

# CMS COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)  
CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003. Tamilnadu, India.  
Contact No: 98433 46065, 84899 10651.  
Website: [www.cmsgroupofinstitutions.in](http://www.cmsgroupofinstitutions.in) Email: [cmscollegeofengg@gmail.com](mailto:cmscollegeofengg@gmail.com), [principal602@gmail.com](mailto:principal602@gmail.com)

## 1.3.2 NUMBER OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/INTERNSHIP FOR THE ACADEMIC YEAR 2021-2022

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2	NUMBER OF STUDENTS ATTENDED	03
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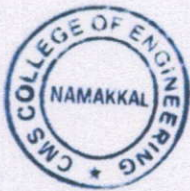
CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003. Tamilnadu, India.

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Website: [www.cmsgroupofinstitutions.in](http://www.cmsgroupofinstitutions.in) Email: [cmscollegeofengg@gmail.com](mailto:cmscollegeofengg@gmail.com), [principal602@gmail.com](mailto:principal602@gmail.com)

This is to certify that the following number of students undertaking project work/field work/internship for the academic year 2022-2023.

Year	No. of Students Undertaking Mini Project	No. of Students Undertaking Field work
2022-2023	35	262
	<b>Total</b>	297
	<b>Unique Students Count</b>	275



Dr. K. MAHADEVAN, B.E., M.E., Ph.D  
PRINCIPAL  
CMS COLLEGE OF ENGINEERING,  
NAMAKKAL-637 003





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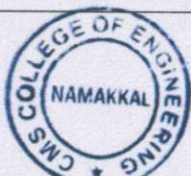
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## NUMBER OF STUDENTS UNDERTAKING PROJECT WORK FIELD WORK/INTERNSHIP FOR THE ACADEMIC YEAR 2022-2023.

Programme name	Program Code	No. of Students undertaking Mini Project	No. of Students undertaking field work
B.TECH- ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	243	-	47
B.E-BIO MEDICAL ENGINEERING	121	-	49
B.E-COMPUTER SCIENCE AND ENGINEERING	104	7	85
BE-ELECTRIC AND ELECTRONIC ENGINEERING	105	8	25
BE-ELECTRONIC AND COMMUNICATION ENGINEERING	106	-	22
BE-MECHANICAL ENGINEERING	114	20	34
		35	262
<b>Total</b>			297
<b>Unique Students Count</b>			297



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1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

1.3.2.1 Number of students undertaking project work/field work / internships

INDUSTIAL VISIT	
S No	DEPARTMENT
1	COMPUTER SCIENCE AND ENGINEERING
2	ELECTRICAL AND ELECTRONICS ENGINEERING & ELECTRONICS AND COMMUNICATION ENGINEERING
3	MECHANICAL ENGINEERING
4	SCIENCE AND HUMANITIES
PROJECT WORK	
S.No	DEPARTMENT
1	COMPUTER SCIENCE AND ENGINEERING
2	ELECTRICAL AND ELECTRONICS ENGINEERING
3	MECHANICAL ENGINEERING





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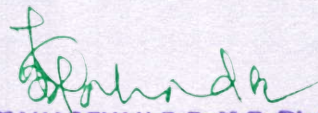
## Summary of students undergone Project Work / Field visit/Internship(2022-23)

S.NO	PROGRAMME NAME	NUMBER OF STUDENTS UNDERTAKING PROJECT WORK	NUMBER OF STUDENTS UNDERTAKING FIELD WORK	NUMBER OF STUDENTS UNDERTAKING INTERNSHIP	UNIQUE LIST
1	B.E COMPUTER SCIENCE AND ENGINEERING	-	30	-	

  
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NAMAKKAL - 637 003.



  
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## PERMISSION LETTER

### From

The Head of Department  
Computer Science and Engineering  
CMS college of Engineering  
Namakkal

### To

The Vice -President  
Chips Software Systems Pvt Ltd  
Ernakulam  
Kerala- 682011

### Respected sir,

**Sub:** Request for one day Industrial Visit - Reg.

We would like to bring to your kind notice that our Computer science and Engineering students need to visit the Chips Software Systems Pvt Ltd., as part of their curriculum. Also we wish to inform that our students are interested to visit your software development methods. Hence, we humbly request you to permit our 30 students accompanied by 2 Faculty members for industry visit on 17.09.2022.

Thank You

Date : 05.09.2022

Place : CMSCE

Yours Sincerely

Head of the Department  
Computer Science and Engineering  
CMS College of Engineering,  
Namakkal-637 003.



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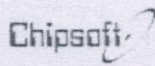
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## Chips Software Systems

(Estd.1993)

W/ IGNOU STUDY CENTRE code 1423 (P)

To,

08<sup>th</sup> September 2022

THE PRINCIPAL  
CMS COLLEGE OF ENGINEERING  
NAMAKKAL

### INDUSTRIAL VISIT

Dear Sir/ Madam,

We are pleased to receive 30 students of CSE Department with accompanying faculty members of your college for an Industrial visit to our IT Centre of our Company on the 17<sup>th</sup> September 2022 .

Let them be here by 10.30 AM on that day.

Let the Students bring a formal request addressed to us, duly signed by yourself or HOD, complete with a proper list of students and accompanying faculty in the group;

We shall be issuing a GROUP participation certificate immediately after the conclusion of the Industrial Visit.

With warm regards

Sincerely

For Chips Software Systems

TUK Menon



Software Development  
BCA/ MCA Student Projects  
Website Design & Registration  
Software Training (in JV with AmitySoft, Chennai)  
and Computer Training

Sahithya Parishath Building, Hospital Road,  
Near Head post office, Ernakulam, Kochi -682 011  
Tel : (0484) 2370942/ 3241436 /2354690  
Email : [mail@chipssoft.com](mailto:mail@chipssoft.com)  
[tukmenon@gmail.com](mailto:tukmenon@gmail.com)  
Website : [www.chipssoft.com](http://www.chipssoft.com)



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## PERMISSION LETTER

### From

The Head of Department  
Computer Science and Engineering,  
CMS college of Engineering,  
Namakkal

### To

The Principal  
CMS College of Engineering  
Namakkal

### Respected sir,

**Sub:** Request for one day Industrial Visit - Reg.

We would like to bring to your kind notice that our Computer science and Engineering students need to visit the Chips Software Systems Pvt Ltd., as part of their curriculum. Hence, we humbly request you to permit our 30 students accompanied by 2 Faculty members for industry visit on 17.09.2022.

Thank you

Date : 09.09.2022

Place : CMSCE

Yours Sincerely

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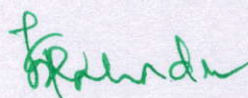
Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

## List of students undertaking project work/internship/field work for the Academic Year 2022-23

### Participation List

SI NO	REGISTER NO	CANDIDATE NAME
1	620521104001	ASHRAF ALI A
2	620521104008	GUNASEKARAN P
3	620521104009	JAYASURYA S
4	620521104011	KAVIYA S
5	620521104012	KEERTHANA M
6	620521104013	KUMARESAN R
7	620521104016	NANDHAKUMAR K
8	620521104017	NAVEENKUMAR P
9	620521104019	NIKITHA M
10	620521104020	NIVETHA R
11	620521104022	PRAKASH S
12	620521104025	SABARI B
13	620521104026	SANJAI A
14	620521104027	SANJAY P
15	620521104028	SUJILKUMAR M
16	620521104301	ANANTH S
17	620521104302	ARULMURUGAN S
18	620521104303	BOOBALAN S



  
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19	620521104304	DINESH M
20	620521104306	KALAISELVAN R
21	620521104308	MEERA C
22	620521104312	SRIMATHI
23	620521104313	VENGATESAN S
24	620520104306	BASKAR V
25	620520104314	MEENATCHI K
26	620520104315	MERCY P
27	620520104316	MONISHA N
28	620520104321	SARANYA V
29	620520104323	SARUMATHI J
30	620520104325	STALIN K



  
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## Department of Computer Science and Engineering

### Field visit Name List

S.NO	REGISTER NO	NAME OF THE STUDENTS	MOBILE NO
1	620521104001	ASHRAF ALI A	9342552346
2	620521104008	GUNASEKARAN P	7094694716
3	620521104009	JAYASURYA S	9629516590
4	620521104011	KAVIYA S	6374462627
5	620521104012	KEERTHANA M	7448927790
6	620521104013	KUMARESAN R	6381731421
7	620521104016	NANDHAKUMAR K	6374358550
8	620521104017	NAVEENKUMAR P	9080085935
9	620521104019	NIKITHA M	9585832353
10	620521104020	NIVETHA R	9514067470
11	620521104022	PRAKASH S	9344860843
12	620521104025	SABARI B	8072475098
13	620521104026	SANJAI A	9360253944
14	620521104027	SANJAY P	8825725069
15	620521104028	SUJILKUMAR M	9025686151
16	620521104301	ANANTH S	7373221287
17	620521104302	ARULMURUGAN S	8110912722
18	620521104303	BOOBALAN S	7010485458



*K. Mahadevan*  
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19	620521104304	DINESH M	9600231788
20	620521104306	KALAISELVAN R	6374609411
21	620521104308	MEERA C	6383196805
22	620521104312	SRIMATHI	9361247362
23	620521104313	VENGATESAN S	6385302800
24	620520104306	BASKAR V	7305700879
25	620520104314	MEENATCHI K	7305849833
26	620520104315	MERCY P	9566944312
27	620520104316	MONISHA N	6385790234
28	620520104321	SARANYA V	8523993157
29	620520104323	SARUMATHI J	9361174795
30	620520104325	STALIN K	9500681237

## Name of the Faculty Members

Mr.S.Dhinesh 90259 70887

Mr.K.Maheshkumar 97901 51814

Mrs.R.Kaviya 73390 95145



  
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Glimpse of CMS students having session inside Chips Software Systems.



