



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

ACADEMIC YEAR

2018 - 2019

**PROBLEM SOLVING
METHODOLOGIES**



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

PROBLEM SOLVING METHODOLOGIES

ACADEMIC YEAR 2018-2019

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

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

MAIN PROJECT



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COLLEGE OF ENGINEERING AND TECHNOLOGY
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ANGUCHETTYPALAYAM, PANRUTI - 607 106.

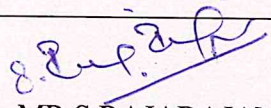

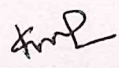

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT BATCH LIST

PERIOD: 2015-2019

YEAR/ SEMESTER: IV / VIII

S. NO	REGNO	NAME	TITLE OF THE PROJECT	NAME OF THE GUIDE
1	422115104002	ABINA C	Authenticating by encrypted negative Password	MISS .V.VARALAKSHMI <i>Vali</i>
	422115104005	ARTHIYA A		
	422115104008	BAKKIYA V		
	422115104014	JENIFER Y		
	422115104019	PAVITHRA P		
2	422115104003	AKILA N	smart and green urban solid mgmt in smart city by IoT	MR.N.KUMAR <i>p.k.</i>
	422115104012	DHANALAKSHMI M		
	422115104023	PRIYA S		
	422115104024	PRIYADHARSHINI M		
3	422115104004	AMALA SHARINI E	SECURING A MEDICAL IMAGE USING 2D CHAOTIC AND MLCA.	MRS.D.PAULINE FREEDA <i>DP</i>
	422115104010	BHUVANESWARI U		
	422115104016	MONISHA J		
	422115104702	RESHMA S		
4	422115104006	ARULSELVAM A	CUSTOMER SERVICE FOR VOICE BASE IM BOT	MR.S.MANAVALAN <i>Manavalan</i>
	422115104007	ARUN V		
	422115104021	PRAVEENKUMAR D		
	422115104305	VENKATESAN S		

5	422115104009	BALAJI P	Secure encryption for IoT using RSA and AES	 MR.S.RAJARAJAN
	422115104025	RAJADURAI G		
	422115104303	SABARINATHAN S		
6	422115104011	BOWJIYABANU	Content based image retrieval System and Feature extraction with ANN algorithm	 MS.VANATHI
	422115104018	PALLAVI		
	422115104029	SONIYAGANDHI S		
	422115104030	VINOTHINI		
7	422115104015	KAVIYARASI T	SMART HEALTH CARE SYSTEM USING DATA MINING	 MRS.POORNAMBIGAI
	422115104301	HEMALATHA N		
	422115104304	VARALAKSHMI S		
	422115104306	VIJAYA LAKSHMI V		
8	422115104017	MURUGAN L	Development of Device for gesture to speech for mute community	 MRS.Z.ASMATHUNNISA
	422115104020	PRABU S		
	422115104031	VINOTHRAJ S		


 PREPARED BY


 VERIFIED BY


 APPROVED BY

**SECURE PASSWORD STORAGE USING ENCRYPTED NEGATIVE
PASSWORD**

A PROJECT REPORT

Submitted by

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V.BAKKIYA	422115104009
Y.JENIFER	422115104014
P.PAVITHRA	422115104019

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of

BACHELOR OF ENGINEERING

in

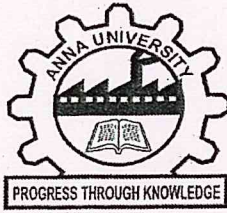
COMPUTER SCIENCE AND ENGINEERING



ST.ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY



ANNA UNIVERSITY: CHENNAI 600 025



ANNA UNIVERSITY: CHENNAI 600 025



BONAFIDE CERTIFICATE

Certified that this project report "SECURE PASSWORD STORAGE USING ENCRYPTED NEGATIVE PASSWORD" is the Bonafide work of "C.ABINA (422115104002), A.ARTHIYA (422115104005), V.BAKKIYA (422115104008), Y.JENIFER (422115104014), P.PAVITHRA (422115104019)" who carried out the project work under my supervision.


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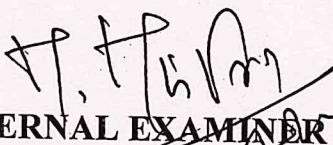

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Submitted for Project Viva - Voce Examination held on 27.3.19


INTERNAL EXAMINER


EXTERNAL EXAMINER

IOT AUTOMATION FOR WASTE MANAGEMENT

A PROJECT REPORT

Submitted by

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M.PRIYADHARSHINI	422115104024

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of

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IN

COMPUTER SCIENCE AND ENGINEERING

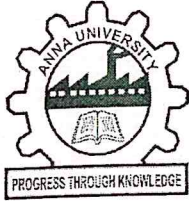


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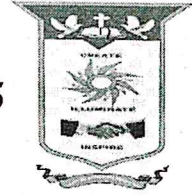


ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019



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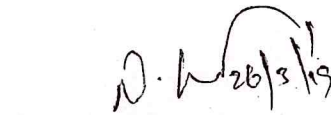
Certified that this project report “IOT AUTOMATION FOR WASTE MANAGEMENT” is the bonafide work of “N.AKILA (422115104003), M.DHANALAKSHMI (422115104012), S.PRIYA (422115105023), M.PRIYADHARSHINI (422115104024) ” who carried out the project work under my supervision.


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INTERNAL EXAMINER


EXTERNAL EXAMINER

**SECURING MEDICAL IMAGE USING 2D
CHAOTIC MAP AND C-MLCA**

A PROJECT REPORT

Submitted by

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U. BHUVANESHWARI 422115104010

J. MONISHA 422115104016

S. RESHMA 422115104702

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IN

COMPUTER SCIENCE AND ENGINEERING



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

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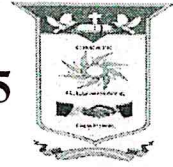


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019



ANNA UNIVERSITY :: CHENNAI 600 025



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Certified that this project report “ SECURING MEDICAL IMAGE USING 2D CHAOTIC MAP AND C-MLCA ” is the Bonafide work of “E. AMALA SHARINI (422114104004), U. BHUVANESHWARI (422114104010), J. MONISHA (422114104016), S. RESHMA (422115104702) “ who carried out the project work under my supervision.


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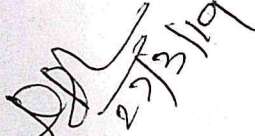

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Submitted for Project Viva- Voce Examination held on 27.3.19...


INTERNAL EXAMINER


EXTERNAL EXAMINER

CUSTOMER SERVICE FOR VOICE BASED IM BOT

A PROJECT REPORT

Submitted by

A.ARULSELVAM	422115104006
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S. VENKATESAN	422115104305

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

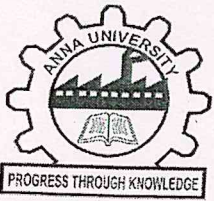


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MARCH 2019




ANNA UNIVERSITY: CHENNAI 600 025



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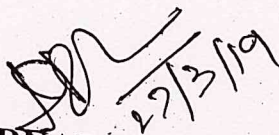
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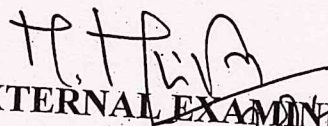

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Submitted for Project Viva- Voce Examination held on 27/03/19


INTERNAL EXAMINER


EXTERNAL EXAMINER

PSE
Main project 2019

Title of Guide

A LIGHTWEIGHT ENCRYPTION ALGORITHM FOR SECURE IOT BASED ON CRYPTOGRAPHY

A PROJECT REPORT

Submitted by

P. Balaji 422115104009

G. Rajadurai 422115104025

S. Sabarinathan 422115104303

in partial fulfilment for the award of the degree

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BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY



ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

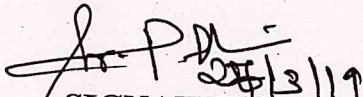


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Certified that this project report “A LIGHTWEIGHT ENCRYPTION ALGORITHM FOR SECURE IOT BASED ON CRYPTOGRAPHY” is the bonafide work of “P. Balaji (422115104009),G. RajaDurai (422115104025), S. Sabarinathan (422115104303)” who carried out the project work under my supervision.


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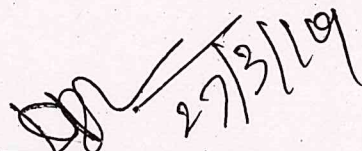
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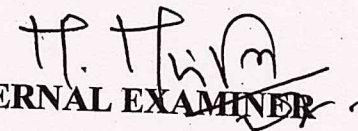
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Submitted for Project Viva- Voce Examination held on 27/3/2019 (FN)


INTERNAL EXAMINER


EXTERNAL EXAMINER

CONTENT-BASED IMAGE RETRIEVAL USING FEATURE EXTRACTION WITH ANN ALGORITHM

A PROJECT REPORT

Submitted by

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R.VINOTHINI	422115104030

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In

COMPUTER SCIENCE AND ENGINEERING



ST.ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY



ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

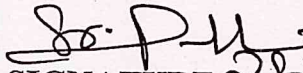


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Certified that this project report "CONTENT BASED IMAGE RETRIEVAL USING FEATURE EXTRACTION WITH ANN ALGORITHM" is the Bonafide work of "R.BOWJIYABANU (422115104011), P.PALLAVI (422115104018), S.SONIYAGANDHI (422115104029), R.VINOTHINI (422115104030)" who carried out the project work under my supervision.


