



# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

(AUTONOMOUS)

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

Accredited by NAAC with "A" grade

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



## ME-MANUFACTURING ENGINEERING

2023-2024

| S.NO | REG.NO       | STUDENT NAME   | PROJECT | INTERNSHIP | FIELD VISIT |
|------|--------------|----------------|---------|------------|-------------|
| 1.   | 731222410001 | JAGADEESH M    | ✓       | ✓          | ✓           |
| 2.   | 731222410002 | MITTU S THAMPI | ✓       | ✓          | ✓           |
| 3.   | 731222410003 | MUKILAN S      | ✓       | ✓          | ✓           |
| 4.   | 731223410002 | VINOTH KUMAR K |         | ✓          | ✓           |

Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



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**ME-MANUFACTURING ENGINEERING**

**PROJECT BATCH LIST (2023-2024)**

| S. No | REGISTER NUMBER | NAME LIST      | PROJECT TITLE  | GUIDE NAME        |
|-------|-----------------|----------------|--|-------------------|
| 1.    | 731222410001    | JAGADEESH M    | EXPERIMENTAL INVESTIGATION ON PERFORMANCE OF SINGLE CYLINDER DIESEL ENGINE WITH MULLITE AND ALUMINUM TITANATE AS THERMAL BARRIER COATING | Mr.V.MAGESH M.E., |
| 2.    | 731222410002    | MITTU S THAMPI | STUDY THE EFFECT OF BIONIC STRUCTURE IN LIGHT WEIGHT POLYMER MATERIAL  | Mr.V.MAGESH M.E., |
| 3.    | 731222410003    | MUKILAN S      | MECHANICAL BEHAVIOUR OF NATURAL FIBER HYBRID COMPOSITE MATERIAL  | Mr.V.MAGESH M.E., |

**Principal**

**J.K.K.Munirajah College of Technology**  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**EXPERIMENTAL INVESTIGATION ON  
PERFORMANCE OF SINGLE CYLINDER DIESEL  
ENGINE WITH MULLITE AND ALUMINUM  
TITANATE AS THERMAL BARRIER COATING**

**PHASE II REPORT**

*Submitted by*

**JAGADEESH M**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING IN  
MANUFACTURING ENGINEERING**



**J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY  
T.N. PALAYAM, GOBI-638 506.  
DEPARTMENT OF MANUFACTURING ENGINEERING  
ANNA UNIVERSITY, CHENNAI**

**AUGUST 2024**

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (T<sub>c</sub>),  
Erode (Dt) - 638 506.**

# ANNA UNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

Certified that this Report titled "EXPERIMENTAL INVESTIGATION ON PERFORMANCE OF SINGLE CYLINDER DIESEL ENGINE WITH MULLITE AND ALUMINUM TITANATE AS THERMAL BARRIER COATING" is the bonafide work of JAGADEESH M (Reg.No.7312222410001) who carried out the work under my supervision. Certified further that to the best of my knowledge and the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

  
SIGNATURE

**Mr. V. MAGESH M.E.,**  
**HEAD OF THE DEPARTMENT**  
Assistant Professor  
Dept of Manufacturing Engineering  
JKK Munirajah College of Technology  
T.N.Palayam.

  
SIGNATURE

**Mr. V. MAGESH M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Dept of Manufacturing Engineering  
JKK Munirajah College of Technology  
T.N.Palayam

Submitted for the Viva-Voce examination held on 16.08.2024.

  
Internal Examiner

  
External Examiner

  
Principal

**J.K.K. Munirajah College of Technology**  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**ABSTRACT**

The thermal efficiency of most commercially used engine ranges from 38% to 42%, as nearly 58% to 62 % of energy is lost of heat. Nearly 30% is retained in exhaust gas and the remaining is removed in cooling water/air, in order to save that energy the hot parts are insulated TBC.TBC is that ceramic is better than the conventional materials. CaZrO<sub>3</sub>, Mullite and Al<sub>2</sub>O<sub>3</sub> -ZrO<sub>2</sub> are some of the ceramic materials used as TBC. A four stroke single cylinder Kirloskar diesel engine is selected for carrying out of the experiment. Mullite and aluminum titanate is used on the piston head by plasma spray process for the performance characteristics of the engine with and without TBC under various loading condition. Thermal barrier coatings (TBC) provide the potential for higher thermal efficiencies of the engine, improved combustion and reduced emissions. The purpose of using these materials is to reduce the heat loss from engine. As the experimental investigation results of significant reduction in specific fuel consumption is 1.4% and effective improvement in brake thermal efficiency is 1.1%.

