



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada
Accredited by NAAC with "A" Grade and NBA (CSE, IT, ECE, EEE & ME) under Tier - I



DEPARTMENT OF MECHANICAL ENGINEERING LAKSHYA 2K22 REPORT

Late Sri Lakireddy Bali Reddy M.S., USA
Founder Chairman
(1937-2021)
ESTD: 1998

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS SINCE 2010)

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Mylavaram-521 230, NTR Dist., A.P. India. Tel: 08659-222933,934, 223936 Fax:222931 E-mail : Lakshya2k22@lbrce.ac.in

Lakshya-2k22

16TH NATIONAL LEVEL TECHNICAL & CULTURAL FEST

An Invocation to True warriors.

Registration
28th December 2022
Registration Fee :300/- (per Event)

or
<http://tinyurl.com/LAKSHYA2K22>

Important Dates
Submission of Entries
21-12-2022
Date of Intimation
24-12-2022

STUDENT CO-ORDINATORS		
NAME	BRANCH	MOBILE
Syed Shoukath Aleem	Aero Space	6300625543
P. Sri Krishna	AI&DS	8639469570
Gh. Siddhartha Reddy	CE	9121377080
V. Akshay Kumar	CSE	9901006141
M. Harsha vardhan Reddy	CSE(AI&M)	8179390932
B. Ayyappa	EEE	8688941005
B. Venkata Satya Sravan	ECE	9032230131
K. Lakshmi Narayana	EIE	9912468642
M. David	IT	7013817769
K. Syam Paul	ME	9032068229
Gh. Lakshmi Narayana	MBA	8185893238

FACULTY CO-ORDINATORS		
NAME	BRANCH	MOBILE
G. V. Surya Narayana, Asst Prof	Aero Space	9492924159
K. Venkatesh, Asst Prof	AI&DS	8985652558
P. Mohan Ganga Raju, Asst Prof	CE	9553736699
N.V. Naik, Sr. Asst Prof	CSE	7893644427
G. Venkata Siva, Asst Prof	CSE(AI&M)	9492057199
P. Rethrakani Kumar, Asst Prof	EEE	9703878093
G. Venkata Rao, Assoc Prof	ECE	9494535698
B. Sandeep, Sr. Asst Prof	EIE	986421987
S.K. Girdi, Asst Prof	IT	9494838390
K. Lakshmi Prasad, Sr. Asst Prof	ME	9885827526
Dr. W. Narsai Reddy, Assoc Prof	MBA	9866870181

SRUJANA

PRAGNA

MEDHA

NIPUNA

SPECIAL EVENTS

Cruise 7.0 Brain Expeditions CIR'KIT Art Expo

Who is KGF? Water Rocket Contest Creative Minds

Yanthra Bulls vs Bears Bug Hunter

CHIEF PATRONS

Sri Lakireddy Jaya Prakash Reddy, Honorary Chairman
Sri L.R.N.K. Prasad Reddy, Chairman
Sri Lakireddy Vijay Kumar Reddy, Vice Chairman

PATRONS

Sri. G. Srinivasa Reddy, President
Dr. K. Appa Rao, Principal
Dr. K. Harinadha Reddy, Vice-Principal

CONVENERS

Dr. S. Pichi Reddy, Professor & HOD - MECH
Dr. J. Siva Vara Prasad, Professor & HOD - EEE

For more details :

www.l.brce.ac.in/Lakshya2k22.php
Lakshya2k22@lbrce.ac.in

SRUJANA-PAPER PRESENTATION

CONTENT

S. No.	Topic	Author/Authors' name	Name of the college
1	Review on Hybrid Fiber Natural Composites	VIPPARLA MANEESH	Lakireddy Bali Reddy College of Engineering
2	Industry 4.0	T .GANESH KUMAR	V.R Siddhartha College of Engineering
3	4D PRINTING TECHNOLOGY	K THARUN	RK COLLEGE
4	Automatic Board Cleaner	SHAIK SADHIK, K.HARDIK	Lakireddy Bali Reddy College Of Engineering

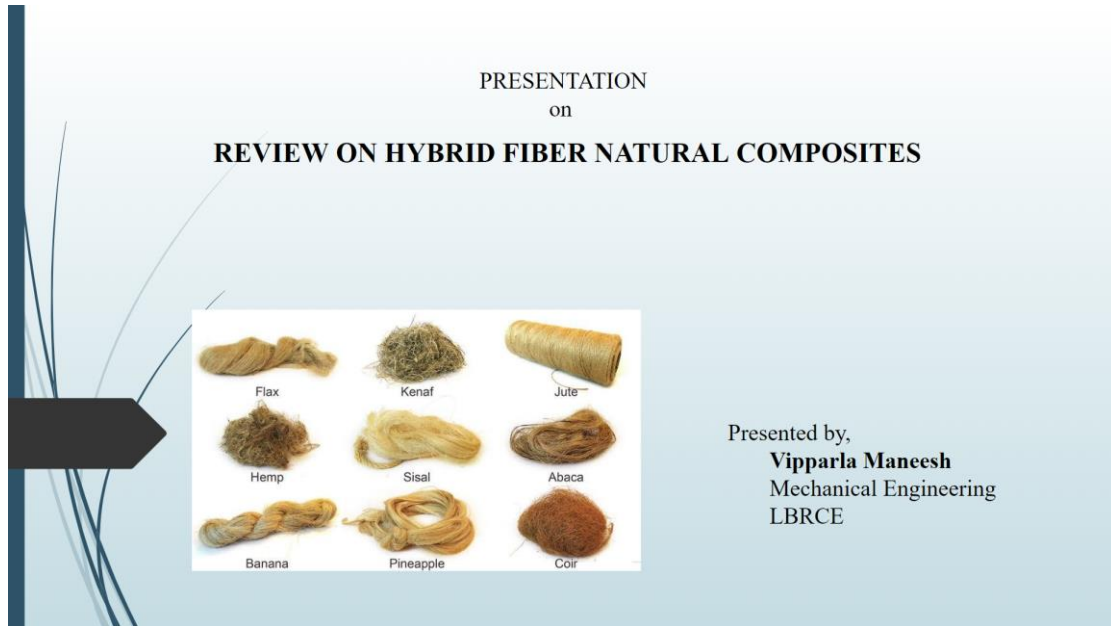
5	BIODIESEL PREPARATION AND REVIEW ON BIODIESELS	DIVVELA GOWTHAM	Lakireddy Bali Reddy College of Engineering
6	Online Education vs Offline Education	P. ANIL KUMAR S.MAHESH REDDY	Sai Degree College
7	Intelligent Internal Combustion Engine	BOKSU. SRINIVAS, GOLLA .VENKAT VAMSI	NRI Institute of Technology
8	Study on Airless/Non Pneumatic Tyre	ADITHYA KRISHNA BALABOMMA HEMANTH	NRI Institute Of Technology
9	Electric vehicles And their working	L. SRINIVASA RAO, J ADITYA PRASANTH	LBRCE, KLU