Glimpse of CMS students in front of Chips Software Systems Arena.



*K. Mahadevan*  
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## REPORT ON FIELD VISIT

On receiving the permission from Chips Software Systems company in Ernakulam, Kerala. Totally 30 students along with three faculties member from II & III CSE of CMS College of Engineering, Namakkal went to field visit on 17.09.2022.

The company was established in the year 1993 and located in Ernakulam Ho. Chips Software Systems Pvt. Ltd in Ernakulam is one of the leading businesses in the Computer Network Training Institutes and also providing Software publishing. Custom software also includes made-to-order software based on orders from specific users.

The Staff member of Chips Software Systems explained us about the networking concepts involved in computer communication. And show the demo of how data packets delivered from sender to receiver in realistic link method.

Outcomes: Students get more knowledge of networking components and its operation.

Student Coordinator

Faculty Coordinator

HOD-CSE



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## Summary of students undergone Project work / Field visit/ Internship

2022-2023

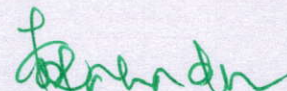
This is to certify that number of students undertaking Project Work / Field work / Internships during the Academic year 2022-2023.

S.NO	PROGRAMME NAME	NUMBER OF STUDENTS UNDERTAKING PROJECT WORK	NUMBER OF STUDENTS UNDERTAKING FIELD WORK	NUMBER OF STUDENTS UNDERTAKING INTERNSHIP	UNIQUE LIST
1	B.E ELECTRONICS AND COMMUNICATION ENGINEERING & B.E ELECTRICAL AND ELECTRONICS ENGINEERING	-	24	-	24

  
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## REQUISITION LETTER

Date :01.03.2023

### From

The Head of the Department  
Electrical and Electronics Engineering  
Electronics and Communication Engineering  
CMS College of Engineering  
Namakkal.

### To

The General Manager  
Seshasayee Paper and Board Limited  
Pallipalayam, Cauvery RSPO  
Erode -638007.



### Requested Sir/Madam,

Sub: Seeking permission for Industrial visit -Reg.


CMS COLLEGE OF ENGINEERING is one of the eminent engineering colleges in Namakkal District run by CMS EDUCATIONAL TRUST, started in the year 2007 having six branches at present. we need a date from 10<sup>th</sup> March to 11<sup>th</sup> March 2023 to visit your company with around 40 students accompanied by 5 faculty members. The visit to your company will provide a good practical exposure to our students and faculty members about how paper production units are operating. Kindly grant us permission to visit the company with our scheduled date. We shall be grateful, if you can allow us to visit your company.

Looking forward to your early reply.

Yours Faithfully,

1.   
2. 

Head of the Department  
Electrical and Electronics Engineering  
CMS College of Engineering,  
Namakkal-637 003.

  
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Gmail - Factory Visit



CMSCE NKL <[cmscollegeofengg@gmail.com](mailto:cmscollegeofengg@gmail.com)>

## Factory Visit

5 messages

SPB Industrial Relations Office Erode <[iroff@spsbitd.com](mailto:iroff@spsbitd.com)>

Fri, Mar 03, 2023 at 3:45 PM

To: [cmscollegeofengg@gmail.com](mailto:cmscollegeofengg@gmail.com)

Cc: Alagarsamy A <[alagan@spsbitd.com](mailto:alagan@spsbitd.com)>, SPB Time Office Erode <[timeoffice@spsbitd.com](mailto:timeoffice@spsbitd.com)>, SPB Safety Erode <[safety@spsbitd.com](mailto:safety@spsbitd.com)>, SPB Security Office Erode <[csim@spsbitd.com](mailto:csim@spsbitd.com)>, SPB Public Relations Office Erode <[pro@spsbitd.com](mailto:pro@spsbitd.com)>, Marimuthu P <[marimuthu@spsbitd.com](mailto:marimuthu@spsbitd.com)>, Krishnamurthy C <[krishna@spsbitd.com](mailto:krishna@spsbitd.com)>, SPB Lab Erode <[lab@spsbitd.com](mailto:lab@spsbitd.com)>

Pers/FV/77

2023-03-03

The Principal,  
CMS College of Engineering,  
CMS Nagar,  
Eranapuram Post,  
Namakkal District - 637 003.

Dear Sir,

Sub : Industrial Visit

Ref : Your Mail dt. 03.03.2023

With reference to the above, we are pleased to permit 40 students with 2 Faculties of your Institute to visit our factory at 2.30 p.m. on 10.03.2023 (Friday) on the following terms and conditions

1. Students 18 years and above will be permitted to visit the factory.
2. Students should wear Safety Shoes, Safety Mask and tuck their shirts during the factory visit.
3. Girl students should wear over coat.
4. They must wear the Helmet issued by us at the time of visit.
5. They should adhere to the safety instructions during the visit.
6. They are not permitted to carry mobile inside the factory during the visit.

Please advise the students to contact our Public Relations Office on reaching the Factory.

Thanking you,

Yours faithfully,

for Seshasayee Paper and Boards Limited

A. Alagarsamy  
GM-HR



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Contact No: 98433 46065, 84899 10651.

Website: [www.cmsgroupofinstitutions.in](http://www.cmsgroupofinstitutions.in) Email: [cmscollegeofengg@gmail.com](mailto:cmscollegeofengg@gmail.com), [principal602@gmail.com](mailto:principal602@gmail.com)

## REQUISITION LETTER

Date:06-03-2023

### From

The Head of the Department  
Electrical and Electronics Engineering  
Electronics and Communication Engineering  
CMS College of Engineering  
Namakkal.

### To

The Principal  
CMS College of Engineering  
Namakkal.


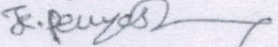
### Requested Sir,

Sub: Seeking permission for Industrial visit -Reg

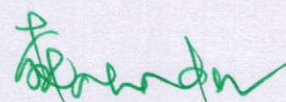
We would like to bring to your kind notice that, as per academic schedule our EEE and ECE department students are in need to visit a company. As per our requisition the Seshasayee Paper and Board Limited, Pallipalayam, Erode accepted our request for giving practical session about paper making process. The strength of 24 students from EEE and ECE department will be accompanied by 2 faculty members are decided to visit the company on 10<sup>th</sup> March. Hence we kindly request you to grant us the permission to visit the company.

Thanking You

Yours Faithfully

1. 
2. 



  
Dr. K. MANADEVAN, B.E., M.E., Ph.D.  
PRINCIPAL  
CMS COLLEGE OF ENGINEERING,  
NAMAKKAL-637 003





# CMS COLLEGE OF ENGINEERING

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Contact No: 98433 46065, 84899 10651.

Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com


## List of students undertaking project work/internship/field work for the Academic Year 2022-23

### Department of EEE & ECE

#### Participation List

S. NO	REGISTER NO	CANDIDATE NAME
1	620521106001	ARTHI K
2	620521106301	ARKESH J
3	620521106302	KALAIVANI R
4	620521106303	PAPPIAH P
5	620521106304	PRASATH D
6	620521106305	SOUNDARYA S R
7	620520106302	BALAMURUGAN.R
8	620520106303	BELAGIRI.M
9	620520106308	MANIMARAN.C
10	620520106312	NISHANTHI.E
11	620520106313	RAGHINI.K
12	620520106315	SIVA.M
13	620521105004	VINETH PRAVEEN P
14	620521105301	BANU PRIYA G
15	620521105302	KABILESHWARAN R
16	620521105306	VIGNESH P



  
Dr. K. MAHADEVAN, B.E., M.E., Ph.D.  
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17	620520105305	ARUNKUMAR S
18	620520105307	BASKAR S
19	620520105309	DHAMOTHARAN D
20	620520105312	GIRIMURUGAN S
21	620520105314	JALEEL AHAMED M
22	620520105319	MAHENDRAN R
23	620520105327	SANJAI R
24	620520105332	SRINIVAS P

