



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 2

TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2022-2023

MECHANICAL ENGINEERING

EXPERIENTIAL LEARNING

Activity	Number of Students Attended	Page No.
Internship	48	
Project	17	
TOTAL STUDENTS ATTENDED	65	-



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Criteria 2	Teaching-Learning and Evaluation	350
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Key Indicator- 2.3. Teaching- Learning Process (40)

2022-2023

MECHANICAL ENGINEERING

INTERNSHIP



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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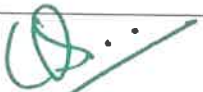


Department of Mechanical Engineering ACADEMIC YEAR 2022 – 2023

INTERNSHIP DETAILS

S. No	Year	Total No. of Students	Total No. of Students Attended	Register Number of the Students	Company Name	Programme Name	Duration
1.	IV Year / VII Sem	17	17	811219114001 to 811219114013, 811219114701 to 811219114704	Sakthi Auto Component Limited	Service the parts	01.04.2022 to 30.04.2022
2.	III Year / VI Sem	26	26	811220114001, 811220114003, 811220114005, 811220114008, 811220114013, 811220114015, 811220114017, 811220114020, 811220114025, 811220114026, 811220114032, 811220114039, 811220114040, 811220114042, 811220114043, 811220114044, 811220114047, 811220114052, 811220114056, 811220114057, 811220114060, 811220114302 to 811220114306	Pavithra Engineers	Valve Assembly	14.07.2022 to 28.07.2022
3.	II Year / IV Sem	05	05	811221114006, 811221114008, 811221114014, 811221114022, 811221114030	Patanjali foods limited	Pumps maintenance	01.02.2022 to 10.02.2022


Internship Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


HOD/Mech

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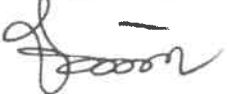
INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr.Aathilingam V**, (Roll no: 811219114001) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr.Aathilingam** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

FOR SAKTHI AUTO COMPONENT LIMITED



**(TAMILARASAN K K)
MANAGER (HR&DEVELOPMENT)**



Dr. G. Balakrishnan, M.E., Ph.D.

Principal

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IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

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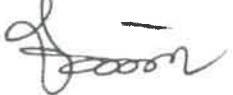
INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr.AJAY S**, (Roll no: 811219114003) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr.AJAY S** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. Gokul R** Roll No:(811219114301) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Gokul R** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr.Hariharan R** Roll No:(811219114301) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr.Hariharan R** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

**Indra Ganesan College of Engineering
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MUKASI PALLAGOUNDENPALAYAM, VIJAYAMANGALAM (VIA), UTHUKULI TALUK, TIRUPUR - 638 056. INDIA

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Head Office : 180, Race Course Road, Post Box No. 3775, Coimbatore - 641 018.

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. Inigo Rithish P** Roll No:(811219114704) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr. Inigo Rithish P** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr.Madhan Murugan S** Roll No:(811219114702) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and Mr. Madhan Murugan S was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr.MOHANRAJ G**, (Roll no: 811219114302) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 29.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr.MOHANRAJ G** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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This is to certify that **Mr.MUTHUKARUPPAN M**, (Roll no: 811219114703) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr.MUTHUKARUPPAN M** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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**(TAMILARASAN K K)
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Dr. G. Balakrishnan, M.E., Ph.D.,

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Certificate of completion

This is to certify that Mr. Periyasamy.P, (Roll no: 811219114006) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and Mr. Periyasamy.P was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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**(TAMILARASAN K K)
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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr.V. Saravana Kumar** Roll No: (811219114008) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and Mr.V. Saravana Kumar was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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**(TAMILARASAN K K)
MANAGER (HR&DEVELOPMENT)**



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. Siriyac Selva A** Roll No:(811219114010) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr. Siriyac Selva A** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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**(TAMILARASAN K K)
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18/05/2022

INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. Sivash K** Roll No: (811219114301) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr. Sivash K** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

FOR SAKTHI AUTO COMPONENT LIMITED

**(TAMILARASAN K K)
MANAGER (HR&DEVELOPMENT)**



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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18/05/2022

INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. M. Suriyaganesh** Roll No:(811219114011) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and Mr. M. Suriyaganesh was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

FOR SAKTHI AUTO COMPONENT LIMITED

**(TAMILARASAN K K)
MANAGER (HR&DEVELOPMENT)**



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr. Vaithiyalingam M** Roll No: [811219114008] **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Vaithiyalingam M** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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**(TAMILARASAN K K)
MANAGER (HR&DEVELOPMENT)**



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.