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INTERNAL EXAMINER 27/3/19


EXTERNAL EXAMINER

**SMART HEALTHCARE SYSTEM USING
DATA MINING**

A PROJECT REPORT

Submitted by

T.KAVIYARASI	422115104015
N.HEMALATHA	422115104301
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V.VIJAYALAKSHMI	422115104306

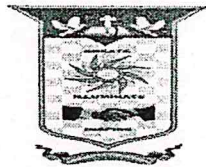
in partial fulfillment for the award of the degree

of

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in

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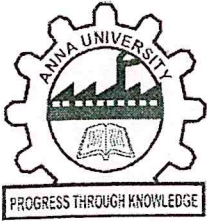


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MARCH 2019



ANNA UNIVERSITY: CHENNAI 600 025



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Certified that this project report "SMART HEALTH CARE SYSTEM USING DATAMINING" is the Bonafide work of "T.KAVIYARASI (422115104015), N.HEMALATHA (422115104301), S.VARALAKSHMI (422115104304) ,V.VIJAYALAKSHMI(422115104306)" who carried out the project work under my supervision.


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Submitted for Project Viva- Voce Examination held on 27.3.19...


INTERNAL EXAMINER


EXTERNAL EXAMINER

A NOVEL COMMUNICATION ASSISTANCE SYSTEM FOR MUTE PEOPLE

A PROJECT REPORT

Submitted by

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S.Vinoth raj	422115104031

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ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019



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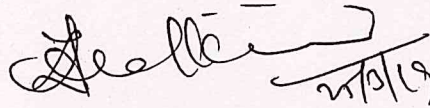
BONAFIDE CERTIFICATE

Certified that this project report "A NOVEL COMMUNICATION ASSISTANCE SYSTEM FOR MUTE PEOPLE" is the bonafide work of "L.MURUGAN (422115104017), S.PRABU (422115104020), S.VINOTH RAJ(422115104031)," who carried out the project work under my supervision.


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Submitted for Project Viva- Voce Examination held on 27/3/19


INTERNAL EXAMINER


EXTERNAL EXAMINER



ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPLAYAM, PANRUTI – 607 110.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT BATCH LIST

2015-2019 BATCH

Sl.No	Register no	Name of the student	Name of the guide	Title of the Project	Related to Curriculum /Subject
1	422115105009	Banupriya P ✓	Ms. J. ARUL MARTINAL	Dragonfly Algorithm Based Forecasting of Substation Demand	POWER SYSTEM
	422115105010	Dhatchayani D ✓			
	422115105016	Keerthana R ✓			
	422115105020	Monica Y ✓			
2	422115105025	Prithivi Bala B	Ms. M. PREMALATHA	Multi Objective Grey Wolf Algorithm Based Optimal Location and Sizing of Svc Devices for Voltage Stability Improvement	POWER SYSTEM
	422115105027	Santhiya R			
	422115105032	Soundharya A			
3	422115105019	Mohammed Shafiuallah M	Mr. V. BALAJI	Carrier Level-Shifted Based Control Method for The PWM 3I-T-Type QZS Inverter with Capacitor Imbalance Compensation	POWER ELECTRONICS
	422115105026	Ragul G ✓			
	422115105035	Vignesh C ✓			
	422115105036	Vignesh M ✓			
4	422115105002	Ajithkumar R ✓	Mr. K. SRIRAM	Performance Improvement Of Photovoltaic System Using Water Wave Optimization Algorithm Based Arduino Controller	POWER SYSTEM
	422115105007	Arunkumar R ✓			
	422115105008	Ashokraj P ✓			
	422115105014	Jayaprathap T ✓			
5	422115105003	Albertwilson J ✓	Mr. A. RICHARD PRAVIN	Dynamic Power Management System Employing Single Stage Power Converter For Standalone Solar Pv Applications	RENEWABLE ENERGY
	422115105004	Anastraj M ✓			
	422115105006	Arulraj V ✓			
	422115105018	Markvilfarkennady K ✓			

6	422115105011	Dinesh S	Mr. A. RICHARD PRAVIN	High step-up dc-dc converter with active soft switching and voltage clamping for renewable energy systems	RENEWABLE ENERGY
	422115105021	Prakash U			
	422115105023	Praveenkumar S			
7	422115105005	Anbumathi S	Mr. V. C. EUGIN MARTIN RAJ	Control strategy of permanent Magnet brushless dc motor with Snubber circuit using fuzzy logic Controller	CONTROL SYSTEM
	422115105013	Harish P			
	422115105024	Praveen Kumar M			
	422115105028	Selvaraj X			
8	422115105037	Yuvaraj R	Mrs. S. LESE	Real time speed control of single-phase induction motor by using VFD drive with Arduino controller and firefly algorithm	SOLID STATE DRIVES
	422115105301	Arivazhagan A			
	422115105305	Ramkumar R			
	422115105306	Selvam K			
9	422115105015	Jayavel P	Mr. J. RAMESH	IoT based induction motor monitoring and controlling by using RASPBERRY- PI"	SOLID STATE DRIVES & EMBEDDED SYSTEM
	422115105022	Prakash Raj A			
	422115105031	Sivapushnam P			
	422115105307	Sindhan M			
10	422115105033	Sundara Vadivel M	Mr. K. Sriram	Partially isolated single magnetic multiport converter-based integration of series resonant converter and bidirectional PWM converter	POWER ELECTRONICS
	422115105304	Mohamed Jubair N			
	422115105308	Suganthan S			
11	422115105001	Abinesh A	Sr. A. Annai Theresa	21 level staircase sinewave inverter with reduced switches and harmonics	POWER ELECTRONICS
	422115105029	Shanmuganantham S			
	422115105030	Sinu Cleetus			
	422115105034	Thamizharasan C			
12	422115105012	Guberan S	Mr. A. Sundara Pandiyan	Arduino controlled PV battery charger for Hybrid electrical applications using L3C resonant converter	POWER ELECTRONICS
	422115105302	Kalaiarasan R			
	422115105303	Manikandan R			

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Coordinator

REAP
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R. Arukiadass
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**DRAGONFLY ALGORITHM BASED
FORECASTING OF SUBSTATION DEMAND**

A PROJECT REPORT

Submitted by

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KEERTHANA. R	422115105016
MONICA. Y	422115105020

in partial fulfillment for the award of the degree

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BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND

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ANGUCHETTYPALAYAM, PANRUTI

ANNA UNIVERSITY : CHENNAI 600 025

MARCH 2019

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**DRAGONFLY ALGORITHM BASED FORECASTING OF SUBSTATION DEMAND**” is the bonafide work of “**BANU PRIYA. P, DHATCHAYANI. D, KEERTHANA. R, MONICA. Y**” who carried out the project work under my supervision.


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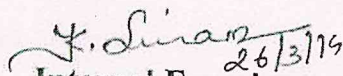

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Submitted for the university examination held on .26.:03.:2019...


Internal Examiner


External Examiner

**MULTI OBJECTIVE GREY WOLF ALGORITHM
BASED OPTIMAL LOCATION AND SIZING OF
SVC DEVICES FOR VOLTAGE STABILITY
IMPROVEMENT**

A PROJECT REPORT

Submitted by

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SANTHIYA. R	422115105027
SOUNDHARYA. A	422115105032

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

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

**ST.ANNE'S COLLEGE OF ENGINEERING AND
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ANNA UNIVERSITY::CHENNAI 600 025

MARCH 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "MULTI OBJECTIVE GREY WOLF ALGORITHM BASED OPTIMAL LOCATION AND SIZING OF SVC DEVICES FOR VOLTAGE STABILITY IMPROVEMENT" is the bonafide work of "B. PRITHIVI BALA, R. SANTHIYA, A. SOUNDHARYA" who carried out the project work under my supervision.


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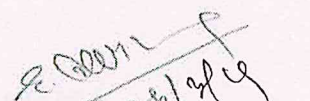
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**CARRIER LEVEL-SHIFTED BASED CONTROL
METHOD FOR THE PWM 3L-T-TYPE QZS INVERTER
WITH CAPACITOR IMBALANCE COMPENSATION**

A PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this project report "CARRIER LEVEL-SHIFTED BASED CONTROL METHOD FOR THE PWM 3L-T-TYPE QZS INVERTER WITH CAPACITOR IMBALANCE COMPENSATION" is the bonafide work of "M. MOHAMMED SHAFTUALLAH, G. RAGUL, C. VIGNESH, M. VIGNESH" who carried out the project work under my supervision.


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**PERFORMANCE IMPROVEMENT OF
PHOTOVOLTAIC SYSTEM USING WATER WAVE
OPTIMISATION ALGORITHM BASED ARDUINO
CONTROLLER**

A PROJECT REPORT

Submitted by

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ARUN KUMAR.R

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APRIL 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**PERFORMANCE IMPROVEMENT OF PHOTOVOLTAIC SYSTEM USING WATER WAVE OPTIMISATION ALGORITHM BASED ARDUINO CONTROLLER**” is the bonafide work of “**R. AJITHKUMAR, R. ARUNKUMAR, P.ASHOKRAJ, T.JAYAPRATHAP**” who carried out the project work under my supervision.


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Mr. K. Sriram, M.E.

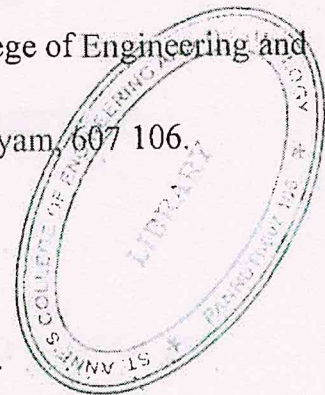
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Submitted for the university examination held on 26.03.2019.