HONOURABLE JUDGES



1. REVIEW ON HYBRID FIBER NATURAL COMPOSITES

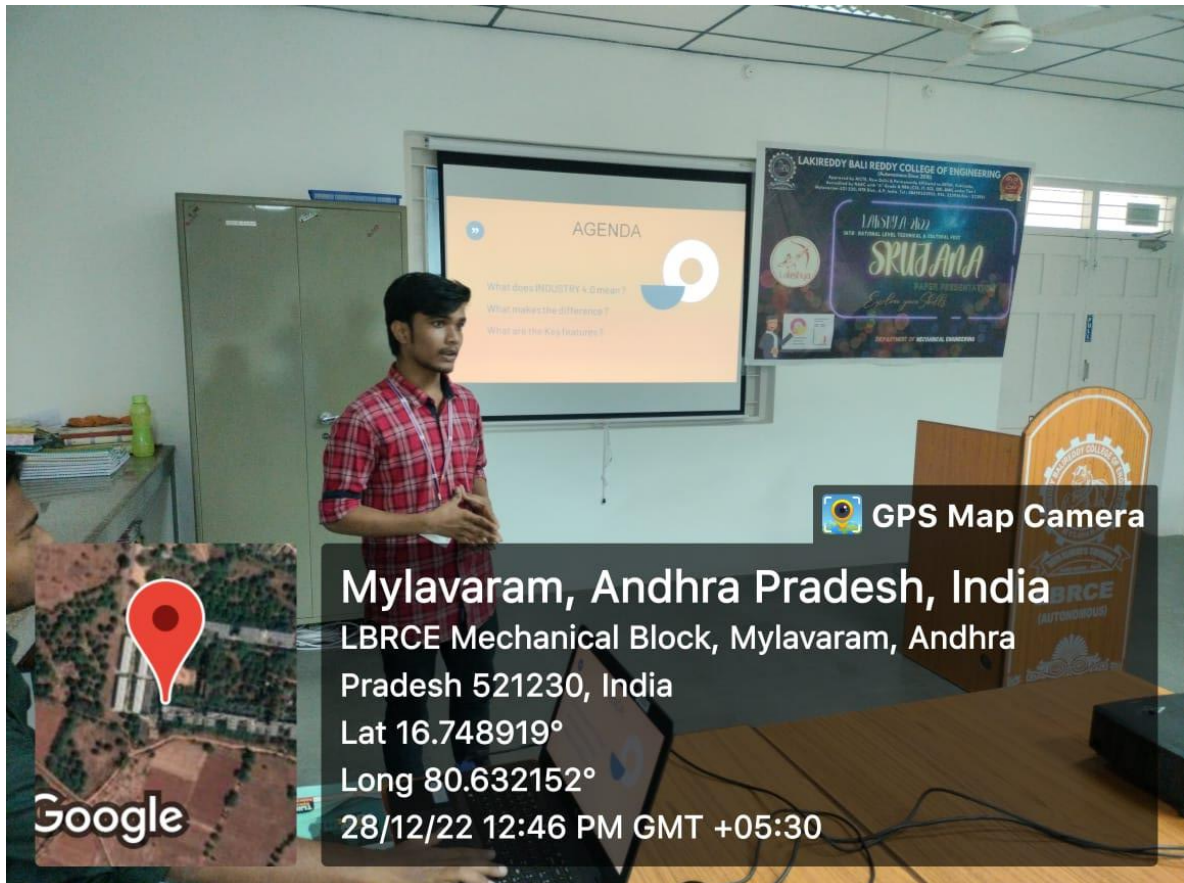
Vipparla Maneesh



2. INDUSTRY 4.0

T. Ganesh Kumar

FIRST PRIZE



3.