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INTERNSHIP TRAINING

Certificate of completion

This is to certify that **Mr.Abimanyu C**, (Roll no: 811219114002) **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and **Mr.Abimanyu C** was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

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MANAGER (HR&DEVELOPMENT)**



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INTERNSHIP TRAINING

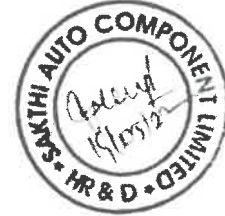
Certificate of completion

This is to certify that **Mr.Christy Lourthu Samy A** **DEPARTMENT OF MECHANICAL ENGINEERING** Third year student of **INDRA GANESAN COLLEGE OF ENGINEERING, TRICHY**, has successfully completed his **INTERNSHIP** at our works from 01.04.2022 to 30.04.2022 as per our guidelines and procedure.

His attendance and performance during the Internship period was **good** and Mr.Christy Lourthu Samy A was trained in the basics of Machining, Shop floor Protocols and introduced to principles of industrial operations through the internship.

FOR SAKTHI AUTO COMPONENT LIMITED

**(TAMILARASAN K K)
MANAGER (HR&DEVELOPMENT)**



Dr. G. Balakrishnan, M.E., Ph.D.,
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PAVITHRA ENGINEERS

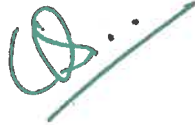
Manufacturers and Service of Industrial Products
No.3/1/1b, Ranga Garden Street, Royapuram
Chennai 600 013. Ph.:- +91 98401 76082, 7299778416.
Email:- pavithraengineers29@gmail.com
GSTIN NO:- 33APNPR3282H1ZL

To Whomsoever It May Concern


This is certify that **Mr. ABINESH AS**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

During this period he had worked hard to complete their project under the guidance of **Mr.Ramprabhu.V**

We wish all success in her future endeavors



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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For PAVITHRA ENGINEERS

Proprietor

PAVITHRA ENGINEERS

Manufacturers and Service of Industrial Products
No.3/1/1b, Ranga Garden Street, Royapuram
Chennai 600 013. Ph.:- +91 98401 76082, 7299778416.
Email:- pavithraengineers29@gmail.com
GSTIN NO:- 33APNPR3282H1ZL

To Whomsoever It May Concern

This is certify that **Mr. ANBARASAN M**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.


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We wish all success in her future endeavors



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Principal
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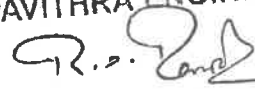
This is certify that **Mr. ARUNKUMAR M**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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This is certify that **Mr. BALAMURUGAN R**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.


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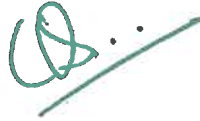
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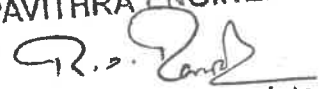
This is certify that **Mr. DHANUSHRAJA P**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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This is certify that **Mr. DURAI PANDI A**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

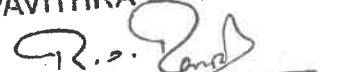
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This is certify that **Mr. HARIHARAN M**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.