Internal Examiner


External Examiner



**DYANAMIC POWER MANAGEMENT SYSTEM
EMPLOYING SINGLE STAGE POWER CONVERTER
FOR STANDALONE SOLAR PV APPLICATION**

A PROJECT REPORT

Submitted by

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ANASTRAJ. M	422115105004
ARULRAJ. V	422115105006
MARK VILFAR KENNADY. M	422115105018

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APRIL 2019

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DYANAMIC POWER MANAGEMENT SYSTEM EMPLOYING SINGLE STAGE POWER FOR STANDALONE SOLAR PV APPLICATION" is the bonafide work of "J. ALBERT WILSON, M. ANASTRAJ, V. ARULRAJ, K. VILFAR KENNADY" who carried out the project work under my supervision.

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A. Richard Pravin

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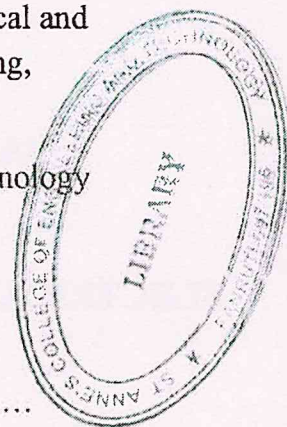
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Submitted for the university examination held on 26/03/19.....

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INTERNAL EXAMINER

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EXTERNAL EXAMINER

**HIGH STEP-UP DC-DC CONVERTER WITH ACTIVE
SOFT-SWITCHING AND VOLTAGE-CLAMPING FOR
RENEWABLE ENERGY SYSTEMS**

A PROJECT REPORT

Submitted by

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ANNA UNIVERSITY :: CHENNAI 600 025

MARCH 2019

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "HIGH STEP UP DC-DC CONVERTER WITH ACTIVE SOFT SWITCHING AND VOLTAGE CLAMPING FOR RENEWABLE ENERGY SYSTEM" is the bonafide work of "S.DINESH, U.PRAKASH, S.PRAVEENKUMAR" who carried out the project work under my supervision.

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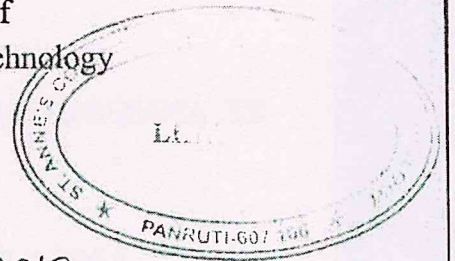
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Submitted for the university examination held on .26.03.2019

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26/3/17
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S. Praveenkumar
26/3/17
EXTERNAL EXAMINER

**CONTROL STRATEGY OF PERMANENT
MAGNET BRUSHLESS DC MOTOR WITH
SNUBBER CIRCUIT USING FUZZY LOGIC
CONTROLLER**

A PROJECT REPORT

Submitted by

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422115105005

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APRIL 2019

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “CONTROL STRATEGY OF PERMANENT MAGNET BRUSHLESS DC MOTOR WITH SNUBBER CIRCUIT USING FUZZY LOGIC CONTROLLER” is the bonafide work of “ANBUMATHI. S, HARISH. P, PRAVEEN KUMAR. M, SELVARAJ. X” who carried out the project work under my supervision.


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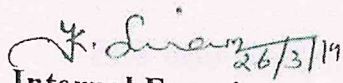

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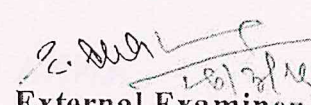
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Internal Examiner


External Examiner

**REAL TIME SPEED CONTROL OF SINGLE
PHASE INDUCTION MOTOR BY USING VFD
DRIVE WITH ARDUINO CONTROLLER AND
FIREFLY ALGORITHM**

A PROJECT REPORT

Submitted by

YUVARAJ. R	422115105037
ARIVAZHAGAN. A	422115105301
RAMKUMAR. R	422115105305
SELVAM. K	422115105306

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APRIL 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "REAL TIME SPEED CONTROL OF SINGLE PHASE INDUCTION MOTOR BY USING VFD DRIVE WITH ARDUINO CONTROLLER AND FIREFLY ALGORITHM" is the bonafide work of "YUVARAJ. R, ARIVZHAGAN. A, RAMKUMAR. R, SELVAM. K" who carried out the project work under my supervision.


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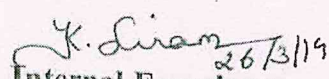
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Submitted for the university examination held on 26/3/2019


Internal Examiner


External Examiner

**IOT BASED INDUCTION MOTOR
MONITORING AND CONTROLLING BY USING
RASPBERRY-PI**

A PROJECT REPORT

Submitted by

JAYAVEL. P	422115105015
PRAKASH RAJ. A	422115105022
SIVAPUSHNAM. P	422115105031
SINDHAN. M	422115105307

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APRIL 2019

ANNA UNIVERSITY : CHENNAI 600025

BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED INDUCTION MOTOR MONITORING AND CONTROLLING BY USING RASPBERRY-PI" is the bonafide work of "P.JAYAVEL, A.PRAKASH RAJ, P.SIVAPUSHNAM, M.SINDHAN" who carried out the project work under my supervision.


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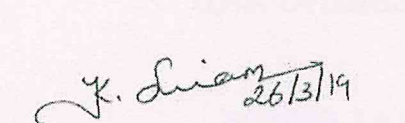

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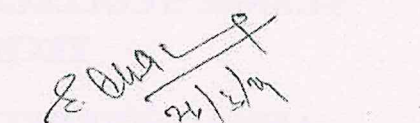
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Submitted for the university examination held on 26.03.2019


INTERNAL EXAMINER


EXTERNAL EXAMINER

**PARTIALLY ISOLATED SINGLE MAGNETIC
MULTI-PORT CONVERTER BASED INTEGRATION
OF SERIES RESONANT CONVERTER AND
BIDIRECTIONAL PWM CONVERTER**

A PROJECT REPORT

Submitted by

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ANNA UNIVERSITY : : CHENNAI 600 025

MARCH 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "**PARTIALLY ISOLATED SINGLE MAGNETIC MULTIPOINT CONVERTER BASED INTEGRATION OF SERIES RESONANT CONVERTER AND BIDIRECTIONAL PWM CONVERTER**" is the bonafide work of "**SUNDARAVADIVEL.M, MOHAMEDJUBAIR.N, SUGANTHAN.S**" who carried out the project work under my supervision.


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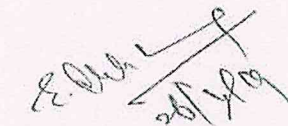
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Internal Examiner


External Examiner

21 LEVEL STAIRCASE SINEWAVE INVERTER
WITH REDUCED SWITCHES AND HARMONICS

A PROJECT REPORT

Submitted by

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MARCH 2019

ANNA UNIVERSITY: CHENNAI 600025

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Certified that this project report "21 LEVEL STAIRCASE SINEWAVE INVERTER WITH REDUCED SWITCHES AND HARMONICS" is the bonafide work of "ABINESH.A, SHAMUGANANTHAM.S,SINUCLEETUS,THAMIZHARASAN.C" who carried out the project work under my supervision.


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Submitted for the university examination held on 26.03.19


INTERNAL EXAMINER


EXTERNAL EXAMINER

**ARDUINO CONTROLLED PV BATTERY CHARGER
FOR HYBRID ELECTRICAL APPLICATIONS USING
L3C RESONANT CONVERTER**

A PROJECT REPORT

Submitted by

GUBERAN.S	422115105012
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MANIKANDAN.R	422115105303

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APRIL 2019

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Certified that this project report "ARDUINO CONTROLLED PV BATTERY CHARGER FOR HYBRID ELECTRICAL APPLICATIONS USING L3C RESONANT CONVERTER" is the bonafide work of "S.GUBERAN, R.KALAIARASAN, R.MANIKANDAN" who carried out the project work under my supervision.


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Internal Examiner


External Examiner



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COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
(An ISO 9001: 2015 Certified Institution)
ANGUCHETTYPALAYAM, PANRUTI - 607 106.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT BATCH LIST

PERIOD: DEC - MAY 2019

BATCH: 2015-2019

YEAR/ SEMESTER: IV / VIII

S. No.	REGISTER NO.	NAME	NAME OF THE GUIDE	TITLE OF THE PROJECT
1	422115106003	Avila Vinnarasi R	Mrs. B. Mary Amala Jenni, AP	Reinforcement Impedance Bandwidth for UWB Angular circular ring Antenna
	422115106004	Elavarasi T		
	422115106007	Kanchana K		
2	422115106011	Stella S	Ms. S. K. Suriya, AP	Design and Implementation of Drawing Robot using Embedded system
	422115106012	Suganya E		
	422115106013	Varsha B		
3	422115106006	Ilayarani M	Mrs. D. Umamaheswari, ASP Mr. S. Durai Raj, AP	Implementation of Image Processing Technique for Detection of Brain Tumors using MRI
	422115106008	Meera M		
	422115106501	Karanya G		
4	422115106005	Guru S	Mr. V. Venkatesan, AP Ms. B. ArunKumar, AP	Design of 32-Bit Vedic and Array Multiplier
	422115106014	Vignesh M		
	422115106303	Manibalan S		
5	422115106002	Arokiya Michel John D	Ms. S. Devika, AP	IoT based Automated Blood Bank system
	422115106010	Selvakannaiya T		
	422115106302	Hariprasath C		

S. Madhavan
PREPARED BY 5/11/19

Se-h
VERIFIED BY 5/11/19

R. Ghosh
APPROVED BY 15.11.19

**A NOVEL DUAL BROAD BAND MODIFIED CIRCULAR
PATCH ANTENNA FOR WIRELESS APPLICATION**

A PROJECT REPORT

Submitted by

R.AVILA VINNARASI - 422115106003
T.ELAVARASI - 422115106004
K.KANCHANA - 422115106007

in partial fulfillment for the award of the degree

of

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in

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ST.ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

ANGUCHETTPALAYAM, PANRUTI-607 106

ANNA UNIVERSITY:: CHENNAI 600 025

MARCH 2019

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "A NOVEL DUAL BROAD BAND MODIFIED CIRCULAR PATCH ANTENNA FOR WIRELESS APPLICATION" is the confide work of "R.AVILA VINNARASI (422115106003), T.ELAVARASI (422114106004), K.KANCHANA (422115106007) " who carried out the project work under my supervision.


