



Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education

Affiliated to Andhra University, Approved by AICTE

52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.

Ph : Off : 0891-2703293, 2703296


Email : principal@lbce.edu.in Website : www.lbce.edu.in

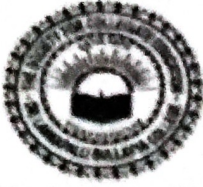
Industrial Visits

Academic Year 2023-2024

Index

S.No	Date	Department	Place of Visit
1	19-08-2023	EEE	Shree Girija Power and Alloy Private Ltd, Peddapuram, Samalkota
2	02-09-2023	CIVIL	Polavaram Project
3	29-09-2023	ECE	Doppler Weather Radar Center, Visakhapatnam
4	16-12-2023	ECE	All India Radio, Siripuram, Visakhapatnam
5	09-05-2023	CIVIL	NSTL VISAKHAPATNAM
6	09-05-2023	ECE	NSTL VISAKHAPATNAM
7	09-05-2023	BS&H	NSTL VISAKHAPATNAM
8	09-05-2023	CSE	NSTL VISAKHAPATNAM


PRINCIPAL
Dr. Lankapalli Bullayya College of Engineering
Door No. 52-14-75, Resapuvanipalem
Visakhapatnam-530013
Andhra Pradesh



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

Sponsored by Society of Collegiate Education

Approved by AICTE, Affiliated to Andhra University

Permission Letter

Visakhapatnam,
10-08-2023.

From

Dr. Anand Gondesi

Head of Department, EEE Department

Dr. Lankapalli Bullayya College of Engineering,
Visakhapatnam.

To

The Principal,

Dr. Lankapalli Bullayya College of Engineering,
Visakhapatnam.

Subject: Request letter for the Industrial Visit to SHRI GIRIJA ALLOY & POWER PRIVATE LIMITED for IV/IV and III/IV B.Tech Students.

Respected Sir,

We are planning an industrial visit to **SHRI GIRIJA ALLOY & POWER PRIVATE LIMITED, Peddapuram, East Godavari** for **IV/IV and III/IV B.Tech** students from the Department of EEE on **19-08-2023**. In this regard, I request you to grant us permission to take the students for the Industrial Visit.

Thanking you Sir,

Yours Sincerely,


HOD-EEE



hod eee <eeehod@lbce.edu.in>

Industrial visit acceptance gratitude

1 message

hod eee <eeehod@lbce.edu.in>

Thu, Aug 17, 2023 at 10:45 AM

To: cvssrrr1963@gmail.com, R RAJU <ramasfa@gmail.com>, Radha devi Madam bul <radhamam@gmail.com>

Respected Sir,

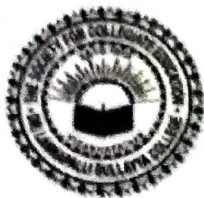
On behalf of the department of EEE, I extend my whole hearted gratitude for your consideration of accommodating the above visit of our students to your esteemed Organisation on 19 August 2023.

This industry visit along with your expertise will provide the students with the necessary practical exposure which will help the students to grow in their careers and also help them in enhancing their technical skills and practical knowledge.

I once again thank you for providing us with this wonderful learning opportunity.

Thanking you,

With Best Regards,
Dr.Anand Gondes,
Head of the department,
Electrical and Electronics Engineering department,
Dr.Lankapalli Bullayya College of Engineering,
New Resapuvanipalem,
Visakhapatnam.
Ph: 9491901118
Email id: eeehod@lbce.edu.in



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

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CIRCULAR

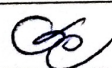


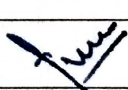
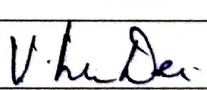
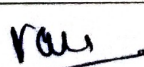

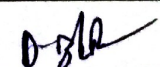

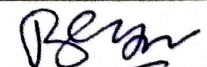
DATE: 16-08-2023.

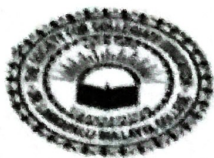
It is hereby informed that an Industrial Visit to **SHRI GIRIJA ALLOY & POWER PRIVATE LIMITED, Peddapuram, East Godavari** is planned for IV/IV B.Tech and III/IV B.Tech students of EEE Department on 19-08-2023.

In this regard, The IV/IV B.Tech and III/IV B.Tech students Engineering students are informed to go for the visit.

Copy to
Hon'able Secretary and Correspondant
HOD's of All Departments,
IQAC
R&D Cell
ESIC Cell
SDC


PRINCIPAL
PRINCIPAL
Dr. Lankapalli Bullayya College of Engineering
Door No. 52-14-75, Resapuvanipalem
Visakhapatnam-530013
Andhra Pradesh

HOD-CIVIL	HOD-CSE	HOD-ECE	HOD-EEE	HOD-BS&H
				
IV-EEE	III-EEE	SDC	R&D Cell	IQAC
				



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

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LIST OF STUDENTS

INDUSTRIAL VISIT

Name of the Industry: SHRI GIRIJA ALLOY & POWER PRIVATE LIMITED, Peddapuram, East Godavari.

Department: Electrical and Electronics Engineering

Date of visit: 19-08-2023

S.No	Roll Num	Name of the Student	Signature of the Student
1	320136414001	A JOSHITHA	
2	320136414002	A SAI NIKHIL	
3	320136414003	B SHALINI	
4	320136414004	D PREM KUMAR	
5	320136414006	G SANDHYA	
6	320136414007	G HARIKA	
7	320136414008	G SOMA SEKHAR REDDY	
8	320136414009	I V S SURENDRA VARMA	
9	320136414010	J PAVAN AKASH	
10	320136414011	K V DEEPAK CHAND	
11	320136414013	K YERRAYAMMA	
12	320136414014	K NAVYA SRI	
13	320136414016	KUSUMA BANDITHA	
14	320136414017	M REKHA	

15	320136414018	M RENEE SUNEELA	<i>Renee</i>
16	320136414019	M KIRAN KUMAR	<i>Kiran</i>
17	320136414020	M SUNEETHA	<i>M. Suneetha</i>
18	320136414022	M MOHAN KUMAR	<i>M. Mohan Kumar</i>
19	320136414023	M HIMANTH	<i>M. Himanth</i>
20	320136414024	N S VENKATA TEJA	<i>N. S. Venkata Teja</i>
21	320136414025	O DEEPTHI	<i>O. Deepthi</i>
22	320136414026	P VENKATESH	<i>P. Venkatesh</i>
23	320136414028	P HEMANTH KUMAR	<i>P. Hemanth</i>
24	320136414029	RAJANA BALU	<i>R. Balu</i>
25	320136414030	S PRATHIBHA	<i>S. Prathibha</i>
26	320136414031	T SHYAM VINAY KIRAN	<i>T. Shyam</i>
27	320136414032	U BALA PRANAY	<i>Bala Pranay</i>
28	320136414034	V AMBICA SIRI VARSHINI	<i>V. Ambica</i>
29	320136414035	Y GANESH VENKATA SAI	<i>Y. Ganesh Venkata Sai</i>
30	320136414036	Y JYOTHI PRIYA	<i>Jyoti</i>
31	320136414037	B SWATHI	<i>B. Swathi</i>
32	320136414038	CH KIRAN BABU	<i>Ch. K. R. Babu</i>

33	320136414039	D SAI RAMYA	D. Sai Rama
34	320136414040	D VENKATESH	D. Venkatesh...
35	320136414041	D VASU	Vasu
36	320136414042	G MOUNIKA	G. Mounika
37	320136414043	G N V K APPANA SAI	G. Sai
38	320136414044	G HARIKA	G. Harika
39	320136414045	K DURGA BHAVANI	K. Durga bhavani?
40	320136414047	K V SAI MANIKANTA	K.V.S. Manikanta
41	320136414050	M YASWANTH	Yaswanth
42	320136414051	M KIRAN PREETHI	M. Kiran preethi
43	320136414052	M HAMID RAZA	Hamid Raza
44	320136414054	M RAVI	m. Ravi
45	320136414056	P V PAVAN KUMAR	P.V. Pavan Kumar
46	320136414057	P KARTHIK SIDDARDHA	P. Karthik
47	320136414058	P DINAKAR	P. Dinakar
48	320136414059	R S S S C VARA PRASAD	R.S.S.S.C. Varasat
49	320136414060	B RITHWIK	B. Rithwik
50	320136414063	T DINESH KUMAR	T. Mys

51	320136414064	T BHARGAV	T. Bhargava
52	320136414067	V NAVEEN	V. Naveen
53	320136414068	B KAVYA	B. Kavya
54	320136414069	N HARSHA VARDHAN CHOWDARY	N. Harsha
55	320136414070	P VAMSI	P. Vamsi
56	321136414003	BUTHALA SAGAR KIRAN	B. Sagar Kiran
57	321136414004	CHILLA TEJASRI	C. Tejasri
58	321136414006	DAVALA JANAKIRAM	D. Janaki Ram
59	321136414009	GANDI PRAVEEN KUMAR	G. praveen kumar
60	321136414012	GONDELA DIVYA LAKSHMI	G. Divya lakshmi
61	321136414015	KOTHA KOTA JYOTHI	K. Jyothi
62	321136414020	MUGADA SATYA HARSHITHA	Harshitha. MS
63	321136414022	NARAYANA SETTY SHYAM	N. Shyam
64	321136414023	OMMI DIVYA SUGANDINI	Sugandini
65	321136414025	PALLI RUPA GANESH	P. Rupaganesh
66	321136414026	POLAROWTHU VARSHITHA	P. Varshitha
67	321136414027	PULAMARASETTY DEEKSHITH KUMAR	P. Deekshith K.
68	321136414028	RAPARTHI BHARAT KUMAR	R. Bharat

69	321136414029	RONGALI SYAM SAI	P. Syam sai
70	321136414033	SHAIK SUMEEDHA BIBI	SH. Sumeedha bibi
71	321136414035	SUNKARA KIRAN KUMAR	S. Kiran kumar
72	321136414036	THADDI GAYATHRI	T. Gayathri
73	321136414038	VANTAKU KALYANI	V. Kalyani
74	321136414043	BANDARU VEERA VENKATA SAI BABU	B. Veerababu
75	321136414046	BEHARA INDRA KUMAR	B. Indra kumar
76	321136414048	JANIPELLA SHADRACK	J. Shadrack

1. S. Varalakshmi

2. 
Coordinators

3. Ch. Vinodh


HOD-EEE



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52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.
Ph : Off : 0891-2703293, 2703296
Email : principal@lbce.edu.in Website : www.lbce.edu.in

DATE: 21-08-2023

Report On Industrial/Field Visit

Academic Year: 2023-2024

Date: 19-08-2023

Place of visit: SHRI GIRIJA ALLOY & POWER PRIVATE LIMITED, Peddapuram, East Godavari.

Name of Faculty:

S.No	Name of the Faculty	Designation
1	Dr. G Anand	HoD, EEE
2	Dr V Radha Devi	HoD, BS& H
3	S Varalakshmi	Asst. Professor
4	Ch Ravi Kumar	Asst. Professor
5	Ch Vinodh	Asst. Professor

No. of Students: 76

Objective of event: Exposure to Power Generation & Transmission, Boiler Unit, Treatment of Water, Transformers.

Report on Event:

1. Arranged two buses along with five faculty in charges and collecting undertaking forms of each student from their parents.
2. Visited Shri Girija Alloy & Private Limited unit.
3. Visited from 10:30AM to 01:30PM – Water Treatment Unit.
02:30PM to 04:00PM – Boiler Unit
04.00PM to 05:00PM – Switching yard

The department of EEE has planned to visit a power plant at Peddapuram for the students of III/IV and IV/IV B.Tech EEE, Dr Lankapalli Bullayya College of Engineering on 19 August 2023. A total 80 students comprising 45 boys and 35 girls accompanied with 5 Faculty members.



Purpose:

The purpose of the visit was to provide them with practical insights into the functioning and operations of a power generation facility, to familiarize students with the various processes involved in power generation, to provide real-world exposure to the equipment and technology used in power plants and to inspire and encourage students to consider career opportunities in the energy sector. During the visit, the students were given a guided tour of the power plant facility. They were introduced to the key components and systems that contribute to electricity generation.



Plant Introduction

Shri Girija Alloy & Power (I) Private Limited (SGAPPL) is a Private Limited Indian Non-Government Company incorporated in India on 21 April 2004 and has a history of 19 years and five months. Its registered office is in East Godavari, Andhra Pradesh, India. The Corporate was formerly known as Sri Girija Alloy & Power (I) Private Limited. It is engaged in the business of generation and distribution of power and all kinds of related services for all kinds of industries. The Company's status is Active, and it has filed its Annual Returns and Financial Statements up until 31 March 2022. It's a company limited by shares with an authorized capital of Rs 600.00 cr and a paid-up capital of Rs 520.18 cr. The Corporate currently has active open charges totaling ₹426.64 cr.



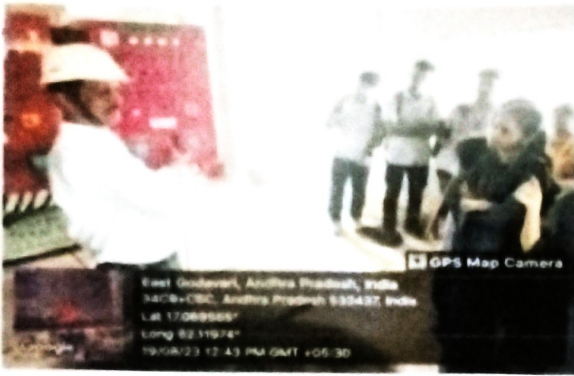
Plant Tour:

Students were taken through the plant's different sections, such as the turbine hall, control room, boiler room, and cooling systems. They observed the intricate machinery and learned about their roles in the power generation process.

Interactions with Engineers:

The students had the opportunity to interact with engineers and technical staff who explained the operation of various equipment and answered questions.





Safety Protocols:

The students were briefed on the safety protocols and measures in place at the power plant to ensure the well-being of the workers and the environment.

Benefits and Learning Outcomes:

The industry visit had several benefits and learning outcomes for the students:

- **Practical Understanding:** The visit provided students with a practical understanding of how electricity is generated, transmitted, and distributed.
- **Exposure to Technology:** Students were exposed to advanced technological equipment used in power plants, fostering an interest in STEM fields.

Many students, including girls, evinced interest in internships there and were promised opportunities for same.

Career Insights: Interactions with professionals allowed students to gain insights into potential career paths in the energy sector.

Real-world Application: The visit helped bridge the gap between theoretical classroom knowledge and real-world application.

Inspiration: Experiencing a power plant in action inspired students to consider careers in engineering, energy management, and related fields.

The industry visit to the power plant proved to be an enriching and educational experience for the students.


EEE Group Pic




1. S. Vana Lakshmi

2. 

3. Ch. Vinodh
Coordinator


HOD


PRINCIPAL
Dr. Lankapalli Bulayya College of Engineering
Door No. 52-14-75, Resapurani Palam
Visakhapatnam-530013
Andhra Pradesh



hod eee <eeehod@lbce.edu.in>

Request letter for permitting the students for Industrial visit.1 message

hod eee <eeehod@lbce.edu.in>

Fri, Aug 11, 2023 at 4:09 PM

To: cvssrrr1963@gmail.com, ramasfa@gmail.com, Radha devi Madam bul <radhamam@gmail.com>

Respected Sir,

On behalf of the EEE Department, Dr.Lankapalli Bullayya College of Engineering brings to your notice that we would like to encourage our students for the enhancement of their abilities in the industrial sector through industrial visits.

For this purpose, we are requesting you to kindly grant us permission for the visit to your esteemed firm. We are planning for a 1 day visit i.e., on saturday dated 19/08/2023 and nearly 75 students will take part in the visit accompanied by 10 faculty members.

Kindly, consider the obligation and do the needful. We look forward to your positive response.

Thank you
with regards
Dr Anand Gondes
HoD,
Department of Electrical and Electronics Engineering,
Dr L Bullayya College of Engineering,
Visakhapatnam

E mail : eeehod@lbce.edu.in

Ph No: 9491901118

To
The Secretary and Correspondent,
Dr.Lankapalli Bullayya Colleges,
Visakhapatnam.

Respected sir,

Subject: Request for Permission for Industrial Visit to Polavaram Project
Reg.

The Department of **Civil Engineering** is humbly requesting your permission for an industrial visit for **III & IV B.Tech Civil (56 Students)** to the **Polavaram Project on 02/09/2023**. We believe the students could gain valuable insights into the practical aspects of engineering and construction.

The Polavaram Project has always been a source of inspiration for engineering students.. Therefore, an industrial visit to Polavaram Project would immensely enhance their understanding of various engineering concepts.

Here are the details of the proposed industrial visit:

Date of Visit : 2/9/2023

Industry to be Visited: Polavaram Projects

Location: Polavaram

Number of Students: 56

Accompanying Faculty: 04

In this regard, kindly request your permission to proceed with the industrial visit. We assure you that all necessary safety measures will be taken, and the students will be supervised by our faculty members throughout the visit.

Yours sincerely,

G.T.P. Naidu
Dr.G.T.NAIDU 24/8/23

HOD (Civil)

Submitted for kind Approval

W. W. M. 24/8/23



To
The Secretary and Correspondent,
Dr.Lankapalli Bullayya Colleges,
Visakhapatnam.

Respected sir,

Subject: Request for Permission for Industrial Visit to Polavaram Project

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Yours sincerely,

G.T.P. Naidu
Dr.G.T.NAIDU 24/8/23

HOD (Civil)

Submitted for final Approval
W. D. V. 24/8/23

Am

To
The Secretary and Correspondent,
Dr.Lankapalli Bullayya Colleges,
Visakhapatnam.

Respected sir,

Subject: Request for Permission for Industrial Visit to Polavaram Project

Reg.

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G.T.P. Naidu
Dr.G.T.NAIDU 24/8/23

HOD (Civil)

Submitted for kind Approval

W. D. M. 24/8/23

Am



Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

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Prof. D. Deepak Chowdary

B.E., M. Tech., Ph.D., MISTE, FIE

Principal

LBCE/Admin/Civil/StudyTour/2023-24

26th August 2023

To
Superintending Engineer
Water Department
Polavaram Project

Respected sir,

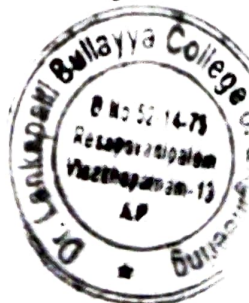
Sub: Request for Permission for Industrial Visit to Polavaram Project-Reg.

The Department of Civil Engineering from Dr.Lankapalli Bullayya College of Engineering is humbly requesting your permission for an industrial visit for III & IV B.Tech Civil (56 Students & 4 Faculty) to the Polavaram Project on 02/09/2023. We believe the students could gain valuable insights into the practical aspects of engineering and construction.


The Polavaram Project has always been a source of inspiration for engineering students. Its scale, complexity, and innovative engineering solutions make it an ideal learning opportunity. Therefore, an industrial visit to Polavaram Project would immensely enhance their understanding of various engineering concepts. We understand that safety and security are paramount concerns during industrial visits. We assure you that they will strictly adhere to all safety protocols and regulations established by the Polavaram Project Authority. Also requesting to assign any Engineers for accompanying with students in the field.

Hence requesting your consideration of our request and seek your guidance on the appropriate procedure to follow for obtaining permission.

Thanking you sir,



Yours sincerely,


Prof.D.Deepak Chowdary
Principal

Principal
Dr Lankapalli Bullayya College of Engineering
D No 52-14-75, Resapuvanipalem
Visakhapatnam-530013, Andhra Pradesh

**Government of Andhra Pradesh
Water Resources Department**

From:
Sri K.Narasimha Murthy, B.Tech.,
Superintending Engineer
PIPHW Circle, Dowlaiswaram-533125,
East Godavari District,
Andhra Pradesh State,
Email: seishw@gmail.com

To,
The Principal,
Dr. Lankapalli Bullayya College of
Engineering
#52-14-75, Resapuvanipalem,
Visakhapatnam – 530 013
Email: principal@ibce.edu.in

Lr.No. SE/ PIPHW /OT.2/ AEE.3/ M/2/ Vol.36/ **436M**, Dt: 26 .08.2023.

Sir,

Sub: WRD - PIPHW – Educational Visit of Polavaram Irrigation Project with 56 members of the students with 4 faculty staff of Dr. Lankapalli Bullayya College of Engineering, Resapuvanipalem, Visakhapatnam - Permission for one day i.e., on **02.09.2023** - Acceptance – Reg.

Ref:

1. Letter from the Principal, Dr. Lankapalli Bullayya College of Engineering, Resapuvanipalem, Visakhapatnam on 26.08.2023.

%%%

With reference to the above, 56 members of the students and 4 faculty staff from Dr. Lankapalli Bullayya College of Engineering, Resapuvanipalem, Visakhapatnam are permitted for Educational visit at Polavaram Irrigation Project on 02.09.2023.

In this connection, it is to inform that No TA, DA / stipend will be paid by our department. The accommodation, transportation and other facilities such as food etc., shall be borne by the individual only.

Further, it is specifically informed that the students should take utmost care as there is heavy machinery movement, blasting operations and other work activities are in progress at Project site.

In this regard, intimate the registration numbers of your transportation vehicles (Buses) before one day to the concerned officer.

Yours faithfully,

Sd/- K. Narasimha Murthy, 26.08.2023
Superintending Engineer,
PIPHW Circle, Dowlaiswaram

P.T.O.,

Contact Officer:

Sri. K. Bala Krishna Murthy,
Executive Engineer,
PIPHW Division No.2,
Polavaram.
Ph:7013526558

// t.c.f //

Sd/-

Dy. Executive Engineer,
PIPHW Circle, Dowlaiswaram



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

Sponsored by Society of Collegiate Education

Approved by AICTE, Affiliated to Andhra University

Date: 30-08-2023

CIRCULAR

The Department of Civil Engineering is conducting **INDUSTRIAL VISIT** on 02-09-2023 in **Polavaram Project** for exploring the practical aspects of engineering and construction and also their enhance their knowledge of various engineering concepts and inspire the next generation of engineers to work in the field of technology and prosper to great heights.




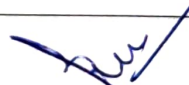
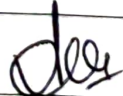
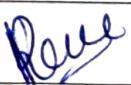


All the III & IV B.Tech Civil Engineering Students are informed to attend the **POLAVARAM PROJECT** without fail.