Name of the faculty members

1.Mr.G.SURESH, HOD/EEE

2.Mr.K.PERIYASAMY,HOD/ECE



  
Dr.K.MAHADEVAN, B.E., M.E., Ph.D.  
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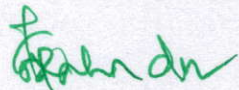
Website: www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, principal602@gmail.com

## Department of EEE & ECE

### Industrial Visit Name List

S.NO	REGISTER NO	NAME OF THE STUDENTS
1	620521106001	ARTHI K
2	620521106301	ARKESH J
3	620521106302	KALAIVANI R
4	620521106303	PAPPIAH P
5	620521106304	PRASATH D
6	620521106305	SOUNDARYA S R
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9	620520106308	MANIMARAN.C
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11	620520106313	RAGHINI.K
12	620520106315	SIVA.M
13	620521105004	VINETH PRAVEEN P
14	620521105301	BANU PRIYA G
15	620521105302	KABILESHWARAN R
16	620521105306	VIGNESH P
17	620520105305	ARUNKUMAR S



  
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19	620520105309	DHAMOTHARAN D
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22	620520105319	MAHENDRAN R
23	620520105327	SANJAI R
24	620520105332	SRINIVAS P

## Name of the Faculty Members

Mr.K. PERIYASAMY	9790385835
Mr.G.SURESH	7904097692
Mr. S.SOUNDRAKUMAR	9842563697
Ms. A.KALAIVANI	8056315803
Mr.P.VINITH PRAVEEN	8667411790
Mr.S.ARUNKUMAR	8675681582



  
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Website www.cmsgroupofinstitutions.in Email: cmscollegeofengg@gmail.com, priso:pa602@gmail.com

## PHOTO



  
Dr. K. MAHADEVAN, B.E., M.E., Ph.D.  
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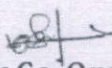
## REPORT

On receiving the letter of permission from Seshasayee Paper and Board Limited, Pallipalayam, 24 students of third and final year students of EEE and ECE with two faculty members went to the factory on 10.03.2023. All students assembled at the college at 12.30 pm and left the college in a bus. The students reached the factory at 2.00 pm. After giving a briefing of the rules and guidelines to be followed, helmets were given to the students. then the students were taken to the various units of the plant where the actual paper making process initiates.

A session was conducted by manager who provided very useful information about the Company such as: Sources of raw materials, Sorting of the scrap papers, Processing of the paper pulp, Drying of the paper pulp, Preparation of the finished products in form of paper rolls.

The students were provided with deep insights about the working of the factory and each and every question was patiently answered by him. The visit was finally concluded around 03.45 pm. The students left the plant around 4pm. The industrial visit to Seshasayee Paper and Board Limited was an enriching experience for students in getting live exposure of manufacturing and processing of finished paper products along with the organizational activities within a factory which can help them in their professional knowledge and further career enhancements.

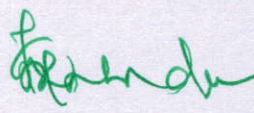
S. key.  
Student Co-Ordinator

  
Faculty Co-Ordinator

1. hgg  
2. E. Prasad  
HOD

EEE & ECE



  
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## Summary of the students undertaking Project Work / Field work / Internships during the Academic year 2022-2023.

S.No	PROGRAMME NAME	NUMBER OF STUDENTS UNDERTAKING PROJECT WORK	NUMBER OF STUDENTS UNDERTAKING FIELD WORK	NUMBER OF STUDENTS UNDERTAKING INTERNSHIP	UNIQUE LIST
1	B.E – MECHANICAL ENGINEERING	-	36	-	

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NAMAKKAL - 637 003,



Dr. K. MANADEVAN, B.E., M.E., Ph.D.

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## REQUISITION LETTER

**From**

The Head of the Department  
Mechanical Engineering  
CMS college of Engineering  
Namakkal

**To**

The Vice - President  
M/S.Kovai Maruthi Papers & Boards (P) Ltd.,  
Paramathi Velur  
Namakkal

**Sub: Request for one day Industrial Visit - Reg.**

Respected sir,

We would like to bring to your kind notice that our Mechanical Engineering students need to visit the **M/S.Kovai Maruthi Papers & Boards (P) Ltd.**, as part of their curriculum. Also we wish to inform that our students are interested to visit your Paper product facilities. Hence, we humbly request you to permit our 36 students accompanied by 2 Faculty members to your industry in the Second first of March 2023. Expecting your favorable reply as early as possible.

Thanking you in advance for your cooperation.

Date : 01.03.2023

Place : CMSCE

Yours Sincerely

Head of the Department  
Mechanical Engineering  
CMS College of Engineering  
Namakkal - 637 003,



**Dr. K. RAMADEVAN, B.E., M.E., Ph.D.**  
PRINCIPAL  
CMS COLLEGE OF ENGINEERING,  
NAMAKKAL-637 003

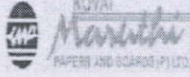




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## Kovai Maruthi Papers And Boards (P) Limited

Irakkur, Kabilarmalai (PO), Paramathi Velur, Namakkal (DT) Tamilnadu, India - pin code - 637 204  
Ph.No. 04268 - 254712, 254715, 254718

[www.kovaimaruthi.com](http://www.kovaimaruthi.com); [info@kovaimaruthi.com](mailto:info@kovaimaruthi.com); [kmppaper@gmail.com](mailto:kmppaper@gmail.com)

Date: 27.02.2023

To,

The Principal,  
CMS College of Engineering  
Namakkal - 637 003

Respected Sir/Madam,

Sub : Permission for Industrial visit - Reg.

Ref : Letter Dated 16.02.2023

Permission is hereby granted for 36 students and 02 faculties from the Mechanical Engineering department of your college to visit our M/S. Kovai Maruthi Papers & Boards (P) Ltd., in Paramathi velur, Namakkal on 09.03.2023, commencing from 10:15 AM onwards.

Please ensure that the students remain to the rules and regulations of our company concerning safety and conduct while inside the plant premises.

Thanking You,

DEPUTY GENERAL MANAGER



Dr. K. MAHADEVAN, B.E., M.E., Ph.D.  
PRINCIPAL  
CMS COLLEGE OF ENGINEERING,  
NAMAKKAL-637 003





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## REQUISITION LETTER

### From

The Head of the Department  
Mechanical Engineering  
CMS college of Engineering  
Namakkal

### To

The Principal  
CMS college of Engineering  
Namakkal,

**Sub: Request for one day Industrial Visit - Reg.**

Respected sir,

We would like to bring to your kind notice that our Mechanical Engineering students need to visit the M/S.Kovai Maruthi Papers & Boards (P) Ltd., as part of their curriculum. Also we wish to inform that our students are interested to visit your Paper product facilities. Hence, we humbly request you to permit our 36 students accompanied by 2 Faculty members to your industry in the 09 March 2023.

Thanking you

Date : 06.03.2023

Place : CMSCE

Yours Faithfully

Dr. K. MAHADEVAN, B.E., M.E., Ph.D.  
PRINCIPAL  
CMS COLLEGE OF ENGINEERING,  
NAMAKKAL-637 003







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List of students undertaking project work / internship / field work for the Academic Year 2022-23.

## Participation List

S.No	Register No.	Candidate Name
1	620522114002	Adhiswaran.P
2	620522114003	Boobalan.R
3	620522114006	Keerthinathan.S
4	620522114007	Mathavan.M
5	620522114008	Naveenkumar.P
6	620522114009	Povas.S
7	620522114010	Prasanna.J
8	620522114011	Ranjithpandi.P
9	620522114012	Sanjay .A
10	620522114013	Shankar.A
11	620522114014	Suganthan.S
12	620522114015	Vasanth. S
13	620521114001	Chowthri M
14	620521114002	Hariharan AJ



*[Handwritten Signature]*

Dr.K.MAHADEVAN, B.E., M.E., Ph.D  
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15	620521114308	Nandhakumar B
16	620521114312	Satheshkumar M
17	620520114303	Arul murugan M
18	620520114307	Chandru M
19	620520114310	Dhinesh M
20	620520114314	Gobinath G
21	620520114317	Gunasekaran D
22	620520114319	Kalia moorthi M
23	620520114323	Karthikeyan R
24	620520114324	Karthikeyan P
25	620520114329	Loganathan P
26	620520114330	Lukesh S
27	620520114336	Muneeswaran A
28	620520114341	Prakash E
29	620520114345	Priya A
30	620520114352	D.Sarnraj
31	620520114354	Sivakumar P
32	620520114357	Suresh V
33	620520114358	Surya M



  
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34	620520114359	Surya E
35	620520114363	Vigneshwaran R
36	620520114367	Yuvanraj G



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## Department of Mechanical Engineering