4D PRINTING TECHNOLOGY

K Tharun

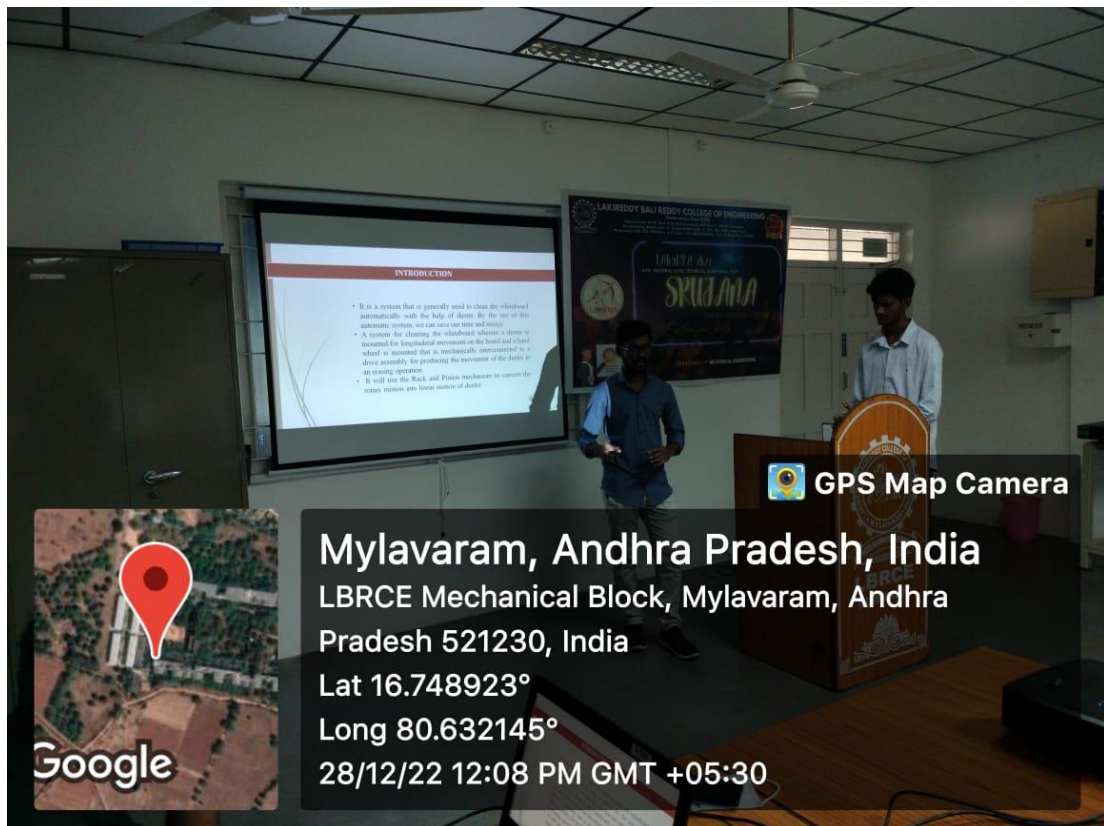


4.

Automatic Board Cleaner

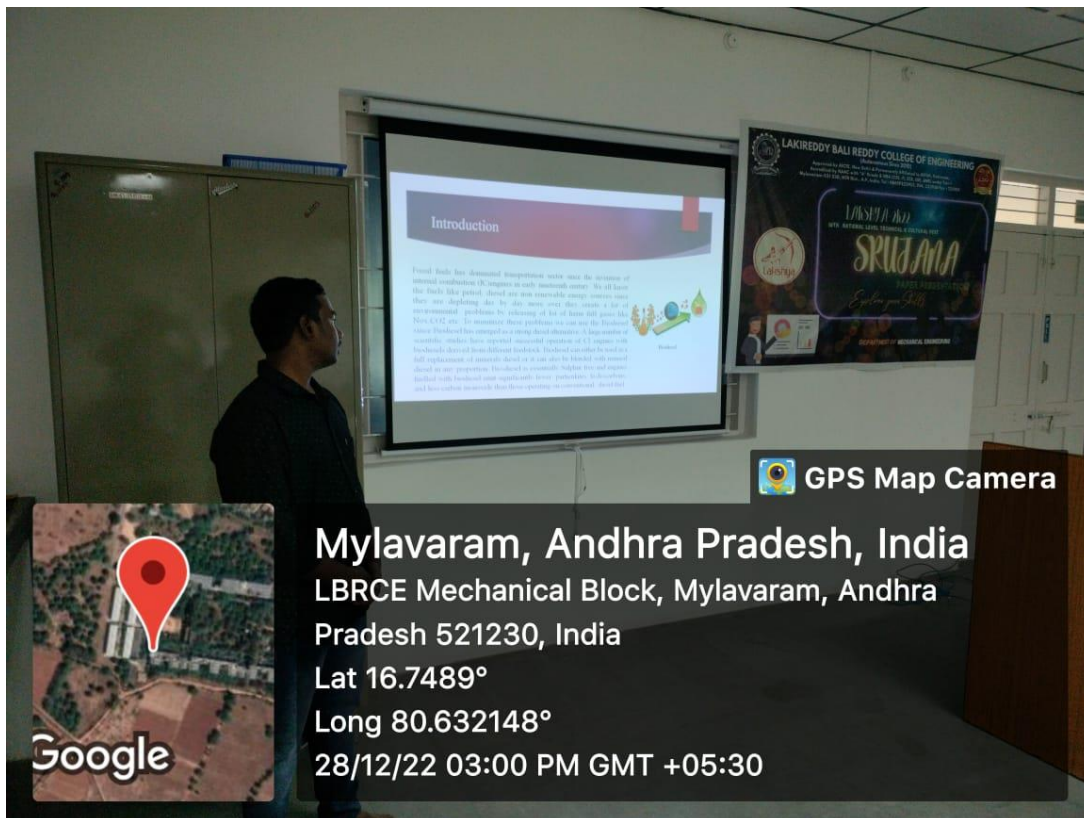
K. Hardik, Shaik Sadhik

SECOND PRIZE



5. BIODIESEL PREPARATION AND REVIEW ON BIODIESELS

Divvela Gawtham



6. Online Education Vs Offline Education

P. Anil Kumar, S. Mahesh Reddy

Online Education vs Offline Education

The "New Normal" has become the most bittersweet phrase since the beginning of the global pandemic Coronavirus (also known as Covid-19). Coronavirus is a deadly infection first discovered in China in December 2019. With time it spread globally and took a form of a global crisis. For the first time in many years, a disease had stopped the entire world from functioning normally. Every country imposed a nationwide lockdown to prevent the infection from spreading, as it is highly contagious. Since then, everything has become online, from classes to offices, grocery shopping everything. This form of life is called the "new normal". Schools and universities are conducting classes, exams, presentations, viva, etc., all online.

Advantages of online education:

- It is flexible; can be accessed from anywhere with a device and internet connection.
- Budget-friendly.
- Convenient attendance.
- Class recordings are available for later references.

Disadvantages of online education:

- One of the major disadvantages faced by students learning online is managing screen time. Online education requires staying logged in on the screen for an extended period regularly. Long-duration screen time becomes a great difficulty for the students and harmful for their health as well, especially the eyes.
- Another disadvantage includes technical glitches. Poor Internet connectivity issues also arise multiple times during online sessions. Small towns/cities, urban areas face the most difficulty maintaining stable Internet connection. It destroys the learning of the students.
- Other disadvantages include: Feeling of isolation by individuals, Minimal peer help, Group work not as efficient as it would be if done offline.