PRINCIPAL

PRINCIPAL
Dr. Lankapalli Bullayya College of Engineering,
Door No. 52-14-75, Resapuvanipalem
Visakhapatnam-530013
Andhra Pradesh

Copy to

Copy to all HODs, SDC Co-Ordinator
IQAC Co-Ordinator, Office
III B.Tech CE, IV B.Tech CE Classes

HOD-CIVIL	HOD-CSE	HOD-ECE	HOD-EEE
			
III B.Tech CE	IV B.Tech CE	IQAC Co-ordinator	SDC Co-ordinator
			



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

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Report on Industrial Visit to

POLAVARAM IRRIGATION PROJECT

Department of CIVIL Engineering

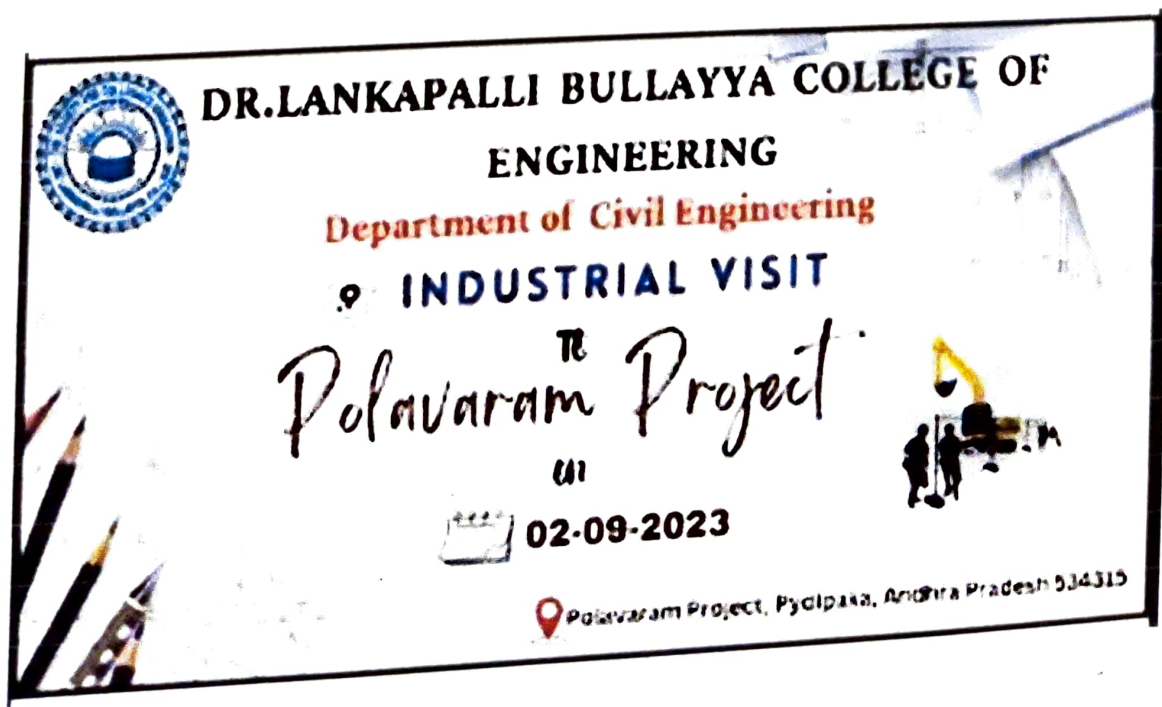
Date: 2.09.2023

About Civil Engineering Department:

The Department of Civil Engineering was established in the year 2010, with an annual intake of 60 students for B.Tech. Program. At present the Department intake for undergraduate (B.Tech.) is 60. The Department has a mix of both experienced and young faculty. Majority of the faculty members actively involve themselves in improving their education qualifications and research works. Faculty and students are encouraged to attend and participate in various seminars, workshops and training programs, Industrial visits, conducted by various reputed organizations to enhance their knowledge. The management also supports the faculty members with financial assistance to attend Industrial visits, workshops, conferences, and seminars.

About The Industrial Visit to Polavaram:

Civil Engineering Department has conducted “Industrial visit to Polavaram” on 2/9/2023. The objective of the Industrial visit is to strengthen the technical skills and also to promote the participating and organizing skills in the students,



Attendance: 54 participants including students & faculty

The third and Final year of B. Tech, CIVIL branch were divided into four groups for the industrial visit. The visit for all the students was scheduled on Dt. 02.09.2023.



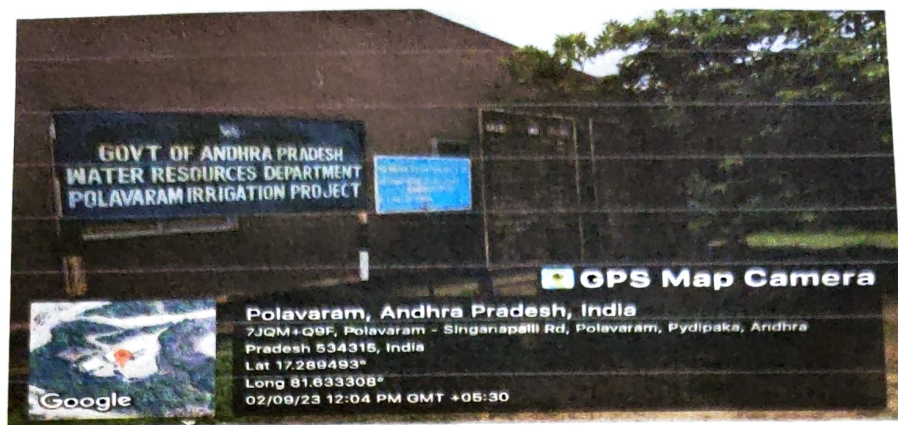
Students gathering at the College on 2/9/2023 for the Industrial visit

Faculty Visited:

1. Ms.D.V.V.Manasa(Assistant Professor, Dept. of Civil Engineering)
2. Mrs.B.Ramya(Assistant Professor, Dept. of Civil Engineering)
3. Mr. D.V.V.Satyanarayana(Assistant Professor, Dept. of Civil Engineering)
4. Mr.Y.Rajesh(Assistant Professor, Dept. of Civil Engineering)

A total of 50 number of students along with 04 faculties started at vizag around 5.00 AM and reached Polavaram at around 11.30 AM.Mr. M.Sreeram Patel & Mr.P.Seeta Ramulu(Deputy Executive Engineers),&D.Shiva Kumar(Assistant Executive Engineer) explained about the design and function Polavaram Irrigation project by showing the model initially to the faculties and then to students. Then, the total number of students were divided into nine (04) group and each student group was guided by an individual faculty during the visit.

PURPOSE OF VISIT :Our main purpose for this visit is to be familiar with project construction environment and to get practical knowledge on Polavaram Irrigation Project. Total 50 students of III & IVth Btech were participated in the visit and students get familiar with Reservoir, Dam, Spill Way, coffer dam, Catchment area.



Polavaram Irrigation Project

The Polavaram Irrigation Project is on the river Godavari near Ramayyapeta village of Polavaram Mandal, about 34 km upstream of Kovvur Rajahmundry road-cum-rail bridge and 42 km upstream of Sir Arthur Cotton Barrage, where river emerges out of the last range of the Eastern Ghats and enters the plains in West Godavari District of Andhra Pradesh. This multi-purpose major irrigation project is intended for development of a gross irrigation potential of 4,36,825 ha.

Introduction About polavaram irrigation project:

We observed this is a National River-Linking Project, which works under the aegis of the Indian Ministry of Water Resources, which was designed to overcome the deficit in water in the state. The Polavaram Project proposals consist of the following major components:-

1. **Head Works:** The Head works consist of Earth-Cum-Rock Fill dams across the main river with spillway on the right flank, and power house on left flank on downstream slopes was under construction.
2. The Earth -Cum- Rock Fill dam (Gap-II) in the main river course is 1750 m. long with maximum height of +53.320 m. (175 ft.), top width 15 m and with single plastic concrete Diaphragm wall of thickness 1.5 m. In addition, there are two Earth Dams with a length of 564M with top width 12.5M and a Length of 140 M and top width 12.5 m respectively proposed on either side of earth cum rock fill dam which is 95% completed its construction.
3. The Spill Channel for a Length of 2920 m and bed width of 1000 m is proposed at downstream of spillway. Pilot Channel of Length 650 m with a bed width of 660 m is proposed at the end of Spill Channel to River confluence. An approach channel is proposed on the upstream side of spillway to divert water from river for a length of 2310 m and bed width 660 m is under construction.
4. The Spill Way has a length of 1054.40 m over flow section and non over flow of 37 m on either side with total length of 1128.40 m. It is having a 48 Nos. radial gates to pass a maximum flood discharge of 1.41 lakh cumecs . Two radial gates were already completed.
5. Through View point students have observed the total construction of project and got familiar



Model Explanation by Deputy Executive Engineers

Major components of the POLAVARAM Project:

1. Spillway: Constructing the Spillway is the first step in the process. After constructing the Spillway, 48 huge radial Spillway gates will be fitted to it. After the gates are fitted, then the Approach and Spill channels will be constructed to channelize river water through Spillway. Each gate is fitted with 2 hydraulic cylinders to enable faster movement of the heavy gates, to secure dam from heavily flooded Godavari river. The 96 hydraulic cylinders for 48 gates are being manufactured in Germany. The excess flood water is released through the remote controlled spillway gates. Spillway Dimensions: Height 45 ft; Width 1000 m; Concrete required 17 lakh cubic metres Spillway Radial Gate dimensions: Each Spillway Radial gate: Height 20 m; Width 16m; Weight 350 tonnes. Tallest gates in India .

Profile of spillway: The ogee spillway has a control weir that is ogee shaped. It is also an overflow type spillway. Reduce the impact of water at downstream.

2. Cofferd dams: Two Cofferd Dams, at u/s and d/s will be built across the river. The main purpose of the Cofferd Dams is to protect the Earth Cum Rock fill Dam (ECRF Dam) from floods during construction. The Cofferd dams are being built by renowned German company Keller. The upstream cofferdam will be 27 metres above the river bed and the other one will be about 20 metres from the river bed. The upstream cofferdam has the capacity to hold 120 TMCft while the project will have the capacity to hold 194 TMCft. The project on completion will have a “live” capacity of 75 TMCft,



Spill way

3. Hydro Electric Power House:

It consists of 12 Vertical Francis turbines, each having 80 MW capacity. Power House generates 960 MW energy

4. Right Main Canal:

The RMC is 173 km long, discharges 17,500 cusec. It is designed to supply 80 TMC of water from Polavaram to Budameru in Vijayawada, connecting Godavari and Krishna Rivers. The objective of RMC is to irrigate an area of 3.19 Lakh acres in the upland area of West Godavari and Krishna districts.

PROJECT SALIENT FEATURES:

1. 2454 m of Earth cum Rock fill dam/concrete dam in three gaps.
2. 1,118.40 m long spillway for discharging probable maximum flood of 1,41,435 cumec (about 50 lakh cusec).
3. 181.999 km long Left Main Canal to irrigate Culturable Command Area (CCA) of 4 lakh acres (1,61,855 ha).
4. 178.81 km long Right Main Canal to irrigate a CCA 3.2 lakh acres (1,29,500 ha).
5. The intensity of irrigation is increased as 150%. Thus annual irrigation potential is 10.80 lakh acres (4,36,716 ha).
6. Live capacity of the reservoir with FRL of +45.72 m (+150 ft) is 2.130 TMCum (75.20 TMCft).
7. Stabilization of 10.13 lakh acres of Godavari delta and 13 lakh acres of Krishna delta.
8. Interlinking of Godavari and Krishna rivers proposing to divert 80 TMC to Krishna basin.
9. 23.44 TMC of water supply to industries and drinking water to Visakhapatnam.
10. Domestic water supply to 28.5 lakh population in 611 villages.
11. Generation of 960 MW power (12 x 80 MW).
12. Sharing of 5 TMC and 1.5 TMC of water from reservoir rim with Odisha and Chhattisgarh, respectively.

PROJECT TECHNICAL DETAILS:

The project reservoir has live storage 75.2 TMC at canal's full supply level of 41.15 metres (135 ft.) MSL and gross storage 194 tmcft thereby enabling irrigation of 23,20,000 acre (including stabilisation of existing irrigated lands) in Krishna, West Godavari, East Godavari, Visakhapatnam, Vizianagaram and Srikakulam districts of Andhra Pradesh.



The silt free dead storage water of nearly 100 tmcft above the spillway crest level 24.5 metres (80 ft.) MSL, can also be used in downstream liftirrigation projects (Pattiseema lift, Tadipudi lift, Thorrigedda lift, Pushkara lift, Purushothapatnam lift, Venkatanagaram lift, Chagalnadu lift, etc.) and Dowleswaram Barrage during the summer months. Government of AP announced the decision to construct Purushothapatnam lift irrigation scheme to transfer water at the rate of 3500 cusecs to Polavaram left bank canal and Yeleru reservoir to feed Yeleru canal which is supplying water to Vizagcity.



The dam construction involves building of a 1.5 m thick concrete diaphragm wall up to depths from 40 to 120 m below the river bed under the earthdam which is first of its kind in India. The purpose of diaphragm wall is to secure the river bed stability for withstanding the water pressure across the dam. The project would constitute an earth-cum-rock fill dam of 2,310 metres (7,580 ft.) length, spillway of 907 metres (2,976 ft.) with 48 vents to enable discharge of 3,600,000 cu ft/s (100,000 m³/s) of water.



The spillway is located on the right bank of the river for which nearly 5.5 km long and 1.0 km wide approach and spill channels up to river bed level is envisaged involving nearly 70 million cubic meters earth/rock excavation which is nearly 2/3rd of the project's total earth work. The maximum flood level at Polavaram is 28 metres (92 ft.) MSL and lowest water level is 10.9 metres (36 ft.) MSL. A cofferdam is constructed up to 41 metres (135 ft.) MSL initially to facilitate faster pace of work on earth-cum-rock fill dam. With coffer dam inclusion and the bed level of the approach and discharge canals of the spillway increased to 17 metres (56 ft.) MSL, the spillway related rock excavation is reduced by 70% leading to substantial cost reduction in the project's head works cost. Ultimately, the cofferdam would become peripheral portion of the main earth-cum-rock fill dam. On the left side of the river, 12 water turbines, each having 80 megawatt capacity, were to be installed. The right canal connecting to Krishna River in the upstream of Prakasam Barrage (173 km) discharges 17,500 cu ft/s (500 m³/s) at head works and left canal (182 km long) discharges 17,500 cu ft/s (500 m³/s) of water.

MAIN WORKS :

- i) Earth-cum-rock fill dam : 2454 m long
- ii) Spillway in right flank : 1128.40 M
- iv) Left Main Canal, : 181.50 KM
- v) Right Main Canal. : 174 KM

HYDROLOGY:

- i) Catchment Area : 3,06.643 Sq. Km (1,18,446 Sq.Miles)
- ii Design flood discharge : 1.02 Lakhs cumec (36 Lakhs cusec)
- iii) Maximum flood discharge observed at Dowlaiswaram (in1953) : 0.85 Lakh cumec (30 cusec.)
- iv) Annual Rainfall: 1022.95 mm

DAM AND APPURTENANT WORKS:

Water Levels:

- i) Full Reservoir level : + 45.72 m (+ 150.00 Ft)
- ii) Low water level (MDDL) : + 41.15 m (+ 135.00 Ft)
- iii) Maximum tail water level : + 30.48 m (+ 100.00 Ft)
- iv) Minimum tail water level : + 13.64 m (+ 44.75 Ft)

Reservoir:

- i) Gross storage at FRL (+ 45.72 m) : 5.511 TM. Cum. (194.60 TMC)
- ii) Storage at MDDL (+ 41.15 m) : 3.381 TM Cum. (119.40 TMC)
- iii) Live storage above MDDL (+41.15 m) : 2.130 TM. Cum. (75.20





MEGHA ENGINEERING & INFRASTRUCTURES Ltd

Dr Lankapalli Bullayya College of Engineering,

(Approved by AICTE, New Delhi, Affiliated to Andhra University, Visakhapatnam)

Visakhapatnam

Department of Civil Engineering

UNDERTAKING BY THE STUDENTS PARTICIPATING IN INDUSTRIAL VISIT

I, Gudivada Anusha Reg No: 321136408003 S/o/D/o. Gudivada Shrinivas Rao studying in Civil 3rd year of Dr.Lankapalli Bullayya College of Engineering fully aware of the participation in the Polavaram Industrial Visit between the following date 2/9/2023.

I assure you that I will be of good behavior and be obedient to the staff accompanying during the Industrial visit. will also abide and will not participate in any activity that will breach the scope of the Industrial visit Programme. I will also discipline myself within the rules and regulations of the Institution..

Further, it is specifically informed by Superintending Engineer, that the students should take utmost care as there is heavy machinery movement, blasting operations and other work activities are in progress at Project site. I am also aware that I am participating in the at my own risk and I will not hold the Dr.Lankapalli Bullayya College of Engineering(DLBC) responsible in any way, I myself will be solely responsible for my safety.

Place: Visakhapatnam

Signature of the student by Anusha

Date: 1-9-2023

Reg. No. 321136408003

Parents sign: G. Srinivas Rao

Undertaken form from students for the Industrial Visit

4, 320136408056
V. Kinnara

FEEDBACK FORM on POLAVARAM Industrial VISIT:

1) Are the students satisfied with the Industrial visit?	<input checked="" type="checkbox"/> Yes/No
2) Did you feel that Industrial visit is conducted in a safe manner?	<input checked="" type="checkbox"/> Yes/No
3) Are you satisfied with the Technical Explanation by the Engineers at Polavaram?	<input checked="" type="checkbox"/> Yes/No
4) Did this Industrial visit meet your expectations in terms of providing valuable insights and learning experiences?	<input checked="" type="checkbox"/> Yes/No
5) Did you receive sufficient information during the visit?	<input checked="" type="checkbox"/> Yes/No
6) How would you rate the overall organization and coordination of the industrial visit?	a) 1 b) 2 c) 3 <input checked="" type="checkbox"/> d) 4
7) Any other suggestions?	<u>Conduct more field visits like this</u>



JANATA PERSONAL ACCIDENT (INDIVIDUAL) INSURANCE POLICY

UIN NUMBER - IRDA/NL-HLT/NIA/P-P/V.1/55/14-15

Insured's Name	YAKA KALYAN		Issuing Office Details	
Customer ID	POA7686956		Office Code	DAB (620102)
Address	S/O YAKA RAMBABU D NO 23-1-130(1) K L PURAM,NARSIPATNAM NARSIPATNAM ,ANDHRA PRADESH 531116		Address	DIRECT AGENT BRANCH, DR NO 30- 15-35 DABA GARDENS, NEAR SARASWATHI PARK 530020
Phone No	XXXXXX9538		Phone No	08912541361 / 08912752144
E-mail/Fax	kalyanyaka@gmail.com. /		E-mail/Fax	n/a.620102@newindia.co.in /
PAN No			S.Tax Regn. No	AAACN4165CST178
GSTIN/UIN	NA / NA		GSTIN	37AAACN4165C2ZP
			SAC	997133 (Accident and health insurance services)

Policy Details		Business Source Code	
Policy Number	62010242230300000058	Dev.Off level./Broker/Corp. Agent/IMF/Web Aggregator/CPSC User	DIRECT BUSINESS - (1D3937274)
Period of Insurance	From:01/09/2023 07 24:27 AM To: 31/08/2024 11:59 59 PM	Agent/Bancassurance/Spe cified Person	Mr. TARINI PRASAD PATNAIK (NIAAG00076578) TARINI PRASAD PATNAIK (SI00124434)
Date of Proposal	01-Sep-23	Phone No	9490359345 / 2541361.
Prev. Policy no.		E-mail/Fax	/ /
Client Type	Non-Corporate		

Premium	GST	Total(RS)	Total Rupees (In Words)	Receipt No. & Date
60	0	60	RUPEES SIXTY ONLY	62010281230000001488 - 01/09/23
Stamp Duty	₹ 1			

POLICY SCHEDULE (Individual)

Details of Insured and/or other Family members covered under the policy						Nominee Details		Sum Insured	Excess (%)
Name of the Insured	Sex	Date of Birth / Age	Occupation	Status of Insured	Existing Disabilities	Name	Relation		
YAKA KALYAN	Male	16/01/2003 . 20	Student	Non Earning Member	NO	Y RAMBABU	Father	100000	0

Special Conditions: AS PER JPA

Subject to Janata Personal Accident Insurance Policy Clause as attached hereto.

NOTE: WARRANTED THAT IN CASE OF DISHONOUR OF THE PREMIUM CHEQUE, THIS DOCUMENT STANDS AUTOMATICALLY CANCELLED 'AB-INITIO'.

Premium and GST Details

	Rate of Tax	Amount In INR
Premium		₹ 60
SGST	0	0
CGST	0	0
IGST	0	0

In witness whereof the undersigned being duly authorised by the Insurers and on behalf of the Insurers has (have) hereunder set his (their) hand(s) on this 01st day of September,2023.

Signature Not
Verified
Digitally signed
by JAGAT KAYEE
PANIGRAHI
Date: 2023.09.01

Policy No. : 62010242230300000058 Document generated by 30954 at 01/09/2023 07:30:27 Hours.

Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 209 1415

Give your valuable feedback on <https://www.newindia.co.in/portal/policyFeedbackGen>.

For redressal of your grievance, if any you may approach any one of the following offices- 1. Policy issuing office 2. Regional office 3. Head office In case, you are not satisfied with our own grievance redressal mechanism, you may also approach Insurance Ombudsman. For details of our office addresses and addresses of office of Insurance Ombudsman, please visit our website <http://newindia.co.in>.



For and on behalf of
The New India Assurance Company
Limited

Date of Issue: 01/09/2023

M. G. Sankar
Duly Constituted Attorney(s)
The Receipt

Mudrank _____ Dt _____ consolidated Stamp Fees Paid by Pay Order Number _____
number _____ dt _____

Stamp Duty under the Policy is ₹1/-.

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Tax Invoice No : 62010223P0002919

IRDA Registration Number: 190
NIA PAN NUMBER: AAACN4165C

Policy No. : 62010242230300000058 Document generated by 30954 at 01/08/2023 07:30 27 Hours

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DR. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education
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52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.
Ph : Off : 0891-2703293, 2703296
Email : principal@lbce.edu.in Website : www.lbce.edu.in

LIST OF STUDENTS

Industrial Visit

Name of Industry: Polavaram Projects

Department: CIVIL ENGINEERING

Date of Visit: 02-09-2023

S.No	Roll No	Name of Student	Signatures
1	320136408001	Bodabandala Nitish Kumar	B. Nitish
2	320136408002	Bandaru Bagath	B. Bhagath,
3	320136408003	Bandaru PurnaPrudhvi	P. Prudhvi
4	320136408004	Boddu VenkataDurga Reddy	B. V. D. Reddy
5	320136408005	Chukkala Kushalini	ch. kushaGini
6	320136408006	Dadi Bhanu Prasad	D. Bhanu
7	320136408007	Dalapathi Bangaru Dora	D. Bangaru Dora
8	320136408008	Duvvu Kali Kumar	D. Veni Kumar
9	320136408009	Ghanta Hemanth Kumar	Hemanth
10	320136408010	Ganti Sunil kumar	G. Sunil Kumar
11	320136408012	Guggilapu Sujatha	G. Sujatha
12	320136408013	Jada raja srivardhani	
13	320136408014	KallaRevathi Ramani	K. Revathi Ramani.
14	320136408015	Kappala Chandu	
15	320136408016	Kasi Reddy Ramu	
16	320136408017	Katragadda SaiSandeep	K. Sai Sandeep
17	320136408018	Kuriti Tejaswi	K. Tejaswi
18	320136408019	Madireddi Padma	M. Padma
19	320136408020	Mandala Santosh Kumar	M. Santosh Kumar.
20	320136408021	Margana Charan Naga Sai	M. Charan Naga Sai

21	320136408022	MidatadaBhanuPrakash	M. Bhanu prakash
22	320136408023	MopadaSrinivas	M. Srinivas
23	320136408024	MuddanaTeenaSaiPrasanthi	M. Teena Sai
24	320136408025	MulaveesalaMuraliRaghav	Murali Raghav
25	320136408026	MycharalaSandhya	M. Sandhya
26	320136408027	NakkellaPrasanthSai	N. Prasanth Sai
27	320136408028	Nerusu Jai Ram	N. Jai Ram
28	320136408029	NodagalaNandini	N. Nandini
29	320136408030	Palina Devi SampathVardhan	P. D. S. Vardhan
30	320136408031	PadilapuYogandhar	P. Yogandhar
31	320136408032	PylaLalitha	P. Lalitha
32	320136408033	RouthuSai Kumar	R. Sai Kumar
33	320136408034	SodipilliGnapika	S. Gnapika
34	320136408035	TamaranaSubhash Chandra Bose	T. Subhash
35	320136408036	Tammineni Lakshmi Vara Prasad	T. Lakshmi
36	320136408037	TekkaliYogeshVenkataVinay	T. Y. V. VINAY
37	320136408038	Vana Sampath Kumar	V. Sampath
38	320136408039	VandrangiSaiBalaGopal	V. Sai Bala Gopal
39	320136408040	VanthalaUdayKiran	V. Uday Kiran
40	320136408041	Veda GayathriYedla	V. Veda
41	320136408042	Yaka Kalyan	Y. Kalyan
42	320136408043	YeduriVasanthi	Y. Vasanthi
43	320136408044	Ch.Revathi	Ch. Revathi
44	320136408045	K.Devi	K. Devi
45	320136408046	K.T.Raj Kumar	K. T. Raj Kumar
46	320136408047	M.Bhargav	M. Bhargav
47	320136408048	N.SabariNadh	N. Sabari Nadh
48	320136408049	O.Harshith	O. Harshith
49	320136408050	P.Karishma	P. Karishma
50	320136408051	P.Mahima	P. Mahima
51	320136408052	P.SaiKiran	P. Sai Kiran

52	320136408053	P.Yugandhar	P. Yugandhar
53	320136408054	S.Srinu	S. Srinu
54	320136408055	SK.Subhani	SK. Subhani
55	320136408056	V. Kinnera	V. Kinnera
56	320136408057	V. Dunesb	V. Dunesb

B. Laxmi
Coordinator

G. T. N. N. N.
HOD

Head of the Dept.
Dept. of Civil Engineering
Dr. Lakshapalli Butlayya College of Engineering
Resaevanahalli - 507 102



Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

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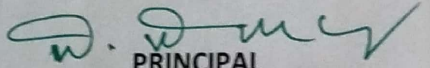
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
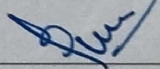
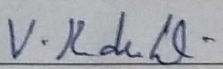
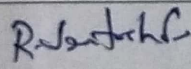
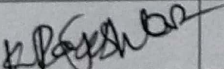
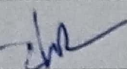

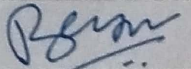
DATE: 16-09-2023.