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## CHAPTER 7

### CONCLUSION

#### 7.1 CONCLUSION

The main conclusions drawn from present experimental investigation on (Mullite + aluminum titanate coated) and conventional diesel engines are as follows.

Coated engine with 0.35 mm of Mullite+ aluminum titanate insulation coating on piston crown exhibits lower brake specific fuel Consumption than the conventional diesel engine. This insulation coating exhibits the brake specific fuel consumption very close to conventional engine with deviation by about 1.4% higher at full engine load. The brake thermal efficiency for LHR engine is higher by about 1.1 % than the conventional diesel engine at full engine load level. The Reduction in heat transfer leads to increase in combustion temperature, which leads to Better combustion. The higher combustion temperature will lead to more expansion Work. Finally the combustion chamber temperature increases the thermal efficiency of the engine also increases.

  
Principal  
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T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**STUDY THE EFFECT OF BIONIC STRUCTURE IN  
LIGHT WEIGHT POLYMER MATERIAL**

**PROJECT REPORT**

*Submitted by*

**MITTU S THAMBI**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING IN  
MANUFACTURING ENGINEERING**



**J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY  
T.N. PALAYAM, GOBI-638 506.  
DEPARTMENT OF AUTOMOBILE ENGINEERING  
ANNA UNIVERSITY, CHENNAI**

**AUGUST 2024**

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

**ANNA UNIVERSITY, CHENNAI****BONAFIDE CERTIFICATE**

Certified that this Report titled **"STUDY THE EFFECT OF BIONIC STRUCTURE IN LIGHT WEIGHT POLYMER MATERIAL"** is the bonafide work of **MITTU S THAMBI (Reg.No.7312222410002)** who carried out the work under my supervision. Certified further that to the best of my knowledge and the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

  
SIGNATURE

Mr.V.MAGESH M.E.,

**HEAD OF THE DEPARTMENT**

Assistant Professor

Dept of Manufacturing Engineering

JKK Munirajah College of Technology

T.N.Palayam.

  
SIGNATURE

Mr.V.MAGESH M.E.,

**SUPERVISOR**

Assistant Professor

Dept of Manufacturing Engineering

JKK Munirajah College of Technology

T.N.Palayam

Submitted for the Viva-Voce examination held on 16/08/24  
Internal Examiner  
External Examiner  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## ABSTRACT

Research into the manufacture of lightweight automobiles is driven by the need to reduce fuel consumption to preserve decreasing hydrocarbon resources without compromising other attributes such as safety, performance, recyclability and cost. Design of structure plays an important role against this background, since significant weight decrease is made possible through the development of various bionic structures and more precise adjustment of material parameters to the functional requirements of components. They are finding that every 10% reduction in vehicle weight can cut fuel consumption by about 7%. In concept automobile components which have the scope of weight reduction identified the survey. As a pilot study five automobile components such as car window handle, gear rod, steering core, steering column, and alloy wheel were selected. Bionic structure was developed and analyzed for all five components using SolidWorks design software. Specimens for a gear rod, steering column and steering core were manufactured on a 3D printer for existing and honeycomb structure. Both specimens were analyzed to evaluate the mechanical properties such as compressive, hardness and tensile strengths. The result is honeycomb specimen mechanical properties are almost very nearly to solid specimen. So it is concluded that by using bionic honeycomb structure for all five components which gives equivalent strength.

**Keywords:** Automobile Components, Redesigning, Weight Reduction



**Principal**

**J.K.K. Munirajah College of Technology  
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## CHAPTER 8

### CONCLUSION

#### 8.1 CONCLUSION

The main goal with this work has been to develop honeycomb structures for automobile parts by computational design and analysis. The work has shown that honeycomb structures such as are weight efficient. The bionic honeycomb structures are given more efficient of weight and strength. The sample 3D printing specimen solid and honey comb weight is 28.4g and 15.1g. The reduce weight will be around 46 % but they are compared strength and weight ratio the bionic honeycomb structures less weight and also give equivalent strength. So in this concept to apply bionic honeycomb structures for gear rod, window handle, steering column, steering core, alloy wheel to reduce 17.3 kg of weight. The automobile survey report find 100 kg mass reduction achieved on a car saves 9 grams of exhaust gas per km. Reducing weight by 100 kg leads to a fuel savings of 0.35l lit /100 km and 8.4 g CO<sub>2</sub>/km with gasoline engines if taking into account an adjustment of the gear shifting without a change in elasticity and acceleration values due to the lower weight. So 17.3 kg of weight reduction in a car saves 1.7 grams of exhaust gas and 1.5g CO<sub>2</sub> per km. To use advance manufacturing method 3D printing is reduce material cost, machine cost, post processing and minimizing the overall cost. And also using advance manufacturing technology like 3D printing to get better result for minimizing overall cost.