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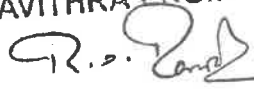
This is certify that **Mr. KANISHKAVARDHINI S, B.E-** Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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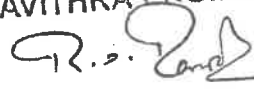
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This is certify that **Mr. LOGANATHAN C**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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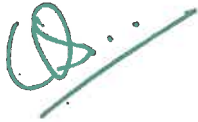
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This is certify that **Mr. MOHAMED ASIF A**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “Valve Assembly” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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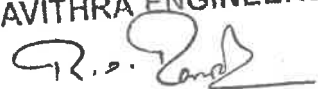
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This is certify that **Mr. SANJAY KUMAR M**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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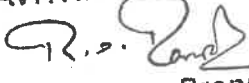
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This is certify that **Mr. SANTHOSH KUMAR .R**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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This is certify that **Mr. SARANYASREE TR**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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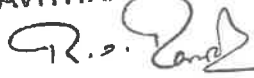
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This is certify that **Mr. SATHISH KUMAR V**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

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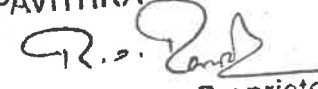
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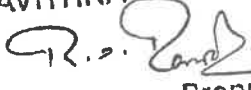
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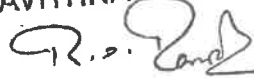
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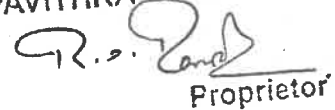
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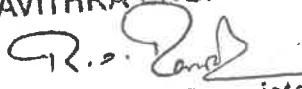
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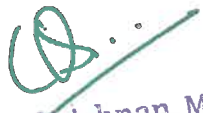
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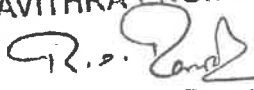
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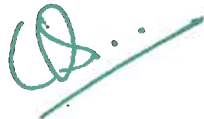
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R. S. Rana
Proprietor

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Chennai 600 013. Ph.:- +91 98401 76082, 7299778416.
Email:- pavithraengineers29@gmail.com
GSTIN NO:- 33APNPR3282H1ZL

To Whomsoever It May Concern

This is certify that **Mr. MOHAMED NAFIL A**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

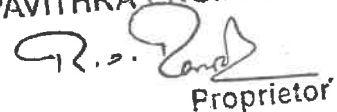
During this period he had worked hard to complete their project under the guidance of **Mr.Ramprabhu.V**

We wish all success in her future endeavors



Dr. G. Balakrishnan, M.E., F.I.E.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

For PAVITHRA ENGINEERS



Proprietor

PAVITHRA ENGINEERS

Manufacturers and Service of Industrial Products
No.3/1/1b, Ranga Garden Street, Royapuram
Chennai 600 013. Ph.:- +91 98401 76082, 7299778416.
Email:- pavithraengineers29@gmail.com
GSTIN NO:- 33APNPR3282H1ZL

To Whomsoever It May Concern

This is certify that **Mr. RUBAN A**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

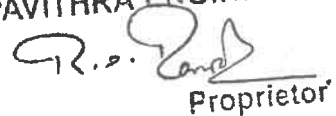
During this period he had worked hard to complete their project under the guidance of **Mr.Ramprabhu.V**

We wish all success in her future endeavors



Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

For PAVITHRA ENGINEERS



Proprietor

PAVITHRA ENGINEERS

Manufacturers and Service of Industrial Products
No.3/1/1b, Ranga Garden Street, Royapuram
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GSTIN NO:- 33APNPR3282H1ZL

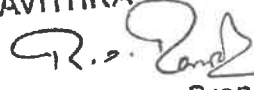
To Whomsoever It May Concern

This is certify that **Mr. KISHORE KUMAR**, B.E-Mechanical Engineering Student of Indra Ganesan College of Engineering,Trichy has Successfully completed his Internship training on “**Valve Assembly**” in our organization during the period from of 14-07-2022 to 28-07-2022 in the year to 2022.