It is hereby informed that an industrial visit to **Doppler Weather RADAR System at Kailasagiri, Visakhapatnam** is planned for IV/IV B.Tech students of ECE Department on 29-09-2023.

In this regard, The IV/IV B.Tech Engineering students are informed to go for the visit.

Copy to
Hon'ble Secretary and Correspondent
HOD's of All Departments,
IQAC
R&D Cell
ESIC Cell
SDC


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Dr. Lankapalli Bullayya College of Engineering
Door No. 52-14-75, Resapuvanipalem
Visakhapatnam-530013
Andhra Pradesh

HOD-CIVIL	HOD-CSE	HOD-ECE	HOD-EEE	HOD-BS&H
				
IV-ECE	III-ECE	SDC	R&D Cell	IQAC
				

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Spaces

Sent

Drafts 38

Meet

More

Labels

proj2023_Rev1 18

proj2023_Rev2 18

D DWR VISAKHAPATNAM
to meमहोदया / महोदय,
Madam/Sir,

Sep 26, 2023, 9:03AM

Permission has been granted to visit this DWR station, on 29-09-2023 at sharp 1000 AM.

सादर / Regards

डॉप्लर मौसम रडार / Doppler Weather Radar
कैलासगिरि पहाड़ी / Kallasagiri Hill
विशाखापटनम / Visakhapatnam
आंध्र प्रदेश / Andhra Pradesh
दूरभाष / Tele - ०८९१-२९७१५०८ / 0891-2971508Alternate Email- yskdwr@gmail.com



Dr. Lankapalli Bullayya College of Engineering

(Approved by AICTE, New Delhi, Affiliated to Andhra University, Visakhapatnam-13)

Sponsored by the Society for Collegiate Education

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

23-09-2023.
Visakhapatnam.

To
The Head,
DNR,
Visakhapatnam.

Respected sir,

Sub: Request to allow students to visit your organization on 29-09-2023 regd.

Dr. Lankapalli Bullayya College of Engineering was established by The Society for Collegiate Education in 2010 with the objective to produce technologists and scientists who would engage in research, design and development to help building the nation. Department of Electronics & Communications Engineering (ECE) was started since the inception of the college with an intake of 60 and further enhanced to 120 at present. As the students of final year have subjects like Radar Engineering and Microwave Engineering. We would like to impart practical aspects of those subjects to them. In this regard we would like to send our students to your esteemed organization as an industrial visit. We request you to allow our students and give them practical inputs on 29-09-2023. Please kindly confirm the date at the earliest.

Thanking you

Yours sincerely,

(Signature of Gopalan)

Head of the
Department of Electronics & Communications Engineering
Dr. Lankapalli Bullayya College of Engineering
Visakhapatnam-13





Industrial Visit Report: Doppler Weather Radar System at Kailasagiri, Vizag

Introduction

On 29th of September 2023, in Vizag, our group of enthusiastic students from Dr. Lankapalli Bullayya College of Engineering embarked on an educational journey to the Kailasagiri Doppler Weather Radar system located atop the picturesque Kailasagiri Hill. This industrial visit was organized as part of our curriculum to give us a practical insight into the world of meteorology and radar technology. The Doppler Weather Radar System, which plays a key role in weather forecasting and monitoring, offered us a unique opportunity to understand its operation and interact with experts in the field.

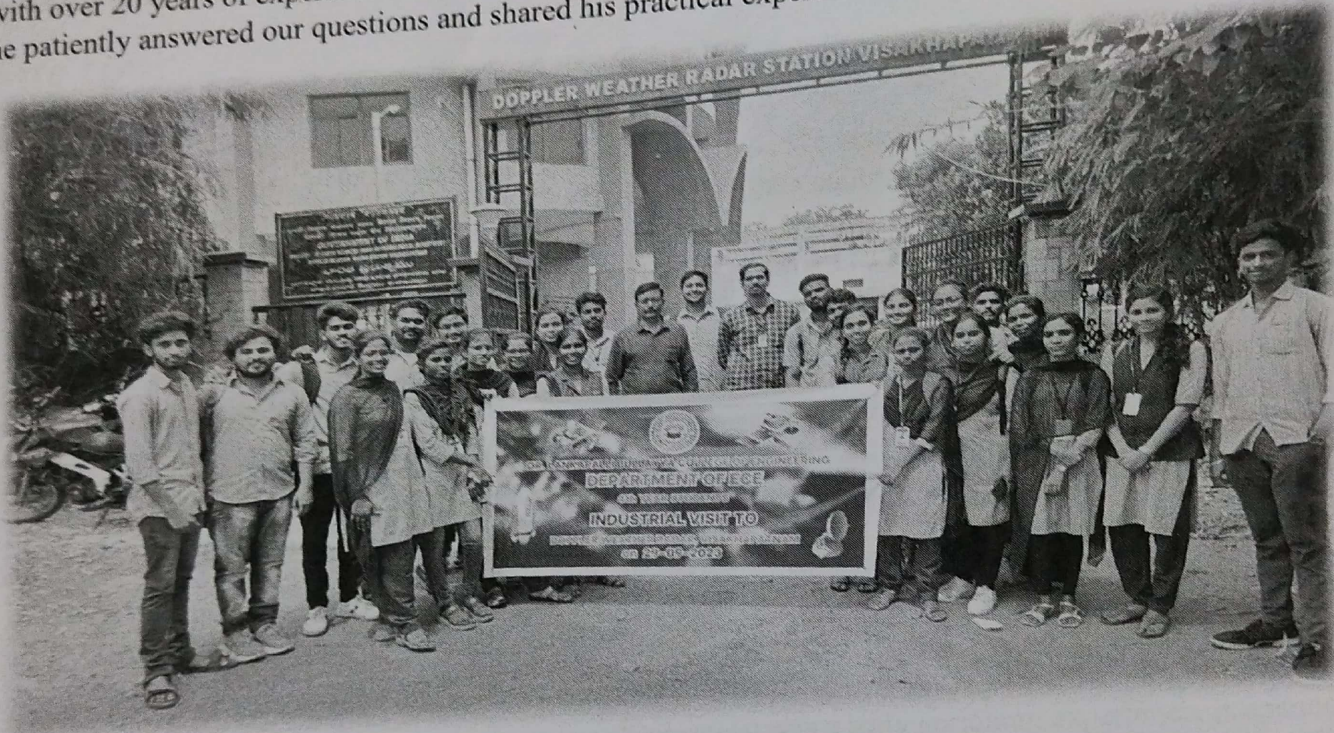
Overview of the Doppler Weather Radar System

Prior to our interaction with an industry expert, we received a detailed presentation on the Doppler Weather Radar System. This radar technology is key in gathering data on weather phenomena such as precipitation, wind speed and the movement of severe weather systems. The radar system at Kailasagiri is an advanced dual-polarization Doppler radar capable of providing accurate information on weather conditions within a radius of hundreds of kilometres.

The presentation dealt with the basic principles of radar technology and the operation of Doppler radar. It explained how radar signals are transmitted, bounce off raindrops or other objects in the atmosphere, and return to the radar antenna. A key concept was the Doppler effect, which illustrated how radar could detect the speed and direction of precipitation particles based on a shift in the frequency of the returning signals. This view was fascinating and set the stage for our interactions with the industry expert.

Interact with an industry expert

We had the privilege of working with Mr. A.V.K.L. Ganeswara Rao, an Meteorologist and industry expert with over 20 years of experience in weather radar technology. His insights and expertise were invaluable as he patiently answered our questions and shared his practical experience in the industry.



Main Discussion Points:

- 1. Instruments and Operation:** Mr. Kumar explained the various components of a radar system including antenna, transmitter, receiver and signal processing units. He described how a radar system sends out radio waves and captures the reflected signals to create radar images. We were fascinated by the level of precision of the process.
- 2. Applications in meteorology:** The expert shed light on the numerous applications of Doppler radar in meteorology. We learned that it is not limited to weather forecasting, but is also critical to disaster management, aviation and agriculture. The data collected helps predict severe weather events and enables early warning, saving lives and resources.
- 3. Challenges and Maintenance:** Mr. Kumar discussed the challenges faced in maintaining and calibrating such a complex system. He stressed the importance of regular maintenance to ensure the accuracy and reliability of the radar system. It was clear that a team of dedicated engineers and meteorologists was critical to keeping the radar up and running.

4. Data Interpretation: We dived into the process of interpreting radar data. Mr. Kumar demonstrated how meteorologists use information gathered by radar to track storm systems, track precipitation and analyse wind patterns. The ability to distinguish between different types of precipitation such as rain, snow and hail was particularly interesting.

5. Real Life Scenarios: The expert shared real life scenarios where a radar system played a vital role in forecasting and monitoring adverse weather events like cyclones and heavy rainfall. These examples underscored the importance of Doppler radar for public safety and disaster preparedness.

Site tour

After the interactive part, a tour of the radar system awaited us. We marvelled at the colossal radar antenna, which was as tall as a multi-story building. The sheer scale of the equipment was impressive and we gained a new appreciation for the technology that helps us understand weather patterns.

Inside the radar facility, we were able to see the control room and data processing centre. This was where meteorologists and technicians tirelessly monitored weather conditions and provided accurate forecasts. We were lucky enough to witness the radar in action with colour maps showing various weather parameters.

Conclusion

Our visit to the Doppler Weather Radar System at Kailasagiri was a truly enriching experience. It opened our eyes to the complex world of weather technology and the vital role it plays in our lives. The insights gained from our interactions with Mr. Rajesh Kumar, an industry expert, were invaluable and his passion for the field was contagious.

This industrial visit not only deepened our understanding of Doppler radar systems, but also inspired us to explore careers in meteorology and related fields. It was a day well spent that provided a bridge between theoretical knowledge in the classroom and real world applications.

The Doppler Weather Radar System at Kailasagiri stands as a beacon of scientific progress, offering us a glimpse into the remarkable world of weather monitoring and forecasting. We sincerely thank the industry expert and team at the radar facility for their warm welcome and informative meeting. This visit was a remarkable educational endeavour that will leave a lasting impact on our academic and professional pursuits.



S.No	Roll No	Student Name	Attendance
1. /	320136412053	MARADANA ANUSHA	Anusha
2. /	320136412054	MEDISETTI JYOSHNA	H. Tyor
3. /	320136412055	MUNIKOTI MANIKANTA	Manikanta
4. /	320136412056	MV SATYA SAI PHANI KUMAR	Yli
5. /	320136412057	MUVVALA CHARISHMA	M. Charishma
6. /	320136412058	NSVSR PAWANA KRISHNA	Krishna
7. /	320136412059	NAMMI JAHNAVI	H. J. J.
8. /	320136412060	NARUNU VAMSI	Vamsi
9. /	320136412061	NAVAGANA ROHINI	Rohini
10. /	320136412063	PALAKONDA PRAGYNA	P. Pragnya
11. /	320136412064	PATNANA SAI KIRAN	Kiran
12.	320136412065	PIKKI JYOTHI	Jyothi
13. /	320136412066	PILLA SATISH KUMAR	P. Satish Kumar
14. /	320136412067	POTTA LAHARI	Lahari
15. /	320136412068	RAYIDI HARSHITHA	P. Harshitha
16. /	320136412070	SADI SREYA	S. Sreya
17.	320136412071	SAI ADITYA TANNIRU	Tanniru
18. /	320136412072	SALAPU JYOTHIKA	S. Jyothika
19. /	320136412073	S BALA TRIPURA SUNDARI	S. Tripura
20.	320136412075	SISTLA HEMA LAHARI	H. Lahari
21. /	320136412076	SONALI PRADHAN	Sonali
22.	320136412077	SRUTHI SINGH	Singh
23.	320136412078	SUNKARA ANUSHA	Anusha
24. /	320136412079	SURI SETTI JAYA RAJU	Jaya Raju
25.	320136412080	SYED HAMZA MUHAYMIN	Muhaymin
26.	320136412081	T KRISHNA PRADEEP KUMAR	Kumar
27. /	320136412082	TEELLA MOUNIKA	T. Mounika
28. /	320136412083	THEEGELA SAI KARTHIK	T. Sai Karthik
29. /	320136412085	TULUGU ANITHA	T. Anitha
30. /	320136412086	TUMMAPALA HARISH KUMAR	T. Harish Kumar
31.	320136412087	TUTTA BINDU PRIYA	T. Bindu Priya
32.	320136412088	VARADHI VIGNYA SRAVANI	S. Sravani
33. /	320136412089	VV KANAKA DURGA CHITTI B	V. Chitti B
34.	320136412090	VINNAKOTA SUSHMITHA	Sushmitha

35.	320136412091	VOONA LAHARI	
36.	320136412092	VUJIRI ROHITH	<i>Rohith</i>
37.	320136412093	VUMMADISETTI YASHASWINI	
38.	320136412094	AGRAPU SIRI CHANDANA	<i>A Sri Chandana</i>
39.	320136412095	BEHARA TARUN	
40.	320136412096	BNIRANJAN SHAKTHIK	<i>B. Shakthik</i>
41.	320136412098	DATTI HANISHA	<i>D. Hanisha</i>
42.	320136412099	DURGA LALITH SAI	<i>D. Lalitha</i>
43.	320136412100	GABU NAGA SAI REDDY	<i>G. Naga Sai</i>
44.	320136412101	GANDI LAVANYA	
45.	320136412102	GOMPA LAVANYA	<i>G. Lavanya</i>
46.	320136412103	JINAGA SWETHA	
47.	320136412104	KORATANA DAMODARA RAO	<i>K. Damodara Rao</i>
48.	320136412105	KADIRI YAKSHITHA	
49.	320136412106	LAGUDU SRAVANI	
50.	320136412107	MANGALA HEMA SUNANDA	<i>Sunanda</i>
51.	320136412108	ONUMU SANTOSH	<i>O. Santosh</i>
52.	320136412109	PATNANA SAI NIHARIKA	
53.	320136412110	POTNURU JYOTSNA	<i>P. Jyotsna</i>
54.	320136412111	REDDI AKSHAY KUMAR	<i>R. Akshay Kumar</i>
55.	320136412112	TKRISHNARJUNA SURYA	<i>T. Surya</i>
56.	320136412113	TEMBA HARSHINI	<i>T. Harshini</i>
57.	320136412114	VECHALAPU SWATHI	<i>V. Swathi</i>
58.	320136412115	SHAIK JAHEDA	

Head of the Department
Dr. Lankapati Bulayya College of Engineering
Reservanipalem, Visakhapatnam-530013



Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education
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Ph : Off : 0891-2703293, 2703296
Email : principal@lbce.edu.in Website : www.lbce.edu.in

DATE: 24-04-2024.


CIRCULAR




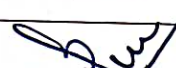
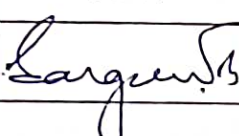
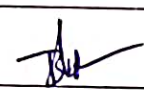

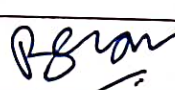
It is hereby informed that an Industrial Visit to ALL INDIA RADIO, SIRIPURAM, VISAKHAPATNAM AND RADIO TRANSMITTER, KURMANNAPALEM is planned for II/IV B.Tech students of ECE Department on 30-04-2024.

In this regard, The II/IV B.Tech ECE students of Engineering are informed to go for the visit.

Copy to

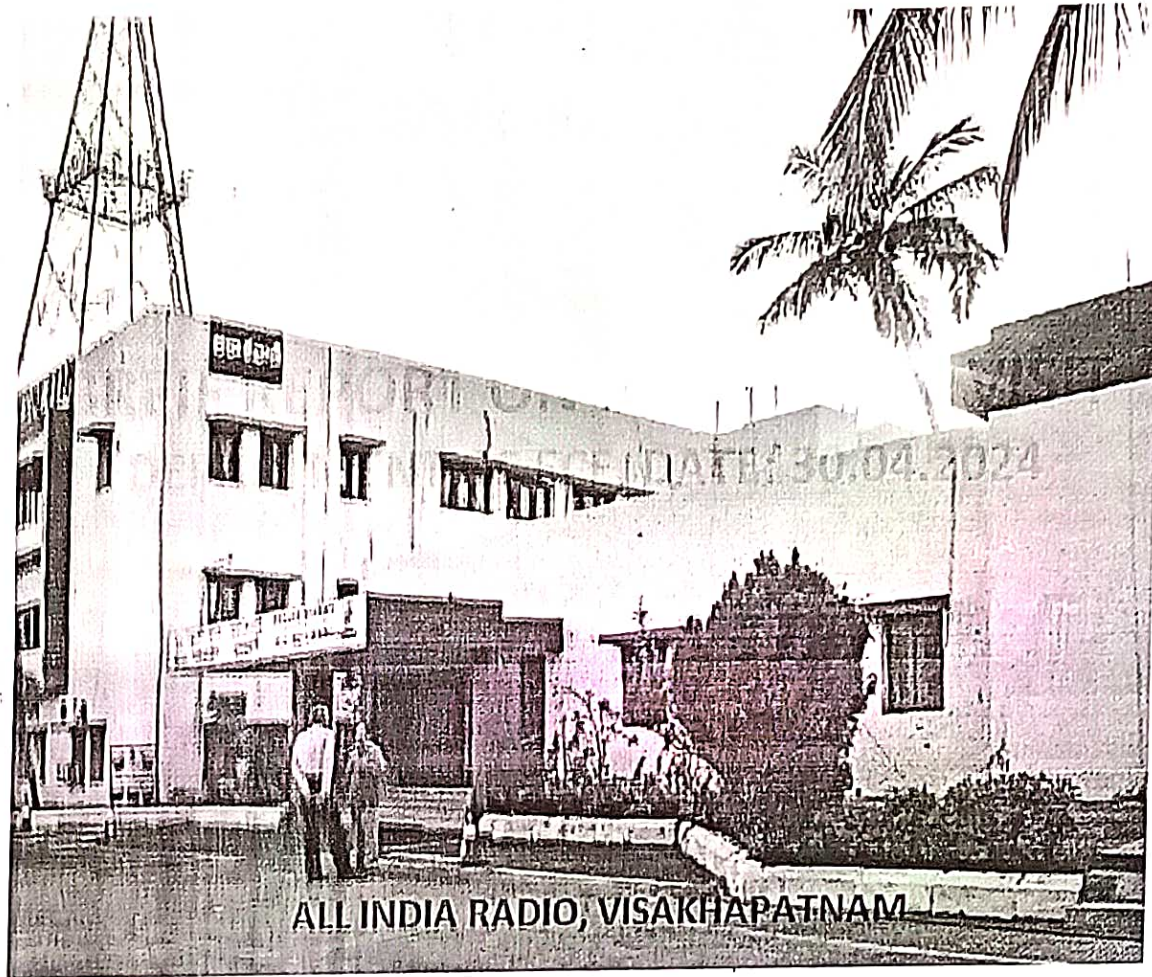
Hon'able Secretary and Correspondent
HOD's of All Departments,
IQAC
R&D Cell
ESIC Cell
SDC


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Door No. 52-14-75, Resapuvanipalem.
Visakhapatnam-530013
Andhra Pradesh

HOD-CIVIL	HOD-CSE	HOD-ECE	HOD-EEE	HOD-BS&H
				V. R. Reddy
II-ECE	II-ECE	SDC	R&D Cell	IQAC
	Dr.			

BREIF REPORT ON INDUSTRIAL VISIT

DEPARTMENT OF ECE, DATE: 30.04.2024



Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education

Affiliated to Andhra University, Approved by AICTE

52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.

Ph : Off : 0891-2703293, 2703296

Email : principal@lbce.edu.in Website : www.lbce.edu.in



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INDEX

S.NO	CONTENT	PAGE NO
1	PERMISSION LETTER FROM AIR	1-2
2	BREIF OBSERVATION REPORT	3-5
3	PHOTO GALLERY	6
4	STUDENTS ATTENDENCE STATUS	7-8



प्रसार भारती /Prasar Bharati

(भारत का लोक सेवा प्रसारक / India's Public Service Broadcaster)



आकाशवाणी : विशाखापट्टणम/ All India Radio::Visakhapatnam

Tele Fax: 0891 – 2562084 E-mail: airvisakhapatnam@rediffmail.com

सं/No: 11(12)/2024-25/E/IV/

दिनांक/ Date: 29.04.2024

The Head of Department
Department of ECE
Dr. Lankapalli Bullayya College of Engineering
Visakhapatnam

Sub:- Permission to visit to All India Radio – reg
Ref:- Your letter dated 25.04.2024

Sir,

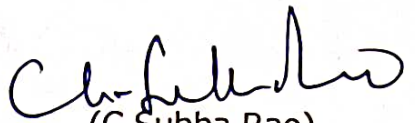
With reference to above, this is to state that 61 nos. of 2nd year ECE Students of your college are permitted to visit All India Radio installations i.e. Studios & FM Transmitter at Siripuram and 100 kW MW Transmitter at Aganampudi, Visakhapatnam on **30.04.2024**. GST Invoice No. VSP/TRg/03/2024-25 dated 29.04.2024 for Rs. 21,594/- is enclosed.

You may kindly instruct the following points to your students for strict compliance:

- Mobile phones be switched off or in silent mode during their visit to studios & transmitters.
- They should avoid leaning on walls.
- Taking of photos either from cameras or mobiles is prohibited in and around AIR premises.
- All students should wear masks during the visit of All India Radio.

Yours Faithfully,

Encl: GST Invoice for Rs.21,594 /-


(C.Subba Rao)
Deputy Director General (E)

Prasar Bharati e-Invoicing System



B2C Billing

Invoice No : VSP-TRG/03/24-25**Payment mode :** UPI**Bill date :** 2024-04-29**Transaction Id :** UTR No: 412062689307**Category :** B2C**Paid On :** 2024-04-29 14:54:00

Seller

GSTIN : 37AAAJP0288R1ZE
ALL INDIA RADIO
SIRIPURAM VISAKHAPATNAM
VIJAYWADA
520010
ANDHRA PRADESH

Purchaser

Dr.Lankapalli Bullayya College of Engineering
Resapuvanipalem, Visakhapatnam - 16

Items Details

S. No.	Product Description	HSN/SAC Code	Quantity	Unit Price (Rs.)	Discount (Rs.)	Taxable Amount(Rs.)	GST (%)	Cess	Total (Rs.)
1	INDUSTRIAL VISIT BY 61 ENGINEERING STUDENT FOR 1 DAY ON 30.04.2024	998346	61	300	0	18300	18% CGST - 1647 SGST - 1647 IGST - 0	0	21594

Taxable Amount (Rs.)	CGST Amount (Rs.)	SGST Amount (Rs.)	IGST Amount (Rs.)	Cess Amount (Rs.)	Total Invoice Amount (Rs.)
18300	1647	1647	0	0	21594

Printed On :2024-04-29 15:00:14 ----- IP : 183.83.253.152



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Ph : Off : 0891-2703293, 2703296
Email : principal@lbce.edu.in Website : www.lbce.edu.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A BREIF REPORT ON INDUSTRIAL VISIT

1.EVENT TYPE:

INDUSTRIAL VISIT

DATE OF VISIT:

30.04.2024

2. PLACE OF VISIT:

1. ALL INDIA RADIO, SIRIPURAM, VISAKHAPATNAM
2. RADIO TRANSMITTER, KURMANNAPALEM

**3. NAME OF FACULTY
ACOMPANY THEM:**

MR. B.SANGEETH KUMAR, ASSISTANT PROFESSOR, DEPT OF ECE
MRS. R.RAZIA BEGUM, ASSISTANT PROFESSOR, DEPT OF ECE

4. TARGET AUDIENCE

II B.TECH II-SEM, ECE STUDENTS - 61

5.OBJECTIVE OF THE EVENT:

VISIT ALL INDIA RADIO, VISAKHAPATNAM.

