



# KARPAGA VINAYAGA

## COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai and Accredited by NAAC)  
GST Road, Chinnakolambakkam, Madhuranthagam Taluk, Chengalpattu District – 603 308, Tamil Nadu

**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process**

S.No	Student Centric Method
<b>Experiential Learning</b>	
1.	Industrial Visit
2.	Internship/In-plant Training
3.	Hands on training
4.	Practical Sessions
5.	Project based learning
6.	Guest Lectures and Workshops
<b>Participative Learning</b>	
7.	NPTEL/COURSERA/MOOCs
8.	Club Activities
9.	Peer Learning
10.	Seminar Presentation
11.	Role Play
12.	Hackathons
13.	Students Participation in External events



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Problem Solving Methodologies	
14.	Assignments
15.	Case Studies/Quizzes
16.	Tutorials
17.	Value Added Courses
18.	Debates

A handwritten signature in green ink, likely belonging to the Principal, is written over the printed name.

Principal

Karpaga Vinayaga College of Engineering and Technology  
Chinnakolambakkam, Madhuranthagam T.k - 603 308  
Chengalpattu District



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### Experiential Learning – 1. Industrial Visit

#### Sample Photos:







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**KARPAGA VINAYAGA** | MEDICINE  
DENTISTRY  
ENGINEERING  
NURSING  
EDUCATIONAL GROUP



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### Experiential Learning – 2. Internship



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25.1.2023

K.L.Lakshmi Prabha  
Professor & Head  
Department of Electrical Engineering

To

The General Manager  
Learning and Development Centre  
NLC India Limited  
Neyveli

Dear sir/Madam,

SUB: Requisition letter – Internship Training for our students – reg

On behalf of Karpaga Vinayaga College of Engineering & Technology, I would like to propose and request for Internship in your esteemed organization for II year students of my Electrical Engineering department. The internship will be useful to the students to fill the Curriculum gap, if it is granted. Kindly, consider this letter and do the needful at the earliest. The details of the students are following

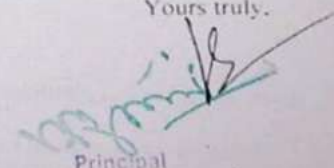
S.No	Name of the student	Academic status
1.	Santhoshkumar.G	II – YEAR – B.E – Electrical and Electronics Engineering
2.	Saravanan.K	II – YEAR – B.E – Electrical and Electronics Engineering
3.	A.K.Sulaiman Basha	II – YEAR – B.E – Electrical and Electronics Engineering
4.	R.Praveen	II – YEAR – B.E – Electrical and Electronics Engineering
5.	G.Haritharan	II – YEAR – B.E – Electrical and Electronics Engineering
6.	S.Yuvaraj	II – YEAR – B.E – Electrical and Electronics Engineering
7.	D.Yuvaraj	II – YEAR – B.E – Electrical and Electronics Engineering
8.	A.Dhanush	II – YEAR – B.E – Electrical and Electronics Engineering
9.	Antony Joe Arul.V	II – YEAR – B.E – Electrical and Electronics Engineering

Thanking you,

Yours truly,

  
Coordinator IQAC

Karpaga Vinayaga College of Engineering and Technology  
Chinnakolambakkam, Madhuranthagam Taluk - 603 308  
Chengalpattu District

  
Principal

Karpaga Vinayaga College of Engineering and Technology  
Chinnakolambakkam, Madhuranthagam Taluk  
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### NLC India Limited

(Formerly Neyveli Lignite Corporation Limited) ("NAYVATHA" - Government of India Enterprise)  
OFFICE OF THE GENERAL MANAGER, LEARNING & DEVELOPMENT CENTRE,  
BLOCK - 28, NEYVELI - 605 053  
E-mail: gm.ldc@nclindia.in Tele-fax: 04142 - 228452 Website: www.nclindia.in

G28

Lt. No. GM/L&D/UG/IST/2232/1795-1803/KVCETC/2022-23.

Dated: 01.02.2023


To

THE CHIEF GENERAL MANAGER,  
TPS-II,  
NLC INDIA LIMITED,  
NEYVELI.

Respected Sir,

Sub: L&DC - Permission for doing Internship Training at NLCIL - Reg.  
Ref No: College requestion letter, Dt. 31.01.2023.

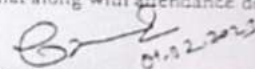
The following students are permitted to do internship training, as detailed below.