During this period he had worked hard to complete their project under the guidance of **Mr.Ramprabhu.V**

We wish all success in her future endeavors


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

For PAVITHRA ENGINEERS

Proprietor



PATANJALI FOODS LIMITED

(Formerly known as Ruchi Soya Industries Limited)

To Whomsoever It May Concern

This is to certify that **Mr.DHANASEKARAN D** student of **Indra ganesan college of Engineering** Trichy has successfully completed the internship on “**Maintenance of Pumps**” in our organization during the period of 01.02.2022 to 10.02.2022 During this period he had been exposed to different process was found punctual, Hardworking and inquisitive

We wish him every success in his life and career

Sincerely,

FOR PATANJALI FOODS LIMITED
(Formerly Ruchi Soya Industries Limited)

Patwari
MAHESH KUMAR PATWARI
GENERAL MANAGER - HR

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



PATANJALI FOODS LIMITED
(Formerly known as Ruchi Soya Industries Limited)

To Whomsoever It May Concern

This is to certify that **Mr.DHIVAKAR R** student of **Indra ganesan college of Engineering** Trichy has successfully completed the internship on “**Maintenance of Pumps**” in our organization during the period of 01.02.2022 to 10.02.2022 During this period he had been exposed to different process was found punctual, Hardworking and inquisitive

We wish him every success in his life and career

Sincerely,

FOR PATANJALI FOODS LIMITED
(Formerly Ruchi Soya Industries Limited)

Patwari
MAHESH KUMAR PATWARI
GENERAL MANAGER - HR

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



PATANJALI FOODS LIMITED
(Formerly known as Ruchi Soya Industries Limited)

To Whomsoever It May Concern

This is to certify that **Mr.KANNAN P** student of **Indra ganesan college of Engineering** Trichy has successfully completed the internship on **“Maintenance of Pumps”** in our organization during the period of 01.02.2022 to 10.02.2022 During this period he had been exposed to different process was found punctual, Hardworking and inquisitive

We wish him every success in his life and career

Sincerely,

FOR PATANJALI FOODS LIMITED
(Formerly Ruchi Soya Industries Limited)

Patwari
MAHESH KUMAR PATWARI
GENERAL MANAGER - HR

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



PATANJALI FOODS LIMITED
(Formerly known as Ruchi Soya Industries Limited)

To Whomsoever It May Concern


This is to certify that **Mr.NAVEEN M** student of **Indra ganesan college of Engineering** Trichy has successfully completed the internship on “**Maintenance of Pumps**” in our organization during the period of 01.02.2022 to 10.02.2022 During this period he had been exposed to different process was found punctual, Hardworking and inquisitive

We wish him every success in his life and career

Sincerely,

FOR PATANJALI FOODS LIMITED
(Formerly Ruchi Soya Industries Limited)

Patwari
MAHESH KUMAR PATWARI
GENERAL MANAGER - HR


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

PATANJALI®

PATANJALI FOODS LIMITED
(Formerly known as Ruchi Soya Industries Limited)

To Whomsoever It May Concern

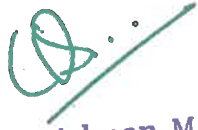
This is to certify that **Mr.SANTHOSH R** student of **Indra ganesan college of Engineering** Trichy has successfully completed the internship on **“Maintenance of Pumps”** in our organization during the period of 01.02.2022 to 10.02.2022 During this period he had been exposed to different process was found punctual, Hardworking and inquisitive

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FOR PATANJALI FOODS LIMITED
(Formerly Ruchi Soya Industries Limited)

Patwari
MAHESH KUMAR PATWARI
GENERAL MANAGER - HR


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Indra Ganesan
COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



Criteria 2	Teaching-Learning and Evaluation	350
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Key Indicator- 2.3. Teaching- Learning Process (40)

2022-2023

**MECHANICAL ENGINEERING
PROJECT**



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
NAAC Accredited, 2(F) Status Institution by UGC