Advantages of Offline classes:

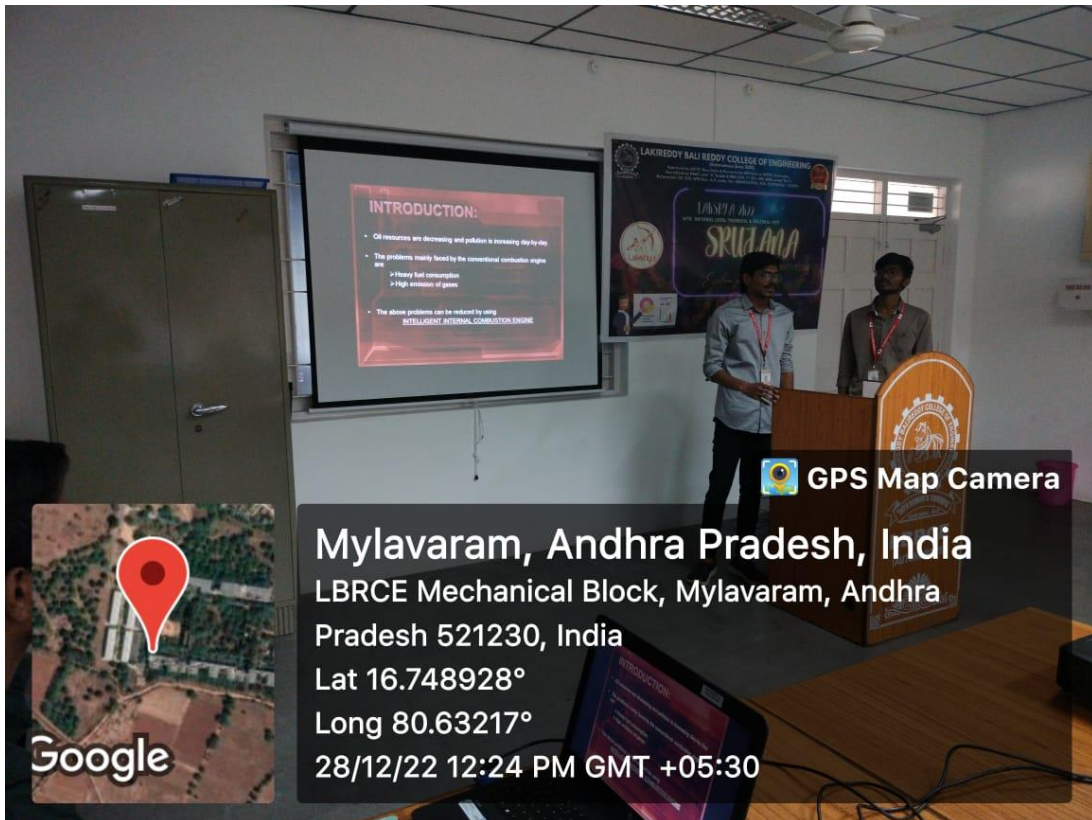
- Students are fully attentive towards class only; less distraction. Online classes have more possibilities of distractions where students may surf on other online platforms or pay less attention in class.
- Teachers can provide individual attention to the students, address their issues and solve it quickly.

Disadvantages of Offline classes:

- Students may lack the opportunity to learn advancing technology.
- Time management becomes an issue for students who reside far away from campus.
- No recording or any other form of data is not always available for students who missed the class or later references.

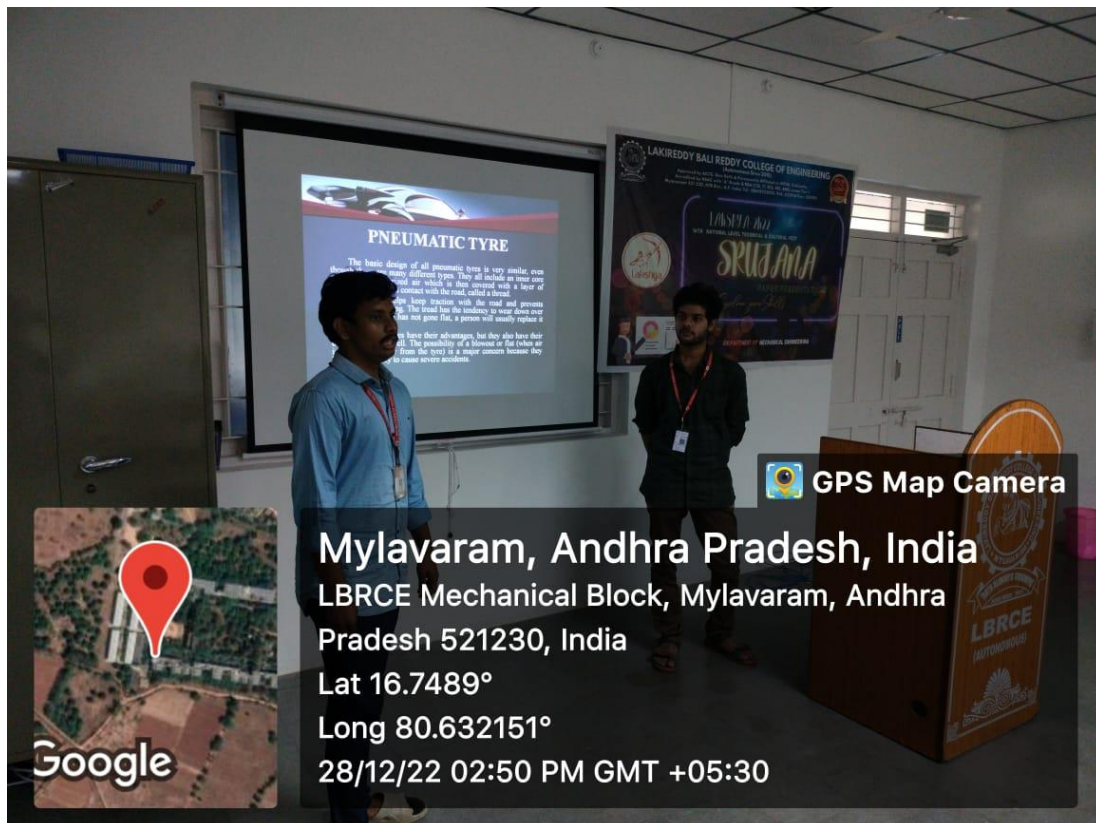
7. INTELLIGENT INTERNAL COMBUSTION ENGINE