Principal

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**MECHANICAL BEHAVIOUR OF NATURAL FIBER  
HYBRID COMPOSITE MATERIAL**

**PROJECT REPORT**

*Submitted by*

**MUKILAN S**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING IN  
MANUFACTURING ENGINEERING**



**J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY  
T.N. PALAYAM, GOBI-638 506.  
DEPARTMENT OF AUTOMOBILE ENGINEERING  
ANNA UNIVERSITY, CHENNAI**

**AUGUST 2024**



**Principal**

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T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

# ANNA UNIVERSITY, CHENNAI

## BONAFIDE CERTIFICATE

Certified that this Report titled "MECHANICAL BEHAVIOUR OF NATURAL FIBER HYBRID COMPOSITE MATERIAL" is the bonafide work of MUKILAN S (Reg.No.731222410003) who carried out the work under my supervision. Certified further that to the best of my knowledge and the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.


  
SIGNATURE

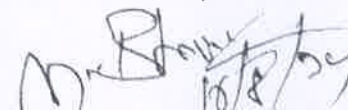
**Mr.V.MAGESH M.E.,**  
**HEAD OF THE DEPARTMENT**  
Assistant Professor  
Dept of Automobile Engineering  
J.K.K Munirajah College of Technology  
T.N.Palayam.


  
SIGNATURE

**Mr.V.MAGESH M.E.,**  
**SUPERVISOR**  
Assistant Professor  
Dept of Automobile Engineering  
J.K.K Munirajah College of Technology  
T.N.Palayam.

Submitted for the Viva-Voce examination held on 16/08/2024

  
Internal Examiner

  
External Examiner

  
**Principal**  
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T.N.Palayam, Gobi (Tk),  
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## ABSTRACT

This project is focused on the evaluation of Mechanical properties of palmyra fiber reinforced hybrid composites. The composites were developed using 5% alkali treated and raw Borassus fruit fibers of 5 mm length with epoxy resin by using the hand layup and compression mould technique. Specimens were cut from the fabricated laminate according to the ASTM (American society for Testing & Materials) standards for different experiments. The mechanical testing of composite structures to obtain parameters such as strength and stiffness is a time consuming and often difficult process. Tensile test and compressive test are used to determine the mechanical properties of the materials. Also the mechanical properties were obtained by using the impact, flexural and the hardness test. The izod impact testing showed the impact strength was improved by decreasing the fiber length and by increasing the friction stress between the fiber and the matrix. Fiber morphology and the fiber/matrix interface were further characterized by Scanning Electron Microscopic (SEM) Test.

*Keywords: Palmyra Fiber, Glass Fiber, Epoxy Resin, Mechanical properties,*

*SEM*



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## CHAPTER 7

### CONCLUSION

The mechanical properties of composites were investigated. The impact test, flexural test, Hardness test, tensile test, and SEM analysis were conducted on the specimen and following conclusions were arrived at.

- Out of the six specimens the impact strength of T3 hybrid polymer matrix samples was found improved upto 15% than the rest of the samples.
- The flexural strength of T3 ratio samples was found improved upto 30% than the remaining sample. The flexural strength is noticed as 48.7N of this sample.
- The tensile strength of T3 specimen was found better than the other five specimen. Similarly the Eng stress values corresponding to the strain values of T3 specimen was better than other.
- The fourier transform infrared spectroscopy conformed the existence of O-H bonds at the peaks between  $3000\text{cm}^{-1}$  to  $3500\text{cm}^{-1}$  this indicates strong bonding strength of this composites.
- The SEM analysis revealed the good bonding strength of glass fiber with the matrix. The fiber breakage, presence of debris also confined the same.