### Industrial visit Name List

S.No	Register No.	Name of The Student	Mobile No.
1	620522114002	Adhiswaran.P	9677018976
2	620522114003	Boobalan.R	6381168189
3	620522114006	Keerthinathan.S	6379573113
4	620522114007	Mathavan.M	8148646386
5	620522114008	Naveenkumar.P	9342918966
6	620522114009	Povas.S	9655861498
7	620522114010	Prasanna.J	9655861498
8	620522114011	Ranjithpandi.P	9080814224
9	620522114012	Sanjay .A	7868878813
10	620522114013	Shankar.A	7010568272
11	620522114014	Suganthan.S	7418174843
12	620522114015	Vasanth. S	9098092113
13	620521114001	Chowthri M	9047181690
14	620521114002	Hariharan AJ	6380087134
15	620521114308	Nandhakumar B	9384957780



  
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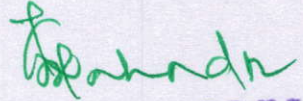
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16	620521114312	Satheshkumar M	9123523887
17	620520114303	Arul murugan M	7010857782
18	620520114307	Chandru M	7305885344
19	620520114310	Dhinesh M	9789263482
20	620520114314	Gobinath G	9159585001
21	620520114317	Gunasekaran D	9344548137
22	620520114319	Kalia moorthi M	6361634640
23	620520114323	Karthikeyan R	8680006821
24	620520114324	Karthikeyan P	8489593204
25	620520114329	Loganathan P	6369763031
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27	620520114336	Muneeswaran A	9025398307
28	620520114341	Prakash E	9361649510
29	620520114345	Priya A	6379297422
30	620520114352	Sarnraj.D	6374289529
31	620520114354	Sivakumar P	9442117098
32	620520114357	Suresh V	6381595265
33	620520114358	Surya M	9944902728
34	620520114359	Surya E	6379281043



  
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35	620520114363	Vigneshwaran R	6381876706
36	620520114367	Yuvanraj G	9788713586

## Name of the Faculty Members

Mr. D.Ashokkumar, AP/Mech	9944931031
Mr. G.Gopal, AP/Mech	7558171337
Mr. M.Selvakumar, AP/Mech	9003527014



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Contact No: 98433 46065, 84899 10651.  
Website [www.cmsgroupofinstitutions.in](http://www.cmsgroupofinstitutions.in) Email: [cmscollegaeengg@gmail.com](mailto:cmscollegaeengg@gmail.com), [princ.pa602@gmail.com](mailto:princ.pa602@gmail.com)



*L. Mahadevan*

**Dr. K. MAHADEVAN, B.E., M.E., Ph.D.**  
PRINCIPAL  
CMS COLLEGE OF ENGINEERING,  
NAMAKKAL-637 003





# CMS COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)  
CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003, Tamilnadu, India.  
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## INDUSTRIAL VISIT FIELD REPORT

Date : 02.03.2023

Company : Kovai Maruthi Papers & Boards (P) Ltd, Namakkal

An industrial visit to "Kovai Maruthi Papers & Boards (P) Ltd, Paramathi velur, Namakkal was successfully organized by the Department of Mechanical Engineering on 02.03.2023. Thirty seven students and two faculty visited to Kovai Maruthi Paper & Boards (P) Ltd to understand how the production activity, management process, technology work and also to acquire knowledge and experience.

We all students went to Kovai Maruthi Papers Company in college bus. The bus left the campus by 9.00 AM and reached the venue at 10.15 AM.

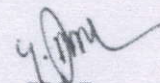
After the security check the students were taken to introduction room and given a briefing of rules and guidelines to be followed by everyone inside the industry. We were divided two batches and at 11.10 AM we were escorted to assembly line by the production manager and our guide Mr.R.Sureshkumar and briefly explained about the process and operations undertaken by the plants and machinery like water treatment, mixing in waste material (waste papers & wood and others) etc. He also explained how the paper is manufacturing, what are the quality tests undergone and what they do with the rejected products.

Finally we were taken to seminar hall by our guide Mr.R.Sureshkumar and he answered each and every question asked by the students patiently and before leaving, the company offered Tea & snacks to all the students.

The industrial visit to Kovai Maruthi Papers Company enriched our knowledge and experience and also provided a great opportunity to learn practically through demonstration, interaction, exchange of information and employment practices which will help the students in their further career growth.

R. Praveera  
Student Co-Ordinator

  
Faculty Co-Ordinator

  
HOD



  
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## TO WHOMSOEVER IT MAY CONCERN

This is to certify that number of students undertaking Project Work / Field work / Internships during the Academic year 2022-2023.

S.No	PROGRAMME NAME	NUMBER OF STUDENTS UNDERTAKING PROJECT WORK	NUMBER OF STUDENTS UNDERTAKING FIELD WORK	NUMBER OF STUDENTS UNDERTAKING INTERNSHIP
1	B.TECH – ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	-	47	-
2	B.E-BIO MEDICAL ENGINEERING	-	49	-
3	B.E-COMPUTER SCIENCE AND ENGINEERING	-	55	-
4	B.E- ELECTRICAL AND ELECTRONICS ENGINEERING	-	18	-
5	B.E- ELECTRONICS AND COMMUNICATION ENGINEERING	-	14	-
SUB TOTAL			183	



  
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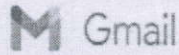




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CMSCE SANDH <[cmscesandh@gmail.com](mailto:cmscesandh@gmail.com)>

Seeking Permission for an Industrial Visit – Regs.

CMSCE SANDH <[cmscesandh@gmail.com](mailto:cmscesandh@gmail.com)>

Fri, July 07,  
2023, 2:33 PM

to <[mail@chipssoft.com](mailto:mail@chipssoft.com)>

Respected sir,

We would like to bring to your kind notice that our I-year Students are need to visit your company on 21.07.2023. This visit might help the students in attaining good knowledge in desired fields making it easy for them to understand the practical working of the machinery. Hence, we request your good self to permit our 183 students accompanied by 3 faculty members. I ensure all students will definitely maintain the decorum at the place. I eagerly await your positive response as I have to inform all the students about the same.--

REGARDS  
HEAD OF THE DEPARTMENT,  
DEPARTMENT OF SCIENCE AND HUMANITIES,  
CMS COLLEGE OF ENGINEERING,  
NAMAKKAL-637003 PHONE : 8489910627

One attachment • Scanned by Gmail



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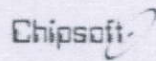


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## Chips Software Systems

W/ IGNOU STUDY CENTRE code 1423 (P)

(Estd.1993)

To,

21st JULY 2023

THE PRINCIPAL  
CMS COLLEGE OF ENGINEERING  
NAMAKKAL

### INDUSTRIAL VISIT

Dear Sir/ Madam,

We are pleased to receive 183 students of I-Year of all Departments with accompanying faculty members of your college for an Industrial Visit to our IT centre of our company on the 21st July 2023.

Let them be here by 10.30 AM on that day.

Let the Students bring a formal request addressed to us, duly signed by yourself or HOD, complete with a proper list of students and accompanying faculty in the group;

We shall be issuing a GROUP participation certificate immediately after the conclusion of the Industrial Visit.

With warm regards

Sincerely

For Chips Software Systems

TUK Menon



Software Development  
BCA/ MCA Student Projects  
Website Design & Registration  
Software Training (in IV with AmitySoft, Chennai)  
and Computer Training

Sahithya Parishath Building, Hospital Road,  
Near Head post office, Ernakulam, Kochi -682 011  
Tel (0484) 2370942/ 3241436 /2354690  
Email : [mail@chipsoft.com](mailto:mail@chipsoft.com)  
[tukmenon@gmail.com](mailto:tukmenon@gmail.com)  
Website : [www.chipsoft.com](http://www.chipsoft.com)



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## PERMISSION LETTER

14.07.2023

### FROM

The Head of the Department  
Department of Science and Humanities  
CMS College of Engineering  
Namakkal

### TO

The Principal  
CMS College of Engineering  
Namakkal

Respected Sir,

**Sub :** Seeking Permission for an Industrial Visit – Reg.

We would like to bring to your kind notice that our I-year Students 183 from various Departments along with 3 faculty members are need to seek your permission for an Industrial Visit to Chips software systems, Kochi on 21.07.2023. This visit might help the students in attaining good knowledge in desired fields making it easy to understand the practical working of the machinery. I ensure all students will definitely maintain the decorum at the place. I eagerly await your positive response as I have to inform all the students about the same.