6. OUTCOME OF EVENT:

EXPOSURE TO COMMUNICATION ENGINEERING, ANTENNAS,
AMPLIFIERS, HIGH POWER TRANSFORMERS.

1. Received a request letter from the students for arranging industrial tour.

2. Applied to the industry for getting permission.

3. Permission Granted from the industry to visit.

4. Submitted the details to the Principal and HOD, Department of ECE for sanctioning permission.

5. Arranged one bus for both boys and girls along with two faculties in charges and collecting undertaking forms of each student from their parents.

6. Visited RADIO Transmitter studio and Transmitter link unit.

VISITING FROM 10:30 AM TO 1:30 PM - ALL INDIA RADIO, SIRIPURAM,
VISAKHAPATNAM

3:00 PM TO 5:00 PM - RADIO TRANSMITTER, KURMANNAPALEM,
VISAKHAPATNAM

**7. DESCRIPTION &
REPORT ON EVENT:**

**8. FEEDBACK/
SUGGESTIONS:**

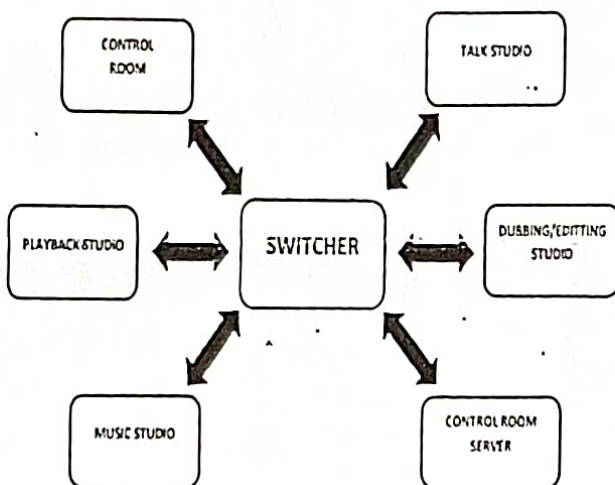
TECHNICAL DETAILS OBSERVED 1:

ALL INDIA RADIO, SIRIPURAM, VISAKHAPATNAM

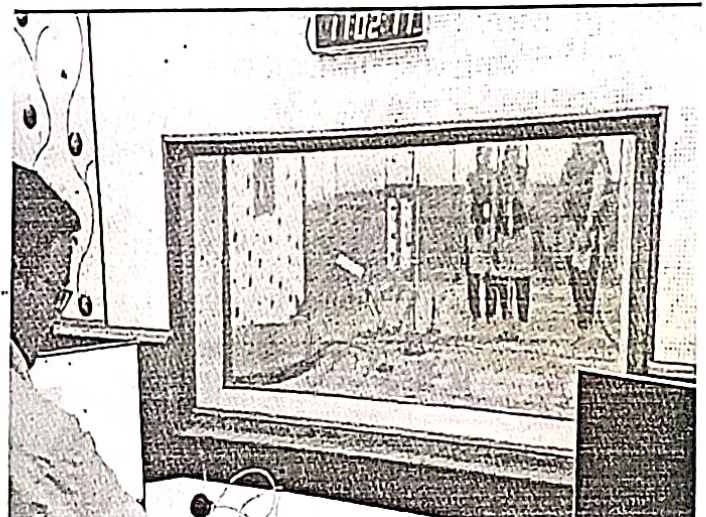
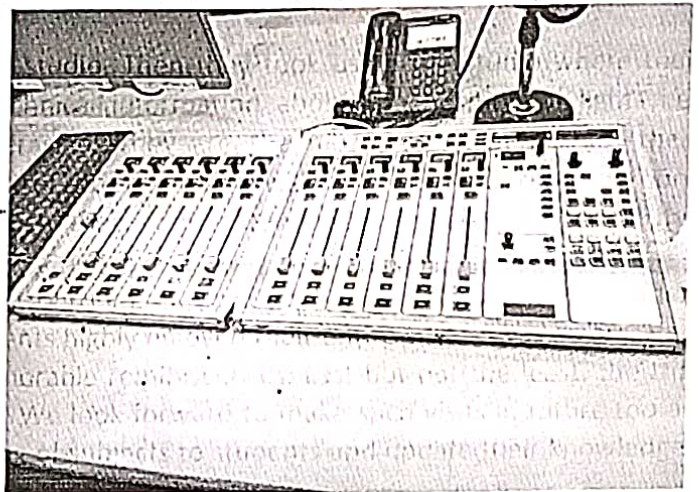
We met the authorities there and entered in to the studio. Then they took us to the studio where they conduct gathering program. they gave us some technical information about the position of lights i.e. backlight, front or key light & kill Light and cameras, as they are the most important part of their programme. Then they showed us the working of control room. Then we were taken to Audio control room where he showed us the audio console, from which they control the audio signals by altering the frequencies of sound.

In All India Radio, we visited the entire studio like control room, music studio, playback studio, talks studio, Transmitter Section, recording room; etc. All the students highly enjoyed their entire visit. It was an amazing experience of fun & learning, which we all have memorable reminiscences. Last but not the least; the trip was exceptionally good & knowledgeable to all of us. We look forward to make such visits in future too as technical visits gives practical and better understanding of subjects to students and update their knowledge. We thank the staff for giving such a wonderful opportunity.

BLOCK DIAGRAM OF THE STUDIO



CONTROL ROOM STUDIO CONSOLE: STUDIO TRANSMITTER LINK (STL).



TECHNICAL DETAILS OBSERVED 2:

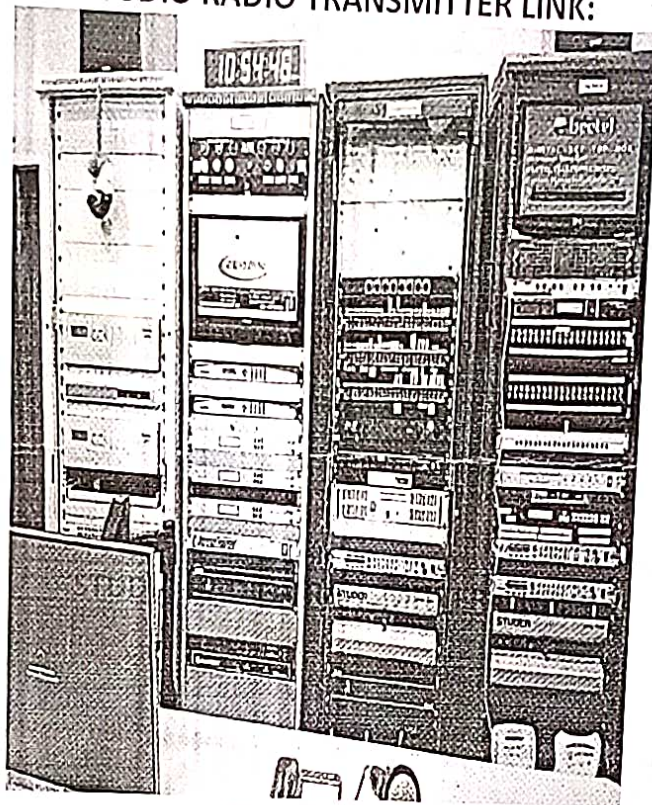
RADIO TRANSMITTER, KURMANNAPALEM

We met the authorities there and entered in to the Radio Transmitter, Kurmannapalem, Visakhapatnam. Then they took us to the Transmitter Link and Antenna where they conduct gathering program. they gave us some technical information And We Knew The Need Of Radio Transmitter: The general purpose of a transmitter is to transmit signals or to process the information. These signals contain information, which can be audio, video, or data. A transmitter launches signals into the air via a transmitting antenna.

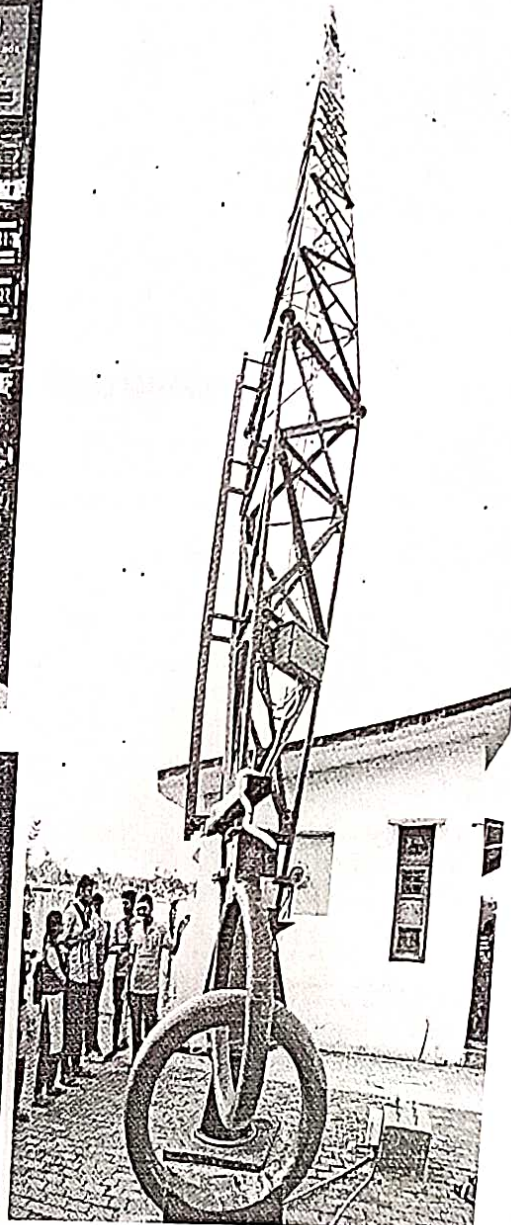
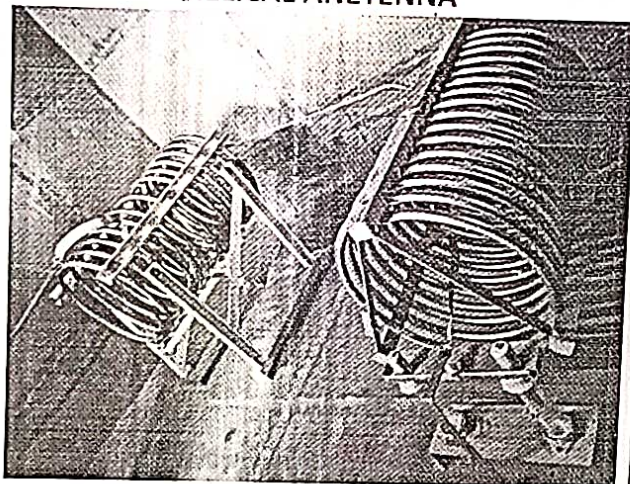
A radio transmitter or just transmitter is an electronic device which produces radio waves with an antenna. Radio waves are electromagnetic waves with frequencies between about 30 Hz and 300 GHz. The transmitter itself generates a radio frequency alternating current, which is applied to the antenna.

STUDIO RADIO TRANSMITTER LINK:

ANTENNA



HELICAL ANTENNA





INDUSTRIAL VISIT PHOTO GALLERY



SL. NO.	NAME	ROLL NO.	MOBILE NO.	SIGNATURE
1	A. BHARGAV RAM	322136412003	9391021353	A. Bhargava Ram
2	PUSHPANJALI	322136412005		A. Pushpanjali A. Pushpanjali
3	B. SWATHI	322136412016	7729813897	B. Swathi B. Swathi
4	D. RAMCHARAN	322136412024	9491012378	D. Ramcharan
5	J. NAGA DURGA SAHITHI	322136412036	90636 22619	J. Sahithi J. Sahithi
6	M. BHAVANI	322136412055	70131 34303	M. Bhavani M. Bhavani
7	M. DEEPIKA	322136412056	9392581695	M. Deepika M. Deepika
8	M. SOWJANYA	322136412057	7569748606	H. Sowjanya M. Sowjanya
9	M. SHIVANI	322136412060	8917669639	M. Shini M. Shini
10	M. DIVYA	322136412061	8309247722	M. Divya M. Divya
11	MD. NISAR	322136412064	7013924537	MD. Nisar MD. Nisar
12	M. APARNA	322136412065	7702876516	M. Aparna M. Aparna
13	M. RAKADA PALLAVI	322136412066	7075561334	Pallavi Pallavi
14	N. SAI KEERTHANA	322136412068	8978157426	Sai Keerthana Sai Keerthana
15	NITUJHA	322136412069	8886413513	Nitu Nitu
16	O. VINAY	322136412070	9908710937	O. Vinay O. Vinay
17	SAMYUKTA	322136412051	9347887392	P. K. K. Samyukta P. K. K. Samyukta
18	AKHILESHWARI	322136412059	6304048034	K. Akhileshwari
19	HARISH	322136412020	9640233136	Harish Harish
20	SAI	322136412052	9398194701	Sai Sai
21	GIRISH	322136412047	8985651413	K. Girish K. Girish
22	G. GANESH	322136412031	7995794910	G. Ganesh G. Ganesh
23	D. MOUNIKA	322136412028	8179876262	D. Mounika D. Mounika
24	D. MOHIT	322136412027	8919330439	D. Mohit D. Mohit
25	A. CHANAKYA	322136412001	6281074941	A. Chanakya A. Chanakya
26	K. SUJATHA	322136412038	9493869398	K. Sujatha K. Sujatha
27	O. YASHWANT KUMAR	322136412071	6302882976	O. Yashwant Kumar O. Yashwant Kumar
28	P. SHARANYA	322136412076	9182572487	P. Sharanya P. Sharanya
29	P. CHANDINI	322136412077	6305804829	P. Chandini P. Chandini
30	P. RAKESH	322136412078	8074540558	P. Rakesh P. Rakesh
31	P. RITESH KUMAR	322136412080	+917816050026	P. Ritesh P. Ritesh
32	S. AKHIL	322136412087	7674885956	S. Akhil S. Akhil

33	S. KALYANI	322136412088	9398455968	S. Kalyani	S. Kalyani
34	SRI DHANUSH SINGH	322136412090	9963107642	S. Dhanush	S. Dhanush
35	V. SAI VIGNESH	322136412098	9247202141	V. Sai Vignesh	V. Sai Vignesh
36	Y. MADHUMATHI	322136412099	8897050721	Y. Madhumathi	Y. Madhumathi
37	B. PAVANI	322136412100	7815805779	B. Pavani	B. Pavani
38	G. SUPRIYA	322136412103	9391747357	G. Supriya	G. Supriya
39	KEZIA POORNIMA	322136412104	7330838522	G. Kezia	G. Kezia
40	MD. KIZAR SAMDHANI	322136412107	8143198845	MD. Kizar	MD. Kizar
41	O. SAI DIVYA	322136412108	6281149539	O. Sai Divya	O. Sai Divya
42	P. BHAVANI	322136412109	7013496883	P. Bhavani	P. Bhavani
43	T. PRAISY SUPRIYA	322136412110	8519845373	T. Praisu	T. Praisu
44	G. DEEPIKA	322136412114	9347105715	G. Deepika	G. Deepika
45	K. SNEHARIKA	322136412114	9121737793	K. Sneharika	K. Sneharika
46	K. ROHIT	322136412115	8885418894	K. Rohith	K. Rohith
47	M. KARTHIK	322136412117	6300343592		
48	N. BHANU REKHA	322136412119	9248382270	N. Rekha	N. Rekha
49	N. SHARMILA	322136412120	7660895716	N. Sharmila	N. Sharmila
50	P. GOWRI SHANKAR	322136412121	8688939816	P. Gowri	P. Gowri
51	P. ALEKHYA	322136412123	9550871774	P. Alekha	P. Alekha
52	S. DEEPA SAHASRA	322136412125	8978513669	S. Deepa	S. Deepa
53	T. CHANDRIKA	322136412126	8247522549	T. Chandrika	T. Chandrika
54	T. SAI GANESH	322136412128	9553048142		
55	Y. LIKITHA	322136412130	8341229963	Y. Likitha	Y. Likitha
56	A. TULASI	322136412131	9110322207	Tulasi	Tulasi
57	N. RAMALAKSHMI	322136412132	7993436374	N. Rammi	N. Rammi
58	K. VASAVI VIHARIKA	322136412116	7337536087		
59	T. BHUVANA	322136412127	8247594232	T. Bhuvana	T. Bhuvana
60	P. SATYA SAI GANESH	322136412079	9014842016	P. Satya	P. Satya
61	PARIMALA ROJA	322136412086	9948161796	S. P. Roja	

Sangam T. S.

Head of the Department
Electronics & Communication Engineering
Dr. Lakshmi Birla College of Engineering
Bisnagar, Visakhapatnam-530013



Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

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Email : principal@lbce.edu.in Website : www.lbce.edu.in

DATE: 08-05-2024,

CIRCULAR

The Department of Civil Engineering is conducting **INDUSTRIAL VISIT** on 9th May 2024 in **NAVAL SCIENCE & TECHNOLOGICAL LABORATORIES** for exploring the nation's defence marvels in NSTL DRDO and inspire the next generation of engineers to work in the field of technology and prosper to great heights.

All the II B.Tech Civil Engineering Students are informed to attend the NSTL INDUSTRIAL VISIT without fail.


Principal

PRINCIPAL




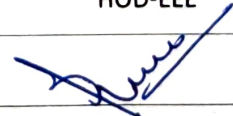




Dr. Lankapalli Bullayya College of Engineering
Door No. 52-14-75, Resapuvanipalem
Visakhapatnam-530013
Andhra Pradesh

Copy to

Hon'ble Secretary and Correspondent

Copy to all HODs, SDC Co-Ordinator

IQAC Co-Ordinator, Office

HOD-CIVIL	HOD-CSE	HOD-ECE	HOD-EEE
			
II-CIVIL	IQAC	SDC	Office
			

GRAMS: "FNESTIEL"
Fax: +91 0891 2550464
Phone: +91 0891 2586163
(0891 2586290)

Email: ntdc.nstl.drdo@gmail.com



No NSTL/NTDC-2024 Open House-Competitions
Naval Science & Technological Laboratory
Govt. Of India, Ministry of Defence
Defence Research & Development Organisation,
Vigyan Nagar, Visakhapatnam- 530027
Date: 08 May 2024

To
Vice-Chancellor Principal/HM

.....Visakhapatnam region
Visakhapatnam-AP

Sub: Invitation for National Technology Day Celebration (NTDC)-2024

(Refer to your Abstracts, submitted to participate in NTDC-2024)

- 1) It is informed to Vice-Chancellor/Principal/HM of all institutions whoever submitted abstracts to participate in NTDC-2024, that the following abstracts have been selected to participate in Open house (Exhibition)
- 2) National technology day is being celebrated at NSTL-DRDO on 10th may 2024. On this occasion, NSTL is organizing following events for students.
 - i) Open house (Exhibition/Display of NSTL's Products – 09th to 10th May 2024
 - ii) Multi-media presentation of NSTL-DRDO technologies - 09th to 10th May 2024
 - iii) Open house for all students on model /exhibits by various institute on theme
"From Schools to Startup: Igniting young Minds to Innovate"
- 3) All colleges and schools are requested to inform selected participants to report at below mentioned venue for registration
 - (i) Date: 09 May 2024
 - (ii) Venue: Ramnath Secondary School, NSTL DRDO Residential complex
 - (iii) Time: 0700 Hrs (Morning).
- 4) We are providing only stalls for selected institutions along with pedestal fan, extension board, table, chair, refreshment etc. Lunch has been also arranged only for participants (Exhibitors) on 09th & 10th afternoon.
- 5) You may please advise your students to carry their photo identity cards and escorted by a faculty member during the exhibition. Further please note that Smartphones/cameras are not permitted during the exhibitions as a security measure. Decorum and discipline are to be maintained during the visit. Visiting students and accompanying faculty may be briefed.
- 6) The list of selected abstracts along with title has been attached for your ready reference, kindly circulate it among all concerned.
- 7)

For full details, Please Contact

- Shri Sathiyakumar, Sc-E (0891-2586290)
- Shri R Trinadh, TO-B, (0891-2586415, 9032322136)
- Shri Gaurav K Prajapati, STA-B (0891-2586221, 8539088872)

K. Ch. S. P. V.
Organizing Committee
NTDC-2024
NSTL-DRDO
Ministry of Defence, Gol



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II/IV,B.E/B.TECH CIVIL,2023-24,II SEMESTER

LIST OF STUDENTS ATTENDED NSTL

S.NO	REG NO	NAME OF THE STUDENT
1	322136408001	BODA MOKSHAZNA
2	322136408002	CHALLA NARENDRA
3	322136408003	GORLE DRAKSHAYANI
4	322136408004	KOLLATI RAJ KUMAR
5	322136408005	MEDISETTI CHAITANYA
6	322136408006	MOHAMMAD BASHEER
7	322136408007	PYDI LAVANYA
8	322136408008	SNABI BALA MURALI KRISHNA
9	322136408009	TATANABOINA SRINIVAS
10	322136408010	BAGGAM LIKITHA
11	322136408011	BATTINA MUKESH
12	322136408012	CH NARENDRA KUMAR PADAL
13	322136408013	DARAPU SANJAY
14	322136408014	EARNI PUJITHA
15	322136408015	GANTA DINESH
16	322136408016	GONEDA HEMANTH
17	322136408017	GOWTHU JAYASRI
18	322136408018	GUJJARI PREMCHAND
19	322136408019	K VENKATESWARA RAO
20	322136408020	K. LOHITH VENKATA RAMANA
21	322136408021	KORADA VASU
22	322136408022	LAKE NATARAJ
23	322136408023	LAVETI JYOTSNA PRIYA
24	322136408024	MEESALA SUMATHI
25	322136408025	NETTIMI SRINIVAS
26	322136408026	PANCHADI BALU
27	322136408027	PATNANA SINDUJA
28	322136408028	PENAGANTI CHANDANA
29	322136408029	PITTA PAVANA JYOTHI
30	322136408030	RAJANA HARITHA
31	322136408031	RASHMITA JENA
32	322136408032	RAYITHI RAMU
33	322136408033	REDDY SAI YASASWINI
34	322136408034	RIZWANA FIRDOUS
35	322136408035	SANABOYINA HARI KRISHNA
36	322136408037	TAMARI KARTHIK
37	322136408038	TEKETI MOHAN
38	322136408039	VEMPADAPU KARTHIK
39	322136408040	YALLA SINDHUJA
40	322136408041	YANDRAPU BHAVANA
41	322136408042	YERNENI GANESH
42	322136408043	YERRA CHAITANYA KUMAR
43	322136408044	BAYINA DILLESWARI
44	322136408045	GARIKINA ASHOK
45	322136408046	GUDLA KUSHMITHA
46	322136408047	SASUBILLI KARTHIK
47	322136408048	VADLAMANI L V P APARNA



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II/IV,B.E/B.TECH CIVIL, 2023-24,II SEMESTER

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10	322136408010	BAGGAM LIKITHA
11	322136408011	BATTINA MUKESH
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14	322136408014	EARNI PUJITHA
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18	322136408018	GUJJARI PREMCHAND
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38	322136408039	VEMPADAPU KARTHIK
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42	322136408043	YERRA CHAITANYA KUMAR
43	322136408044	BAYINA DILLESWARI
44	322136408045	GARIKINA ASHOK
45	322136408046	GUDLA KUSHMITHA
46	322136408047	SASUBILLI KARTHIK
47	322136408048	VADLAMANI L V P APARNA
48	322136408049	VARUKOTI SIVAJI
49	322136408050	B.YASHWANTH NIKHIL



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

Sponsored by Society of Collegiate Education
Approved by AICTE, Affiliated to Andhra University

LIST OF STUDENTS

Industrial Visit

Name of Industry: Naval Science & Technological Laboratory (NSTL) | Defence Research and Development Organisation - DRDO, Ministry of Defence, Government of India, Visakhapatnam.