Principal  
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**ME-MANUFACTURING ENGINEERING**

**INTERNSHIP DETAILS (2023-2024)**

| S.N<br>O | REGISTER<br>NO | NAME OF THE<br>STUDENT | NAME OF THE<br>COMPANY                 | LOCATION | DATE                           |
|----------|----------------|------------------------|--|----------|--------------------------------|
| 1.       | 731222410001   | JAGADEESH M            | QUEEN INDIA<br>ENGINEERING<br>SERVICES | ERODE    | 18.12.2023<br>to<br>22.12.2023 |
| 2.       | 731222410002   | MITTU S THAMPI         |  |          |                                |
| 3.       | 731222410003   | MUKILAN S              |  |          |                                |
| 4.       | 731223410002   | VINOTH KUMAR K         |  |          |                                |

Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



## Internship

1 message

MON 4 DEC 2023 at 09.40 AM

From: SRIRAM<hodmech@jkkmct.edu.in>

Date: MON 4 DEC 2023 at 09.40 AM

Subject: Requesting Internship -reg

To: QUEEN INDIA ENGINEERING SERVICES< info@queenindiaengineeringservices.com >

Dear Sir,

I am writing to request an opportunity for internship at **QUEEN INDIA ENGINEERING SERVICES** on behalf of the following students:

**1. JAGADEESH M, 2.MITTU S THAMPI, 3.MUKILAN S and 4.VINOTH KUMAR K**

The students are enthusiastic and well-prepared to meet the requirements of your esteemed organization. The **internship** aligns with their academic training and career aspirations, and they are eager to contribute meaningfully to your projects while gaining valuable learning experiences from your skilled team.

The students are committed to completing all required documentation, including insurance forms and other formalities for the internship orientation. They look forward to working with your team, observing your esteemed staff, and gaining insight into the exceptional practices at **QUEEN INDIA ENGINEERING SERVICES**.

Thank you for considering this request. We greatly appreciate your confidence in providing them the opportunity to collaborate with your organization.

Sincerely,


Mr.K.Sriram, HoD/MECH

J K K.Munirajah College of Technology,

T.N.Palayam,

Erode-638506,

Tamilnadu.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



## Internship

1 message

TUE 12 DEC 2023 at 10.20 AM

From: QUEEN INDIA ENGINEERING SERVICES <info@queenindiaengineeringservices.com >

Date: TUE 12 DEC 2023 at 10.20 AM

Subject: Acceptance of Internship-reg

To: SRIRAM <hodmech@jkkmct.edu.in>

Dear Sir,

I am writing to formally confirm my acceptance of your internship offer for the period from **18.12.2023 to 22.12.2023**. I am pleased about the opportunity to join **QUEEN INDIA ENGINEERING SERVICES** and contribute to your esteemed organization.

The **internship** requirements align perfectly with my skills and career aspirations. I am confident that I can make a meaningful contribution to your organization while gaining valuable experience. Additionally, I will complete all necessary insurance forms and other documentation required for the new intern orientation as per your instructions.


I am excited to collaborate with you and your team. Thank you for placing your trust in me and providing me with this wonderful opportunity. I also take this opportunity to refer the following students for your consideration:

**1. JAGADEESH M, 2. MITTU S THAMPI, 3. MUKILAN S and 4. VINOTH KUMAR K**

Thank you once again for this opportunity. I look forward to joining and contributing to your organization.

Sincerely,

The Managing Director,  
Queen India Engineering Services,  
Erode.

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506:



# QUEEN INDIA

ENGINEERING SERVICES

## Internship Certificate

This is to certify that **Mr.JAGADEESH M, II<sup>nd</sup> year**  
**Manufacturing Engineering** of **JKK Munirajah College**  
of **Technology** has **successfully** completed  
**internship** Program on **Non-Destructive Testing**  
**(NDT)** from **18.12.2023 to 22.12.2023** During the  
above mentioned period the attendance and  
conduct of the student are found to be good.  
We wish him every success in his life and career

Erode

22.12.2023

FOR QUEEN INDIA ENGINEERING SERVICES,



Principal

J.K.K.Munirajah College of Technology  
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T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

Office Address: 247, First Floor, KCL Building, Bhavani Main Road, Asokapuram, Erode - 638 004.