Thanking you,

Yours Sincerely,

**Dr. K. MAHADEVAN, B.E., M.E., Ph.D.**  
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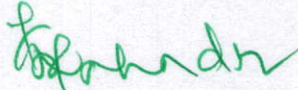
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## List of students undertaking project work/internship/field work for the Academic Year 2022-23

### Participation List

SI NO	REGISTER NO	CANDIDATE NAME
1	620522243001	ABINESH .M
2	620522243002	ABISHEK .D
3	620522243003	ABARNARANI. S
4	620522243004	AKASH .M
5	620522243005	ARTHI. M
6	620522243006	ARULPRASATH .D
7	620522243008	CHANDRU .P
8	620522243013	GOBIKA.E
9	620522243014	GOKULRAJA.D
10	620522243015	GOWTHAMAN.P
11	620522243016	HARINI .P
12	620522243017	HARISHKUMAR .M
13	620522243018	JAYASURYA.M
14	620522243019	JAYASURYAMATHAN.M
15	620522243020	JEEVAN.J
16	620522243021	JOSHUA M
17	620522243023	JOY NISHI .J
18	620522243026	KEERTHANA R.
19	620522243028	KISHORE.P



  
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20	620522243029	MATHANBABU.B
21	620522243030	MOHAMED SALMAN .A
22	620522243031	MUKKESH .B
23	620522243032	MUMTHAJ BEGAM .E
24	620522243033	NANTHA K
25	620522243034	NAVEEN .A
26	620522243035	NISHA.J
27	620522243036	PANDEESHWARI .G
28	620522243037	POOVINRAJ .M
29	620522243038	PRADEEP.R
30	620522243039	PRAVEENA .G
31	620522243040	RAHUL .P
32	620522243041	RAJA C
33	620522243043	S.SABARESH
34	620522243044	SAHAYA SEETHAL. D
35	620522243045	SANTHIYA.S
36	620522243046	SARAVANAVEL.V
37	620522243047	SELVA.V
38	620522243048	SELVABHARATHI.R
39	620522243049	SHIVANI.M
40	620522243050	SRIKANTH.K
41	620522243051	SUDHAKAR.M
42	620522243052	SUJITH KUMAR.M
43	620522243053	TAMILMARAN.M



  
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44	620522243054	THINAKARAN R
45	620522243056	VIJAY .S
46	620522243057	VINNARASU.A
47	620522243058	YOGESH .D
48	620522121001	ADITHYA.S
49	620522121002	AJAY.S
50	620522121003	ANISHRAJ.P
51	620522121004	ASFIYA.A
52	620522121005	BHAGAVATHI S
53	620522121006	BHUVANESHWARI.B
54	620522121007	DEVA PRIYA .S
55	620522121008	DHIVYA.C
56	620522121009	DHIVYA BHARATHI S
57	620522121010	DURGA R
58	620522121011	DUVARAGA .P
59	620522121013	HARISH.A
60	620522121014	HEMALATHA.P
61	620522121015	HEMAVATHY.M
62	620522121016	JANANI .K
63	620522121017	JAYANTHI MALA S
64	620522121019	KAVINKUMAR .M
65	620522121020	KAVIYA K (8.01.2005)
66	620522121021	KAVIYA K (15.03.2005)
67	620522121022	KAVIYAPRIYA.R



  
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68	620522121023	KISHORE.S
69	620522121024	MANJU .P
70	620522121025	MOHAMED THOUFIQ A
71	620522121026	MONISHA.S
72	620522121027	MUGESHWARI.M
73	620522121028	NAMITHA .C
74	620522121030	PRAVEENA . R
75	620522121031	PRIYADHARSHINI .R
76	620522121032	RADHIKA.R
77	620522121033	RAGAVI.G
78	620522121034	RAJAAMA .S
79	620522121035	RAMYA .K
80	620522121036	RANJANI C
81	620522121037	SARAVANAN.M
82	620522121038	SHELAT.I
83	620522121039	SHELIN.S
84	620522121040	SIVASANKARI .M
85	620522121041	SOBIGA .K
86	620522121042	SURYA .S
87	620522121043	SUTHAN.S
88	620522121044	THAMIZHMATHI A
89	620522121045	THARNISHRAJA.R
90	620522121046	THARUN.K
91	620522121047	THILAGAVATHI B.T
92	620522121048	VANISRI.R
93	620522121049	VIJAYALAKSHMI.M
94	620522121050	VINITHA.S



  
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95	620522121051	VISHWABALAN S
96	620522121052	YASHODHA R
97	620522104001	AROCKIABALA A
98	620522104002	ARUNPANDIAN E
99	620522104003	BALACHANDRAN M
100	620522104004	BALAJI B
101	620522104005	BALAJI B
102	620522104006	BALAJI J
103	620522104008	BHARATHI S
104	620522104009	DEEPAN P
105	620522104010	DEVAVARSHINI D
106	620522104012	DHANUSH H
107	620522104013	DHANYASRI S
108	620522104014	DHARSHINI S
109	620522104015	DHIVAKAR D
110	620522104016	GUNA P
111	620522104017	JAYADURGA S
112	620522104018	JEEVANANTHAM L
113	620522104019	JESTIN J
114	620522104020	KANAGAVEL K
115	620522104021	KATHIRVEL N
116	620522104022	KISHORE KANNAN M
117	620522104023	KOWSIKA S
118	620522104024	KRISHNARAJ I
119	620522104025	KUMUTHA M
120	620522104026	MANIKANDAN M
121	620522104027	MANIKANDAN R
122	620522104028	MANIKANDAN S
123	620522104029	MUKILAN K



  
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124	620522104030	NANDHINI K
125	620522104031	NANDHINI S
126	620522104032	NAVEEN KUMAR M
127	620522104033	NAVEENKUMAR P
128	620522104034	NISHANTH M
129	620522104035	NITHISKIMAR P
130	620522104036	PANDIPRIYA E
131	620522104037	POOJA M
132	620522104039	RAGUL M
133	620522104040	RAGUL V
134	620522104043	SABARIKARTHICK M
135	620522104044	SABARIVASAN I
136	620522104045	SATHEESH M
137	620522104046	SATHISH R
138	620522104047	SATHISH S
139	620522104048	SHANMUGAVEL M
140	620522104049	SOWBAKIYA B
141	620522104050	SRIKANTH E
142	620522104051	SUGUMAR M
143	620522104052	SURENDHAR M
144	620522104053	SURESH S
145	620522104054	THIYAGARAJAN S
146	620522104055	VASIKARAN S
147	620522104056	VIGNESHWARAN S
148	620522104057	VIJAY M
149	620522104058	VISHALI G
150	620522104059	YOKESH T
151	620522104060	YUVARAJ S
152	620522105001	ARUL. L



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153	620522105002	BALACHANDAR.S
154	620522105003	DHANUSH. E
155	620522105004	DINESH. B
156	620522105005	DINESH. V
157	620522105006	GURUNATHAN. R
158	620522105007	GURUPRASATH. M
159	620522105008	KALAIVANAN. V
160	620522105009	KOWSIHKPRABHU.R
161	620522105010	NISHANTH M
162	620522105011	PERARASAN.S
163	620522105013	PERMKUMAR G
164	620522105014	SANJAY.V
165	620522105015	SITRARASU.S
166	620522105016	SRIKANTH.M
167	620522105017	SRITHARAN.B
168	620522105019	VIGNESHWARAN. K
169	620522105020	VINOTHKUMAR. M
170	620522106001	CHANDRAN S
171	620522106002	DHANUSH A
172	620522106004	DHINESH D
173	620522106006	GUNAL S
174	620522106007	JAYABHARATHI D
175	620522106008	JAYAVARMAN G
176	620522106009	KIRUTHIKA S
177	620522106010	LAKSHMANAN S
178	620522106011	LATHIKA T
179	620522106012	MALARVIZHI S
180	620522106013	MANIMARAN M
181	620522106014	MANIVEL V



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182	620522106015	NITHISHKUMAR G
183	620522106016	NITHYA V



  
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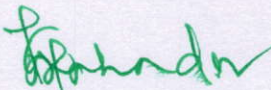
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## DEPARTMENT OF SCIENCE AND HUMANITIES

### Field visit Name List

S.No	REGISTER No	NAME OF THE STUDENTS	MOBILE NO
1	620522243001	ABINESH .M	9361338801
2	620522243002	ABISHEK .D	6383464428
3	620522243003	ABARNARANI. S	8148244806
4	620522243004	AKASH .M	9629096341
5	620522243005	ARTHI. M	958530 7819
6	620522243006	ARULPRASATH .D	6385411109
7	620522243008	CHANDRU .P	7904650260
8	620522243013	GOBIKA.E	965 510 7499
9	620522243014	GOKULRAJA.D	8940556167
10	620522243015	GOWTHAMAN.P	6380763081
11	620522243016	HARINI .P	9894095174
12	620522243017	HARISHKUMAR .M	8667676001
13	620522243018	JAYASURYA.M	7010829842
14	620522243019	JAYASURYAMATHAN.M	9386938624
15	620522243020	JEEVAN.J	8072045065
16	620522243021	JOSHUA M	6380040564
17	620522243023	JOY NISHI .J	98944 73525
18	620522243026	KEERTHANA R.	9025991425
19	620522243028	KISHORE.P	6382655121