Department: CIVIL ENGINEERING

Date: 09-05-2024

S.No	Roll No	Name of Student	Signatures
1	322136408001	BODA MOKSHAZNA	B. mokshazna
2	322136408002	CHALLA NARENDRA	Absent
3	322136408003	GORLE DRAKSHAYANI	Absent
4	322136408004	KOLLATI RAJ KUMAR	Absent
5	322136408005	MEDISETTI CHAITANYA	Absent
6	322136408006	MOHAMMAD BASHEER	M.D. Basheer
7	322136408007	PYDI LAVANYA	P. Lavanya
8	322136408008	SNABI BALA MURALI KRISHNA	Absent
9	322136408009	TATANABOINA SRINIVAS	T. Srinivas
10	322136408010	BAGGAM LIKITHA	B. Likitha
11	322136408011	BATTINA MUKESH	B. mukesh
12	322136408012	C NARENDRA KUMAR PADAL	C. N. Narendrakumar
13	322136408013	DARAPU SANJAY	D. Sanjay
14	322136408014	EARNI PUJITHA	E. PUJITHA
15	322136408015	GANTA DINESH	G. D. Dinesh
16	322136408016	GONEDA HEMANTH	G. Hemanth
17	322136408017	GOWTHU JAYASRI	G. Jayasri
18	322136408018	GUJJARI PREMCHAND	G. Premchand
19	322136408019	KAYALA VENKATESWARA RAO	K. Venkateswar Rao
20	322136408020	KESUBOINA LOHITH VENKATA RAMANA	K. Lohith Venkata Ramana
21	322136408021	KORADA VASU	K. Vasu
22	322136408022	LAKE NATARAJ	L. Nataraj

23	322136408023	LAVETI JYOTSNA PRIYA	L. Jyotsna priya
24	322136408024	MEESALA SUMATHI	M. Sumathi
25	322136408025	NETTIMI SRINIVAS	N. Srinivas.
26	322136408026	PANCHADI BALU	P. Balu
27	322136408027	PATNANA SINDUJA	P. Sindhuja
28	322136408028	PENAGANTI CHANDANA	P. Chandana
29	322136408029	PITTA PAVANA JYOTHI	P. Jyothi
30	322136408030	RAJANA HARITHA	R. Haritha
31	322136408031	RASHMITA JENA	Rashmita Jena
32	322136408032	RAYITHI RAMU	R. Ramu
33	322136408033	REDDY SAI YASASWINI	R. Sai Yasaswini
34	322136408034	RIZWANA FIRDOUS	Rizwana
35	322136408035	SANABOYINA HARI KRISHNA	S. Hari Krishna
36	322136408037	TAMARI KARTHIK	T. Kartik
37	322136408038	TEKETI MOHAN	Absent
38	322136408039	VEMPADAPU KARTHIK	V. Kartik
39	322136408040	YALLA SINDHUJA	Y. Sindhuja
40	322136408041	YANDRAPU BHAVANA	Y. Bhavana
41	322136408042	YERNENI GANESH	Y. Ganesh
42	322136408043	YERRA CHAITANYA KUMAR	Y. Chaitanya Kumar
43	322136408044	BAYINA DILLESWARI	Absent
44	322136408045	GARIKINA ASHOK	G. Ashok
45	322136408046	GUDLA KUSHMITHA	G. Kushmitha
46	322136408047	SASUBILLI KARTHIK	S. Kartik
47	322136408048	VADLAMANI L V P APARNA	V. Aparna
48	322136408049	VARUKOTI SIVAJI	V. Sivaji
49	322136408050	BALIREDDY YESWANTH NIKHIL	B. Yeswanth Nikhil


Coordinator


Head of Department
Head of the Dept.
Dept. of Civil Engineering
Dr. Lankapalli Bullayya College of Engineering
Resapuvanipalem, Visakhapatnam-530013, A.P.



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Department of Civil Engineering

REPORT ON NSTL-DRDO VISIT

Industry Visited: Naval Science and Technological Laboratories, NAD Junction, VSP.

Faculty: Mr. D.V.V.SATYANARAYANAMURTY (Asst.Professor)

Mr.Y Rajesh (Asst.Professor)

Date of Visit:09-05-2024.

The department of civil Engineering have conducted an Industrial visit to NAVAL SCIENCE TECHNOLOGICAL LABORATORIES (NSTL), ON 09-05-2024.All the 2nd year students have participated in the event.

The NSTL is one of the premier laboratories of Naval systems and materials(NS&M) and cluster of DRDO, situated at Visakhapatnam. NSTL-DRDO is involved in DESIGNS, develop, evaluation of Torpedoes, mines, Decoys, Fire control systems, Autonomous under vehicles (AUV's) and other test facilities.

National Technology day has been celebrated at NSTL-DRDO ON 10TH MAY 2024. On this occasion NSTL has organized following events for students.

Open house (Exhibition/Display of NSTL's Products — 09" to 10" May 2024.

ii) Multi-media presentation of NSTL-DRDO technologies - 09" to 11" May 2024.

iii) Competition on model exhibits/models by students of various institutes



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All colleges and schools located in Visakhapatnam were invited to participate in the open house and the competition. During open house, students were permitted to witness display of exhibits of weapons/systems being developed by NSTL-DRDO for INDIAN NAVY.

A multimedia presentation of NSTL developed technologies will be screened during the visit. On this occasion, NSTL-DRDO is organizing a competition on "From Schools to Startup: Igniting young Minds to Innovate". Relevant models/exhibits may please be forwarded along with abstract by students duly approved by Principal of colleges to NSTL by 30th April 2024. Prizes and certificates will be awarded for best models/exhibits. Best models/exhibits will be displayed in the open house exhibition.

Objectives: Field visits are a way of enhancing classroom learning by making real world connections. It helps the students to have latest technologies.

Outcomes: It helps the students to have interactions with the subject experts.

Develops confidence and helps to increase their interpersonal skills.



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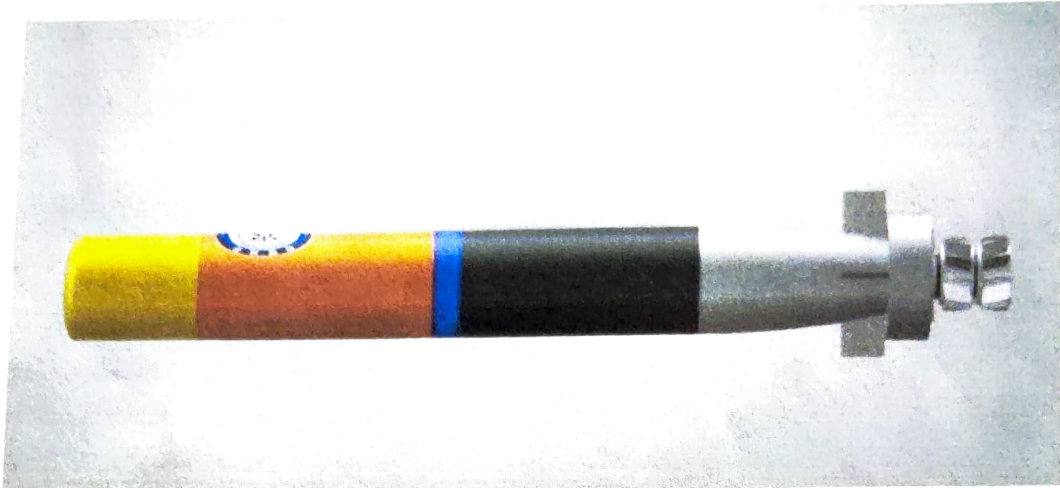


The **Torpedo Advanced Light (TAL) Shyena** is the first indigenous advanced lightweight anti-submarine torpedo of India, developed by the Naval Science and Technological Laboratory (NSTL) of the Defence Research and Development Organisation (DRDO) for the Indian Navy. The lightweight torpedo can be launched by ships, submarines, helicopters and previously the now retired Ilyushin Il-38, named after the divine hawk identified with Agni



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Shyena is electrically propelled, and can target submarines with a speed of 33 knots with endurance of six minutes in both shallow and deep waters. It can operate at depths of a few hundred metres and has self-homing, i.e. it can home in on targets by passive/active homing and explode on impact. Once launched, it can perform pre-programmed search patterns for available targets. The torpedo weighs around 220 kg.

Maareech Advanced Torpedo Defence System (ATDS) is a torpedo detection and countermeasure system used by the Indian Navy. The system offers a complete solution to detect and locate an incoming torpedo and to apply countermeasures to protect naval platform against torpedo attack. It was developed as a joint project of the Naval Physical and Oceanographic Laboratory (NPOL), Kochi and the Naval Science and Technological Laboratory (NSTL), Visakhapatnam. Bharat Electronics is manufacturing it India.

It is an anti-torpedo system with towed and expendable decoys. The system is capable of detecting, confusing, diverting and decoying the incoming torpedoes. The decoy helps in exhausting the energy of the torpedo by running the later through long and ineffective course and prevents them from homing in to the targeted platform with its advanced counter-measures capabilities.



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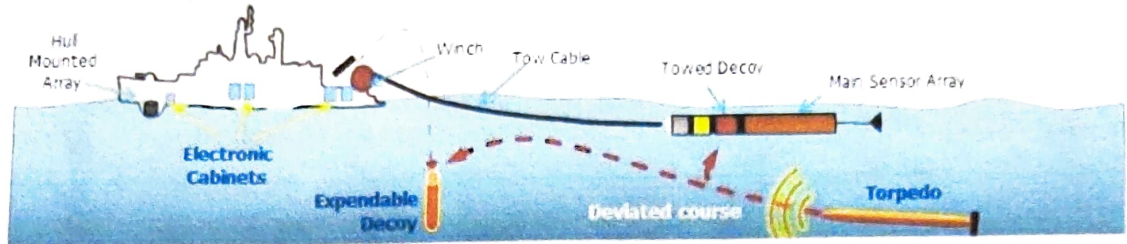


Fig. 1. Schematic diagram of MAAREECH Advanced Torpedo Defence System

Varunastra was manufactured by Bharat Dynamics Limited in association with NSTL. In April 2018, Bharat Dynamics Limited obtained a license to manufacture Varunastra from the DRDO. In June 2019, Ministry of Defence awarded a contract worth ₹1,187 crore (equivalent to ₹15 billion or US\$180 million in 2023) to Bharat Dynamics Limited to supply Varunastra to the Indian Navy.

During Aero India 2017, it was reported that DRDO has begun work on developing a Kilo-class submarine launched version of the torpedo.

On 6 June 2023, Indian Navy successfully conducted combat trial of Varunastra. The Torpedo was fired from a submarine and successfully hit an underwater target.





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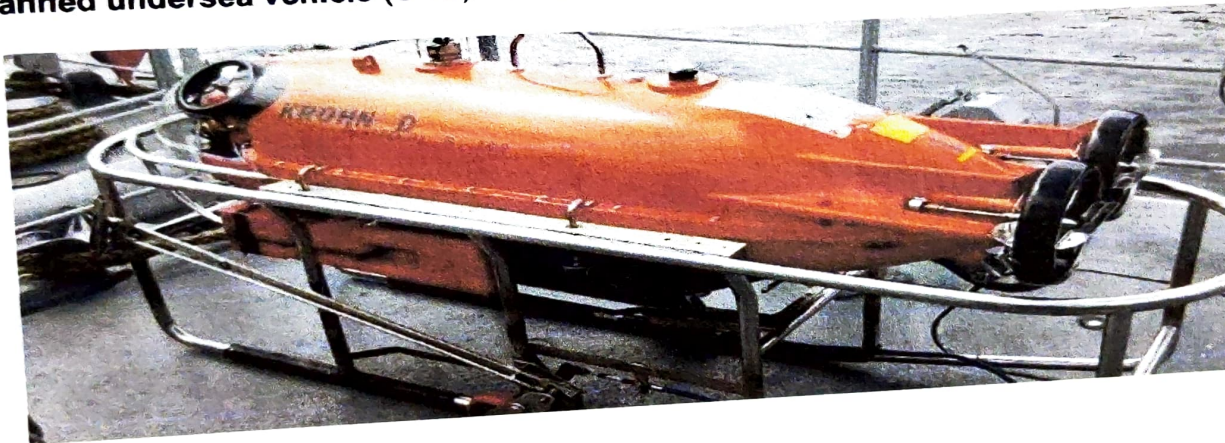
Affiliated to Andhra University, Approved by AICTE

52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.

Ph : Off : 0891-2703293, 2703296

Email : principal@lbce.edu.in Website : www.lbce.edu.in

An **autonomous underwater vehicle (AUV)** is a robot that travels underwater without requiring continuous input from an operator. AUVs constitute part of a larger group of undersea systems known as unmanned underwater vehicles, a classification that includes non-autonomous remotely operated underwater vehicles (ROVs) – controlled and powered from the surface by an operator/pilot via an umbilical or using remote control. In military applications an AUV is more often referred to as an **unmanned undersea vehicle (UUV)**. Underwater gliders are a subclass of AUVs.





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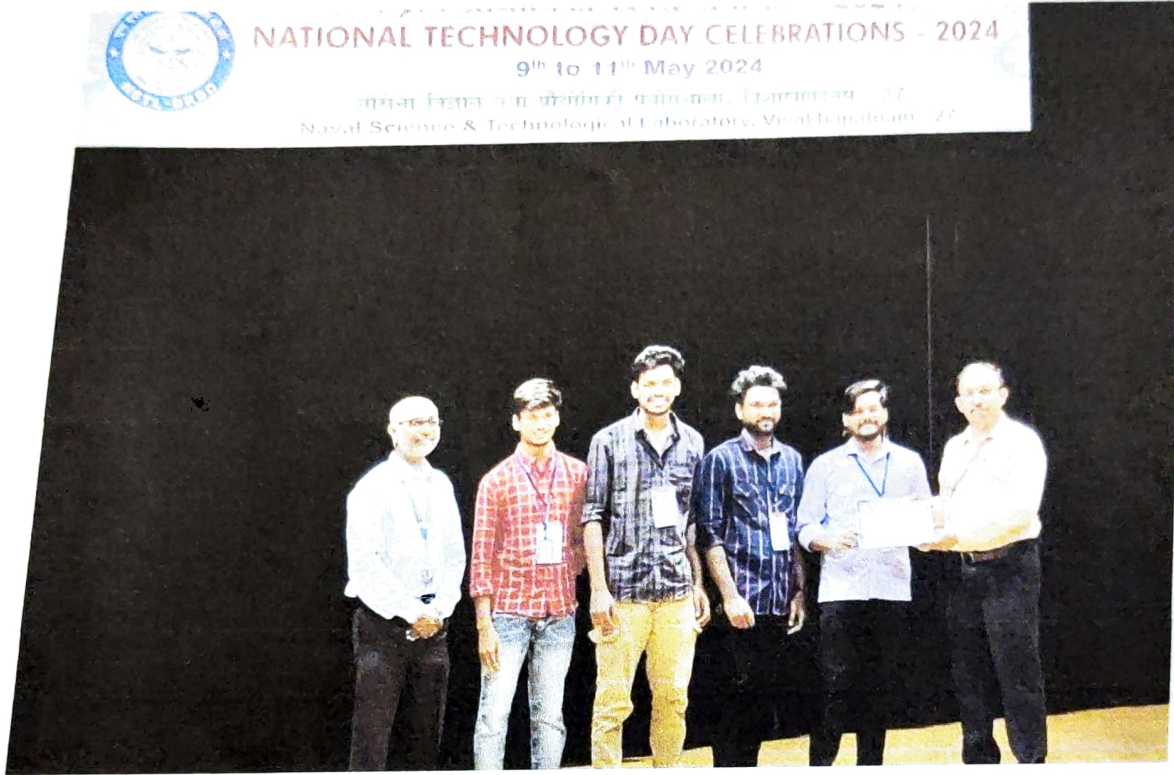
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NATIONAL TECHNOLOGY DAY CELEBRATIONS - 2024

9th to 11th May 2024

सामान्य विज्ञान तथा प्रौद्योगिकी प्रदर्शनशाला, विशाखापट्टनम - 27
Naval Science & Technological Laboratory, Visakhapatnam - 27



Students of III year getting Certificates from DIRECTOR (NSTL)



राष्ट्रीय प्रौद्योगिकी दिवस समारोह - 2024 NATIONAL TECHNOLOGY DAY CELEBRATIONS - 2024

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सामान्य विज्ञान तथा प्रौद्योगिकी प्रदर्शनशाला, विशाखापट्टनम - 27
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II/IV,B.E/B.TECH CIVIL,2023-24,II SEMESTER



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II/IV, B.TECH CIVIL, 2023-24, II SEMESTER

S. Srinivas
Coordinator

G. T. P. Naidu
Head of the Department
Head of the Dept.
Dept. of Civil Engineering
Dr. Lankapalli Bullayya College of Engineering
Resapuvanipalem, Visakhapatnam - 530 013



CERTIFICATE OF APPRECIATION



PROUDLY PRESENTED TO :

KOLLURU NIKHILESH

For participating in Open House & Exhibition during
"NATIONAL TECHNOLOGY DAY CELEBRATION-2024"
held from May 09, 2024 to May 11, 2024 at
NAVAL SCIENCE AND TECHNOLOGY LABORATORY, DRDO, Min
Of Defence.

10 May 2024
DATE

NSL
DIRECTOR
NSTL



CERTIFICATE OF APPRECIATION



PROUDLY PRESENTED TO :

BURADA DINESH

For participating in Open House & Exhibition during
"NATIONAL TECHNOLOGY DAY CELEBRATION-2024"
held from May 09, 2024 to May 11, 2024 at
NAVAL SCIENCE AND TECHNOLOGY LABORATORY, DRDO, Ministry
Of Defence.

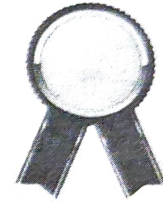
10.05.2024

DATE

H. Pan
DIRECTOR
NSTL



CERTIFICATE OF APPRECIATION



PROUDLY PRESENTED TO :

B. MOHAN KRISHNA SAHU

For participating in Open House & Exhibition during
"NATIONAL TECHNOLOGY DAY CELEBRATION-2024"
held from May 09, 2024 to May 11, 2024 at
NAVAL SCIENCE AND TECHNOLOGY LABORATORY, DRDO, Min
Of Defence.

10.05.2024

DATE

DIRECTOR
NSTL



CERTIFICATE OF APPRECIATION



PROUDLY PRESENTED TO :

RAMBA KIRAN KUNAR

For participating in Open House & Exhibition during
"NATIONAL TECHNOLOGY DAY CELEBRATION-2024"
held from May 09, 2024 to May 11, 2024 at
NAVAL SCIENCE AND TECHNOLOGY LABORATORY, DRDO, Min
Of Defence.

10.05.2024

DATE

100
DIRECTOR
NSTL



CERTIFICATE OF APPRECIATION



PROUDLY PRESENTED TO :

KONADA DUSHYANTH

For participating in Open House & Exhibition during
"NATIONAL TECHNOLOGY DAY CELEBRATION-2024"
held from May 09, 2024 to May 11, 2024 at
NAVAL SCIENCE AND TECHNOLOGY LABORATORY, DRDO, Min
Of Defence.

10.05.2024

DATE

DIRECTOR
NSTL



CERTIFICATE OF APPRECIATION



PROUDLY PRESENTED TO :

KALLA PRANAY KUMAR

For participating in Open House & Exhibition during
"NATIONAL TECHNOLOGY DAY CELEBRATION-2024"
held from May 09, 2024 to May 11, 2024 at
NAVAL SCIENCE AND TECHNOLOGY LABORATORY, DRDO, Min
Of Defence.

10.05.2024

DATE

DIRECTOR
NSTL



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

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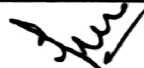
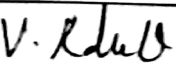




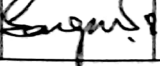


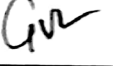
DATE: 03-05-2024.

It is hereby informed that an Industrial Visit to **Naval Science & Technological Laboratory (NSTL) | Defence Research and Development Organisation - DRDO, Ministry of Defence, Government of India(NSTL-DRDO)** is planned for II/IV B.Tech students of all Departments on 09-05-2024.

In this regard, all the II/IV B.Tech students Engineering students are informed to go for the visit.

Copy to
Hon'able Secretary and Correspondant
HOD's of All Departments,
IQAC
R&D Cell
ESIC Cell
SDC


PRINCIPAL
PRINCIPAL
Dr. Lankapalli Bullayya College of Engineering
Door No. 52-14-75, Resapuvani Palem,
Visakhapatnam-530013
Andhra Pradesh

HOD-CIVIL	HOD-CSE	HOD-ECE	HOD-EEE	HOD-BS&H	R&D Cell	IQAC
						
II-CIVIL	II-CSE	II-ECE	II-EEE	SDC	ESIC CELL	
						

GRAMS: 'FNESTIEL'

Fax: +91 0891 2559464

Phone: +91 0891 2586163

0891 2586290

Email: ntde.nstl.drdo@gmail.com



No. NSH/NTDC-2024 Open House-Competitions
Naval Science & Technological Laboratory
Govt. Of India, Ministry of Defence
Defence Research & Development Organisation,
Vigyan Nagar, Visakhapatnam- 530027
Date: 08 May 2024

To
Vice-Chancellor/Principal/HM

-----Visakhapatnam region
Visakhapatnam-AP

Sub: Invitation for National Technology Day Celebration (NTDC)-2024

(Refer to your Abstracts, submitted to participate in NTDC-2024)

- 1) It is informed to Vice-Chancellor/Principal/HM of all institutions whoever submitted abstracts to participate in NTDC-2024, that the following abstracts have been selected to participate in Open house (Exhibition)
- 2) National technology day is being celebrated at NSTL-DRDO on 10th may 2024. On this occasion, NSTL is organizing following events for students.
 - i) Open house (Exhibition/Display of NSTL's Products – 09th to 10th May 2024
 - ii) Multi-media presentation of NSTL-DRDO technologies - 09th to 10th May 2024
 - iii) Open house for all students on model /exhibits by various institute on theme
"From Schools to Startup: Igniting young Minds to Innovate"
- 3) All colleges and schools are requested to inform selected participants to report at below mentioned venue for registration
 - (i) Date: 09 May 2024
 - (ii) Venue: Ramnath Secondary School, NSTL DRDO Residential complex
 - (iii) Time: 0700 Hrs (Morning).
- 4) We are providing only stalls for selected institutions along with pedestal fan, extension board, table, chair, refreshment etc. Lunch has been also arranged only for participants (Exhibitors) on 09th & 10th afternoon.
- 5) You may please advise your students to carry their photo identity cards and escorted by a faculty member during the exhibition. Further please note that Smartphones/cameras are not permitted during the exhibitions as a security measure. Decorum and discipline are to be maintained during the visit. Visiting students and accompanying faculty may be briefed.
- 6) The list of selected abstracts along with title has been attached for your ready reference, kindly circulate it among all concerned.
- 7)

For full details, Please Contact

- Shri Sathiyakumar, Sc-E (0891-2586290)
- Shri R Trinadh, TO-B, (0891-2586415, 9032322136)
- Shri Gaurav K Prajapati, STA-B (0891-2586221, 8539088872)

K. Ch. P. V.
Organizing Committee
NTDC-2024
NSTL-DRDO
Ministry of Defence, Govt. of India



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

Sponsored by Society of Collegiate Education
Approved by AICTE, Affiliated to Andhra University

LIST OF STUDENTS

Industrial Visit

Name of Industry: Naval Science & Technological Laboratory (NSTL) | Defence Research and Development Organisation - DRDO, Ministry of Defence, Government of India, Visakhapatnam.