Boksu. Srinivas, Golla. Venkat Vamsi



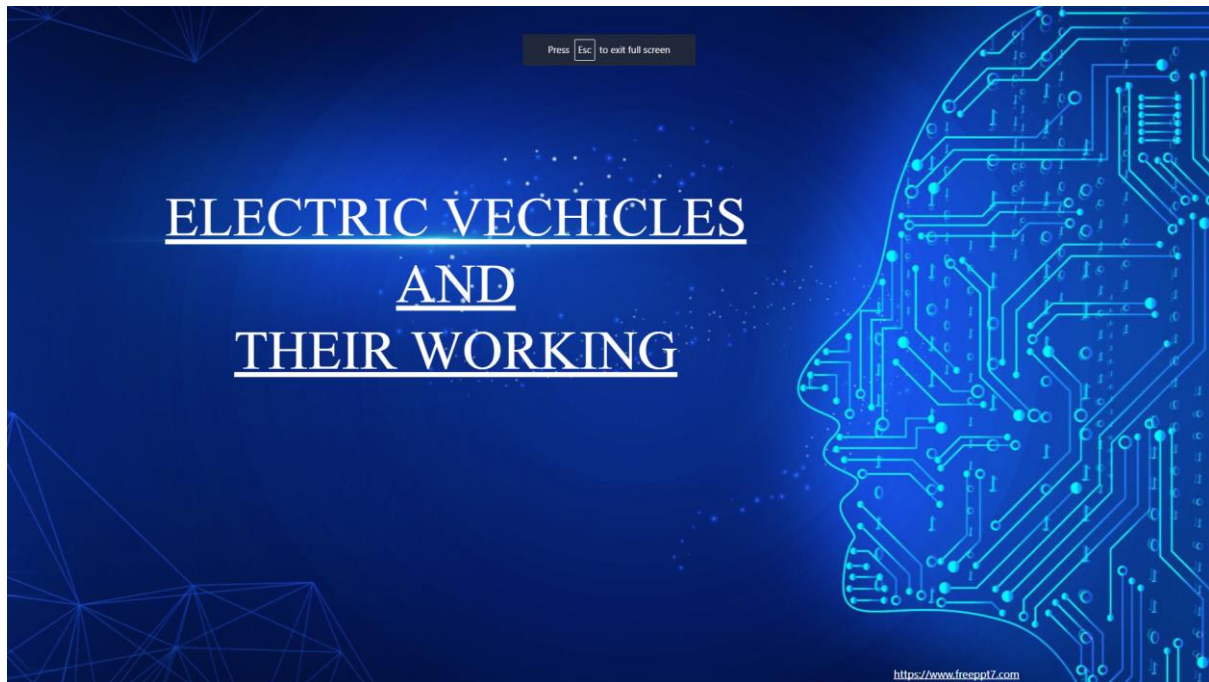
8. STUDY ON AIRLESS/NON PNEUMATIC TYRE

Adithya Krishna, Balabomma Hemanth



9. ELECTRIC VEHICLES AND THEIR WORKING

L. Srinivas Rao, J. Adithya Prasanth



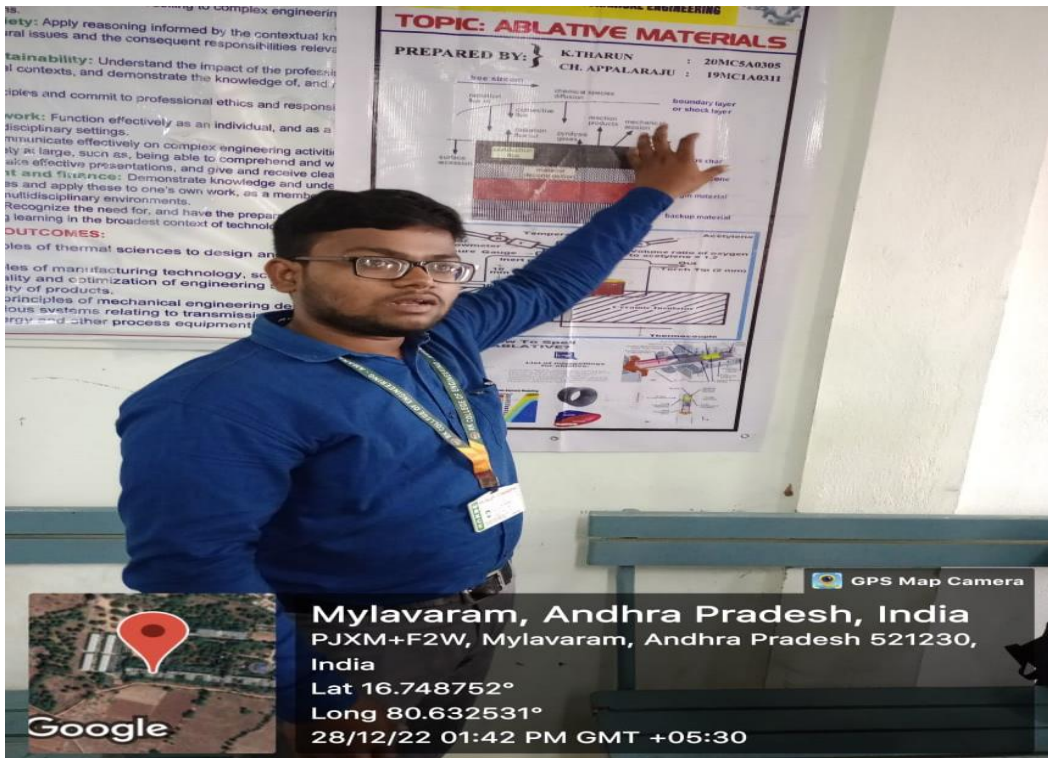
PRAGNA-POSTER PRESENTATION

S. No.	Topic	Author/Authors' name	Name of the college
1	ABLATIVE MATERIALS	K. THARUN	R. K College of Engineering
2	MAGLEV TRAIN	N. GOPAL KRISHNA P. KUMAR	Lakireddy Bali Reddy College of Engineering
3	HYBRID CARS	SATYA NARAYANA HARI VENKAT	Lakireddy Bali Reddy College of Engineering
4	WATER COOLER	K RAKESH LOKESH	Lakireddy Bali Reddy College of Engineering