  
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20	620522243029	MATHANBABU.B	9384322992
21	620522243030	MOHAMED SALMAN .A	9578157889
22	620522243031	MUKKESH .B	9363455525
23	620522243032	MUMTHAJ BEGAM .E	9361748616
24	620522243033	NANTHA K	8072141978
25	620522243034	NAVEEN .A	9344936023
26	620522243035	NISHA.J	7598306690
27	620522243036	PANDEESHWARI .G	8807354071
28	620522243037	POOVINRAJ .M	8667583567
29	620522243038	PRADEEP.R	8778120143
30	620522243039	PRAVEENA .G	9080691733
31	620522243040	RAHUL .P	9976682340
32	620522243041	RAJA C	6369640842
33	620522243043	S.SABARESH	6385788941
34	620522243044	SAHAYA SEETHAL. D	9087497757
35	620522243045	SANTHIYA.S	9677545470
36	620522243046	SARAVANA VEL.V	8248277207
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38	620522243048	SELVABHARATHI.R	9361822039
39	620522243049	SHIVANI.M	7708071907
40	620522243050	SRIKANTH.K	9342165125
41	620522243051	SUDHAKAR.M	6382186118
42	620522243052	SUJITH KUMAR.M	8667305709
43	620522243053	TAMILMARAN.M	8667388949



  
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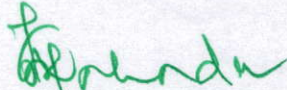
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44	620522243054	THINAKARAN R	7339321895
45	620522243056	VIJAY .S	8667768361
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47	620522243058	YOGESH .D	6383464428
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49	620522121002	AJAY.S	9003392257
50	620522121003	ANISHRAJ.P	6369137881
51	620522121004	ASFIYA.A	9500449798
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53	620522121006	BHUVANESHWARI.B	8681860850
54	620522121007	DEVA PRIYA .S	8778201178
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59	620522121013	HARISH.A	9943709331
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66	620522121021	KAVIYA K (15.03.2005)	6383261002
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68	620522121023	KISHORE.S	9342969769
69	620522121024	MANJU.P	9884966974
70	620522121025	MOHAMED THOUFIQ A	8148438705
71	620522121026	MONISHA.S	8973536253
72	620522121027	MUGESHWARI.M	7550266293
73	620522121028	NAMITHA .C	7539902749
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92	620522121048	VANISRI.R	9159774734
93	620522121049	VIJAYALAKSHMI.M	9361520450



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122	620522104028	MANIKANDAN S	9740735208



  
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150	620522104059	YOKESH T	9952569236
151	620522104060	YUVARAJ S	7806942731



  
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152	620522105001	ARUL. L	9677018976
153	620522105002	BALACHANDAR.S	6381168189
154	620522105003	DHANUSH. E	6379573113
155	620522105004	DINESH. B	9342918966
156	620522105005	DINESH. V	6383111972
157	620522105006	GURUNATHAN. R	7418174843
158	620522105007	GURUPRASATH. M	9842875396
159	620522105008	KALAIVANAN. V	9514818807
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161	620522105010	NISHANTH M	9865841049
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176	620522106009	KIRUTHIKA S	8098882523
177	620522106010	LAKSHMANAN S	9361001328
178	620522106011	LATHIKA T	7418380406



  
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179	620522106012	MALARVIZHI S	8489573045
180	620522106013	MANIMARAN M	7010096269
181	620522106014	MANIVEL V	8780848663
182	620522106015	NITHISHKUMAR G	8148188059
183	620522106016	NITHYA V	8086659211

## Name of the Faculty Members

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9865268621

Mr. R.SASIKUMAR

9597382195

Ms.K.LAKSHMIPRIYA

9626426086



*K. Mahadevan*  
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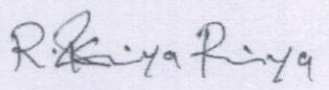
## REPORT ON FIELD VISIT

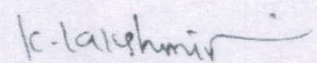
On receiving the permission from Chips Software Systems company in Ernakulam, Kerala. Totally 183 students along with 3 faculty members from Department of Science and Humanities of CMS College of Engineering, Namakkal went to field visit on 21.07.2023

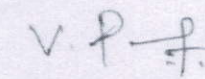
The company was established in the year 1993 and located in Ernakulam Ho. Chips Software Systems Pvt. Ltd in Ernakulam is one of the leading businesses in the Computer Network Training Institutes and also providing Software publishing. Custom software also includes made-to-order software based on orders from specific users.

The Staff member of Chips Software Systems explained us about the networking concepts involved in computer communication. And show the demo of how data packets delivered from sender to receiver in realistic link method.

Outcomes: Students get more knowledge of networking components and its operation.

  
Student Coordinator

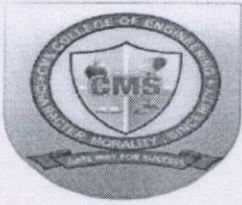
  
Faculty Coordinator

  
HOD/S&H



  
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## B.E COMPUTER SCIENCE AND ENGINEERING

### MINI PROJECT BATCH LIST (2022-2023)

S.NO	REGISTER NUMBER	NAME	PROJECT TITLE	PROJECT GUIDE
1	620520104306	BASKAR V	REALTIME HAND	K.MAHESHKUMAR ASSISTANT PROFESSOR
2	620520104315	MERCY P	GESTURE RECOGNITIO	
3	620520104316	MONISHA N	N SYSTEM USING OPEN CV	
4	620520104321	SARANYA V	DRIVER	K.RAMYA ASSISTANT PROFESSOR
5	620520104323	SARUMATHI J	DROWSINESS DETECTION	
6	620520104325	STALIN K	USING PYTHON AND	
7	620520104327	SUVISTHA K	OPEN CV	



  
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REALTIME HAND GESTURE  
RECOGNITION SYSTEM USING OPEN CV



A PROJECT REPORT

*Submitted by*

BASKAR V (620520104306)  
STALIN K (620520104325)  
MONISHA N (620520104316)

*in partial fulfillment for the award of the degree*

*of*

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

CMS COLLEGE OF ENGINEERING

ERANAPURAM, NAMAKKAL – 637003

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL-2023

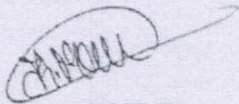


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## BONAFIDE CERTIFICATE

Certified that this project report "HAND GESTURE RECOGNITION SYSTEM USING OPENCV" is the bonafide work of BASKAR V (620520104306) STALIN K (620520104325) ANISHA N (620520104316) who carried out the project work under my supervision.

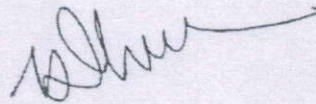


SIGNATURE

Mr. K. MAHESHKUMAR, B.Tech., M.E.,

SUPERVISOR

ASSISTANT PROFESSOR,  
Department of CSE,  
CMS College of Engineering



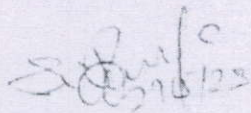
SIGNATURE

Mr. S. DHINESH, B.Tech M.E.,


HEAD OF THE DEPARTMENT

ASSISTANT PROFESSOR,  
Department of CSE,  
CMS College of Engineering

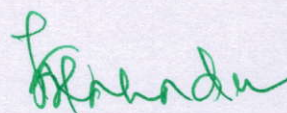
Certified that candidate was examined in the Anna university project viva – voce examination held on 29/05/2023



INTERNAL EXAMINER



EXTERNAL EXAMINER



Dr. K. MAHADEVAN, B.E., M.E., Ph.D.  
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## ABSTRACT

This project and experiment were conducted with the aim of utilizing the human hands as an object to operate computers. It is intended to support and use technologies in the field of contactless shopping/payments. The program is developed by using python programming language with the help of additional libraries such as OpenCV. In order to use this program, the person needs to be in front of a computer webcam. The webcam will be used to recognize the shape and the pattern of the presenters' hands. The program will display results of recognized hand patterns of gestures on a live video frame stream. The result of this project is a program that can be used for improve the user experience of contactless systems and make safer transactions in a time of global pandemic of 2020, where social distancing is one of the main things to consider.



A handwritten signature in green ink, appearing to read "K. Mahadevan".

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DRIVER DROWSINESS DETECTION  
USING PYTHON AND OPENCV



A PROJECT REPORT

*Submitted by*

MERCY P	(620520104315)
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SARUMATHI J	(620520104323)
SUVISTHA K	(620520104327)

*in partial fulfillment for the award of the degree*

*Of*

BACHELOR OF ENGINEERING

*in*

COMPUTER SCIENCE AND ENGINEERING

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ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2023

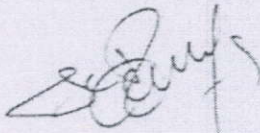


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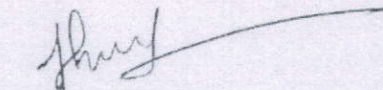
## BONAFIDE CERTIFICATE

Certified that this project report "DRIVER DROWSINESS DETECTION USING PYTHON AND OPEN CV" is the bonafide work of "MERCY P (620520104315), SARANYA V (620520104321), SARUMATHI J (620520104323) and SUVISTHA K (620520104327)" who carried out the project work under my supervision.