Mail ID: [info@queenindiaes.com](mailto:info@queenindiaes.com) Website: [www.queenindiaes.com](http://www.queenindiaes.com) Phone: 0424 - 4061631

Mobile: +91 7373647070



# QUEEN INDIA

ENGINEERING SERVICES

## Internship Certificate

This is to certify that **Mr.MITTU STHAMPI**, II<sup>nd</sup> year Manufacturing Engineering of JKK Munirajah College of Technology has successfully completed **internship** Program on Non-Destructive Testing (NDT) from **18.12.2023 to 22.12.2023**. During the above mentioned period the attendance and conduct of the student are found to be good. We wish him every success in his life and career.

Erode

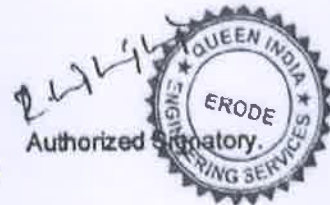
22.12.2023

FOR QUEEN INDIA ENGINEERING SERVICES,

Principal

J.K.K.Munirajah College of Technology  
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T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Office Address: 247, First Floor, KCL Building, Bhavani Main Road, Asokapuram, Erode - 638 004.

Mall ID: [info@queenindiaes.com](mailto:info@queenindiaes.com) Website: [www.queenindiaes.com](http://www.queenindiaes.com) Phone: 0424 - 4061631

Moblie: +91 7373647070



# QUEEN INDIA

ENGINEERING SERVICES

## Internship Certificate

This is to certify that **Mr.MUKILAN S**, II<sup>nd</sup> year Manufacturing Engineering of **JKK Munirajah College of Technology** has successfully completed **internship** Program on Non-Destructive Testing (NDT) from **18.12.2023 to 22.12.2023**. During the above mentioned period the attendance and conduct of the student are found to be good. We wish him every success in his life and career.

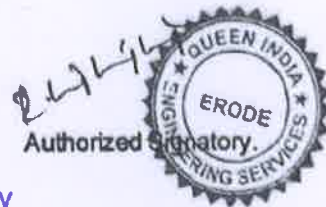
Erode

22.12.2023

FOR QUEEN INDIA ENGINEERING SERVICES,

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506





# QUEEN INDIA

ENGINEERING SERVICES

## Internship Certificate

This is to certify that **Mr. VINOTH KUMAR K**, 1<sup>st</sup> year Manufacturing Engineering of **JKK Munirajah College of Technology** has successfully completed **internship** Program on **Non-Destructive Testing (NDT)** from **18.12.2023 to 22.12.2023**. During the above mentioned period the attendance and conduct of the student are found to be good. We wish him every success in his life and career.

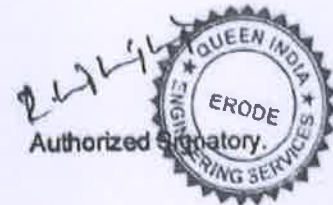
Erode

22.12.2023

FOR QUEEN INDIA ENGINEERING SERVICES,

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.





# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY (AUTONOMOUS)

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Accredited by NAAC with "A" grade

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## ME-MANUFACTURING ENGINEERING

### INDUSTRIAL VISIT DETAILS (2023-24)

| S.NO | REGISTER NO  | NAME OF THE STUDENT | NAME OF THE COMPANY    | LOCATION | DATE       |
|------|--------------|---------------------|------------------------|----------|------------|
| 1.   | 731222410001 | JAGADEESH M         | SRI LAKSHMI INDUSTRIES | SALEM    | 24.09.2023 |
| 2.   | 731222410002 | MITTU S THAMPI      |                        |          |            |
| 3.   | 731222410003 | MUKILAN S           |                        |          |            |
| 4.   | 731223410002 | VINOTH KUMAR K      |                        |          |            |

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



---

**Industrial Visit**

1 message

---

WED 06 SEP 2023 at 10.30 AM

From: SRIRAMKS <hodmech@jkkmct.edu.in>

Date: WED 06 SEP 2023 at 10.30 AM

Subject: Requesting Industrial Visit -reg

To: SRI LAKSHMI INDUSTRIES <srilakshmiindustrials@gmail.com>

**Dear Sir,**

We are at JKK Munirajah College of Technology are very keen in providing industrial exposure to our students to actual industrial atmosphere will help the students in developing their knowledge and technical skills. So I request you to give us permission for first, second year ME-Manufacturing engineering students and second, third year students with three faculties of B.E Mechanical engineering to visit your company on 22.09.2023.

Yours faithfully,

Head of the Department,  
Department of Mechanical Engineering,  
JKK Munirajah College of Technology,  
T.N.Palayam, Erode-638506  
Tamilnadu.