Department: ELECTRONICS AND COMMUNICATION ENGINEERING

Duration: 09-05-2024

S.NO	Registration Number	Name of the Student	Signature
1.	322136412001	ABOTULA CHANAKYA	A. Chanakya
2.	322136412002	AKULA GEETHA MADHURI	Akula Geetha Madhuri
3.	322136412003	A B RAMA BHARADWAJ	A. Bhargava Rama
4.	322136412004	ALLAM BHASKAR	A. Bhaskar
5.	322136412005	ALLU PUSHAPANJALI	A. Pushapanjali
6.	322136412006	ALLU ROHITH KUMAR	Allu Rohith Kumar
7.	322136412007	ANDLURI SESI KUMAR	A. Sesi Kumar
8.	322136412008	BAIRI MALATHI	B. Malathi
9.	322136412009	BALLA SRINANDINI	B. Srinandini
10.	322136412010	BERI BHAVYA	B. Bhavya
11.	322136412011	BEVARA SAGAR	B. Sagar
12.	322136412013	BODUPU JAYANTH	B. Jayanth
13.	322136412014	BONGU SAI SWAROOPA	B. Sai Swaroopa
14.	322136412015	BORA NITHISH REDDY	B. Nithish
15.	322136412016	BUGATA SWATHI	B. Swathi
16.	322136412017	CALEB JOSEPH FERNANDEZ	Caleb
17.	322136412018	CHEBOLU SAI JYOTHI	Ch. Sai Jyothi
18.	322136412019	CHINTHAPALLI AKHIL	Ch. Akhil
19.	322136412020	CHOUDARI HARISH	Choudari Harish
20.	322136412021	DARAPU GANESH	D. Ganesh
21.	322136412022	DARAPUREDDI ANUSHA	D. Anusha
22.	322136412023	DASARI BHASKAR	D. Bhaskar
23.	322136412024	DASARI RAM CHARAN SAI	D. Ram Charan
24.	322136412025	DEREDDI SAGAR	D. Sagar
25.	322136412026	DESETTY BABY LAXMI SRAVYA	D. Sravya

26.	322136412027	DOKULA MOHIT KUMAR	Mohit D
27.	322136412028	DUMPA MOUNIKA PRIYA REDDY	Mounika
28.	322136412030	GADE SURYADEEP	Surya
29.	322136412031	GANTYADA GANESH	Ganesh
30.	322136412032	GOMPA DIVYA BHAVANI YADAV	Divya
31.	322136412033	HARSHITA BODDEPALLI	Harshita
32.	322136412034	IJJU SAI MADHURI	Madhuri
33.	322136412035	INDURI BHUVANESWARA REDDY	I. Bhuvanesh Reddy
34.	322136412036	J NAGA DURGA SAHITHI	J. Sahithi
35.	322136412037	K UDAY NIRMAL	K. Uday
36.	322136412038	KADAGALA SUJATHA	K. Sujatha
37.	322136412039	KAKARA LKHA SRI CHANDANA	K. L. S. Chandana
38.	322136412040	K BHAVYOSHITHA SAI VARSHINI	K. B. Sai Varshini
39.	322136412041	K GIREESHA PRIYADARSHINI	K. Gireesha
40.	322136412042	KARRI CHANDRASEKHAR	K. Chandra Sekhar
41.	322136412043	KARRI PRIYA ABHINAYA	K. Priya
42.	322136412044	KINTHADA PRASANNA LAXMI	K. Prasanna
43.	322136412045	KOLIPAKA PARIMALA KRUPA	K. Parimala Krupa
44.	322136412046	KONA YASWANTH	K. Yaswanth
45.	322136412047	KORUKONDA GIRISH KUMAR	K. Girish Kumar
46.	322136412048	KOTYADA SAI PRASAD	K. Sai Prasad
47.	322136412049	KOYI ANIL CHOWDARY	K. Anil chowdary
48.	322136412050	KUSETTI TARUN	K. Tarun
49.	322136412051	K LAKSHMI SAMYUKTHA PEESA	P. Samyuktha
50.	322136412052	LANKA SAI KUMAR	L. Sai Kumar
51.	322136412053	LEKKALA GANESH KUMAR	L. Ganesh Kumar
52.	322136412054	LENKA ANUSHA	L. Anusha
53.	322136412055	MADDILA BHAVANI	M. Bhavani
54.	322136412056	MADDILA DEEPIKA	M. Deepika
55.	322136412057	MADENA SOWJANYA	M. Sowjanya
56.	322136412058	MAJJI AKHILA	M. Akhila
57.	322136412059	MANGIPUDI AKHILESWARI	M. Akhila
58.	322136412060	MARLA SAI SHIVANI	M. Sai Shivan
59.	322136412061	MATAM DIVYA	M. Divya
60.	322136412062	MOHAMMAD AMINA BIBE	Md. Amina Bibi
61.	322136412063	MOHAMMED AMIN	M. Amin
62.	322136412064	MOHAMMED NISARU ZAMA	Md. Nizar
63.	322136412065	MUGADA JANAKI APARNA	M. Aparna
64.	322136412066	MUKKU RAKADA PALLAVI	M. Rakadapalli
65.	322136412067	NADUPURU AVINASH	N. Avinash

66.	322136412068	NAGAVARAPU SAI KEERTHANA	K. Keerthana
67.	322136412069	NITU JHA	N. Titu Jha
68.	322136412070	OGIRALA VINAY	O. Girala Vinay
69.	322136412071	ORUGANTI YASHWANT KUMAR	O. Yashwant Kumar
70.	322136412072	PANDURU SOMARAJU	P. Somaraju
71.	322136412073	PAPPU GIRISH	P. Girish
72.	322136412074	PATNALA YASASRI	P. Yasasri
73.	322136412075	PEDIREDLA SAI SUSHMA	P. Sai Sushma
74.	322136412076	PEDIREDLA SHARANYA	P. Sharanya
75.	322136412077	PINAGADI CHANDINI	P. Chandini
76.	322136412078	POKALA RAKESH	P. Rakesh
77.	322136412079	P SATYA SAI GANESH	P. Satya Sai Ganesh
78.	322136412080	POLIPARTHI RITESH KUMAR	P. Ritesh Kumar
79.	322136412081	PUTTA VYSHNAVI	P. Vyshnavi
80.	322136412082	REDDI DEVA VISHNU VARDHAN	R. Deva Vishnu Vardhan
81.	322136412083	RONGALI PAVAN KUMAR	R. Pavan Kumar
82.	322136412084	SAMBANA YASWITHA	S. Yaswitha
83.	322136412085	SAPPA SAI GANESH	S. Sai Ganesh
84.	322136412086	SATRABOINA PARIMALA ROJA	S. Parimala Roja
85.	322136412087	SEERAPU AKHIL	S. Akhil
86.	322136412088	SESETTI KALYANI	S. Kalyani
87.	322136412089	SIYYADRI GIREESH KUMAR	S. Gireesh Kumar
88.	322136412090	SRI DHANUSH SINGH	S. Dhanush Singh
89.	322136412091	SUNKARA HARI GANESH	S. Hari Ganesh
90.	322136412092	TEDDU POOJITHA	T. Poojitha
91.	322136412093	TEKKALI MURALI	T. Murali
92.	322136412094	TERLI HIMA BINDU	T. Hima Bindu
93.	322136412095	UNGARADA BHAVANI PRASAD	U. Bhavani Prasad
94.	322136412096	VARANASI SIVA SAI	V. Siva Sai
95.	322136412097	VASUPALLI RAJU	V. Raju
96.	322136412098	VOMMI SAI VIGNESH	V. Sai Vignesh
97.	322136412099	YERNENI MADHU MATHI	Y. Madhu Mathi
98.	322136412100	BOLEM PAVANI	B. Pavani
99.	322136412101	DODDI PAVAN UDAY SHANKAR	D. Pavan Uday Shankar
100.	322136412102	DURI ANVITHA	D. Anvitha
101.	322136412103	GANDEPALLI SUPRIYA	G. Supriya
102.	322136412104	GUMMADI KEZIA POORNIMA	G. Kezia Poornima
103.	322136412105	KORIKANA MURALI KRISHNA	K. Murali Krishna
104.	322136412106	KORRA AVILA	K. Avila
105.	322136412107	MOHAMMED KHIZAR SAMDHANI	M. Khizar Samdhani
106.	322136412108	OMMI SAI DIVYA	O. Sai Divya
107.	322136412109	PONNADA BHAVANI	P. Bhavani

108.	322136412110	TALE PRAISY SUPRIYA	T. Praisysupriya.
109.	322136412111	VASUPALLI PRABHAS	V. Prabhas
110.	322136412112	DENDETI HEMANTH KUMAR	D. Hemanth
111.	322136412113	GADAPU DEEPIKA	G. Deepika
112.	322136412114	KALA SNEHARIKA	K. Sneharika
113.	322136412115	KALAHASTI ROHITH	K. Rohith
114.	322136412116	KONDAPALLI VASAVI HARIKA	K. Vasavi Viharika
115.	322136412117	MAILAVARAPU KARTHIK	Karthik
116.	322136412118	NADIMINTI PHANEEDRA	N. Phaneendra
117.	322136412119	NAGUMANTRI BHANU REKHA	N. Bhanu Rekha
118.	322136412120	NALLA SHARMILA	N. Sharmila
119.	322136412121	PALAKOLLU GOURI SHANKAR	P. Gouri Shankar
120.	322136412122	PINNINTI PAVANI	P. Pavani
121.	322136412123	POLISSETTY ALEKHYA	P. Alekhya
122.	322136412124	SAR THOUSHIF RAZA	S. Thooshif Raza
123.	322136412125	SARAGADAM DEEPA SAHASRA	S. Deepa
124.	322136412126	TAMADA DEVI SRI CHANDRIKA	T. Chandrika
125.	322136412127	TANDLAY BHUVANA SRI	T. Bhuvana Sri
126.	322136412128	TENTU SAI GANESH	T. Saiganesh
127.	322136412130	YEDURU LIKITHA SAI LASYA	Y. Likitha
128.	322136412131	ANGATI TULASI	A. Tulasi
129.	322136412132	NARAPINNI RAMA LAXMI	N. Rama Laxmi
130.	322136412133	BODDETI MAHITA	B. Mahita

Kiran
Coordinator

[Signature]
HOD
Head of the Department
Electronics & Communication Engineering
Dr. Lankapalli Bulayya College of Engineering
Rangayyapalem, Visakhapatnam-530013



Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

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Approved by AICTE, Affiliated to Andhra University

**Report on
Industrial/Field Visit
to
Naval Science & Technological Laboratory,
Defence Research and Development Organization,
Ministry of Defence, Government of India.**

Date: 09-05-2024

Name of the Faculty Coordinators:

S.No	Name of the Faculty	Branch
1	P.SAHITYA KIRAN	ECE
2	B.SANGEETH KUMAR	ECE
3	K.LALITHA	ECE

Total Numbers of Students Attended

S.No	Branch	Number of Students attended
1	ECE	103

The Department of Electronics and Communication Engineering of Dr. Lankapalli Bullayya College of Engineering has successfully organized a field visit to "NSTL-DRDO Visakhapatnam" for II B.Tech students. This was conducted to know the latest technologies used by the Defence forces. NSTL-DRDO VIZAG the Naval Science and Technological Laboratory is an Indian defence laboratory of the Defence Research and Development Organization, located in Visakhapatnam. Its main function is the research and development of underwater weapons and associated systems. NSTL is organized under DRDO's Directorate of Naval R&D. This has motivated all enthusiastic students to utilize this opportunity and know about the technologies used in the Defence forces.

Objectives:

- Field visits are the way of enhancing classroom learning by making real world connections.
- It creates awareness to students about the different innovative technologies.

Outcomes:

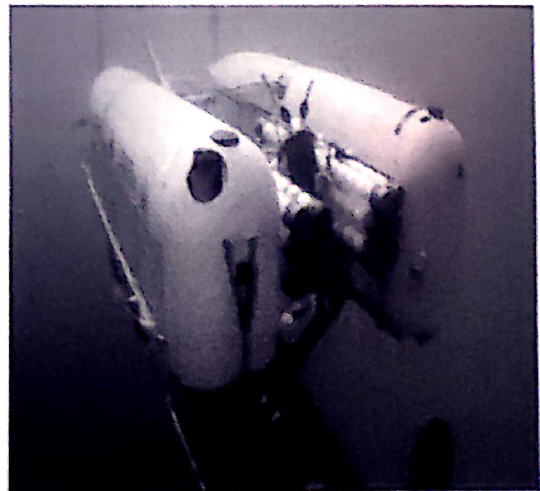
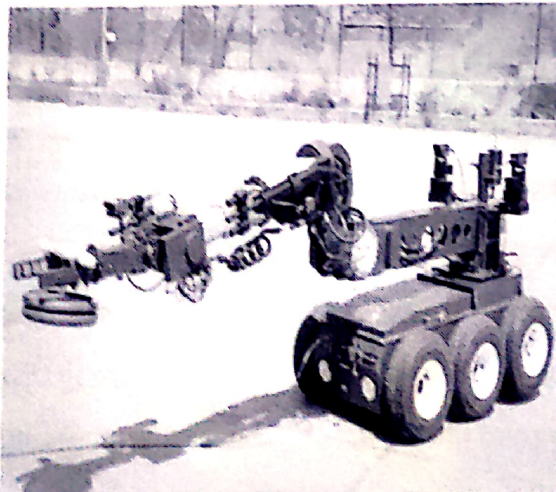
- Very good opportunity for students to interact with Experts.
- Develops confidence and helps to enhance their interpersonal skills.

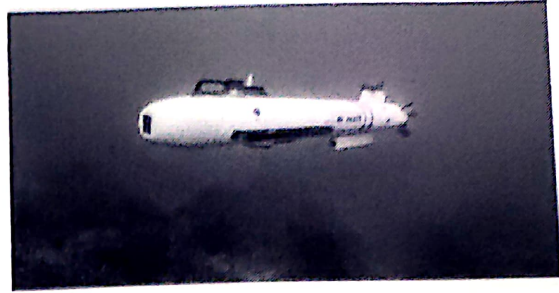
1. Underwater Vehicles:

Underwater vehicles are indispensable tools in the Naval Science and Technology Laboratory (NSTL), facilitating a wide range of underwater missions and research endeavors. NSTL employs various types of underwater vehicles to meet the diverse needs of naval operations. These vehicles include:

Functions:

- **Autonomous Underwater Vehicles (AUVs):** AUVs are unmanned, self-propelled submersibles designed for autonomous operation. They are used for tasks such as underwater mapping, data collection, and environmental monitoring. AUVs navigate through water with precision and can be equipped with sensors and cameras for data acquisition.
- **Remotely Operated Vehicles (ROVs):** ROVs are remotely controlled submersibles connected to the surface by cables. They are highly maneuverable and equipped with advanced cameras, robotic arms, and instruments. ROVs are used for tasks like underwater inspections, salvage operations, and scientific research.
- **Manned Submersibles:** NSTL may also use manned submersibles for deep-sea exploration and research missions. These submersibles can carry human occupants to extreme depths, allowing for direct observation and data collection in challenging environments.
- **Hybrid Underwater Vehicles:** Some underwater vehicles in NSTL's arsenal combine elements of AUVs and ROVs, offering versatility in underwater operations. These hybrids can operate autonomously or be remotely controlled as needed.



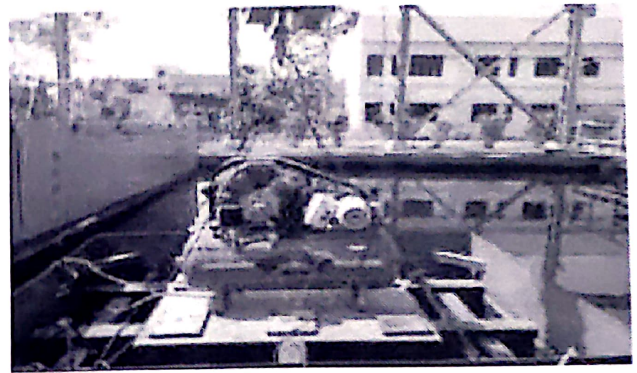


2. Hydrodynamic Testing Facilities:

Hydrodynamic testing facilities at the Naval Science and Technology Laboratory (NSTL) play a pivotal role in advancing naval engineering and ensuring the optimal performance of naval vessels and underwater systems. These facilities encompass a range of cutting-edge equipment and resources, including:

Functions:

- **Towing Tanks:** NSTL's towing tanks are large, water-filled basins equipped with towing carriages. They are used to test scale models of ships and submarines under controlled conditions. Researchers can study the hydrodynamic behavior of vessels, assess their resistance and propulsion, and optimize their design for fuel efficiency and maneuverability.
- **Wave Tanks:** Wave tanks simulate different sea conditions, enabling researchers to evaluate how ships and underwater systems respond to waves, turbulence, and adverse weather. This testing is essential for designing vessels that can safely navigate challenging seas.
- **Model Basins:** Model basins provide controlled environments for studying the stability and seakeeping characteristics of ships. Researchers use scale models to analyze how vessels handle different sea states and wave patterns, contributing to safer and more effective naval operations.
- **Cavitation Tunnels:** Cavitation tunnels are specialized facilities that investigate the phenomenon of cavitation, which occurs when water pressure drops to the point where bubbles form around a moving object. These tunnels help researchers understand and mitigate cavitation damage to propellers and hulls.



3. Material Testing Labs:

Material testing labs within the Naval Science and Technology Laboratory (NSTL) are dedicated to evaluating the durability, strength, and performance of materials used in naval construction. These labs are equipped with advanced equipment and expertise to ensure the reliability of naval assets. Here are 10 lines of content detailing the significance and components of these labs:

Functions:

- **Metallurgical Analysis:** NSTL's material testing labs specialize in metallurgical analysis, examining the chemical composition and microstructure of metals used in shipbuilding and equipment construction.
- **Materials Characterization:** Researchers employ a range of techniques such as spectroscopy, microscopy, and mechanical testing to characterize materials and assess their suitability for naval applications.
- **Corrosion Resistance Testing:** Evaluating materials for their resistance to corrosion is crucial in the marine environment. NSTL conducts accelerated corrosion tests to determine the lifespan of materials in corrosive conditions.
- **Tensile Strength Testing:** Testing materials for tensile strength helps determine their ability to withstand forces and loads, critical for assessing the structural integrity of naval components.

5. Navigation Systems:

Navigation systems at the Naval Science and Technology Laboratory (NSTL) are critical for ensuring the precise and safe movement of naval vessels in various maritime environments. Here are 10 lines outlining the significance and functionality of navigation systems at NSTL:

Functions:

- **GPS (Global Positioning System):** GPS technology is a cornerstone of NSTL's navigation systems, providing accurate positioning data to determine a vessel's location anywhere on the Earth's surface.
- **Gyrocompasses:** Gyrocompasses are employed to maintain reliable and stable heading information, aiding in accurate navigation even when GPS signals are unavailable.
- **Inertial Navigation Systems (INS):** INS systems use accelerometers and gyroscopes to calculate a vessel's position, velocity, and orientation, making them vital for precise navigation, especially during high-speed maneuvers.
- **Chart Plotters:** Chart plotters and electronic chart systems help visualize navigational charts and real-time vessel positioning, simplifying route planning and course monitoring.

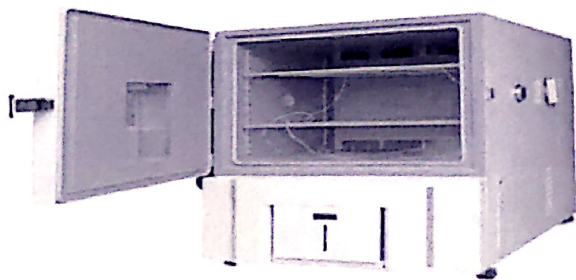


6. Environmental Test Chambers:

Environmental test chambers are essential components of the Naval Science and Technology Laboratory (NSTL) that play a crucial role in evaluating the performance and durability of naval equipment and systems under extreme conditions. Here are 10 lines summarizing the importance and functionality of environmental test chambers in NSTL:

Functions:

- **Diverse Testing Environments:** NSTL's environmental test chambers simulate a wide range of environmental conditions, including extreme temperatures, humidity levels, and corrosive atmospheres, allowing comprehensive testing of naval equipment.
- **Performance Assessment:** These chambers are used to assess how naval systems and materials perform in harsh environments, ensuring their reliability and effectiveness in real-world scenarios.
- **Temperature Testing:** Environmental chambers can subject equipment to extreme cold and heat, helping researchers understand how they perform in Arctic and tropical conditions, for example.
- **Humidity and Moisture Testing:** High humidity and moisture levels can accelerate corrosion and degradation. Chambers recreate these conditions to test materials' resistance and durability.



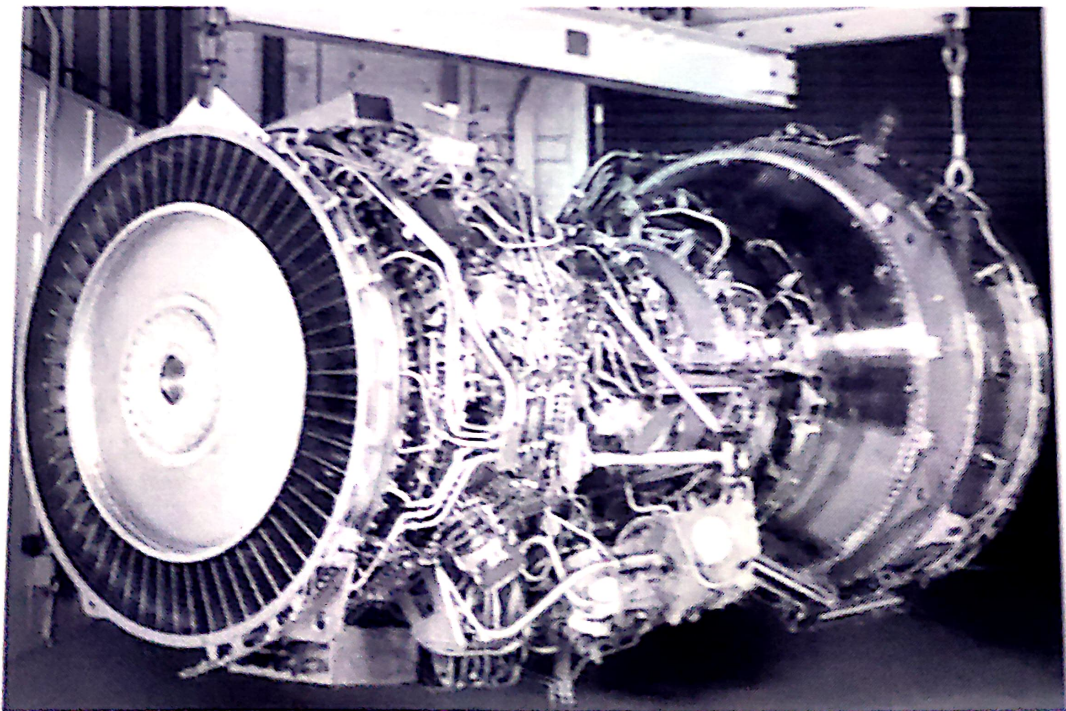
7. Marine Propulsion Labs:

Marine Propulsion Labs at the Naval Science and Technology Laboratory (NSTL) are specialized facilities focused on the research and development of propulsion systems used in naval vessels. These labs are pivotal in advancing the efficiency, performance, and reliability of propulsion technologies critical for naval operations.

Here's an overview of the Marine Propulsion Labs at NSTL:

Functions:

- **Engine Testing Facilities:** NSTL's propulsion labs are equipped with state-of-the-art engine testing facilities where various types of marine engines, including diesel engines and gas turbines, are rigorously tested. These tests assess engine efficiency, emissions, and overall performance.
- **Performance Optimization:** Researchers in these labs work on optimizing the performance of marine propulsion systems to ensure they meet the stringent requirements of naval vessels, including submarines, surface ships, and aircraft carriers.
- **Fuel Efficiency:** NSTL places a significant emphasis on improving the fuel efficiency of marine engines. Propulsion labs conduct studies and experiments to develop technologies that reduce fuel consumption and environmental impact.
- **Emissions Reduction:** These labs also focus on reducing emissions from marine engines, contributing to cleaner and more environmentally friendly naval operations. This involves developing and testing emission control systems.