Department of Mechanical Engineering

ACADEMIC YEAR 2022 – 2023

Experiential Learning – Main Project

Batch No.	Registration No	Name of the Student	Year / Sem	Topic	Name of the Learning Method
1	811219114003	Ajay S	IV / VIII	Design and fabrication of Agri cutter	EXPERIENTIAL LEARNING METHOD - PROJECT
	811219114004	Christy lourthu samy A			
2	811219114301	Hariharan R	IV / VIII	Design and fabrication of footstep power Generation	
	811219114702	Madhan Murugan S			
3	811219114006	Periasamy P	IV / VIII	Design and development of pneumatic powered hacksaw machine	
	811219114701	Gokul R			
4	811219114011	Suriya Ganesh M	IV / VIII	Pneumatic sheet metal cutting Machine	
	811219114012	Vaithiyalingam M			
5	811219114001	Aathilingam V	IV / VIII	Design and Fabrication of Electric Motorized Grass cutter	
	811219114002	Abimanyu C			
6	811219114302	Mohan Raj G	IV / VIII	Design and fabrication of conveyor lift using geneva Mechanism	
	811219114704	Inigo Rithesh			
	811219114703	Muthukaruppan			
7	811219114008	Saravana kumar V	IV / VIII	Design and Fabrication of Solar grass Cutter	
	811219114010	Siriyac Selva A			
8	811219114013	Vikash R	IV / VIII	Research and analysis of Electric Mini pickup Truck chasis and body	
	811219114303	Sivash			


HOD/MECH


Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

DESIGN AND FABRICATION OF AGRI-CUTTER

A PROJECT REPORT

Submitted by

AJAY S

811219114003

CHRISTY LOURTHU SAMY A

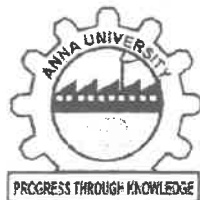
811219114004

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



**INDRA GANESAN COLLEGE OF ENGINEERING,
MANIKANDAM, TIRUCHIRAPPALLI-620012**

ANNA UNIVERSITY CHENNAI 600025

JUNE-2022

BONAFIDE CERTIFICATE

Certificate that this project report "AGRI-CUTTER USING CRANK SHAFT MACHINISM" is the bonafide work of

AJAY S

811219114003

CHRISTY LOURTHU SAMY A

811219114004

Who carried out the project work under my supervision



SIGNATURE

Dr. R. RAMESH BABU, M.E.,(Ph.D),

HEAD OF THE DEPARTMENT

MechanicalEngineering

Indra Ganesan College of Engineering

Tiruchirappalli-620012



SIGNATURE

G.DEEPAN KUMAR,ME.,

PROJECT SUPERVISOR

MechanicalEngineering

Indra Ganesan College of Engineering

Tiruchirappalli-620012

Submitted for the university Viva-Voce Examination held on..23/06/2022..



INTERNALEXAMINER



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



EXTERNALEXAMINER

DESIGN AND FABRICATION OF ELECTRIC MOTORIZED GRASS CUTTER

A PROJECT REPORT

Submitted by

**AATHILINGAM.V
ABIMANYU.C**

**811219114001
811219114002**

In partial fulfillment for the award of the degree Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



**INDRA GANESAN COLLEGE OF ENGINEERING,
MANIKANDAM,
TIRUCHIRAPPALLI- 620012**

ANNA UNIVERSITY CHENNAI - 600025

JUNE – 2022

BONAFIDE CERTIFICATE

Certificate that this project report "DESIGN AND FABRICATION OF ELECTRIC MOTORIZED GRASS CUTTER" is the bonafide work of

AATHILINGAM.V
ABIMANYU.C

811219114001
811219114002

Who carried out the project work under my supervision


SIGNATURE


SIGNATURE


Mr.R.RAMESHBABU,M.E.,(Ph.D).,
HEAD OF THE DEPARTMENT
Mechanical Engineering
Indra Ganesan College of Engineering
Tiruchirappalli-620 012

Dr.V.VAITHIYANATHAN,M.E.,Ph.D
PROJECT SUPERVISOR
Mechanical Engineering
Indra Ganesan College of Engineering
Tiruchirappalli-620 012

Submitted for the university Viva-Voce Examination held on...23/06/2022.


INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

DESIGN AND FABRICATION OF CONVEYOR LIFT USING GENEVA MECHANISM

A PROJECT REPORT

Submitted by

MOHANRAJ.G	811219114302
INIGO RITHISH.P	811219114704
MUTHUKARUPPAN.M	811219114703

*In partial fulfillment for the award of the
degree Of*
BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING



**INDRA GANESAN COLLEGE OF ENGINEERING,
MANIKANDAM,**

TIRUCHIRAPPALLI- 620012

ANNA UNIVERSITY CHENNAI 600 025

JUNE – 2022

BONAFIDE CERTIFICATE

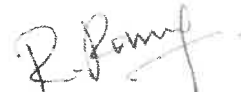
Certificate that this project report “**DESIGN AND FABRICATION
CONVAYOR LIFT USING GENEVA MECHANISM**” is the
Bonafide work of

MOHANRAJ.G	811219114302
INIGO RITHISH.P	811219114704
MUTHUKARUPPAN.M	811219114703

Who carried out the project work under my supervision


SIGNATURE


Mr. R.RAMESH BABU,M.E.,(Ph.D).,
HEAD OF THE DEPARTMENT
Mechanical Engineering
Indra Ganesan College of Engineering
Tiruchirappalli-620 012



SIGNATURE

Mr. R.RAMESH BABU,M.E.,(Ph.D).,
PROJECT SUPERVISOR
Mechanical Engineering
Indra Ganesan College of Engineering
Tiruchirappalli-620 012

Submitted for the university Viva-Voce Examination held on...23/6/..2022..


INTERNAL EXAMINER


EXTERNAL EXAMINER 23.6.2022


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

DESIGN AND FABRICATION OF SOLAR GRASS CUTTER

A PROJECT REPORT

Submitted by

SARAVANAKUMAR V 811219114008

SIRIYAC SELVA A 811219114010

In partial fulfillment for the award of the

degree Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



**INDRA GANESAN COLLEGE OF ENGINEERING,
MANIKANDAM,**

TIRUCHIRAPPALLI-

620012

ANNA UNIVERSITY CHENNAI

600 025

JUNE – 2022

BONAFIDE CERTIFICATE

Certificate that this project report "**Design And Fabrication Of Solar Grass Cutter**" is the bonafide work of

SARAVANAKUMAR V

811219114008

SIRIYAC SELVA A

811219114010

Who carried out the project work under my supervision


SIGNATURE


SIGNATURE

Mr. R.RAMESH BABU, M.E., (Ph.D),

Mr. DAVID UBAHARA SAMY ME.,

HEAD OF THE DEPARTMENT

PROJECT SUPERVISOR

Mechanical Engineering

Mechanical Engineering

Indra Ganesan College of Engineering


Indra Ganesan College of Engineering

Tiruchirappalli-620 012

Tiruchirappalli-620 012

Submitted for the university Viva-Voce Examination held on.. 23/06/2022.....


INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

DESIGN AND FABRICATION OF FOOTSTEP POWER GENERATION

A PROJECT REPORT

Submitted by

HARIHARAN .R

811219114301

MADHAN MURUGAN .S

811219114702

In partial fulfillment for the award of the degree Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



**INDRA GANESAN COLLEGE OF ENGINEERING,
MANIKANDAM,
TIRUCHIRAPPALLI- 620012**

ANNA UNIVERSITY CHENNAI 600025

JUNE – 2022

BONAFIDE CERTIFICATE

Certificate that this project report “**DESIGN AND FABRICATION OF FOOTSTEP POWER GENERATION**” is the bonafide work of

HARIHARAN .R

811219114301

MADHAN MURUGAN .S

811219114702

Who carried out the project work under my supervision



SIGNATURE



SIGNATURE

Mr.R.RAMESHBABU,M.E.,(Ph.D),

Dr.V.VAITHIYANATHAN,ME.,Ph.D

HEAD OF THE DEPARTMENT

PROJECT SUPERVISOR

Mechanical Engineering

Mechanical Engineering

Indra Ganesan College of Engineering

Indra Ganesan College of Engineering

Tiruchirappalli-620 012

Tiruchirappalli-620 012

Submitted for the university Viva-Voce Examination held on.....23/6/2022.....