NAME OF THE STUDENT	COURSE/YEAR	COLLEGE/INSTITUTION
1. SANTHOSH KUMAR G		KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY, CHENGALPATTU.
2. SARAVANAN K		
3. SURJYA S		
4. YUVARAJ D		
5. YUVARAJ S		
6. SULAIMAN BASHA A K		
7. DHANUSH A		
8. ANTONY JOE ARUN V		
9. PRAVEEN R		
TOPIC	TRANSFORMER AND ESP.	
PERIOD	02.02.2023 to 15.02.2023 03 weeks	
GUIDE	SHRI KALAISELVAN C/DEE/ELE/OS/CPE NO: H4208/TPS-II/NLCIL.	

The above students are directed to report to the CHIEF GENERAL MANAGER/TPS-II/NLCIL.

Three days before the completion of the Internship Training, the students are advised to report to the Learning & Development Centre with the DRAFT TRAINING REPORT for approval.

After approval, the Internship Training report shall be presented in the final format along with attendance details and relieving order.

  
CHIEF MANAGER/TPS-II/NLCIL  
LEARNING & DEVELOPMENT CENTRE.

Chief Manager  
Learning & Development Centre  
NLC India Limited, Neyveli-01.

To

The students concerned.

The students are instructed and adhere to safety rules and Covid-19 protocol

Copy to the Asst. Commandant, (CISF) of TPS-II.

Copy to the Unit HOHR, TPS-II.

Copy to the Guide

Copy to the COLLEGE / UNIVERSITY.

Copy Submitted to the Chief General Manager/TA with a request to provide the accommodation facilities to the above student (s) for the above-mentioned period.



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CREATING WEALTH  
FOR WELLBEING

NLC INDIA LIMITED

" NAVRATNA – A GOVERNMENT OF INDIA ENTERPRISE "

CERTIFICATE

This is to certify that

ANTONY JOE ARUN V

Studying his Bachelor of Engineering in Electrical and Electronics Engineering in

KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY,  
CHINNAKOLAMBAKKAM, PADALAM – 603308

Has undergone Internship Training titled

" Transformer and ESP "

During the period from 02/02/2023 to 15/02/2023 at MINE – II,

NLC INDIA LIMITED, NEYVELI.

15.02.2023  
NEYVELI

CHIEF MANAGER  
LEARNING AND DEVELOPMENT CENTRE  
NLC INDIA LIMITED, NEYVELI.





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### Experiential Learning – 3. Hands on Training







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### Experiential Learning – 4. Practical Sessions





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### Experiential Learning – 5. Project based learning







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### Experiential Learning – 6. Guest Lectures and Workshops





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### Participative Learning – 7. NPTEL/COURSERA/MOOCs



Elite

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**A ARUNITHA**  
for successfully completing the course

**Introduction to Industry 4.0 and Industrial Internet of Things**

with a consolidated score of **80** %

Online Assignments	24.13/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: 9534

**Jul-Oct 2023**  
(12 week course)



**Prof. Haimanti Banerji**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



**swayam**  
National Platform for Online Education

Roll No: NPTEL23CS82543346326

To verify the certificate



No. of credits recommended: 3 or 4

### Participative Learning – 8. Club Activities







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International Coffee Day celebration by Culinary Club. Our students learnt to prepare cappuccino style latte recipes and relished the delicious foamy coffees. The potential health benefits associated with drinking coffee were explained....



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### Participative Learning – 9. Peer Learning







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### Participative Learning – 10. Seminar Presentation