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Sr. S.ANITA., M. Tech, (Ph. D),
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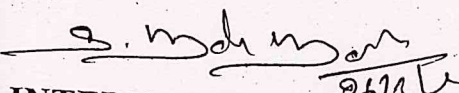
Electronics and Communication
Engineering
St. Anne's College of Engg. &Tech.
Anguchettypalayam , Panruti - 607106

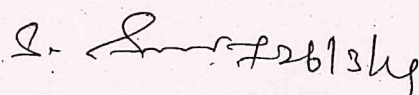

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Mrs. B. MARY AMALA JENNI.,
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Assistant Professor
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Anguchettypalayam , Panruti - 607106

Submitted for the ANNA UNIVERSITY examination held on 26/3/19


INTERNAL EXAMINER 26/3/19


EXTERNAL EXAMINER

**DESIGN AND IMPLEMENTATION OF DRAWING ROBOT
USING EMBEDDED SYSTEM**

A PROJECT REPORT

Submitted by

S.STELLA	422115106011
E.SUGANYA	422115106012
B.VARSHA	422115106013

in partial fulfillment for the award of the degree

of

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ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

ANGUCHETTYPALAYAM, PANRUTI- 607 106

ANNA UNIVERSITY : CHENNAI 600 025

MARCH 2019

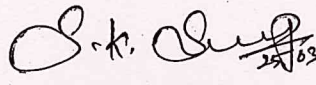
ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**DESIGN AND IMPLEMENTATION OF DRAWING ROBOT BY USING EMBEDDED SYSTEM**” is the bonafide work of **S.STELLA (422115106011), E.SUGANYA(422115106012), B.VARSHA (422115106013)**” who carried out the project work under my supervision.

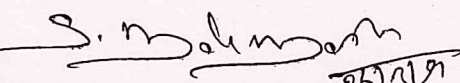

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Submitted for the ANNA UNIVERSITY examination held on 26.3.19


INTERNAL EXAMINER


EXTERNAL EXAMINER

**IMPLEMENTATION OF IMAGE PROCESSING TECHNIQUE
FOR DETECTION OF BRAIN TUMORS USING MRI**

A PROJECT REPORT

Submitted by

M.ILAIYA RANI 422115106006

M.MEERA 422115106008

G.KARANYA 422115106501

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

ANGUCHETTYPALAYAM, PANRUTI-607 106

ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

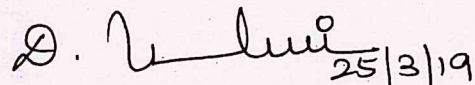
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "IMPLEMENTATION OF IMAGE PROCESSING TECHNIQUE FOR DETECTION OF BRAIN TUMORS USING MRI" is a bonafide work of "M. ILAIYA RANI (422115106006), M. MEERA (422115106008), G. KARANYA (422115106501)" who carried out the project work under my supervision.


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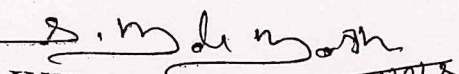
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Submitted for the ANNA UNIVERSITY examination held on 26.3.2019.


INTERNAL EXAMINER


EXTERNAL EXAMINER

**DESIGN OF 32-BIT VEDIC AND ARRAY
MULTIPLIER**

A PROJECT REPORT

Submitted by

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S.MANIBALAN	422115106303

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ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

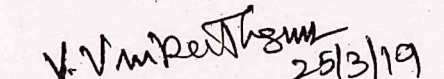
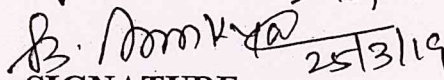
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN OF 32-BIT VEDIC AND ARRAY MULTIPLIER" is a bonafide work of "S.GURU (422115106014), M.VIGNESH (422115106014), S.MANIBALAN (422115106303)" who carried out the project work under my supervision.

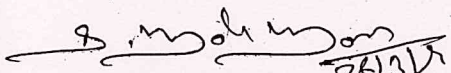

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Submitted for the ANNA UNIVERSITY examination held on 26.3.19


26/3/19
INTERNAL EXAMINER


26/3/19
EXTERNAL EXAMIER

IOT BASED SMART BLOOD BANK SYSTEM

A PROJECT REPORT

Submitted by

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D. AROKIA MICHEAL	422115106002
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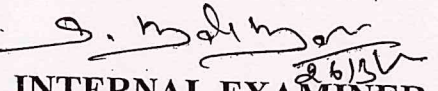
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INTERNAL EXAMINER 26/3/19


EXTERNAL EXAMIER 26/3/19



ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

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

(An ISO 9001 : 2015 Certified Institution)

ANGUCHETTYPALAYAM, PANRUTI – 607 110.

DEPARTMENT OF MECHANICAL ENGINEERING

ME6811PROJECT WORK


BATCH 2015- 2019

YEAR/SEM: IV/VIII

Batch No	Reg.No	Student Name	Title	Guide Name
1	422115114021	Kavisanthan.S	Combined Effect Of Nanoparticle And EGR On Performance And Emission Characteristics Of A Single Cylinder Diesel Engine Using Waste Transformer Oil - Dee Blend.	Dr. D. Ommurugadhasan., Professor & Head Department of Mechanical.
	422115114022	Lenien.S		
	422115114033	Pugazhenthii.P		
	422115114305	A.Susindhar		
2	422115114024	Mugilan.K	An Experimental Study Of Wear Rate Of The Tools Selected For Friction Stir Welding On Commercial Graded Aluminum Alloy.	Mr. T. Elangovan., Assistant Professor, Department of Mechanical.
	422115114025	Muralidharan.K		
	422115114027	Nithiyandham.K		
	422115114039	Saravanakumar.C		
3	422115114002	Ajithkumar.V	IIOT Enabled Automated Guided Vehicle For Manufacturing Industrial 4.0	Mr. T. Elangovan., Assistant Professor, Department of Mechanical.
	422115114003	Alan Arputha Raj.T		
	422115114026	Naveen Kumar.S		
	422115114043	Shanmugapandian.V		

4	422115114020	Jothibas.M	Comparison Of Mechanical Characterization Of Glass And Chicken Feather Epoxy Composite Natural Fiber Composite	Mr. K. Shanmuga Elango., Assistant Professor, Department of Mechanical.
	422115114023	Manikandan.J		
	422115114031	Prasanth.B		
	422115114304	M.Santhoshkumar		
5	422115114007	Arul Dass.A	Fabrication And Analysis Of Corrosion Behavior Of Magnesium AZ91 Hybrid Composites	Mr. T. Elangovan., Assistant Professor, Department of Mechanical.
	422115114018	Jaganraj.R		
	422115114032	Pratheep Raj.E		
	422115114035	Rajmohan.R		
6	422115114047	Subash. S	Design And Development Of Solar Power Refrigerator	Mrs. Annie John, Assistant Professor, Department of Mechanical.
	422115114051	Veerapandy. S		
	422115114056	Yogeshwar. K		
	422115114302	Dhanasekar. V		
7	422115114044	Siva.G	Effects Of Nano Metal Oxide Blended Juliflora Bio- Diesel On DI Engine	Mr. R. Sasikumar., Assistant Professor, Department of Mechanical.
	422115114049	Sundarabharthi.D		
	422115114050	Thajudeen.R		
	422115114301	Abdul Nivas. J		
8	422115114015	Hariharan.A	Design And Fabrication Of Agriculture Cutter Using Four Bar Mechanism	Mr. P. Murugan., Assistant Professor, Department of Mechanical.
	422115114017	Jagan. SP		
	422115114045	Sivan Raj. C		
	422115114306	Vijaya Baskar. A		
9	422115114028	Padmanathan.D	Influence Of Welding Parameters On Hardness Parameters For Friction Stir Welding Similar And Dissimilar Commercial Grade Aluminum Alloys	Mr. K. Shanmuga Elango., Assistant Professor, Department of Mechanical.
	422115114034	Rajadurai.R		
	422115114048	Sujin.A		
	422115114303	R.Rajesh		
10	422115114001	Ajai.D	Design And Fabrication Of Elliptical Cycle And Produce Electrical Energy With	Mr. K. Saravanan., Assistant Professor, Department of Mechanical.
	422115114006	Aravintha Raj.T		
	422115114009	Balamurali.M		
	422115114010	Balamurugan.V		

			Help Of Piezoelectric Transducers.	
11	422115114008	Arun Kumar.M	Design And Fabrication Of Foldable Motorcycle	Mr. K. Saravanan., Assistant Professor, Department of Mechanical
	422115114019	Jai Hindh.J		
	422115114029	Parthiban.K		
	422115114030	Parthiban.S		
12	422115114036	Rakesh.R	IOT Based Automatic Vehicle Accident Information System Used In Automobiles.	Mr. R. Jayakumar., Assistant Professor, Department of Mechanical.
	422115114037	Sakthivel.S		
	422115114040	Sarvin Kumar.S		
	422115114053	Vijay.A		
13	422115114011	Bhuvana.M	Corrosion Properties And Characterization Of Aluminum Metal Matrix Hybrid Composites.	Dr. D. Ommurugadhasan., Professor & Head Department of Mechanical.
	422115114013	Dinesh.A		
	422115114038	Saranya.S		
	422115114055	Vishnupriya.C		