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Industrial Visit**

1 message

FRI 14 SEP 2023 at 2.20 PM

From: SRI LAKSHMI INDUSTRIES <srilakshmiindustrials@gmail.com>


Date: FRI 14 SEP 2023 at 2.20 PM

Subject: Accepting for Industrial Visit-reg

To: SRIRAMKS<hodmech@jkkmct.edu.in>

**Dear Sir,**

This is to inform your department first, second year ME-Manufacturing engineering students and second, third year students with three faculties of B.E Mechanical engineering of your college is granted permission for their industrial visit which will be on 22.09.2023 in our company. So kindly make necessary arrangements for the same.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk)  
Erode (Dt) - 638 50

Sincerely,

HR Manager,  
Sri Lakshmi Industries,  
Salem- 638005  
Tamil Nadu, India



# SRI LAKSHMI INDUSTRIES

(We Shaping the Future with Precision and Passion)

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that B.E(Second Year, Third Year & Final Year),  
M.E ( First Year, Second Year) Mechanical Engineering &  
Manufacturing Engineering students of J.K.K. Munirajah College  
of Technology, T.N.Palayam were undergone the Industrial Visit at  
Sri Lakshmi Industries, Salem on 22.09.2024 as per the company  
norms and regulations completed successfully.

THANK YOU

SRI LAKSHMI INDUSTRIES

### CONTACT US

Sri Lakshmi Industries

Contact Person: Venkatesh

260 Periyandi Lane, Steelplantroad, Solampallam

Salem - 636005, Tamil Nadu, India

+91-8048250384

<https://www.sri-lakshmi-industries-salem/>

PAN number : AHWPT8152H and GST Number : 33AHWPT8152H1ZO.

Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



GPS Map Camera

Salem, Tamil Nadu, India

Sri Lakshmi Industries, SP Road, Salem, Tamil Nadu 636005

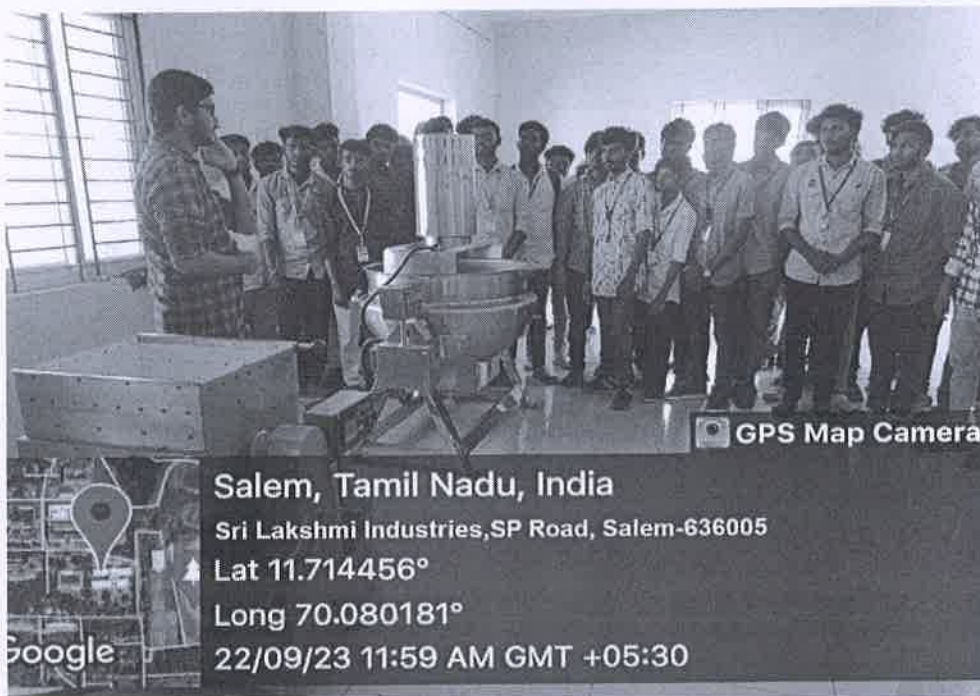
India

Lat 11.714439°

Long 70.080181°

22/09/23 12:29 PM GMT +05:30

Google



GPS Map Camera

Salem, Tamil Nadu, India

Sri Lakshmi Industries, SP Road, Salem-636005

Lat 11.714456°

Long 70.080181°

22/09/23 11:59 AM GMT +05:30

Google

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