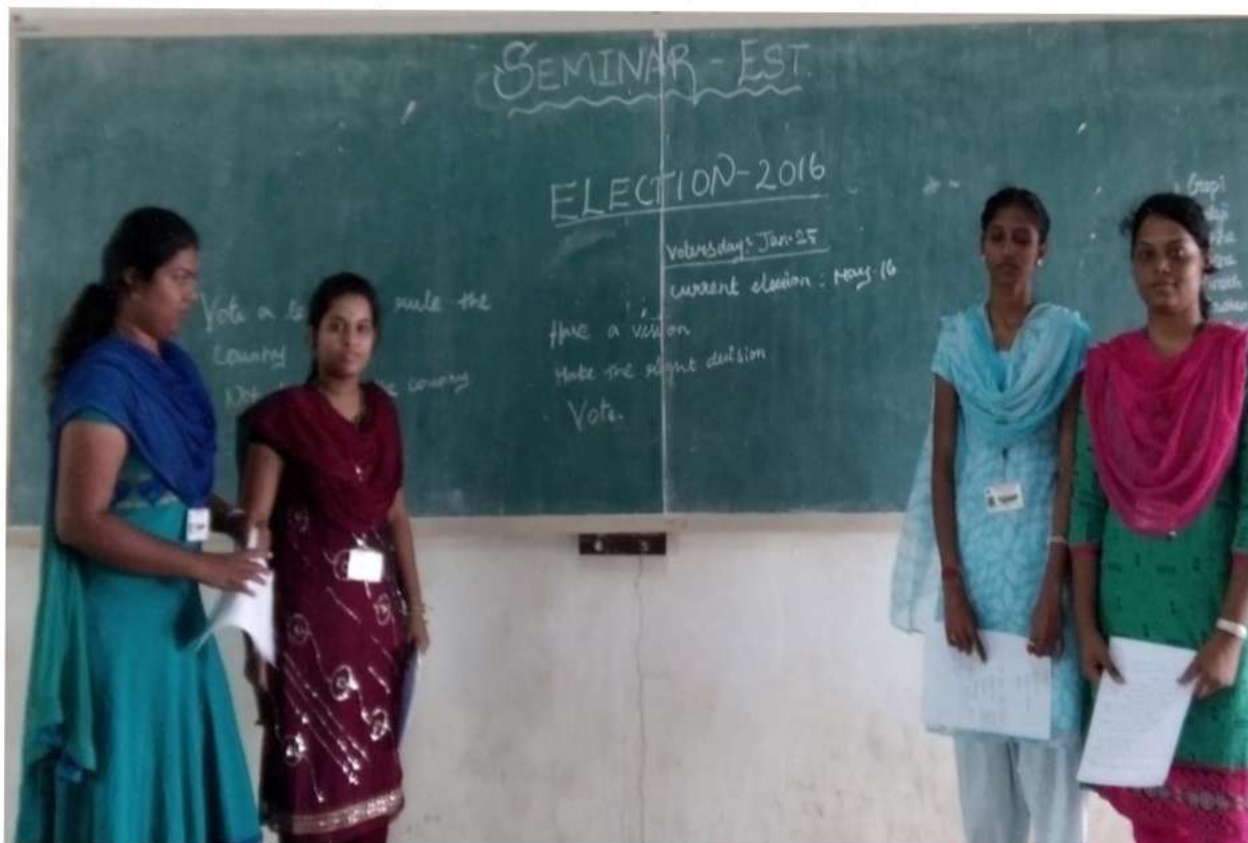




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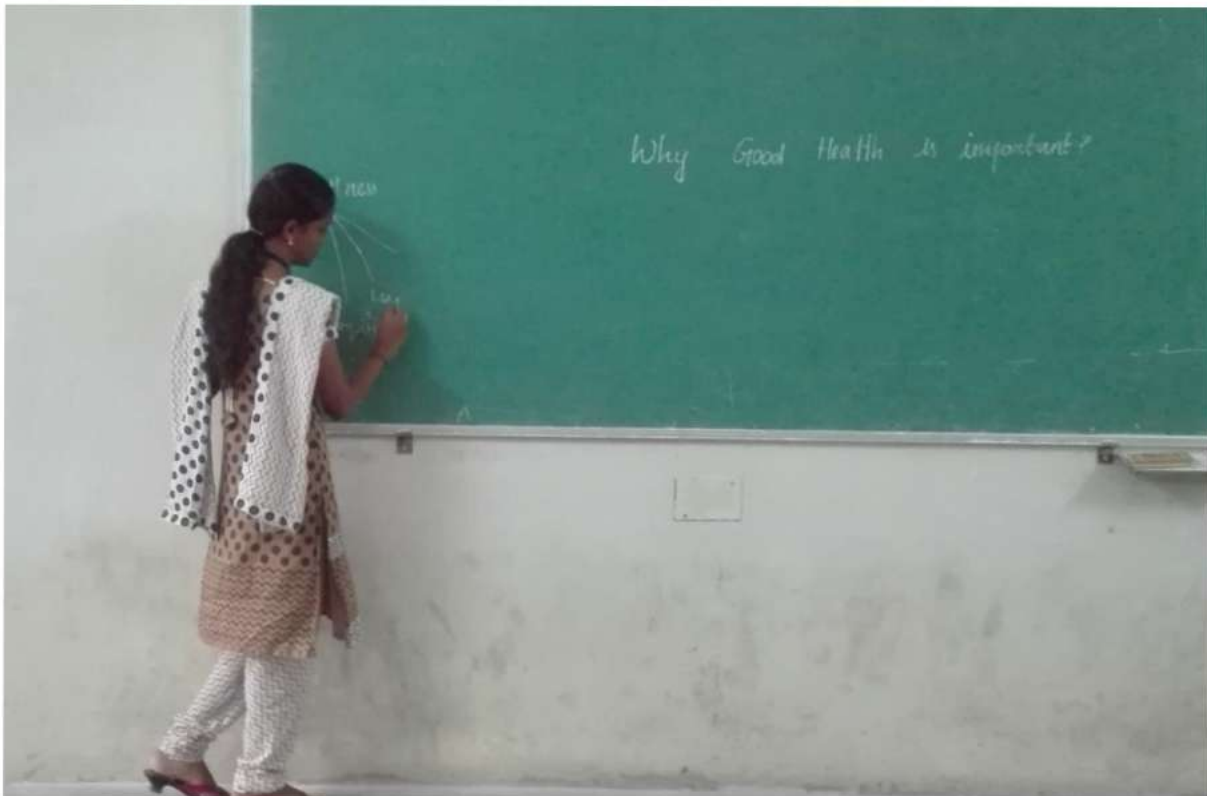
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### Participative Learning – 13. ROLE PLAY - Pair Activity



