. We visited the Botanical garden, Pine forest, Coonor train safari, Karnataka park and made as many memories with our class as we could in those 2 days in Ooty. A small campfire to dance and sing to glory.



On the 12th we had some time reserved for shopping and then had our dinner and left for Coimbatore that night around 10pm and boarded the train at 6:00 am. We reached around 10:50 am at Kannur and reached back to the campus at around 2:00 pm thus marking the end to our IV. The entire industrial visit gave us an opportunity not just to learn about how an industry works, but also gave us time to bond and understand each other in a better way and create unforgettable memories together.

SCHEDULE OF VISIT

Starting Place: Vimal Jyothi Engineering College

Reaching Place: RAMESWARAM, OOTY

Approximate Traveling Distance (in KM): 1470 KM

09-03-2023

LEAVING FROM COLLEGE	: 04:30 PM
DEPART FROM KANNUR	: 06:05 PM
REACH COIMBATORE	: 11:15 PM

10-03-2023

FRESH UP & BREAKFAST	: 08:30 AM
DEPART TO DHANUSHKODI	: 10:00 AM
TEMPLE	: 11:30 AM
ABDUL KALAM HOUSE	: 12:30 AM
LUNCH BREAK	: 01:30 PM
MUSEUM	: 02:30 PM
DINNER	: 09:00 PM
DEPART TO OOTY	: 10:00 PM

11-03-2023

FRESH UP & BREAKFAST	: 08:30 AM
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ASTRONOMY RADIO CENTER : 09:30 AM
 DHODDABETTA TEA FACTORY : 11:00 AM
 LUNCH BREAK : 01:30 PM
 LAKE : 02:30 PM
 BOTTANICAL GARDEN : 04:30 PM
 CAMPFIRE : 08:30 PM
 DINNER & STAY @OOTY FUNCITY : 09:30 PM

12-03-2023

FRESH UP & BREAKFAST : 08:30 AM
 COONOR TRAIN SAFARI : 09:30 AM
 KARNATAKA PARK : 12:00 PM
 LUNCH BREAK : 01:30 PM
 PINE FOREST : 02:30 PM
 SHOOTING POINT : 03:30 PM
 SHOPPING : 05:00 PM
 DINNER : 08:00 PM
 DEPART TO COIMBATORE : 10:00 PM

13-03-2023

DEPART TO KANNUR : 04:00 AM
 REACH KANNUR : 10:30 AM
 REACH THE CAMPUS : 02:00 PM

FACULTY IN CHARGE

ACCOMPANYING STAFF	DESIGNATION	PHONE NUMBER
Dr.ANTO SAHAYA DHAS	HOD/ECE	+91 9486747931
Dr. JAYESH GEORGE	ASP ECE	+91 9746135446

Ms. SHIMNA P K	AP ECE	+91 9526176877
DOLLY SUNNY	PARENT	+91 9961600237

STUDENTS LIST

Sl.No.	Name of student	Reg.No.
1	Aavani M	VML19EC001
2	Abdul basith cc	VML19EC002
3	Abhijith C	LVML19EC057
4	Abhinav KV	LVML19EC058
5	Adarsh vk	VML19EC003
6	Adwaith Krishna	VML19EC004
7	Akhil Sunny	LVML19EC059
8	Akshay Janardhanan	LVML19EC060
9	Amal Pramod	VML19EC005
10	Angitha N	VML19EC006
11	Anjali KP	LVML19EC061
12	Anjana Mukundan.k	VML19EC007
13	Anusree KV	VML19EC008
14	Archana T	VML19EC010
15	Ashik Benny	VML19EC011
16	Aswin Surendran	VML19EC012
17	Brajesh P V	VML19EC014
18	Chithra S	VML19EC016
19	Dhanush CH	VML19EC017
20	FLEMY JOSE	VML19EC019
21	Geethika.T	VML19EC020
22	Geoffin Sajan	VML19EC021
23	Gopika Gopalakrishnan	VML19EC022
24	Heera Pradeep	LVML19EC062

25	Jacob James	VML19EC024
26	Jeena George	LVML19EC063
27	JOBIN JOSEPH	VML19EC025
28	Keerthi Pradeep Kumar	VML19EC027
29	Kris parukunnel thankachan	VML19EC028
30	Malavika Ajith	VML19EC029
31	MANAS TOM	VML19EC030
32	Martin p Thomas	VML19EC031
33	Melvin Joseph	VML19EC032
34	Nayana Saji	VML19EC034
35	Nevin Saji	VML19EC035
36	Niswarth A V	VML19EC036
37	Olivia Ann Mathew	VML19EC037
38	Ruby sharin	VML19EC038
39	Sagar Unnikrishnan	VML19EC039
40	Saishna Shamej	VML19EC040
41	Sanath K	VML19EC041
42	Sarang K	VML19EC042
43	Savio	VML19EC043
44	Sebastian George	VML19EC044
45	Shreya Deep Anand	VML19EC046
46	Sidharth k	VML19EC048
47	Sourav KRV	VML19EC050
48	Swathi Lakshmi K V	VML19EC051
49	Vimal Kumar P P	VML19EC055
50	Vishnu shankar	VML19EC056

SINCERE THANKS

We are extremely grateful to Chairman Sir, for having given us this opportunity and to our respected Principal, HOD and the faculty of the Electronics and Communication department for making it possible. This trip was immensely useful to us and the concepts we learnt will be forever embedded in our minds.

REPORT BY FACULTY

- Students got a clear idea about technologies & equipments that used for purpose of communication
- Industrial visit helped the students to combine their theoretical knowledge with industrial knowledge
- It gives them exposure to current work practice as opposed to possibly theoretical knowledge being taught at college.
- Students got an opportunity to learn practically through interaction , working methods and employment practices
- From the analysis of feedback taken it is found that more than 90% of the students satisfied with the industrial visit and most of them shows interest for such activities in future.

Report Prepared By

Mr. Abhinav K V

Class Representative

Under the Supervision of

Ms. Shimna PK

AP/ECE

Report Recommended by

Dr D Anto Sahaya Dhas

HoD/ECE