5	TAKE CARE OF TREES	S DURGA RAO P KARTHIK BABU	Lakireddy Bali Reddy College of Engineering
6	FOUR STROKE DIESEL ENGINE	S.V. D. GANESH K. SAI KESAVA	Lakireddy Bali Reddy College of Engineering
7	CONNECTING OUR ROOF THROUGH SOLAR	D KRISHNA CHAITANYA P JAGADEESH	Lakireddy Bali Reddy College of Engineering
8	UNDER WATER WELDING	K ADITYA B HEMANTH	NRI INSTITUTE OF TECHNOLOGY
9	WHY H ₂	K. VENKATESH L. YESWANTH	Lakireddy Bali Reddy College of Engineering




TOPIC – ABLATIVE MATERIALS



The student is pointing at a poster titled "TOPIC: ABLATIVE MATERIALS" which includes a diagram of a material cross-section with layers like "Secondary layer or shock layer" and "Backbone material". The poster also lists the preparer as K. THARUN and CH. APPALARAJU.

MyLavaram, Andhra Pradesh, India
PJXM+F2W, Mylavaram, Andhra Pradesh 521230, India
Lat 16.748752°
Long 80.632531°
28/12/22 01:42 PM GMT +05:30

TOPIC – MAGLEV TRAIN



The students are looking at a poster titled "MAGLEV TRAIN" which features images of a train and diagrams of a levitation system. The poster also includes a "DEPARTMENT VISION and MISSION" section and a "PROGRAMME EDUCATIONAL OBJECTIVES" list.

MyLavaram, Andhra Pradesh, India
L.B.Reddy Nagar, LBRCE Mechanical Block, Mylavaram, Andhra Pradesh 521230, India
Lat 16.748842°
Long 80.632539°
28/12/22 01:39 PM GMT +05:30