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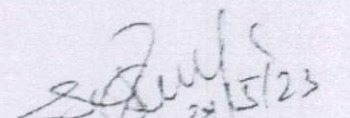
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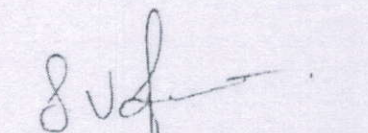
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INTERNAL EXAMINER



EXTERNAL EXAMINER

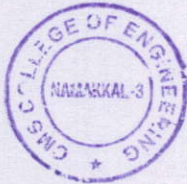


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## ABSTRACT

Nowadays, more and more professions require long-term concentration. Drivers must keep a close eye on the road, so they can react to sudden events immediately. Driver fatigue often becomes a direct cause of many traffic accidents. Therefore, there is a need to develop the systems that will detect and notify a driver of her/him bad psychophysical condition, which could significantly reduce the number of fatigue-related car accidents. However, the development of such systems encounters many difficulties related to fast and proper recognition of a driver's fatigue symptoms. One of the technical possibilities to implement driver drowsiness detection systems is to use the vision-based approach. This article presents the currently used driver drowsiness detection systems. Here we are detecting the driver drowsiness by estimating vision system of him.



  
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## B.E – ELECTRICAL AND ELECTRONIC ENGINEERING

### MINI PROJECT BATCH LIST (2022-2023)

S.NO	REGISTER NUMBER	NAME	PROJECT TITLE	PROJECT GUIDE
1	620510520305	ARUNKUMAR S	SPEED CONTROL OF DC MOTOR USING FUZZY LOGIC	Mr.T. CHANDRASEKARAN, M.E
2	620510520307	BASKAR S		
3	620510520309	DAMODHARAN D		
4	620510520312	GIRIMURUGAN S		
5	620510520314	JALEEL AHAMED M	WI-FI BASED SECURITY ALERT SYSTEM	Mr.D. PAULRAJU, M.E,
6	620510520319	MAHENDERAN R		
7	620510520327	SANJAI R		
8	620510520332	SRINIVAS P		



  
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**WI-FI BASED SECURITY  
ALERT SYSTEM**



**A PROJECT REPORT**

*Submitted by*

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GIRIMURUGAN S	(620510520312)

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**IN**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

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**MAY 2023**



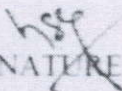
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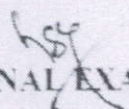
Mr.G.SURESH,M.E.,M.B.A.,

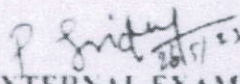
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Submitted for the ANNA UNIVERSITY Examination Project Viva -  
Voce held on 26/05/23

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



  
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## ACKNOWLEDGEMENT

Behind every achievement lies an unfathomable sea of gratitude to those who actuated it, without them it would never have into existence. To them I lay the world of gratitude imprinted within me.

I render my special thanks to **Dr.C.MUTHUSAMY**, Chairman and **Er.M.SRIDHAR,M.B.A.**, Vice Chairman ,CMS College of Engineering, for his kind and great patronage.

I wish to express my sincere thanks to our respected Principal who **Dr.C.A.SATHYAMOORTHY,M.E.,Ph.D** has been my constant source of inspiration.

I wish to express my sincere thanks to our respected Head of the Department **Mr.G.SURESH,M.E.,M.B.A**, for providing adequate laboratory facilities to complete the project.

I extend my gratitude to our project Co-ordinator Assistant Professor **Mr.A.SURESH,M.E**, for his immense support given during the project work successfully.

I am indebted to internal guide **Mr.G.SURESH,M.E,M.B.A**,Assistant professor for his constant help and creative ideas over the period of project work

We extend our gratitude to our parents and court less friends for their endless support right from commencement of this project.



A handwritten signature in green ink, appearing to read "K. Mahadevan".

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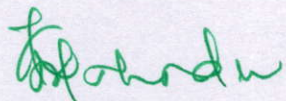


## ABSTRACT

Easy Home or Home automation plays a very important role in modern era because of its flexibility in using it at different places with high precision which will save money and time by decreasing human hard work. Prime focus of this technology is to control the household equipment's like light, fan, door, AC etc. automatically. This research paper has detailed information on Home Automation and Security System using Arduino, GSM and how we can control home appliances using Android application. Whenever a person will enter into the house then the count of the number of persons entering in the house will be incremented, in Home Automation mode appliances will be turned on whereas in security light will be turned on along with the alarm.

In Home Automation mode when the room will become empty i.e. the count of persons reduces to zero then the appliances will be turned off making the system power efficient. Moreover a person can control his home appliances by using an android application present in his mobile phone which will reduce the human hard work. At the same time if anyone enters while security mode is on a SMS will be sent to house owner's mobile phone which will indicate the presence of a person inside the house. The alarm can be turned of using SMS or Android application.



  
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# VEHICLE TO GRID POWER FLOW USING WIRELESS TRANSFER



A PROJECT REPORT

*Submitted by*

JALEEL AHAMED M	(620510520314)
MAHENDERAN R	(620510520319)
SANJAI R	(620510520327)
SRINIVAS P	(620510520332)

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*of*

**BACHELOR OF ENGINEERING**

**IN**

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**BONAFIDE CERTIFICATE**

Certified that this project report "VEHICLE TO GRID POWER FLOW USING WIRELESS TRANSFER" is the bonafide work of the "JALEEL AHAMED M(620510520314), MAHENDERAN.R (620510520319), SANJAI.R(620510520327), SRINIVAS P(620510520332)" who carried out project work under my supervision.

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INTERNAL EXAMINER  
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## ACKNOWLEDGEMENT

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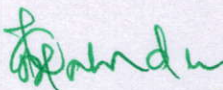
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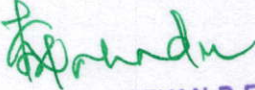
  
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## ABSTRACT

V2G or vehicle-to-grid is a term used to describe the connection of electric Vehicles on to the transfer of energy between vehicles and grid. As the sustainable Energy industry takes off, it brings with it a number of issues, one of which is the intermittency of power generated from natural resources. From the IC engine system new distributed ways of collecting and storing the generated energy during long drive(above 10Km).



  
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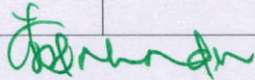
Website: [www.cmsgroupofinstitutions.in](http://www.cmsgroupofinstitutions.in) Email: [cmscollegeofengg@gmail.com](mailto:cmscollegeofengg@gmail.com), [principal602@gmail.com](mailto:principal602@gmail.com)

## B.E - MECHANICAL ENGINEERING

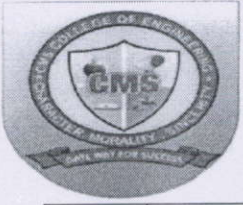
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S.NO	REGISTER NUMBER	NAME	PROJECT TITLE	PROJECT GUIDE
1	620520114303	ARUL MURUGAN M	DESIGN, ANALYSIS AND FABRICATION OF MONOCOMPOSITE LEAF SPRING	Mr.G. GOPAL, M.E.,
2	620520114307	CHANDRU M		
3	620520114310	DHINESH M		
4	620520114314	GOBINATH G		
5	620520114317	GUNASEKARAN D	DESIGN, FABRICATION AND ANALYSIS OF COMPOSITE SINGLE LAP JOINT BY USING HAND LAY-UP METHOD	Mr.G.GOPAL, M.E.,
6	620520114319	KALIA MOORTHY M		
7	620520114323	KARTHIKEYAN P		
8	620520114324	KARTHIKEYAN R		
9	620520114329	LOGANATHAN P	EXPERIMENTAL AND NUMERICAL ANALYSIS OF HEAT TRANSFER ON PLATE FIN HEAT EXCHANGER AT DIFFERENT FIN PITCHED WITH CERAMIC COATING	Mr.D.ASHOK KUMAR, M.TECH
10	620520114330	LUKESH S		
11	620520114336	MUNESWARAN A		
12	620520114341	PRAKASH E		



  
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13	620520114345	PRIYA A	ANALYSIS OF MECHANICAL PROPERTIES OF ALUMINIUM LM25 STIR CASTING METHOD	Mr.G.GOPAL,M.E.,
14	620520114353	SARANRAJ E		
15	620520114354	SIVAKUMAR P		
16	620520114357	SURESH V		
17	620520114358	SURYA M	EXPERIMENTAL OF COIR FIBER ON MECHANICAL BEHAVIOR OF REINFORCED POLYMER MATRIX COMPOSITES	Mr.D.ASHOK KUMAR, M.TECH.,
18	620520114359	SURYA E		
19	620520114363	VIGNESHWARAN R		
20	620520114367	YUVANRAJ G		



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DESIGN, ANALYSIS AND FABRICATION OF  
MONO COMPOSITE LEAF SPRING



A MINI PROJECT REPORT

*Submitted by*

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DHINESH M	(620520114310)
GOBINATH G	(620520114314)

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IN

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## BONAFIDE CERTIFICATE

Certified that this project report "DESIGN, ANALYSIS AND FABRICATION OF MONO COMPOSITE LEAF SPRING" is the Bonafide work of "ARUL MURUGAN M (620520114303), CHANDRU M (620520114307) DHINESH M (620520114310), GOBINATH G (620520114314)" who carried out the Mini project work under my supervision.