27/3/19
PROJECT CO ORDINATOR


27/3/19
HOD


27.3.19
PRINCIPAL

COMBINED EFFECT OF NANOPARTICLE AND EGR ON
PERFORMANCE AND EMISSION CHARACTERISTICS OF
A SINGLE CYLINDER DIESEL ENGINE USING WASTE
TRANSFORMER OIL - DEE BLEND

A PROJECT REPORT

Submitted by

S.KAVISANTHAN

422115114021

S.LENIN

422115114022

P.PUGAZHENTI

422115114033

A.SUSINDHAR

422115114305

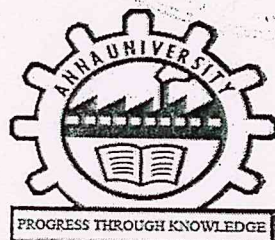
In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING



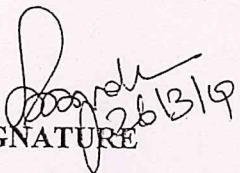
ANNA UNIVERSITY: CHENNAI 600025

MARCH 2019

ANNA UNIVERSITY: CHENNAI-6000025

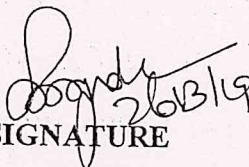
BONAFIDE CERTIFICATE

Certified that this project report "COMBINED EFFECT OF NANOPARTICLE AND EGR ON PERFORMANCE AND EMISSION CHARACTERISTICS OF A SINGLE CYLINDER DIESEL ENGINE USING WASTE TRANSFORMER OIL - DEE BLEND" is the bonafide work of KAVISANTHAN.S (422115114021), LENIN.S (422115114022), PUGAZHENTHLP (422115114033) and SUSINDHAR.A (422115114305) who carried out the project under my supervision.


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Dr. D. Ommurugadhasan M.E., Ph.D.,
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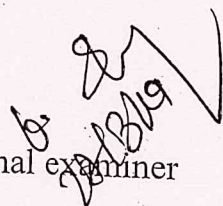
Department of Mechanical Engineering
St. Anne's College of Engineering &
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Panruti-607110

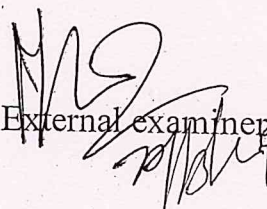

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Submitted for project viva-voce examination held on 27/5/19 (A.N)


Internal examiner


External examiner

**AN EXPERIMENTAL STUDY ON WEAR RATE OF THE
TOOLS SELECTED FOR FRICTION STIR WELDING ON
COMMERCIAL GRADED ALUMINIUM ALLOY**

A Project Report

Submitted by

K.MUGILAN	(422115114024)
K.MURALIDHARAN	(422115114025)
K.NITHIYANANDHAM	(422115114027)
C.SARAVANAKUMAR	(422115114039)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

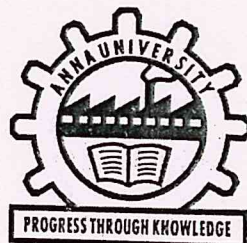
IN

MECHANICAL ENGINEERING

ST. ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

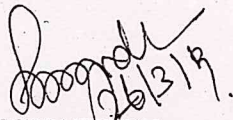


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "AN EXPERIMENTAL STUDY ON WEAR RATE OF THE TOOLS SELECTED FOR FRICTION STIR WELDING ON COMMERCIAL GRADED ALUMINIUM ALLOY" is the bonafidework of K.MUGILAN (422115114024), K.MURALIDHARAN (422115114025), K.NITHIYANANDHAM (422115114027) and C.SARAVANAKUMAR (422115114039) who carried out the project under my supervision.



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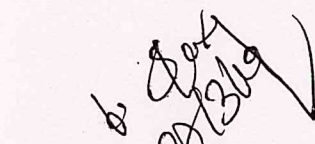
Dr. Ommurugadhasan. M.E,Ph.D.
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Panruti-607110



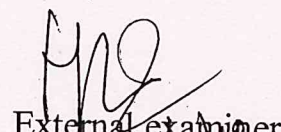
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Submitted for project viva-voce examination held on 27.03.19 /AN



Internal examiner



External examiner

**IIOT ENABLED AUTOMATED GUIDED VEHICLE FOR
MANUFACTURING INDUSTRIAL 4.0**

A PROJECT REPORT

Submitted by

AJITH KUMAR.V

422115114002

ALAN ARPUTHA RAJ.T

422115114003

NAVEEN KUMAR.S

422115114026

SHANMUGA PANDIAN.V

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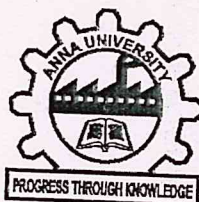
IN

MECHANICAL ENGINEERING

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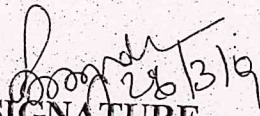


ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

BONAFIDE CERTIFICATE

Certified that this project report "FABRICATION AND ANALYSIS OF CORROSION BEHAVIOUR OF MAGNESIUM AZ91 HYBRID COMPOSITES" is the bonafide work of A.ARULDASS(422115114007), R.JAGANRAJ(422115114018), E.PRATHEEP RAJ(422115114032), and R.RAJ MOHAN(422115114035) who carried out the project under my supervision.

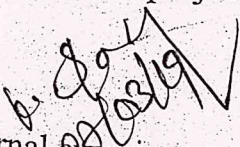

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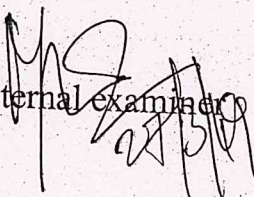

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Submitted for project viva-voice examination held on 27-03-2017


Internal examiner


external examiner

**COMPARISON OF MECHANICAL
CHARACTERIZATION OF GLASS AND CHICKEN
FEATHER EPOXY COMPOSITE NATURAL FIBER
COMPOSITE**

A PROJECT REPORT

Submitted by

M.JOTHIBASU	(422115114020)
J.MANIKANDAN	(422115114023)
B.PRASANTH	(422115114031)
M.SANTHOSH KUMAR	(422115114304)

In partial fulfillment for the award of the degree

Of

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IN

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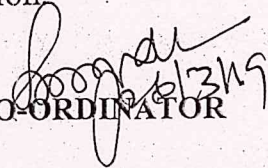
ANNA UNIVERSITY: CHENNAI 600 025

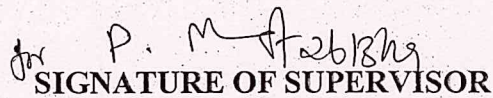
APRIL 2019

ANNA UNIVERSITY: CHENNAI 600 025

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ed that this project report “**COMPARISON OF MECHANICAL CHARACTERIZATION OF GLASS AND CHICKEN FEATHER EPOXY COMPOSITE NATURAL FIBER COMPOSITE**” is the bonafide work of **THIBASU(422115114020), J.MANIKANDAN(422115114023), B.PRASANTH(422115114031) and M.SANTHOSH KUMAR (422115114304)**, who carried out the project under my supervision

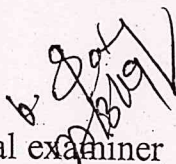

SIGNATURE OF CO-ORDINATOR

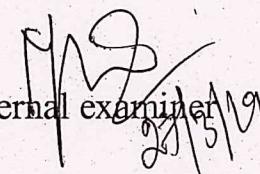

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Submitted for project viva-voice examination held on 27/3/19 / FN


INTERNAL EXAMINER


EXTERNAL EXAMINER

**FABRICATION AND ANALYSIS OF CORROSION
BEHAVIOUR OF MAGNESIUM AZ91 HYBRID
COMPOSITES**

A Project Report

Submitted by

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R.JAGANRAJ	(422115114018)
E.PRATHEEP RAJ	(422115114032)
R.RAJ MOHAN	(422115114035)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

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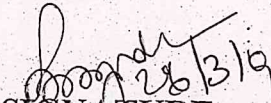


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

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Certified that this project report "FABRICATION AND ANALYSIS OF CORROSION BEHAVIOUR OF MAGNESIUM AZ91 HYBRID COMPOSITES" is the bonafide work of A.ARULDASS(422115114007), R.JAGANRAJ(422115114018), E.PRATHEEP RAJ(422115114032), and R.RAJ MOHAN(422115114035) who carried out the project under my supervision.

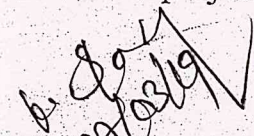

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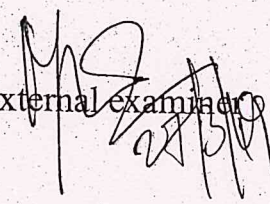

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Submitted for project viva-voice examination held on 27-03-2017


Internal examiner


external examiner

**DESIGN AND DEVELOPMENT OF SOLAR POWER
REFRIGERATOR
A PROJECT REPORT
SUBMITTED BY**

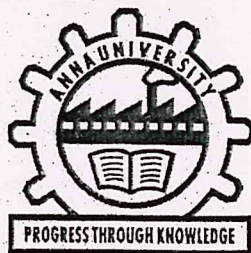
S.SUBASH	(422115114047)
S.VEERAPANDY	(422115114051)
K.K.YOGESHWAR	(422115114056)
V.DHANASEKAR	(422115114302)

in partial fulfillment for the award of the degree

Of

**BACHELOR OF ENGINEERING
IN
MECHANICAL ENGINEERING**

**ST.ANNE'S
COLLEGE OF ENGINEERING & TECHNOLOGY
PANRUTI-607110**



ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND DEVELOPMENT OF SOLAR POWER REFRIGERATOR" is the bonafide work of S.SUBASH (422115114047), S.VEERAPANDY (422115114051), K.K.YOGESHWAR (422115114056) and V.DHANASEKAR (422115114302) who carried out the project under my supervision.