TOPIC – HYBRID CARS



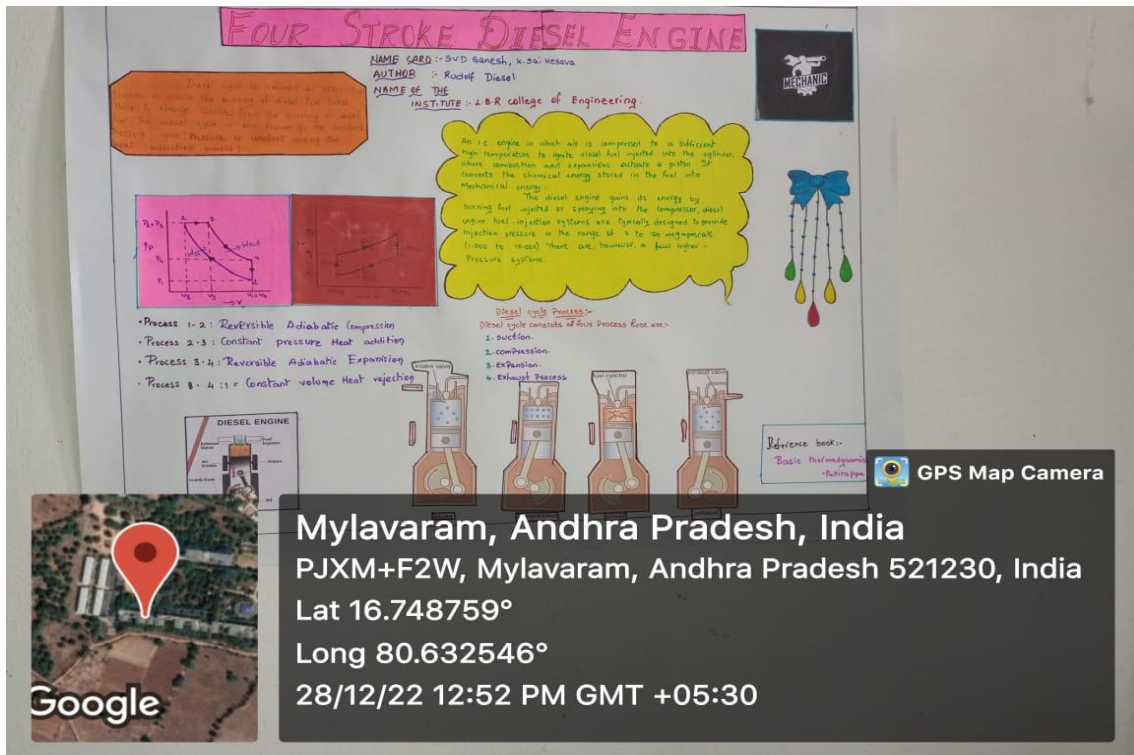
TOPIC – WATER COOLER



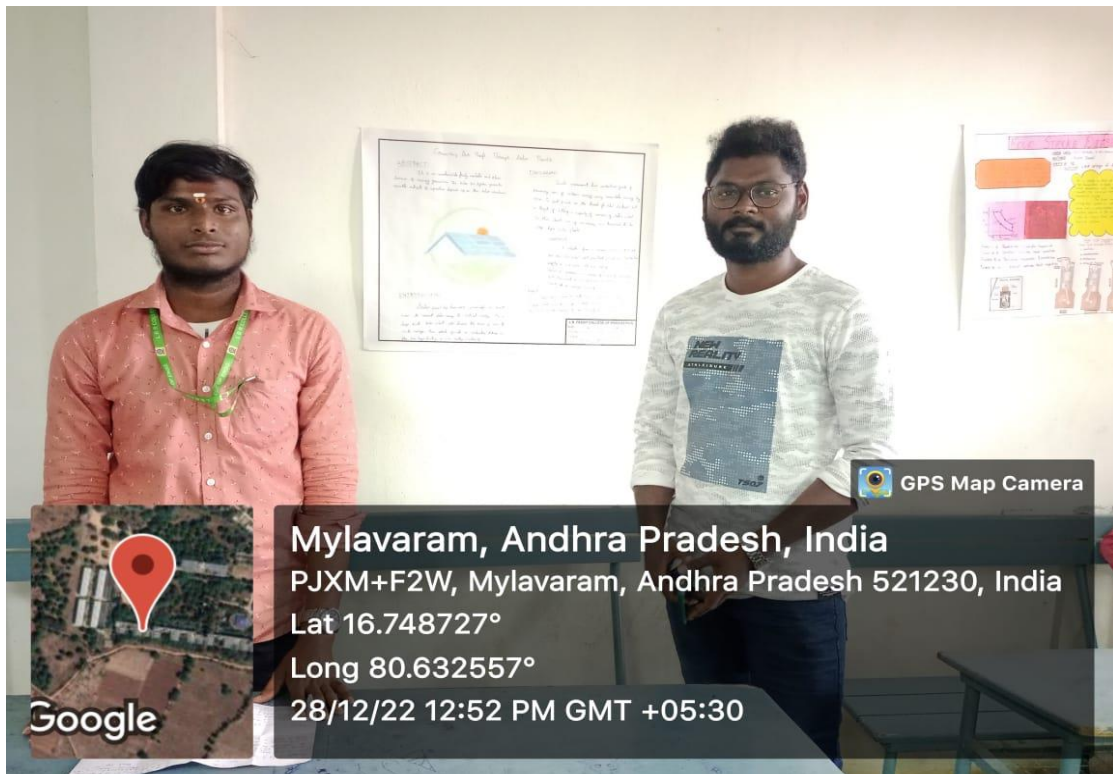
TOPIC – TAKE CARE OF TREES



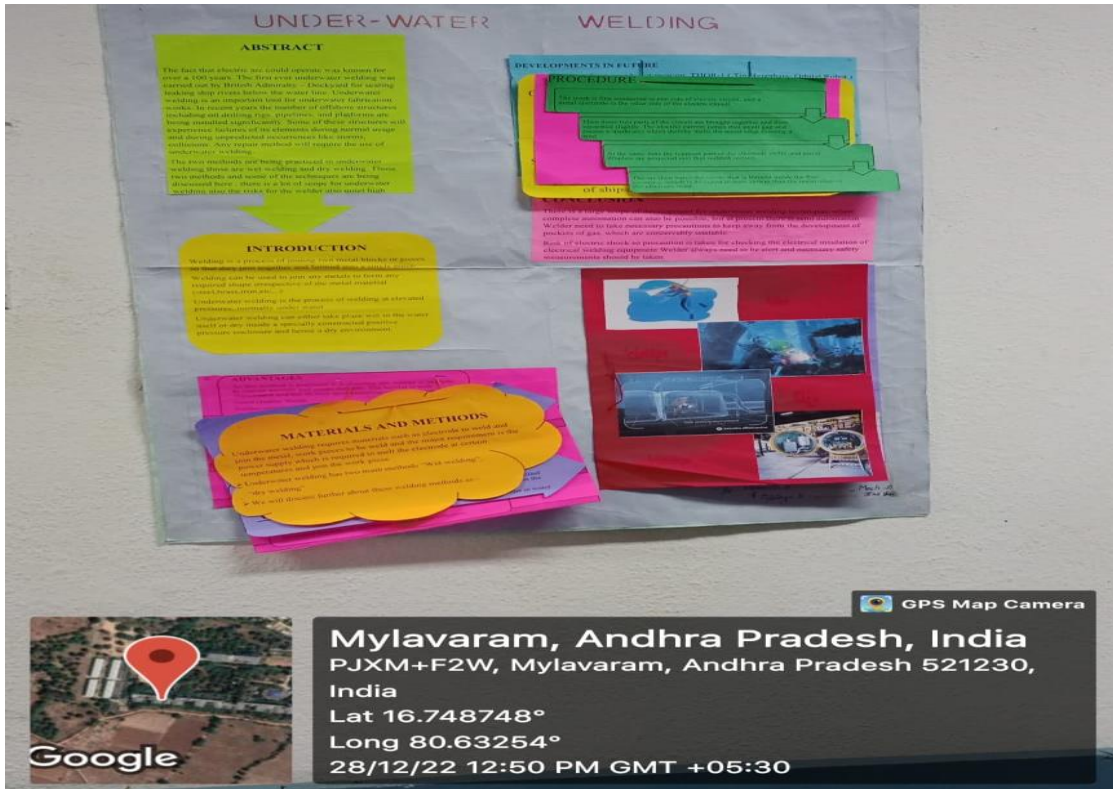
TOPIC – FOUR STROKE DIESEL ENGINE



TOPIC – CONNECTING OUR ROOF THROUGH SOLAR



TOPIC – UNDER WATER WELDING



TOPIC – WHY H₂

WHY-H₂

INTRODUCTION
Hydrogen is a clean fuel. It is an energy carrier that can be used in a broad range of applications. It is used to store energy from renewable sources like wind, solar, hydro, etc. It is used in various industries like chemical, steel, etc.

Production Methods
There are many ways to produce hydrogen. Some of the common methods are:
1. Steam Methane Reforming (SMR)
2. Water Electrolysis
3. Biomethanation
4. Coal Gasification

Advantages
• High Purity
• High Efficiency

Disadvantages
• High Pressure
• High Temperature

Properties
• Colorless
• Odorless
• Non-toxic
• Non-flammable
• High Purity
• High Efficiency

Uses of H₂
• Hydrogenation
• Hydrogenation of Alkenes
• Hydrogenation of Aldehydes
• Hydrogenation of Nitriles
• Hydrogenation of Carboxylic Acids
• Hydrogenation of Esters
• Hydrogenation of Amides
• Hydrogenation of Imines
• Hydrogenation of Oximes
• Hydrogenation of Ketones
• Hydrogenation of Alcohols
• Hydrogenation of Aldehydes
• Hydrogenation of Nitriles
• Hydrogenation of Carboxylic Acids
• Hydrogenation of Esters
• Hydrogenation of Amides
• Hydrogenation of Imines
• Hydrogenation of Oximes
• Hydrogenation of Ketones
• Hydrogenation of Alcohols

CONCLUSION
Hydrogen is a clean and efficient energy carrier. It has many advantages and uses. It is a promising energy carrier for the future.