*G. M.*  
24/05/23

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26/05/23

INTERNAL EXAMINER

*S. Mahadevan*  
26/05/23

EXTERNAL EXAMINER

2

*S. Mahadevan*

Dr.K.MAHADEVAN,B.E.,M.E.,Ph.D.  
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## ABSTRACT

This project deals with fabrication and analysis of "MONO COMPOSITE LEAF SPRING". The composite materials are increasingly being used in the transport, aerospace, marine, automobile industries owing to their improved strength, stiffness and weight reduction. Weight reduction can be achieved primarily by the introduction of better material, design optimization and better manufacturing processes. In this project work it is aimed to use E Glass (UD mat1250) reinforcement material to design and analysis and present the experimental results of the studies taking into account tensile strength, tensile modulus, elongation of composite material. Three dimensional Modelling is done using Pro/E. Finite Element Analysis is carried out by using ANSYS 14.0 software. The prototype model will be fabricated by using hand layup method.

*Keywords: composite material, leaf spring, UD Mat*



  
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## ACKNOWLEDGEMENT

We express our profound gratitude with pleasure to our most respected Chairman **THIRU.C.MUTHUSAMY**, for giving motivation and providing all necessary facility for the successful completion of this project.

It is our privilege to thank our Principal **Dr.C.A.SATHIYAMOORTHY, B.E, M.E, Ph.D.** for their moral support and deeds in bringing out this project successfully.

We extend our gratefulness to **Mr.G.GOPAL, M.E.**, Head of Department, Department of Mechanical Engineering, for his encouragement and constant support in successful completion of project.

We convey our thanks to **Mr.M.SELVAKUMAR, M.E.**, Assistant Professor, Department of Mechanical Engineering, our supervisor for being more informative and providing suggestions regarding this project all the time.

We express thanks to all our department staff members and friends for their encouragement and advice to do the project work with full interest and enthusiasm.



  
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NAMAKKAL-637 003





DESIGN, FABRICATION AND ANALYSIS  
OF COMPOSITE SINGLE LAP JOINT BY  
USING HAND LAY-UP METHOD



A MINI PROJECT REPORT

*Submitted by*

GUNASEKARAN D	(620520114317)
KALIA MOORTHY M	(620520114319)
KARTHIKEYAN P	(620520114323)
KARTHIKEYAN R	(620520114324)

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**IN**

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ERANAPURAM, NAMAKKAL – 637003**

**ANNA UNIVERSITY:: CHENNAI 600 025**

**MAY 2023**

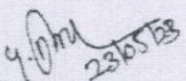


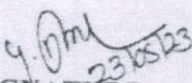
**Dr. K. MAHADEVAN, B.E., M.E., Ph.D**  
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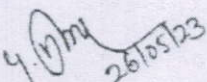
## BONAFIDE CERTIFICATE

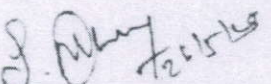
Certified that this Mini project report "DESIGN, FABRICATION AND ANALYSIS OF COMPOSITE SINGLE LAP JOINT BY USING HAND LAY-UP METHOD" is the Bonafide work of "GUNASEKARAN D (620520114317), KALIA MOORTHY M (620520114319), KARTHIKEYAN P (620520114323), KARTHIKEYAN R (620520114324) " who carried out the mini project work under my supervision.

  
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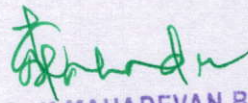
  
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## ABSTRACT

Mechanically fastened joints are critical parts in composite aircraft structures. The composite structural members are highly used in the following applications such as aerospace, automobiles, marine, architecture etc., has attracted extensive attention in the past decades. Adhesive bonding is a practical joint method for joining composite materials though the low shear and tensile strength limit the joint efficiency. In this project Glass fibre (Chopped strand mat) and glass fiber (bi directional ply) was fabricated by hand lay-up method. The composite material was machined according to the dimension. And we experimentally found out the Tensile strength of the composites and we compared the Experimental results with Analytical results and also with Numerical results.



  
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## ACKNOWLEDGEMENT

We express our profound gratitude with pleasure to our most respected Chairman **THIRU.C.MUTHUSAMY**.,for giving motivation and providing all necessary facility for the successful completion of this project.

It is our privilege to thank our Principal **Dr.C.A.SATHIYAMOORTHY, B.E, M.E, Ph.D.**.,for their moral support and deeds in bringing out this project successfully.

We extend our gratefulness to **Mr.G.GOPAL,M.E.**.,Head of Department, Department of Mechanical Engineering, for his encouragement and constant support in successful completion of project.

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EXPERIMENTAL AND NUMERICAL ANALYSIS OF HEAT  
TRANSFER ON PLATE FIN HEAT EXCHANGER AT DIFFERENT  
PITCHED WITH CERAMIC COATING



A MINI PROJECT REPORT

*Submitted by*

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Lukesh S	(620520114330)
Muneeswaran A	(620520114336)
Prakash E	(620520114341)

*in partial fulfillment for the award of the degree*

*Of*

**BACHELOR OF ENGINEERING**

**IN**

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**MAY 2023**



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## ABSTRACT

This Project presents the airside performance of fin and tube heat exchangers for multi-louvered plate fin. This project focuses on heat and fluid flow analysis by various fin pitches and angle patterns. The performance of heat exchanger in the air side with coating and without coating of the fin will be analyzed for various pitches such as 2, 2.5, 3, 3.5 mm and 4mm. By varying fin pitches, the overall heat transfer rate will increase in the system. In heat exchanger device the heat transfer analysis will be done by increasing number of tubes, rows, passes, and pitches.



  
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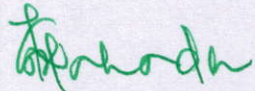
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We convey our thanks to **Mr.D.ASHOK KUMAR, M.Tech.**, Assistant Professor, Department of Mechanical Engineering, our supervisor for being more informative and providing suggestions regarding this project all the time.

We express thanks to all our department staff members and friends for their encouragement and advice to do the project work with full interest and enthusiasm.



  
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**ANALYSIS OF MECHANICAL  
PROPERTIES OF ALUMINIUM  
LM25 STIR CASTING METHOD**



**A MINI PROJECT REPORT**

*Submitted by*

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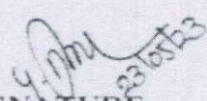


  
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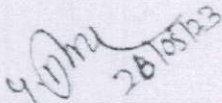
  
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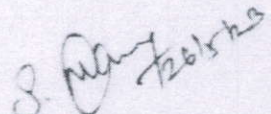
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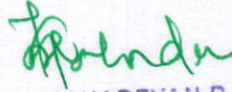
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## ABSTRACT

The present study deals with the behaviour of aluminium hybrid alloy based composites, reinforced with fly ash particles and solid lubricants such as activated carbon. The first one of the composites consists of Al. with fly ash particles and activated carbon. The other composite has Al with fly ash and solid lubricant: activated carbon at solid state. Both composites are fabricated through 'Stir Casting Method'. Mechanical properties of the samples are measured by usual methods such as Hardness, Tensile. The tested samples are examined using Scanning Electron microscope (SEM) for the characterization of microstructure on the surface of composites. The Main Aim is to be results of the proposed Hybrid composites are compared with Al based metal matrix composites at corresponding values of test parameters.



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**EXPERIMENTAL OF COIR FIBER ON  
MECHANICAL BEHAVIOR OF  
REINFORCED POLYMER MATRIX  
COMPOSITES**



**A MINI PROJECT REPORT**

*Submitted by*

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<b>Vigneshwaran R</b>	<b>(620520114363)</b>
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## ABSTRACT

Fiber reinforced polymer composites has been used in a variety of application as class of structure material because of their many advantages such as relatively low cost of production, easy to fabricate and superior strength compare to neat polymer resins.

Reinforcement in polymer is either synthetic or natural. Synthetic fiber such as glass, carbon etc. has high specific strength but their fields of application are limited due to higher cost of production. Recently there is an increase interest in natural composites which are made by reinforcement of natural fiber. Because the natural fiber give good property at lower cost of production In this connection an investigation have been carried out to make better utilization of coconut coir fiber which is very cheaply and easily found in India. The objective of the present research work to study the mechanical properties of coconut coir reinforced with epoxy composites.

The effect of fiber loading and length on mechanical properties like tensile strength, flexural strength, hardness of composites is studied. Also, the surface morphology of fractured surfaces after tensile testing is examined using scanning electron microscopy (SEM).



  
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