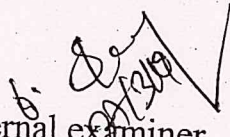

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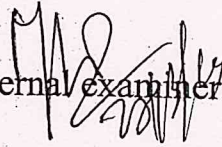
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Submitted for project viva-voice examination held on 27-03-2019


Internal examiner


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**EFFECTS OF NANO METAL OXIDE BLENDED JULIFLORA
BIODIESEL ON DI ENGINE**

A Project Report

Submitted by

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R.THAJUTHEEN	422115114050
J.ABDUL NIYAS	422115114301

In partial fulfilment for the award of the degree

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ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2019

BONAFIDE CERTIFICATE

Certified that this project report **“EFFECTS OF NANO METAL OXIDE BLENDED JULIFLORA BIODIESEL ON DI ENGINE”** is the bonafide work of **SIVA.G (422115114044), SUNDARABHARATHI.D (422115114049), THAJUTHEEN.R (422115114050) & ABDUL NIYAS.J (422115114301)** who carried out the project work under my supervision.



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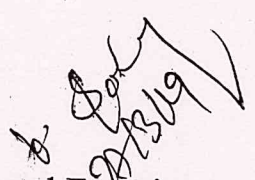


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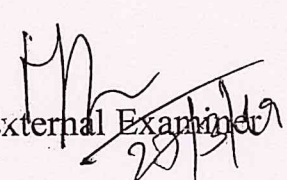
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Panruti 607 106.

The Project Viva-Voce examination held on 27/3/2019...F.N.....



Internal Examiner



External Examiner

**DESIGN AND FABRICATION AGRICULTURE CUTTER
USING 4 BAR MECHANISM**

A Project Report

Submitted by

A.HARIHARAN

(422115114015)

S.P.JAGAN

(422115114017)

C.SIVAN RAJ

(422115114045)

A.VIJAYA BASKAR

(422115114306)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

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COLLEGE OF ENGINEERING & TECHNOLOGY

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ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION AGRICULTURE CUTTER USING 4 BAR MECHANISM" is the bonafide work of A.HARIHARAN (422115114015), S.P.JAGAN (422115114017), C.SIVAN RAJ (422115114045) and A.VIJAYA BASKAR (422115114306) who carried out the project under my supervision.

signature
nature co-ordinator

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signature of supervisor

Mr. P.MURUGAN M.E.,

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Submitted for project viva-voice examination held on 27/03/2019 FN

signature
Internal Examiner

signature
external examiner

**INFLUENCE OF WELDING PARAMETERS ON HARDNESS
PARAMETER FOR FRICTION STIR WELDED SIMILAR AND
DISSIMILAR COMMERCIAL GRADED ALUMINIUM ALLOYS**

A PROJECT REPORT

Submitted by

D.PADMANATHAN

(422115114028)

R.RAJADURAI

(422115114034)

A.SUJIN

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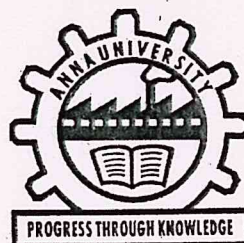
IN

MECHANICAL ENGINEERING

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COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607106

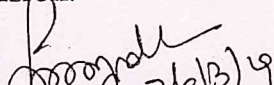


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "INFLUENCE OF WELDING PARAMETERS ON HARDNESS PARAMETER FOR FRICTION STIR WELDED SIMILAR AND DISSIMILAR COMMERCIAL GRADED ALUMINIUM ALLOYS" is the bonafide work of D.PADMANATHAN (422115114028), R.RAJADURAI (422115114034), A.SUJIN (422115114048) and R.RAJESH(422115114303) who carried out the project under my supervision.

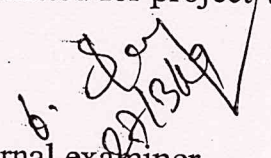

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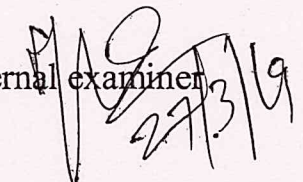
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Submitted for project viva-voice examination held on 27-03-19 AN


Internal examiner


external examiner

**DESIGN AND FABRICATION OF ELLIPTICAL CYCLE AND
PRODUCE ELECTRICAL ENERGY WITH HELP OF
PIEZOELECTRIC TRASDUCERS**

A PROJECT REPORT

Submitted by

D.AJAI	422115114001
T.ARAVINTHRAJ	422115114006
M.BALAMURALI	422115114009
V.BALAMURUGAN	422115114010

In partial fulfillment for the award of the degree

Of

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IN

MECHANICAL ENGINEERING

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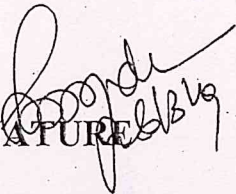
ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

certified that this project report "DESIGN AND FABRICATION OF ELLIPTICAL CYCLE AND PRODUCE ELECTRICAL ENERGY WITH HELP OF PIEZOELECTRIC TRANSDUCERS" is the bonafide work of "D.AJAI, SARAVINTHAJ, M.BALAMURALI, V.BALAMURUGAN" who carried out the project work under my supervision.


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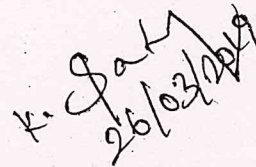
Mr. D. OMMURUGADHASAN, ME., Ph.D.,

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26/03/2019

SIGNATURE

Mr. K. SARAVANAN, ME.,

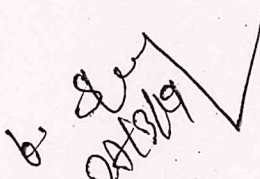
Supervisor

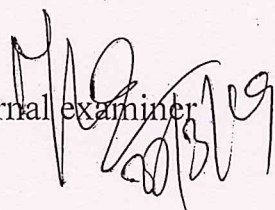
Dept. of Mechanical Engineering

St. Anne's college of engineering

and technology, Panruti.

The project viva-voce examination held on 27-3-2019 (FN).....


27/3/19
External examiner


27/3/19
External examiner

DESIGN AND DEVELOPMENT OF FOLDABLE MOTOR BIKE

A PROJECT REPORT

Submitted by

M.ARUNKUMAR 422115114008

J.JAIHINDH 422115114019

K.PARTHIBAN 422115114029

S.PARTHIBAN 422115114030

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

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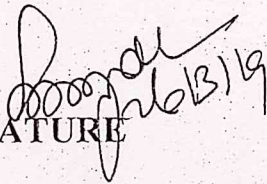


ANNA UNIVERSITY: CHENNAI 600 025

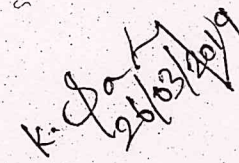
MARCH 2019

BONAFIDE CERTIFICATE

certified that this project report "DESIGN AND DEVELOPMENT OF FOLDABLE MOTOR BIKE" is the bonafide work of "M.ARUNKUMAR, J.JAIHINDH, PARTHIBAN, S.PARTHIBAN" who carried out the project work under my supervision

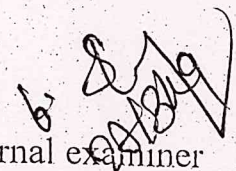

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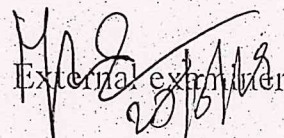
Mr. D. OMMURUGADHASAN, ME., Ph.D
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The project viva-voce examination held on..... 27.03.2019 / AN


Internal examiner


External examiner

**IOT BASED AUTOMATIC VEHICLE ACCIDENT
INFORMATION SYSTEM USED IN AUTOMOBILES**

A PROJECT REPORT

Submitted by

R.RAKESH

422115114036

S.SAKTHIVEL

422115114037

S.SARVIN KUMAR

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A.VIJAY

422115114053

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IN

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ANNA UNIVERSITY: CHENNAI 600025

MARCH 2019

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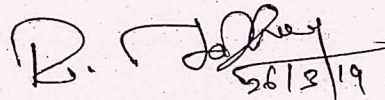
BONAFIDE CERTIFICATE

Certified that this project report "IOT BASED AUTOMATIC VEHICLE ACCIDENT INFORMATION SYSTEM USED IN AUTOMOBILES" is the bonafide work of RAKESH.R (422115114036), SAKTHIVEL.S (422115114037), SARVIN KUMAR.S (422115114040) and VIJAY.A (422115114053) who carried out the project under my supervision.



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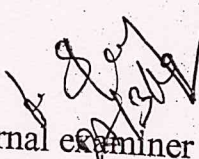
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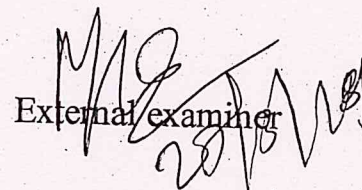
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Submitted for project viva-voce examination held on 27.03.19 / AN



Internal examiner



External examiner

**CORROSION PROPERTIES AND
CHARACTERIZATION OF ALUMINIUM METAL
MATRIX HYBRID COMPOSITES**

A PROJECT REPORT

Submitted by

BUVANA. M	422115114011
DINESH. A	422115114013
SARANYA. S	422115114038
VISHNUPRIYA. C	422115114055

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

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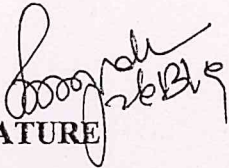


ANNA UNIVERSITY: CHENNAI 600025

MARCH/APRIL 2019

BONAFIDE CERTIFICATE

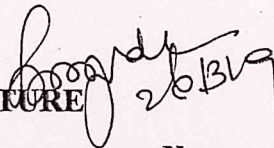
Certified that this project report "CORROSION PROPERTIES AND CHARACTERIZATION OF ALUMINIUM METAL MATRIX HYBRID COMPOSITES" is the bonafide work of **BUVANA. M (422115114011), DINESH. A (422115114013), SARANYA. S (422115114038), VISHNUPRIYA. C (422115114055)** who carried out the project under my supervision.