Marine propulsion

B.Tech ECE Engineering Students at NSTL, Visakhapatnam





GPS Map Camera



Visakhapatnam, Andhra Pradesh, India
NSTL, Nad Junction, NSTL, Visakhapatnam, Andhra Pradesh 530009, India
Lat 17.74596°
Long 83.236462°
09/05/24 04:27 PM GMT +05:30



GPS Map Camera



Visakhapatnam, Andhra Pradesh, India
P6WP+3FV, Nad Junction, NSTL, Visakhapatnam, Andhra Pradesh 530009, India
Lat 17.745502°
Long 83.236093°
09/05/24 02:29 PM GMT +05:30

Report on
NSTL-INDUSTRIAL VISIT BY I/1V B.E/B.TECH STUDENTS.
(09-05-2024)



Organized by



Dr.LankapalliBullayya College of Engineering

Sponsored by the Society for Collegiate Education

Approved by AICTE, Affiliated to Andhra University

*52-14-75 Survey No:44, National Highway 16, Near, Rama Talkies Rd, Old TB Hospital Area,
Resapuvaniapalem, Dwaraka Nagar, Visakhapatnam, Andhra Pradesh 530013.*

Website: www.lbce.edu.in

Visakhapatnam,
08-05-2024.

From

S.Sivajyothi
Assistant Professor in Engineering Physics,
Department of B.S&H,
Dr.LankapalliBullayya College of Engineering,
Visakhapatnam.

To

The Principal,
Dr.LankapalliBullayya College of Engineering,
Visakhapatnam.

Sir,

Subject: Requisition for Permission to I/IV B.E/B.Tech students to take part in **"NSTL-Industrial visit "-Reg**

This is to inform you that Naval Science and Technological Laboratory is organising an exhibition for B.Tech students on 10-05-2024 on the occasion of National Technology Day Celebrations 2024 (NTDC-2024).

We are planning to take our I/IV B.E/B.Tech students to the "Naval Science and Technological Laboratory " visit from 2:00 P.M to 5.00 PM on 10-05-2024. In this regard, we request you to grant permission to take the first year students to the NSTL-Industrial Visit.

Thanking you Sir,

Yours Sincerely,

S. Sivajyothi
S.Sivajyothi



Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education

Affiliated to Andhra University, Approved by AICTE

52-14-75, Resapurvanipalem, Visakhapatnam - 530 013.

Ph : Off : 0891-2703293, 2703296

Email : principal@lbce.edu.in Website : www.lbce.edu.in

DATE: 08-05-2024.

CIRCULAR

This is hereby informed that "NSTL-Industrial visit by I/IV B.E/B.Tech students" is going to be organised by the Department of B.S &H from 2.00 P.M to 5 PM on 09-05-2024.

In this regard, all the I/IV B.E/B.Tech students are hereby informed to participate in the programme without fail.

The Class Coordinators shall conduct the program and they will accompany the students.

PRINCIPAL

PRINCIPAL

Dr. Lankapalli Bullayya College of Engineering
Door No. 52-14-75, Resapurvanipalem
Visakhapatnam-530013
Andhra Pradesh

Copy to

Class Co Ordinators,
HOD - B&H,
IQAC Co Ordinator.

I B.Tech CSE-A	I B.Tech CSE-B	I B.Tech ECE-A	I B.Tech ECE-B
I B.Tech CIVIL	I B.Tech EEE	HOD - B&H	IQAC Co Ordinator

GRAMS: 'FNESTIEL'

Fax: +91 0891 2559464

Phone: +91 0891 2586163

0891 2586290

Email: ntde.nstl.drdo@gmail.com



No. NSTL/NTDC-2024 Open House-Competitions
Naval Science & Technological Laboratory
Govt. Of India, Ministry of Defence
Defence Research & Development Organisation,
Vigyan Nagar, Visakhapatnam- 530027
Date: 08 May 2024

To
Vice-Chancellor/Principal/HM

-----Visakhapatnam region

Visakhapatnam-AP

Sub: Invitation for National Technology Day Celebration (NTDC)-2024

(Refer to your Abstracts, submitted to participate in NTDC-2024)

- 1) It is informed to Vice-Chancellor/Principal/HM of all institutions whoever submitted abstracts to participate in NTDC-2024, that the following abstracts have been selected to participate in Open house (Exhibition)
- 2) National technology day is being celebrated at NSTL-DRDO on 10th may 2024. On this occasion, NSTL is organizing following events for students.
 - i) Open house (Exhibition/Display of NSTL's Products – 09th to 10th May 2024
 - ii) Multi-media presentation of NSTL-DRDO technologies - 09th to 10th May 2024
 - iii) Open house for all students on model /exhibits by various institute on theme
"From Schools to Startup: Igniting young Minds to Innovate"
- 3) All colleges and schools are requested to inform selected participants to report at below mentioned venue for registration
 - (i) Date: 09 May 2024
 - (ii) Venue: Ramnath Secondary School, NSTL DRDO Residential complex
 - (iii) Time: 0700 Hrs (Morning).
- 4) We are providing only stalls for selected institutions along with pedestal fan, extension board, table, chair, refreshment etc. Lunch has been also arranged only for participants (Exhibitors) on 09th & 10th afternoon.
- 5) You may please advise your students to carry their photo identity cards and escorted by a faculty member during the exhibition. Further please note that Smartphones/cameras are not permitted during the exhibitions as a security measure. Decorum and discipline are to be maintained during the visit. Visiting students and accompanying faculty may be briefed.
- 6) The list of selected abstracts along with title has been attached for your ready reference, kindly circulate it among all concerned.
- 7)

For full details, Please Contact

- Shri Sathiyakumar, Sc-E (0891-2586290)
- Shri R Trinadh, TO-B, (0891-2586415, 9032322136)
- Shri Gaurav K Prajapati, STA-B (0891-2586221, 8539088872)

K. Ch. P. V.
Organizing Committee
NTDC-2024
NSTL-DRDO
Ministry of Defence, Govt. of India

Dr.Lankapalli Bullayya College of Engineering
(Affiliated to Andhra University, Visakhapatnam)
Department of Basic Sciences and Humanities

NSTL VISIT-2024

Class:1/IV B.Tech SEM-II, CSE-A

Date :09-05-2024

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Dr.Lankapalli Bullayya College of Engineering
(Affiliated to Andhra University, Visakhapatnam)
Department of Basic Sciences and Humanities

NSTL VISIT-2024

Class:1/IV B.Tech SEM-II, CSE-B

Date :09-05-2024

S.No	Roll No	Name of the Student	Signature
1	323136410098	P.Akhila	P.Akhila
2	323136410099	R. Divya	R. Divya
3	323136410087	P. Sri Jani	P. Sri Jani
4	323136410129	Vikash Kumar	Vikash
5	323136410103	P. Damodar Kumar	P. Damodar
6	323136410105	S. Vignya	Vignya
7	323136410127	V. Yashwanth	Yash
8	323136410069	N. Lakshman	N. Lakshman
9	323136410084	P. Shweta Venkat	Shweta
10	323136410081	N. Ratna Lakshmi	Ratna
11	323136410085	P. Tanishq	Tanishq
12	323136410080	N. Narsimha	N. Narsimha
13	323136410047	B. Dharmarajan Kalyan	B. Dharmarajan
14	323136410071	P. Lalana	P. Lalana
15	323136410073	P. Yashwanth	P. Yashwanth
16	323136410124	V. Lema T. Raja	V. Lema T. Raja
17	323136410078	V. S. Enosh	V. S. Enosh
18	323136410076	V. Suraya	V. Suraya
19	323136410077	P. Sree Hanitha	P. Sree Hanitha
20	323136410125	P. Harini	Harini
21	323136410121	T. Hepheli	T. Hepheli
22	323136410086	Sreedhya	Sreedhya
23	323136410116	M.S.G. J.S. Mallika	Mallika
24	323136410074	P. Venkata	Venkata
25	323136410082	N. Dhana Lakshmi	Dhana
26	323136410083	P. Rama Sudha	Sudha

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Department of Basic Sciences and Humanities

NSTL VISIT-2024

Class:1/IV B.Tech SEM-II, CSE-8

Date :09-05-2024

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Dr.Lankapalli Bullayya College of Engineering
(Affiliated to Andhra University, Visakhapatnam)
Department of Basic Sciences and Humanities

NSTL VISIT-2024

Class:1/IV B.Tech SEM-II, ECE-A

Date :09-05-2024

S.No	Roll No	Name of the Student	Signature
1	A. Bhavana		
2	323136412010	A. Bhavani	Bhavi
3	323136412015	B. Anusha	Anu
4	323136412013	B. chinnu	Chinnu
5	323136412038	K. Harshitha	Harsh
6	323136412052	M. lathika	Lathika
7	323136412009	A. Geetha Kousthubha	Geetha
8	323136412017	B. Bindu Madhavi	Bindu
9	323136412035	J. Venkata lakshmi	Lakshmi
10	323136412047	M. Ragini	Ragini
11	323136412021	ch. raviya	Raviya
12	323136412003	A. Indu	Indu
13	323136412002	G. rowdi	Rowdi
14	323136412006	A. Rajitha	Rajitha
15	323136412016	B. Tyostna Reddy	Tyostna
16	323136412084	J. Harsha	Harsha
17	323136412032	G. Teja Sri	Teja
18	323136412033	A. Haritha	Haritha
19	323136412055	N. Jayasree	Jayasree
20	323136412026	D. Neeraja	Neeraja
21	323136412023	D. Sravani	Sravani
22	323136412004	A. Vanitha	Vanitha
23	323136412005	A. Sravani	Sravani
24	323136412049	M. Sowmya	Sowmya
25	323136412043	K. Deepthi	Deepthi
26	323136412044	K. Manoj Kumar	K. Manoj

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Department of Basic Sciences and Humanities

NSTL VISIT-2024

Class: I/IV B.Tech SEM-II, ECE-A

Date :09-05-2024

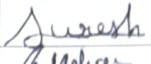
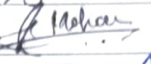
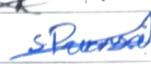

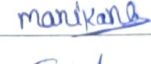
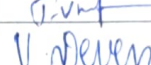
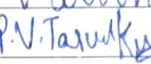

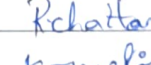

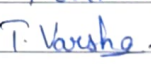
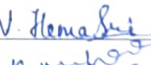
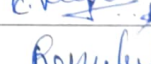
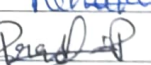
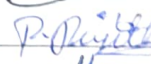
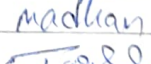

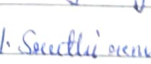
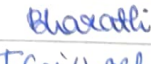
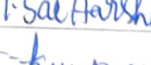
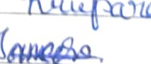





S.No	Roll No	Name of the Student	Signature
27	323136412048	M. Rakesh	M. Rakesh
28	323136412030	G. R. M. Yegesh	G. R. M. Yegesh
29	323136412041	K. Nithin	K. Nithin
20	323136412001	Abdul Abdul Hameed	Abdul
31	323136412008	A.D. VENKATESH	A.D. Venkatesh
32	323136412040	K. Guna Manjusha	K. Manjusha
33	323136412035	J. Venkata Lakshmi	J. Venkata Lakshmi
34	323136412046	L. Sujana Nageswari	L. Sujana
35	323136412025	P. Ramya	P. Ramya
36	323136412045	K. Pavithra	Pavithra
37	323136412036	K. Tyoshnee	K. Tyoshnee
38	323136412039	K. Sravani	K. Sravani
39	323136412053	M. Abhivandana	M. Abhi
40	323136412019	B. Haritha	B. Haritha
41	323136412007	V. Amulya	V. Amulya
42	323136412054	N. Divya	N. Divya
43	323136412028	G. Anil Kumar	G. Anil Kumar
44	323136412027	G. Upendra	G. Upendra
45	323136412020	Ch. K. Jaya Raj	Ch. K. Jaya Raj
46	323136412031	K. Jeevan	K. Jeevan
47	323136412012	B. Chaitanya	B. Chaitanya
48	323136412018	B. Srinivas Rao	B. Srinivas Rao
49	323136412044	B. Mahesh	B. Mahesh
50	323136412024	D. Nani Babu	D. Nani Babu
51	323136412042	K. Ramoji	K. Ramoji

Dr.Lankapalli Bullayya College of Engineering
(Affiliated to Andhra University, Visakhapatnam)
Department of Basic Sciences and Humanities

NSTL VISIT-2024

Class:1/IV B.Tech SEM-II, ECE-B

Date :09-05-2024

S.No	Roll No	Name of the Student	Signature
1	323136412058	N. Suresh Kumar	
2	323136412078	S. Mohan Kumar	
3	323136412077	S. Pavan Sai	
4	323136412098	G. K. Sumanth	
5	323136412066	P. Manikanta	
6	323136412082	T. Vinay	
7	323136412086	V. Devendra Prasad	
8	323136412097	P. V. Tarun Kumar	
9	323136412067	P. Shankar Rao	
10	323136412100	R. Chaitanya	
11	323136412060	P. Komathi	
12	323136412089	Y. Ormila	
13	323136412080	T. Varsha	
14	323136412088	V. Hema Sri	
15	323136412099	R. Meghana	
16	323136412070	R. Renuka	
17	323136412063	P. Prasanna Lakshmi	
18	323136412068	P. Pujitha	
19	323136412069	P. Madhan	
20	323136412071	S. Egoze chowdary	
21	323136412062	P. Baby Priyanka	
22	323136412087	V. Sreethi sreenika	
23	323136412085	V. Bhavathi	
24	323136412081	T. Sai Harshini	
25	323136412079	T. Kumparani	
26	323136412072	Sameera	

S.No	Roll No	Name of the Student	Signature
27	323136412061	P. Harika	Harika
28	323136412074	S. Hema	S. Hema
29	323136412093	M. Harini	M. Harini
30	323136412075	S. Ramya Lahari	S. Ramya Lahari
31	323136412076	S. Vaishnavi	S. Vaishnavi
32	323136412083	T. Madhuri	T. Madhuri
33	323136412090	Y. Parvathi Jyothi janne	Y. Parvathi Jyothi janne
34	323136412084	D. Jaswanth	D. Jaswanth
35	323136412096	M.D. MD. Sheikh Ali	MD. Sheikh Ali
36	323136412056	N. Ruzhu	N. Ruzhu
37	323136412092	M. Rakesh	M. Rakesh
38	323136412094	N. Bhavya Harini	N. Bhavya Harini
39	323136412095	R. Ramesh	R. Ramesh
40	323136412073		
41	323136412064	P. Ruzuma	P. Ruzuma
42	323136412059		
43	323136412065	P. Geetham	P. Geetham
44	323136412091	K. Swarup	K. Swarup
45	3		

Dr.Lankapalli Bullayya College of Engineering
(Affiliated to Andhra University, Visakhapatnam)
Department of Basic Sciences and Humanities

NSTL VISIT-2024

Class: 1/IV B. Tech. EEE

Date: 09-05-2024

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Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education
Affiliated to Andhra University, Approved by AICTE
52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.
Ph : Off : 0891-2703293, 2703296
Email : principal@lbce.edu.in Website : www.lbce.edu.in

Report on NSTL VISIT BY I/1V B.E/B.TECH STUDENTS. (09-05-2024)

Theme of the Event:

National Technology Day 2024: Theme

The theme for National Technology Day 2024 is 'From Schools to Startups: Igniting Young Minds to Innovate.' It emphasizes nurturing schoolchildren to start their own start-ups and contribute to making India the hub of startups in the world.

Report:

Naval Science and Technological Laboratory has organised an exhibition for B.Tech students on 10-05-2024 on the occasion of National Technology Day Celebrations 2024 (NTDC-2024). In an Open House Exhibition the NSTL Products were displayed by the Naval Personnel.

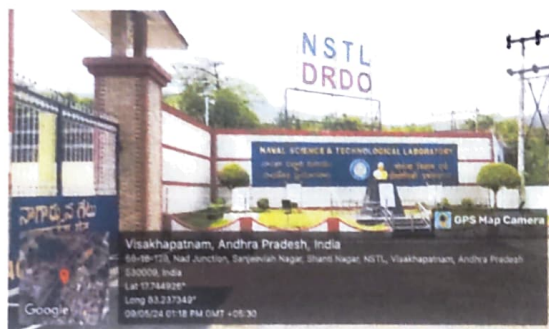
The I/IV B.E/B.Tech students have participated in the program with great enthusiasm. 3rd year Civil Engineering Students have displayed some Civil Engineering Exhibits in the open house exhibition. All the first year B. Tech class coordinators have accompanied the students.

The staff of NSTL have taken the students to an auditorium and screened a comprehensive documentary in which the torpedoes manufactured by NSTL were shown. Students have seen the models of NSTL products viz., anti-submarine heavy weight torpedo Varunastra, light weight torpedoes, underwater mines, decoys (Anti-Torpedo Decoy Systems), etc.

Photo Pics of NSTL Visit



A Group pic with students of first year I/IV B.E/B.Tech-CSE A at the entrance of NSTL.



The Main Entrance of NSTL



students of I/IV B.E/B.Tech CIVIL displaying their scientific models and exhibits



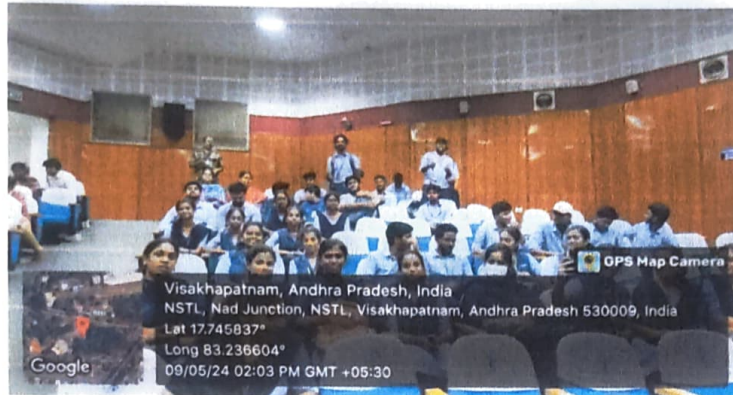
students of I/IV B.E/B.Tech CIVIL displaying their scientific models and exhibits



students of I/IV B.E/B.Tech demonstrating their scientific models and exhibits



students of I/IV B.E/B.Tech explaining their scientific models and exhibits



Students watching the NSTL documentary in the theatre

GRAMS: 'FNESTIEL'

Fax: +91 0891 2559464

Phone: +91 0891 2586163

0891 2586290

Email: ntde.nstl.drdo@gmail.com



No. NSTL/NTDC-2024 Open House-Competitions
Naval Science & Technological Laboratory
Govt. Of India, Ministry of Defence
Defence Research & Development Organisation,
Vigyan Nagar, Visakhapatnam- 530027
Date: 08 May 2024

To
Vice-Chancellor/Principal/HM

-----Visakhapatnam region
Visakhapatnam-AP

Sub: Invitation for National Technology Day Celebration (NTDC)-2024

(Refer to your Abstracts, submitted to participate in NTDC-2024)

- 1) It is informed to Vice-Chancellor/Principal/HM of all institutions whoever submitted abstracts to participate in NTDC-2024, that the following abstracts have been selected to participate in Open house (Exhibition)
- 2) National technology day is being celebrated at NSTL-DRDO on 10th may 2024. On this occasion, NSTL is organizing following events for students.
 - i) Open house (Exhibition/Display of NSTL's Products – 09th to 10th May 2024
 - ii) Multi-media presentation of NSTL-DRDO technologies - 09th to 10th May 2024
 - iii) Open house for all students on model /exhibits by various institute on theme
"From Schools to Startup: Igniting young Minds to Innovate"
- 3) All colleges and schools are requested to inform selected participants to report at below mentioned venue for registration
 - (i) Date: 09 May 2024
 - (ii) Venue: Ramnath Secondary School, NSTL DRDO Residential complex
 - (iii) Time: 0700 Hrs (Morning).
- 4) We are providing only stalls for selected institutions along with pedestal fan, extension board, table, chair, refreshment etc. Lunch has been also arranged only for participants (Exhibitors) on 09th & 10th afternoon.
- 5) You may please advise your students to carry their photo identity cards and escorted by a faculty member during the exhibition. Further please note that Smartphones/cameras are not permitted during the exhibitions as a security measure. Decorum and discipline are to be maintained during the visit. Visiting students and accompanying faculty may be briefed.
- 6) The list of selected abstracts along with title has been attached for your ready reference, kindly circulate it among all concerned.
- 7)

For full details, Please Contact

- Shri Sathiyakumar, Sc-E (0891-2586290)
- Shri R Trinadh, TO-B, (0891-2586415, 9032322136)
- Shri Gaurav K Prajapati, STA-B (0891-2586221, 8539088872)

K. Ch. P. V.
Organizing Committee
NTDC-2024
NSTL-DRDO
Ministry of Defence, Govt. of India



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Email : principal@lbce.edu.in Website : www.lbce.edu.in

LIST OF STUDENTS

INDUSTRIAL VISIT

Name of Industry: Naval Science & Technological Laboratory(NSTL)/Defence Research and Development Organisation-DRDO, Ministry of Defence, Government of India, Visakhapatnam.

Department : Computer Science Engineering.