GPS Map Camera

Google

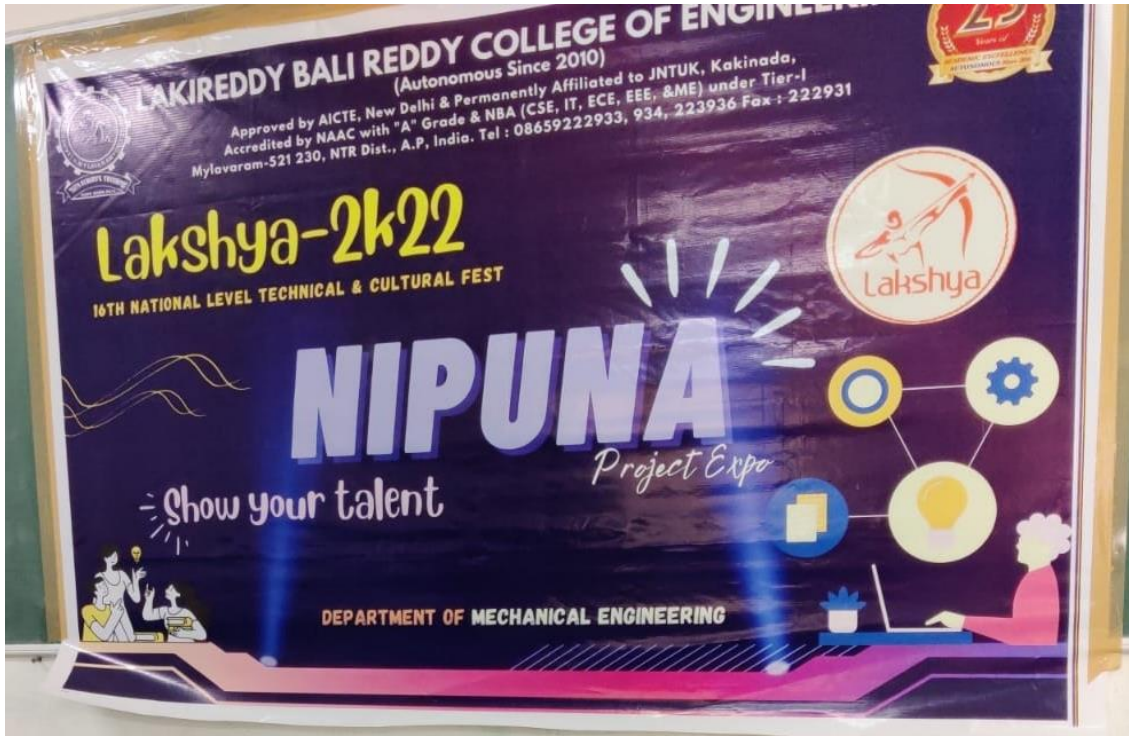
Mylavaram, Andhra Pradesh, India
PJXM+F2W, Mylavaram, Andhra Pradesh 521230, India
Lat 16.748703°
Long 80.632537°
28/12/22 12:51 PM GMT +05:30

MEDHA-QUIZ

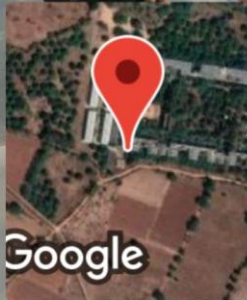




NIPUNA-PROJECT EXPO



GPS Map Camera

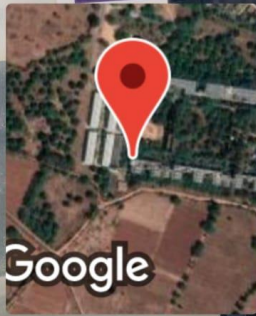


Mylavaram, Andhra Pradesh, India
PJXJ+GP7, Mylavaram, Andhra Pradesh 521230, India
Lat 16.7487°
Long 80.63208°
28/12/22 12:44 PM GMT +05:30





GPS Map Camera



Mylavaram, Andhra Pradesh, India
LBRCE Mechanical Block, Mylavaram, Andhra Pradesh
521230, India
Lat 16.748919°
Long 80.632114°
28/12/22 01:16 PM GMT +05:30

YANTHORA-SPECIAL EVENT



WINNERS



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Roddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

Department of Mechanical Engineering

Date: 28/12/2022

LAKSHYA2K22-Event wise Winners List

SRUJANA (Paper Presentation)

S.No	Name of the Student (in Capital letters)	College Name	Prize
1	T. GANESH KUMAR	VR Siddhanta Engg College Vijayawada	I prize
2		LBRCE, Mylavaram.	II prize
3	SK. Sadwik	LBRCE, Mylavaram.	
4	K. Hardwik	LBRCE, Mylavaram.	
5			III prize
6			

PRAGNA(Poster Presentations)

S.No	Name of the Student (in Capital letters)	College Name	Prize
1	K. VENKATESH,	LBRCE	I prize
2	L. YESWANTH		
3	K. TARUN	R.K. College of Engg Vijayawada	II prize
4		Vijayawada	
5			III prize
6			

Lakshya Coordinator

I/C
Head of the Department

MEDHA (Technical Quiz)

S.No	Name of the Student (in Capital letters)	College Name	Prize
1	R.TIRUPATHISWAMI	NRI	I prize
2	K.SAKETH		
3	K.S.D.PRASAD	LBRCE	II prize
4	K-SHIVASHANKAR		
5	A.S.Y.N.V.VARDHAN	LRCE	III prize
6	K.V.S.YESHWANTH KUMAR		

NIPUNA (Project Expo)

S.No	Name of the Student (in Capital letters)	College Name	Prize
1	N.HOHAN VANSI	LRCE	I prize
2	A.HARIKA		
3			II prize
4			
5			III prize
6			


Lakshya Coordinator


Head of the Department