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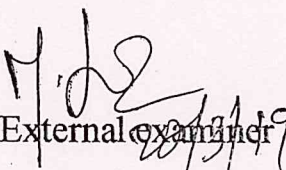


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Submitted for project viva voce examination held on 27.03.19 AN



Internal examiner



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ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

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ST. ANNE'S

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ANGUCHETTYPALAYAM, PANRUTI – 607 110.

DEPARTMENT OF MECHANICAL ENGINEERING

ME6612 DESIGN AND FABRICATION PROJECT

BATCH 2016- 2020

YEAR/SEM: III/VI

S.NO	REG.NO	NAME	TITLE	NAME OF THE GUIDE
1	422116114301	Gokul.A	Design And Fabrication Lathe performance Monitoring using IOT	Dr.D.Ommurugadhasan Professor & Head Department of Mechanical
	422116114302	Lingeswaran.K.B		
	422116114039	Selvakumar.P		
2	422116114029	Pugazhendi G	Design And Fabrication Of Waste Heat Using Heat Pipe and Thermo Electric Generator	Mr.R.Sasikumar Assistant Professor Department of Mechanical
	422116114043	Velankumar S		
	422116114032	Rajamani T		
	422116114305	Surendhar Kumar N		
3	422116114007	Charan P	Design And Fabrication Of Intelligent Breaking	Mr.R.Jayakumar Assistant Professor Department of Mechanical
	422116114008	Dhinesh M		
	422116114018	Jegan.S		
4	422116114020	Kalairasigan D	Design And Fabrication Of Geneva Conveyor	Mr.R.Jayakumar Assistant Professor Department of Mechanical
	422116114003	Albrit S		
	422116114011	Ganesh A		
	422116114019	John Maneesh A		
5	422116114023	Mohanraj B	Design and Fabrication of Double Hacksaw Using Scotch Yoke Mechanism	Mr.K.Saravanan., Assistant Professor Department of Mechanical
	422116114024	Nathinraj S		
	422116114027	Prasanth A		
	422116114028	Pratheep T		
6	422116114035	Rajkumar A	Design and Fabrication of Air Engine	Sr.Josephine Mary Assistant Professor Department of Mechanical
	422116114041	Sujith Raj A		

	422116114040	Sethuraman A		
	422116114036	Ramkumar R		
7	422116114001	Agilan M	Design and Fabrication of Multipurpose Machine	Mr.K.ShanmugaElango Assistant Professor Department of Mechanical
	422116114002	Ajeeth Kumar M		
	422116114010	Edwinraj P		
	422116114012	Gunaseelan B		
8	422116114004	Arulkumar K	Design and Fabrication of Sliding Ram by Using Quick Return Mechanism	Mr.T.Elangovan Assistant Professor Department of Mechanical
	422116114006	Bharath B		
	422116114014	Gunasekaran S		
	422116114016	Jayachandiran S		
9	422116114026	Prakash A	Design and Fabrication of Mini Wood Lathe Machine	Mr.K.ShanmugaElango Assistant Professor Department of Mechanical
	422116114030	Ragulraj M		
	422116114033	Rajamurugan S		
	422116114034	Rajan M		
10	422116114038	Sathishkumar.A	Design and Fabrication of Power generating Shock Absorber	Mrs. Annie John Assistant Professor Department of Mechanical
	422116114044	Vetrivel S		
	422116114045	Vignesh M S		
11	422116114037	Saleth Raj S	Design and Fabrication of Automatic Seed Sowing Machine	Mr.P.Murugan Assistant Professor Department of Mechanical
	422116114042	Varadharaj A		
	422116114046	Vimalraj V		
	422116114501	Sathishkumar M		
12	422116114008	Dhinesh M	Design And Fabrication Of Mini Hydro Power Plant	Mr.R.Sasikumar Assistant Professor Department of Mechanical
	422116114013	Gunasekaran D		
	422116114021	Manikandan A		
	422116114022	Mirza Hasan H		

PROJECT CO ORDINATOR

HOD

PRINCIPAL

**DESIGN AND FABRICATION LATHE PERFORMANCE
MONITORING USING IOT**

A Project Report

Submitted by

A.GOKUL	(422116114301)
K.B.LINGESHWARAN	(422116114302)
P.SELVAKUMAR	(422116114039)

in partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

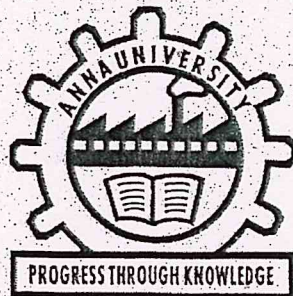
IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

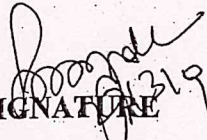


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION LATHE PERFORMANCE MONITORING USING IOT" is the bonafide work of
A.GOKUL (422116114302), K.B.LINGESHWARAN (422116114302),
P.SELVAKUMAR (422116114039) who carried out the project under my
supervision.


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Dr. Ommurugadhasan. M.E,Ph.D.

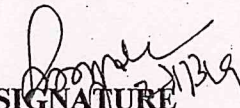
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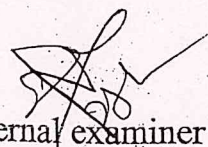
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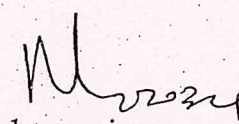
St.Anne's college of engineering &

technology

Panruti-607110

Submitted for project viva-voice examination held on 27/3/19 RAN


Internal examiner


external examiner

**DESIGN AND FABRICATION OF WASTE HEAT USING HEAT
PIPE AND THERMO ELECTRIC GENERATOR**

A Project Report

Submitted by

G.PUGAZHENDI	(422116114029)
T.RAJAMANI	(422116114032)
S.VELANKUMAR	(422116114043)
N.SURENDHARKUMAR	(422116114305)

in partial fulfilment for the award of the degree

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COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

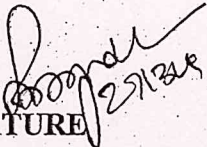


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF WASTE HEAT USING HEAT PIPE AND THERMO ELECTRIC GENERATOR" is the bonafide work of G.PUGAZHENDI (422116114029), T.RAJAMANI (422116114032), S.VELANKUMAR (422116114043) and N.SURENDHARKUMAR (422116114305) who carried out the project under my supervision.



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Dr. R. Ommurugadhasan. M.E,Ph.D.

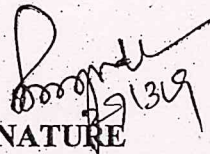
(Head of Mechanical Department)

Department of mechanical engineering

St.Anne's college of engineering &

Technology

Panruti-607110



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Mr.R.SASIKUMAR. M.E.,

(Asst. Professor & Project Guide)

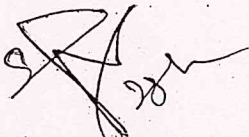
Department of mechanical engineering

St.Anne's college of engineering &

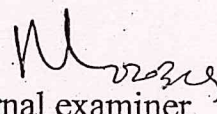
technology

Panruti-607110

Submitted for project viva-voice examination held on 27/03/2019 DAN



Internal examiner



external examiner

**DESIGN AND FABRICATION OF INTELLIGENT BREAKING
SYSTEM**

A Project Report

Submitted by

P.CHARAN

(422116114007)

M.DHINESH

(422116114008)

S.JEGAN

(422116114018)

D.KALAIRASIGAN

(422116114020)

in partial fulfillment for the award of the degree

Of

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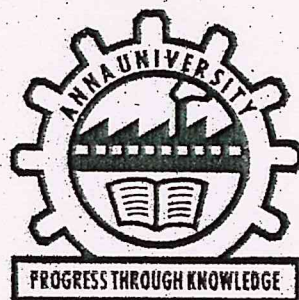
IN

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PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN & FABRICATON INTELLIGENT BRAKING SYSTEM" is the bonafide work of, P.CHARAN(422116114007), M.DINESH (422116114008), S.JEGAN (422116114018) & D.KALAIRASIGAN (422116114020) who carried out the project under my supervision.


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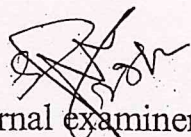
Department of mechanical engineering

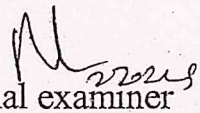
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Panruti - 607110

Submitted for project viva-voce examination held on 27/3/2019 AW


Internal examiner


External examiner

DESIGN AND FABRICATION OF GEVEVA CONVEYOR

A Project Report

Submitted by

S.ALBRIT

(422116114003)

A.GANESH

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A.JOHN MANEESH

(422116114019)

in partial fulfillment for the award of the degree

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PANRUTI-607110

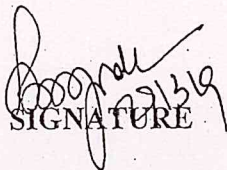


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRRICATION OF GENEVA CONVEYOR" is the bonafide work of S.ALBRIT(422116114003), A.GANESH(422116114011), A.JOHN MANEESH(422116114019)who carried out the project under my supervision.