INTERNAL EXAMINER



Dr. G. Balakrishnan, M.E., Ph.D,



EXTERNAL EXAMINER

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012,

DESIGN AND DEVELOPMENT OF PNEUMATIC POWERED HACKSAW MACHINE

APROJECTREPORT

Submitted by

PERIYASAMY .P 811219114006
GOKUL .R 811219114701

In partial fulfillment for the award of the degree Of
BACHELOROFENGINEERING
IN
MECHANICALENGINEERING



INDRAGANESANCOLLEGE OFENGINEERING,
MANIKANDAM,
TIRUCHIRAPPALLI-620012
ANNA UNIVERSITYCHENNAI 600025
JUNE-2022

BONAFIDECERTIFICATE

Certificate that this project report "DESIGN AND DEVELOPMENT OF PNEUMATIC POWERED HACKSAW MACHINE" is the bonafide work of

PERIYASAMY .P

811219114006

GOKUL .R

811219114701

Who carried out the project work under my supervision


SIGNATURE

Mr.R.RAMESHBABU,M.E.,(Ph.D),
HEAD OF THE DEPARTMENT
Mechanical Engineering
Indra Ganesan College of Engineering
Tiruchirappalli-620012



SIGNATURE

Mr.T. DAVID UBAHARA SAMY,ME.,
PROJECT SUPERVISOR
Mechanical Engineering
Indra Ganesan College of Engineering
Tiruchirappalli- 620012

Submitted for the university Viva-Voce Examination held on..23/06/2022.....


INTERNALEXAMINER




EXTERNALEXAMINER
23.6.2022

ii
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

PNEUMATIC SHEET METAL CUTTING MACHINE

A PROJECT REPORT

Submitted by

SURIYA GANESH.M

811219114011

VAITHIYALINGAM.M

811219114012

*In partial fulfillment for the award of the
degree Of*

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



**INDRA GANESAN COLLEGE OF ENGINEERING,
MANIKANDAM,**

TIRUCHIRAPPALLI- 620012

**ANNA UNIVERSITY CHENNAI
600025**

JUNE – 2022

BONAFIDE CERTIFICATE

Certificate that this project report "PNEUMATIC SHEET METAL CUTTING MACHINE" is the bonafide work of

SURIYA GANESH.M

811219114011

VAITHIYALINGAM.M

811219114012

Who carried out the project work under my supervision


SIGNATURE


SIGNATURE

Mr. R.RAMESH BABU,M.E.,(Ph.D),

HEAD OF THE DEPARTMENT

Mechanical Engineering

Indra Ganesan College of Engineering

Tiruchirappalli-620 012

Mr. R.RAMESH BABU,M.E.,(Ph.D),

PROJECT SUPERVISOR


Mechanical Engineering

Indra Ganesan College of Engineering

Tiruchirappalli-620 012

Submitted for the university Viva-Voce Examination held on.. 23/06/2022..


INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

**RESEARCH AND ANALYSIS OF ELECTRIC
MINI PICKUP TRUCK CHASSIS AND BODY**

A PROJECT REPORT

Submitted by

PRASANTH R

811218114011

VIGNESHWARAN C

811218114023

In partial fulfilment for the award of the

degree of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



INDRA GANESAN COLLEGE OF ENGINEERING

MANIKANDAM,

TRICHIRAPALLI – 620 012

ANNA UNIVERSITY CHENNAI – 620 025

JUNE - 2022

BONAFIDE CERTIFICATE

Certificate that this project report "RESEARCH AND ANALYSIS OF ELECTRIC MINI PICKUP TRUCK CHASSIS AND BODY" is the bonafide work of

PRASANTH R

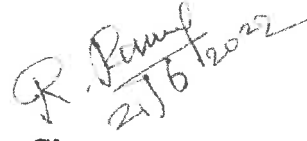
811218114011

VIGNESHWARAN C

811218114023

Who carried out the project work under my supervision


Signature


Signature

Mr. R.RAMESH BABU,M.E.,(Ph.D.),

Mr. R.RAMESH BABU,M.E.,(Ph.D.),

HEAD OF THE DEPARTMENT

PROJECT SUPERVISOR

Mechanical Engineering

Mechanical Engineering

Indra Ganesan College of

Indra Ganesan College of

Engineering

Engineering

Tiruchirappalli-620 012

Tiruchirappalli-620 012

Submitted for the university Viva-voce Examination held on 22-06-2022


INTERNAL EXAMINER


EXTERNAL EXAMINER


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.