### Mind Map





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### FOYER ACTIVITY







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### Participative Learning – 14. Students Participation in External events



Final Year Students K.Chinthamani and N.Ayyapan got **First Prize in Paper Presentation**



Third year student Sunilraj got **Second Prize in Paper Presentation**



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### Problem Solving Methodologies -15. Assignments

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ASSIGNMENT - I / II / III							
Student Name: <u>G. MOHAN</u>				Register Number: <u>1421222114007</u>			
Academic Year: <u>2023 - 2024</u>				Semester/Section: <u>3rd</u>			
Course Name & Code: <u>ENGINEERING, MATE RIAL &amp; METALLURGY / ME3302</u>				Assignment Number: <u>1</u>			
Course Instructor: <u>pramekumar . R</u>							
Assignment Due Date: <u>4/11/23</u>				Hand In Date: <u>10/11/23</u>			
Assignment Title: <u>Iron car body diagram, TTT diagram, alloy steel</u>							
Declaration of Originality							
I certify that:							
<ul style="list-style-type: none"><li>• This assignment is my own work, based on my personal study and/or research.</li><li>• I have acknowledged all material and sources used in the preparation of this assignment.</li><li>• I have not copied in part, or in whole, or otherwise plagiarized the work of other students.</li></ul>							
Signature of Student: <u>Mohan .</u>							
Faculty Feedback							
Strengths: <u>Handwriting Good</u>				Areas for improvement: <u>Need more points</u>			
Mapped COs	CO1	CO2	CO3	CO4	CO5	CO6	Total
Total Marks	20	20	10				50
Marks Awarded:	20	20	10				50
Signature of Course Instructor: <u>R. Pramekumar</u>							



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### Problem Solving Methodologies -16. Case Studies/Quizzes



### STREET PLAY







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### Problem Solving Methodologies -17. Value Added Courses



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### DEPARTMENT OF MECHANICAL ENGINEERING

Three Days Industry Ready  
Skill Development Training (Career Path)

on

Industrial Design  
Visualization & Conceptualization

19<sup>th</sup> to 21<sup>st</sup> September 2022

in association with



#### Course Content

- Approach to overall industrial mechanical design.
- Design sketching & modelling techniques.
- How to modularize mechanical design.
- Difference in design for standard parts and custom design.
- How to arrive at schematics of design.
- Distinguish in design approach between prototype design & product design.
- Understanding how to identify critical and non-critical dimensions.
- Interpret how to predict efficiency and performance issues in design.
- Understand manufacturing sequence and machine tolerance impact in design.
- Impact of design on product endurance.
- Detailed design and drafting in – CADD software.
- Live industry examples ; modules and exercises
- DIY –component / tool / equipment innovative design





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### Problem Solving Methodologies -18. Debates