Date:09-05-2024

S.No	Registration Number	Name of the Student	Signature
1	322136410001	ABOTHULA SATISH	
2	322136410002	ADDA SURENDRA	<i>A. Surendra</i>
3	322136410003	AISHA TABASSUM	
4	322136410004	AKULA GEETHA PRASANNA	<i>A. Geetha Prasanna</i>
5	322136410005	ALAJANGI DIVYA	
6	322136410006	ALAPATI BHAVYA LAKSHMI BHARADWAN	
7	322136410007	ALUGOLU JEEVAN KUMAR	
8	322136410008	AMARA VARDHAN	
9	322136410009	AMUJURU PRAVEEN KUMAR	<i>A. Praveen</i>
10	322136410010	ANGA SIREESHA	
11	322136410011	ANNEPU AVINASH	
12	322136410012	BADDA MELCHISEDAK	<i>B. Melchisedak</i>
13	322136410013	BANDARU DIWAKAR	
14	322136410014	BANDARU KATYAYANI	
15	322136410015	BATCHU GOWRI AISHWARYA REDDY	
16	322136410016	BHESETTI DHURVAN RAJ	
17	322136410017	BIDDIKA RAVIKUMAR	<i>B. Ravikumar</i>
18	322136410018	BOBBARA SATYA SAI LAKSHMI	<i>B. S. Satya Sai Lakshmi</i>
19	322136410019	BODDETI LIKHITHA	<i>Likhitha</i>
20	322136410020	BONELA PADMA SRI	<i>Padma Sri</i>
21	322136410021	BOORA ROSHAN YADAV	
22	322136410022	BOWROTHU MANASA	
23	322136410023	BUDDA MAHENDRA	<i>B. Mahendra</i>
24	322136410024	CHALAPAKA LOKESH KUMAR	
25	322136410025	CHALASANI PRUDHVI SAI	<i>Ch. Prudhvi Sai</i>
26	322136410026	CHEKKA DURGA	<i>Ch. Durga</i>
27	322136410027	DAKAVARAPU MAHESWARI	<i>D. Maheswari</i>
28	322136410028	DASARI PRIYAANKA BALA	
29	322136410029	DATLA VIJAYA RAGHU RAMA RAJU	
30	322136410030	DEVAGUPTHAPU SAI PRANEETHA	<i>Devpraneetha</i>



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31	322136410031	DUDI SRAVANI LAKSHMI	D. Sarani
32	322136410032	DUVVADA HARSHA VARDHAN KUMAR	D. Harsha
33	322136410033	ELLAPU MOHAN SAI	
34	322136410034	ERUGULA TEJA MANIKANTA	
35	322136410035	GANDEPALLI SAI KOUSALYA	G. Sai Kousalya
36	322136410036	GANGISETTY SUPRIYA	G. Supriya
37	322136410037	GARLANKA BHASKAR	
38	322136410038	GOLAGANA SIVAMANI	
39	322136410039	GOLAGANI GOWTHAM KUMAR	
40	322136410040	GUBBALA RAGHU	G. Raghav
41	322136410041	GUDLA DIVYA SRI	G. Divya Sri
42	322136410042	GULLA GANESH	
43	322136410043	GUUVADA JYOSNITHA	
44	322136410044	IPPILI BHARATHI	I. Bharathi
45	322136410045	I VEERA VENKATA SATYA SAI RAM	I.V.V.S. Sai
46	322136410046	JALIA SHRUTHI	
47	322136410047	JALLI LAVANYA	J. Lavanya
48	322136410048	JALLIGAMPALA SIVANI	
49	322136410049	JIDIGURU VENKATA LAXMI KOWSALYA	J.V.L. Kowsalya
50	322136410050	JUTTADA DEVI	J. Devi
51	322136410051	K V T PRAVALLIKA	
52	322136410052	KADALI MOUNISH	
53	322136410053	KAITHALA RITIKA SOUMIAYA	
54	322136410054	KALA SYAM KUMAR	
55	322136410055	KAMBALA SAI MOUNIKA	K. Sai Mounika
56	322136410056	KANDIKUPPA SAI DEEPIKA	K. Sai Deepika
57	322136410057	KANNIKANTI PARDHEEP SRI SAI	K. Pardheep Sai
58	322136410058	KARAKAVALASA OMKAR	
59	322136410059	KARRI SUBHASH	K. Subhash
60	322136410060	KESAVAPATNAM VENKATA SAI KARTHIK	K. Karthik
61	322136410061	KILLADI VENKATA NAGA DIVYA PUJA	K.V.N.D. Puja
62	322136410062	KOKA VEDA ABDHIJA	
63	322136410063	KOLLATI HARINI	
64	322136410064	KURMASULA SAI DILEEP	
65	322136410137	RAMBA DEEPAK SATYANARAYANA	
66	322136410138	SARAGADA KISHORE	
67	322136410139	SUGGU YESUDAS	
68	322136410140	VADDI JOSEPH PAVAN KUMAR	
69	322136410141	TALABATTULA SUMANTH	
70	322136410142	TAMULA HARSHAVARDHAN JAGAN	
71	322136410065	LABHANA BHAGYASRI	L. Bhagyasri
72	322136410066	M SUBRAHMANYAM	
73	322136410067	MAMIDI GAYATHRI	M. Gayathri
74	322136410068	MANDALA PREMKUMAR	



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75	322136410069	MANNE HARSHA VARDHAN	
76	322136410070	M N SAI SIDDHU SRINADHI	
77	322136410071	MULLAPATI RAJKIRAN	
78	322136410072	M GOPAL VAMSI KRISHNA	
79	322136410073	M V K CHAKRAVARTHI	
80	322136410074	MUTHEM SHIVAMANI	
81	322136410075	NAGALLA GANESH	N. Ganesk
82	322136410076	NALLA KRISHNA CHAKRI	
83	322136410078	PALLI NIKITHA	
84	322136410079	PANDADA MAHENDRA	
85	322136410080	PAPPALA LATHA	
86	322136410081	PEELA JOSHICA	
87	322136410082	PEMMADA HARIKA	
88	322136410083	PENDYALA AMRUTHA	P. Amrutha
89	322136410084	P P SREE HARSHITHA	
90	322136410085	PINNINTI CHARISHIMA PRIYA	P. Charishima
91	322136410087	P HIMAVARSHINI	
92	322136410088	PONNADA SATHWIK	
93	322136410089	PONNADA VENU DINESH	
94	322136410090	P SAI LAKSHMI SAMEERA	Sameera p
95	322136410091	PRODDOKU SRI NIHITHA	
96	322136410092	PUVVALA JASWANTH	
97	322136410093	PUVVALA JAYANTH	
98	322136410094	R JATIN	
99	322136410095	RADI DILEEP	R. Dileep
100	322136410096	RAGINI KUMARI	Ragini
101	322136410097	RAJANA DILEEPPKUMAR	
102	322136410098	RAJAT CHAUHAN	
103	322136410100	RESAPU MRIDINI	
104	322136410101	REYYA SRICHARAN	
105	322136410102	ROKKAM SAI SRUTHI	R. S. Chandra
106	322136410103	ROMPALLI SARAT CHANDRA	
107	322136410104	RONGALI SRAVANI	
108	322136410105	RUDRAPATI ROSHINI	
109	322136410106	SANA NEHA SREE	S. Neha
110	322136410107	SHAIK NOOR HAZMATH	
111	322136410108	SINGAMPALLI SAILAJA	S. Sailaja.
112	322136410109	SRI DHRITIMAN MITRA	
113	322136410110	SURUPALLI BHANU PRAKASH	
114	322136410111	THIRUPATUR ANIF	T. Anif
115	322136410112	TIYYARATHODI MEGHANA	T. Meghana
116	322136410113	T S V S SETHA SAI SINJANA	V. S. S.
117	322136410114	VANAM DILLEESWARI	
118	322136410115	VEDALA ANIRUDH	



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119	322136410116	V LAKSHMI SAHINI	<i>[Signature]</i>
120	322136410117	YATIRAJULA RAJ KUMAR	
121	322136410118	YEKULA HILARI	<i>[Signature]</i>
122	322136410119	YELLUMAHANTI SAI SNEHA	<i>[Signature]</i>
123	322136410120	CHITTIBOYINA UDAY KUMAR	
124	322136410121	DADI MOUNICA	<i>[Signature]</i>
125	322136410122	GARKINI RAMU	
126	322136410123	LAKKIMSETTI GEETHIKA SREEJA	
127	322136410124	MUTHIPATI NARASIMHA MURTHY	
128	322136410125	SASIDHAR CHETTEY	
129	322136410126	SENAPATHI RADHIKA	<i>[Signature]</i>
130	322136410127	SINGAVARAPU SEKHAR	
131	322136410128	VURLA SUMA MALLIKA	
132	322136410129	YADAV RACHANA KUMARI	
133	322136410130	YARLAGADDA MEGHA SYAM	
134	322136410131	ALLURI KARTHIK SAI SHANKAR	
135	322136410132	BODDI ROHITH	
136	322136410133	BOYI CHANDRA VAMSI REDDY	<i>[Signature]</i>
137	322136410134	GUNTU ABHINAV	<i>[Signature]</i>
138	322136410135	PATNALA DEEPAK	
139	322136410136	RAJANA RAVI SHANKAR	

[Signature]
Coordinator

[Signature]
HOD

Head of the Dept.
Dept. of Computer Science Engg
Dr. Lankapalli Bullayya College of Engg.
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VISAKHAPATNAM-530 013. (A.P.)



Dr. Lankapalli Bullayya College of Engineering

New Resapurani Palam, Visakhapatnam

Sponsored by Society of Collegiate Education

Approved by AICTE, Affiliated to Andhra University

DATE:09-05-2024

Report On Industrial/Field Visit to

Naval Science & Technological Laboratory (NSTL) | Defence Research and
Development Organization - DRDO, Ministry of Defence, Government of
India.

Duration: 09-05-2024 and 10-05-2024

Name of the Faculty Coordinators:

S.No	Name of the Faculty	Branch
1	Dr. G Vamsi Krishna	CSE

Total Numbers of Students Attended

S.No	Branch	Number of Students attended
1	CSE	54

All the Technical Departments of Dr. Lankapalli Bullayya College of Engineering has successfully organized a field visit to "NSTL-DRDO VIZAG" for III/IV B.Tech students. This was conducted to know the latest technologies used by the Defence forces. NSTL-DRDO VIZAG the Naval Science and Technological Laboratory is an Indian defence laboratory of the Defence Research and Development Organization, located in Visakhapatnam. Its main function is the research and development of underwater weapons and associated systems. NSTL is organized under DRDO's Directorate of Naval R&D. This has motivated all enthusiastic students to utilize this opportunity and know about the technologies used in the Defence forces.

Objectives:

- Field visits are the way of enhancing classroom learning by making real world connections. These types of trip pose students to different places and eras.
- It creates awareness to students about the different innovative technologies.

Outcomes:

- Very good opportunity for students to interact with Experts.
- Develops confidence and helps to enhance their interpersonal skills.

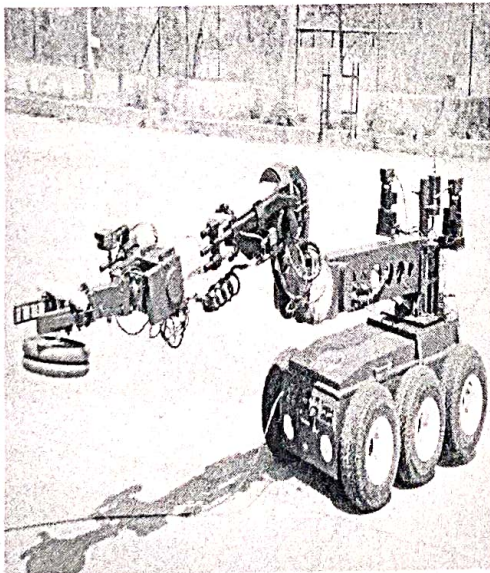
1. Underwater Vehicles:

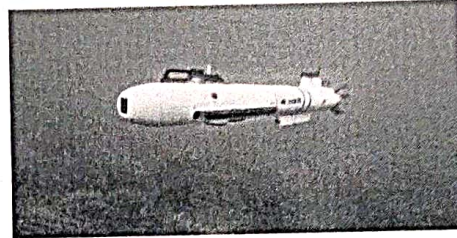
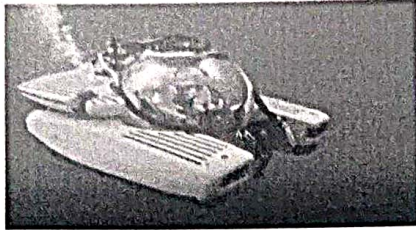
Underwater vehicles are indispensable tools in the Naval Science and Technology Laboratory (NSTL), facilitating a wide range of underwater missions and research endeavors. NSTL employs various types

of underwater vehicles to meet the diverse needs of naval operations. These vehicles include:

Functions:

- Autonomous Underwater Vehicles (AUVs): AUVs are unmanned, self-propelled submersibles designed for autonomous operation. They are used for tasks such as underwater mapping, data collection, and environmental monitoring. AUVs navigate through water with precision and can be equipped with sensors and cameras for data acquisition.
- Remotely Operated Vehicles (ROVs): ROVs are remotely controlled submersibles connected to the surface by cables. They are highly maneuverable and equipped with advanced cameras, robotic arms, and instruments. ROVs are used for tasks like underwater inspections, salvage operations, and scientific research.
- Manned Submersibles: NSTL may also use manned submersibles for deep-sea exploration and research missions. These submersibles can carry human occupants to extreme depths, allowing for direct observation and data collection in challenging environments.
- Hybrid Underwater Vehicles: Some underwater vehicles in NSTL's arsenal combine elements of AUVs and ROVs, offering versatility in underwater operations. These hybrids can operate autonomously or be remotely controlled as needed.



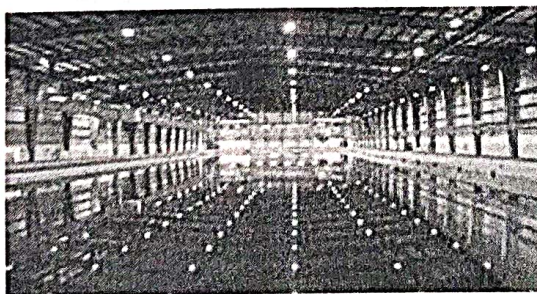


2. Hydrodynamic Testing Facilities:

Hydrodynamic testing facilities at the Naval Science and Technology Laboratory (NSTL) play a pivotal role in advancing naval engineering and ensuring the optimal performance of naval vessels and underwater systems. These facilities encompass a range of cutting-edge equipment and resources, including:

Functions:

- **Towing Tanks:** NSTL's towing tanks are large, water-filled basins equipped with towing carriages. They are used to test scale models of ships and submarines under controlled conditions. Researchers can study the hydrodynamic behavior of vessels, assess their resistance and propulsion, and optimize their design for fuel efficiency and maneuverability.
- **Wave Tanks:** Wave tanks simulate different sea conditions, enabling researchers to evaluate how ships and underwater systems respond to waves, turbulence, and adverse weather. This testing is essential for designing vessels that can safely navigate challenging seas.
- **Model Basins:** Model basins provide controlled environments for studying the stability and seakeeping characteristics of ships. Researchers use scale models to analyze how vessels handle different sea states and wave patterns, contributing to safer and more effective naval operations.
- **Cavitation Tunnels:** Cavitation tunnels are specialized facilities that investigate the phenomenon of cavitation, which occurs when water pressure drops to the point where bubbles form around a moving object. These tunnels help researchers understand and mitigate cavitation damage to propellers and hulls.

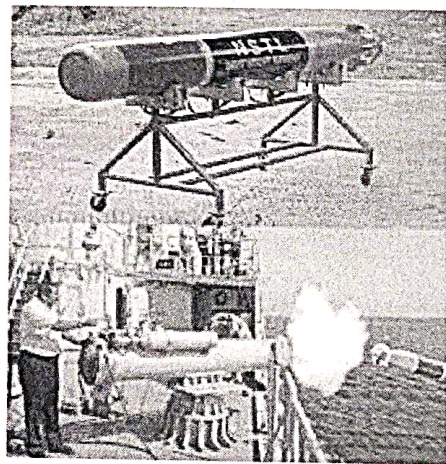


3. Material Testing Labs:

Material testing labs within the Naval Science and Technology Laboratory (NSTL) are dedicated to evaluating the durability, strength, and performance of materials used in naval construction. These labs are equipped with advanced equipment and expertise to ensure the reliability of naval assets. Here are 10 lines of content detailing the significance and components of these labs:

Functions:

- Metallurgical Analysis: NSTL's material testing labs specialize in metallurgical analysis, examining the chemical composition and microstructure of metals used in shipbuilding and equipment construction.
- Materials Characterization: Researchers employ a range of techniques such as spectroscopy, microscopy, and mechanical testing to characterize materials and assess their suitability for naval applications.
- Corrosion Resistance Testing: Evaluating materials for their resistance to corrosion is crucial in the marine environment. NSTL conducts accelerated corrosion tests to determine the lifespan of materials in corrosive conditions.
- Tensile Strength Testing: Testing materials for tensile strength helps determine their ability to withstand forces and loads, critical for assessing the structural integrity of naval components.

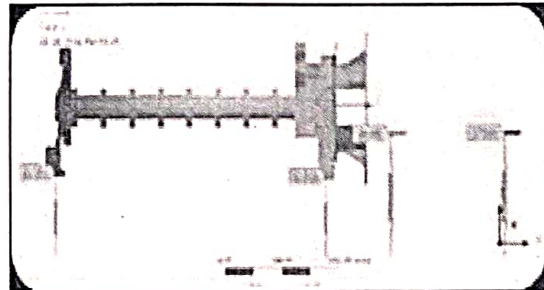
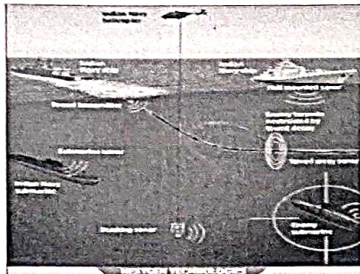


4. Sonar Systems:

Functions:

- Detection and Localization: NSTL's sonar systems are designed to detect and precisely locate underwater objects, including submarines, ships, and potentially hazardous obstacles.

- Active and Passive Sonar: NSTL employs both active and passive sonar technologies. Active sonar emits sound waves and analyzes their echoes, while passive sonar listens for acoustic signals generated by other vessels.
- Towed Array Sonar: Towed array sonar systems are used for long-range detection and tracking, typically attached to naval vessels and submarines.
- Anti-Submarine Warfare: Sonar systems play a crucial role in anti-submarine warfare, enabling naval forces to detect and counter underwater threats effectively.

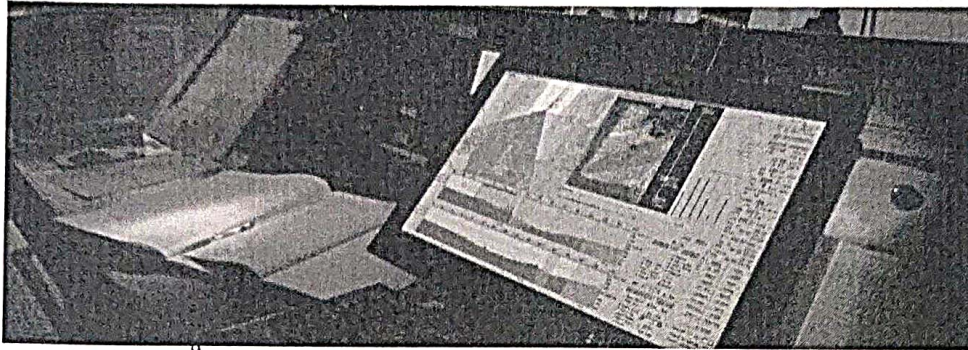


5.Navigation Systems:

Navigation systems at the Naval Science and Technology Laboratory (NSTL) are critical for ensuring the precise and safe movement of naval vessels in various maritime environments. Here are 10 lines outlining the significance and functionality of navigation systems at NSTL:

Functions:

- GPS (Global Positioning System): GPS technology is a cornerstone of NSTL's navigation systems, providing accurate positioning data to determine a vessel's location anywhere on the Earth's surface.
- Gyrocompasses: Gyrocompasses are employed to maintain reliable and stable heading information, aiding in accurate navigation even when GPS signals are unavailable.
- Inertial Navigation Systems (INS): INS systems use accelerometers and gyroscopes to calculate a vessel's position, velocity, and orientation, making them vital for precise navigation, especially during high-speed maneuvers.
- Chart Plotters: Chart plotters and electronic chart systems help visualize navigational charts and real-time vessel positioning, simplifying route planning and course monitoring.

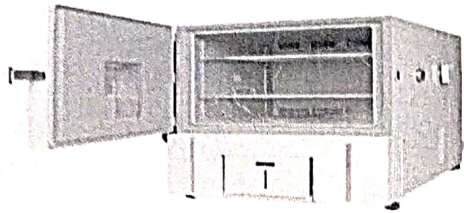


6. Environmental Test Chambers:

Environmental test chambers are essential components of the Naval Science and Technology Laboratory (NSTL) that play a crucial role in evaluating the performance and durability of naval equipment and systems under extreme conditions. Here are 10 lines summarizing the importance and functionality of environmental test chambers in NSTL:

Functions:

- Diverse Testing Environments: NSTL's environmental test chambers simulate a wide range of environmental conditions, including extreme temperatures, humidity levels, and corrosive atmospheres, allowing comprehensive testing of naval equipment.
- Performance Assessment: These chambers are used to assess how naval systems and materials perform in harsh environments, ensuring their reliability and effectiveness in real-world scenarios.
- Temperature Testing: Environmental chambers can subject equipment to extreme cold and heat, helping researchers understand how they perform in Arctic and tropical conditions, for example.
- Humidity and Moisture Testing: High humidity and moisture levels can accelerate corrosion and degradation. Chambers recreate these conditions to test materials' resistance and durability.



7. Marine Propulsion Labs:

Marine Propulsion Labs at the Naval Science and Technology Laboratory (NSTL) are specialized facilities focused on the research and development of propulsion systems used in naval vessels. These labs are pivotal in advancing the efficiency, performance, and reliability of propulsion technologies critical for naval operations. Here's an overview of the Marine Propulsion Labs at NSTL:

Functions:

- **Engine Testing Facilities:** NSTL's propulsion labs are equipped with state-of-the-art engine testing facilities where various types of marine engines, including diesel engines and gas turbines, are rigorously tested. These tests assess engine efficiency, emissions, and overall performance.
- **Performance Optimization:** Researchers in these labs work on optimizing the performance of marine propulsion systems to ensure they meet the stringent requirements of naval vessels, including submarines, surface ships, and aircraft carriers.
- **Fuel Efficiency:** NSTL places a significant emphasis on improving the fuel efficiency of marine engines. Propulsion labs conduct studies and experiments to develop technologies that reduce fuel consumption and environmental impact.
- **Emissions Reduction:** These labs also focus on reducing emissions from marine engines, contributing to cleaner and more environmentally friendly naval operations. This involves developing and testing emission control systems.



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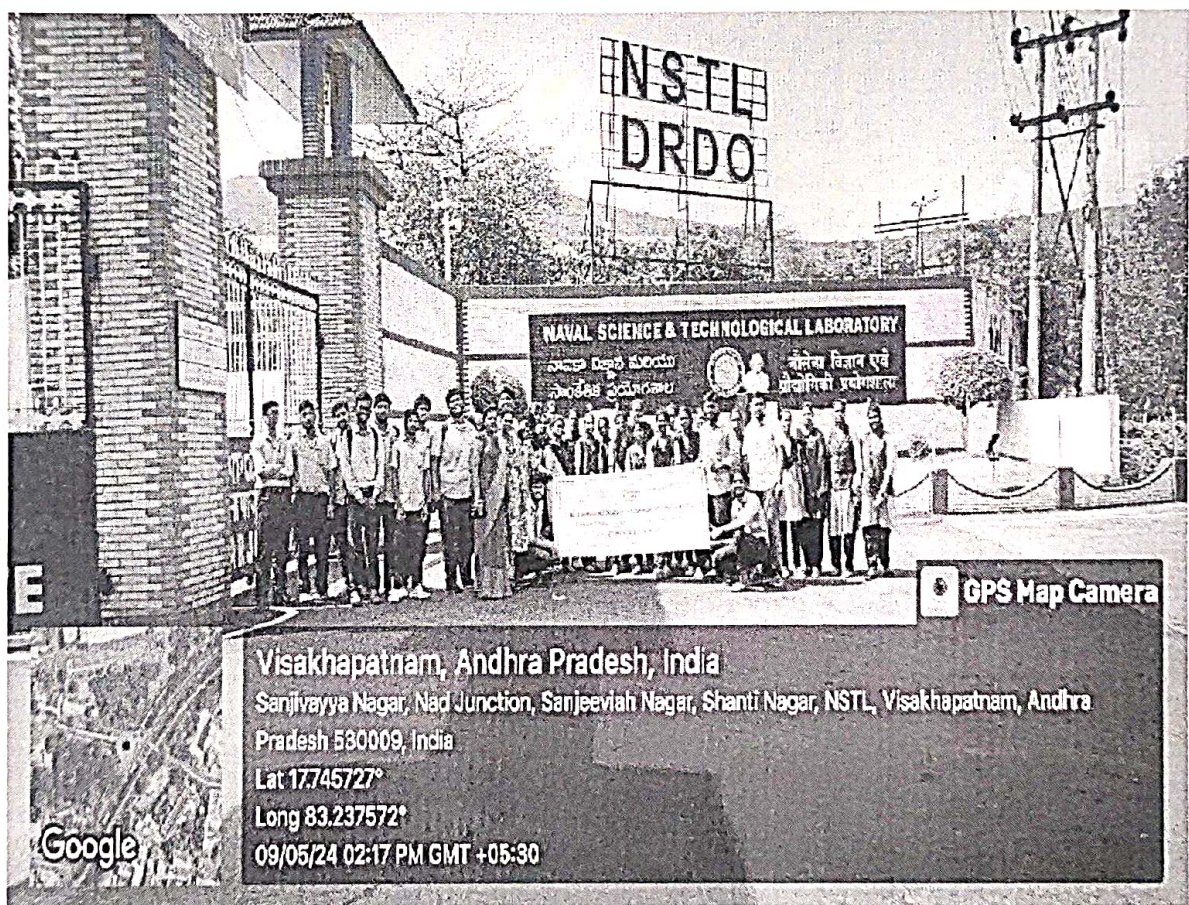
Industrial Visits

AY : 2023-2024
Metric : 1.3.2
EventType : Industrialvisit
Date /Duration : 09-05-2023
Placeofvisit : NSTL, Visakhapatnam.
NameofCoordinator : 1. Dr. G Vamsi Krishna, Assistant Professor, CSE
2. S Sravani, Assistant Professor, CSE
3. Nirupama, Assistant Professor, CSE

No of Students : II/IVCSESTUDENTS

Objective of the event:

For The students of II/IV B Tech CSE, the NSTL field visit is planned to see the exhibited missiles invented by Scientists.





GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

P6WP+3Fv, Nad Junction, NSTL, Visakhapatnam, Andhra Pradesh 530009, India

Lat 17.745523°

Long 83.236092°

09/05/24 02:28 PM GMT +05:30

Google



Visakhapatnam, Andhra Pradesh, India

P6WP+3FV, Nad Junction, NSTL, Visakhapatnam, Andhra Pradesh 530009, India

Lat 17.745534°

Long 83.236384°

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