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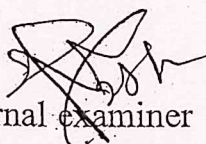
Dr.D. Ommurugadhasan.M.E,Ph.D.
(Head of Mechanical Department)
Department of mechanical engineering
St,anne's college of engineering &
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Panruti-607110



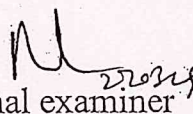
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Panruti-607110

Submitted for project viva-voice examination held on 27/03/2019 & AN



Internal examiner



External examiner

DESIGN AND FABRICATION OF DOUBLE HACK SAW USING SCOTCH YOKE MECHANISM

A Project Report

Submitted by

B.MOHAN RAJ

(422116114023)

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A.PRASANTH

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T.PRATHEEP

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Of

BACHELOR OF ENGINEERING

IN

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PANRUTI-607110



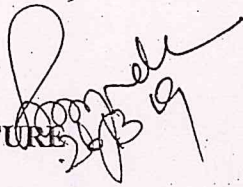
ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

BONAFIDE CERTIFICATE

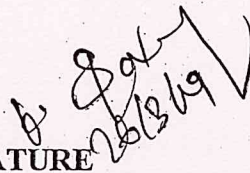
Certified that this project report "DESIGN AND FABRICATION OF DOUBLE HACK SAW USING SCOTCH YOKE MECHANISM" is the bonafide work of B.MOHAN RAJ (422116114023), S.NATHIN RAJ (422116114024), A.PRASANTH (422116114027), and T.PRATHEEP (422116114028) who carried out the project under my supervision.

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Dr.D. Ommurugadhasan M.E.Ph.D,
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Panruti-607110

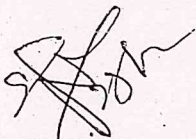
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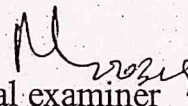
Mr.K.Saravanan. M.E.,
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Panruti-607110

Submitted for project viva-voice examination held on 27/3/2019

Internal examiner



External examiner



DESIGN AND FABRICATION OF AIR ENGINE

A Project Report

Submitted by

A.RAJKUMAR

422116114035

A.SUJITH RAJ

422116114041

A.SETHURAMAN

422116114040

R.RAMKUMAR

422116114036

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IN

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COLLEGE OF ENGINEERING & TECHNOLOGY

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ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRRICATION OF AIR ENGINE" is the bonafide work of A.RAJKUMAR(422116114035), A.SUJITHRAJ(422116114041), A.SETHURAMAN(422116114040), R.RAMKUMAR(422116114046) who carried out the project under my supervision.


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Dr. D. OMMURUGADHASAN(Ph.D.,)

HEAD OF DEPARTMENT

Department of mechanical Engineering

St, anne's college of engineering &

Technology

Panruti-607110


SIGNATURE

SR. JOSEPHINEMARY, M.E

SUPERVISOR

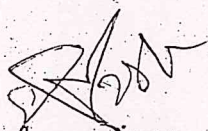
Department of mechanical Engineering

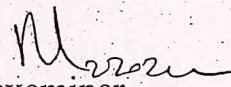
St, anne's college of Engineering &

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Panruti-607110

Submitted for project viva-voce examination held on 27/3/2019 (A.N)


Internal examiner


external examiner

**DESIGN AND FABRICATION OF MULTI-PURPOSE
MACHINE**

A Project Report

Submitted by

M.AGILAN	(422116114001)
M.AJEETH KUMAR	(422116114002)
P.EDWIN RAJ	(422116114010)
B.GUNA SEELAN	(422116114012)

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BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST.ANNE'S

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PANRUTI-607110

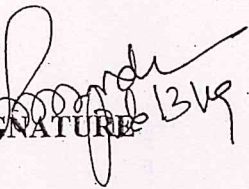


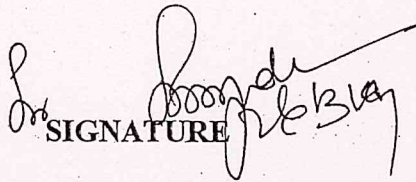
ANNA UNIVERSITY: CHENNAI 600 025

MARCH 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRRICATION OF MULTI PURPOSE MACHINE" is the bonafide work of M.AGILAN(422116114001), M.AJEETH KUMAR (422116114002), P.EDWIN RAJ (422116114010), and B.GUNA SEELAN (422116114012) who carried out the project under my supervision.

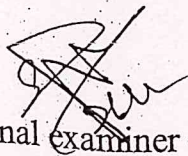

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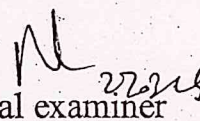

SIGNATURE

Dr.D. Ommurugadhasan. M.E.Ph.D,
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Panruti-607110

Submitted for project viva-voice examination held on 27.03.19 FN


Internal examiner


External examiner

**DESIGN AND FABRICATION OF SLIDING RAM BY
USING QUICK RETURN MECHANISM**

A PROJECT REPORT

Submitted by

K.ARULKUMAR

(422116114004)

B.BHARATH

(422116114006)

S.GUNASEKARAN

(422116114014)

S.JAYACHANDIRAN

(422116114016)

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BACHELOR OF ENGINEERING

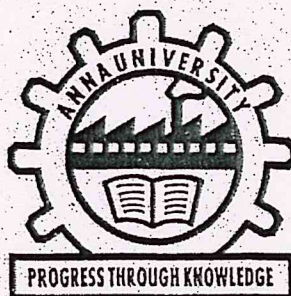
IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110



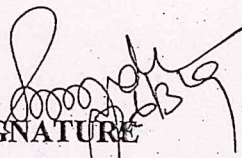
ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF SLIDING RAM BY USING QUICK RETURN MECHANISM" is the bonafide work of K.ARULKUMAR (422116114004), B.BHARATH(422116114006), S.GUNASEKARAN (422116114014) and S.JAYACHANDIRAN (422116114016) who carried out the project under my supervision.

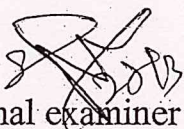

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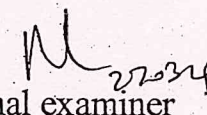
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Panruti-607110

Submitted for project viva-voice examination held on 27.3.19 & FN


Internal examiner


External examiner

DESIGN AND FABRICATION OF MINI WOOD LATHE MACHINE

A Project Report

Submitted by

A.PRAKASH

(422116114026)

M.RAGUL RAJ

(422116114030)

S.RAJAMURUGAN

(422116114033)

M.RAJAN

(422116114034)

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Of

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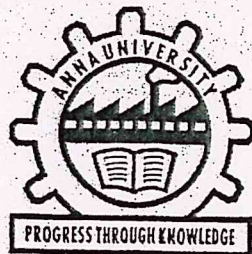
IN

MECHANICAL ENGINEERING

ST. ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110



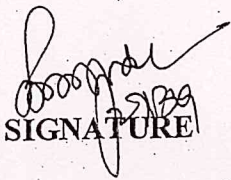
ANNA UNIVERSITY: CHENNAI 600 025

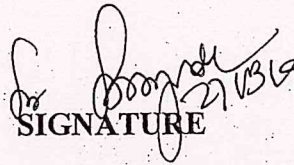
MARCH 2019

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRRICATION OF MINI WOOD LATHE MACHINE " is the bonafide work of A.PRAKASH(422116114026), M.RAGUL RAJ(422116114030), S.RAJAMURUGAN(422116114033), and M.RAJAN (422116114012) who carried out the project under my supervision.


SIGNATURE



SIGNATURE

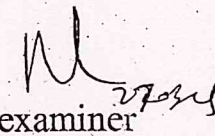
Mr.D. Ommurugadhass M.E.Ph.D,
(Head of Mechanical Department
Department of mechanical engineering
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Mr.K.Shanmuga Elango. M.E.,
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Submitted for project viva-voice examination held on

27.3.19 - FN


Internal examiner


External examiner

DESIGN AND FABRICATION OF POWER GENERATING SHOCK ABSORBER

A Project Report

Submitted by

A.SATHISH KUMAR

(422116114038)

S.VETRIVEL

(422116114044)

M.S.VIGNESH

(422116114045)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

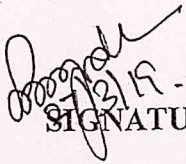


ANNA UNIVERSITY, CHENNAI 600 025

APRIL 2019

BONAFIDE CIRTIFICATE

Certified that this project report "DESIGN AND FABRRICATION OF POWER GENERTING SHOCK ABSORBER " is the bonafide work of A.SATHISH KUMAR(422116114038) who carried out the project under my supervision.



SIGNATURE



SIGNATURE

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Panruti-607110

Submitted for project viva-voice examination held on 27-03-19 FN


Internal examiner


external examiner

**DESIGN AND FABRICATION OF AUTOMATIC SEED
SOWING MACHINE**

A Project Report

Submitted by

S.SALETH RAJ

(422116114037)

A.VARADHA RAJ

(422116114042)

M.SATHISH KUMAR

(422116114501)

V.VIMAL RAJ

(422116114046)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

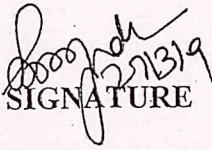


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF AUTOMATIC SEED SOWING MACHINE " is the bonafide work of S.SALETH RAJ(422116114037), A.VARADHA RAJ(422116114042), M.SATHISH KUMAR(422116114501),V.VIMAL RAJ(422116114046), who carried out the project under my supervision.

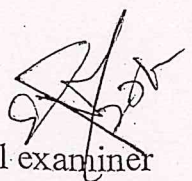

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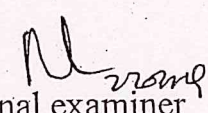

SIGNATURE

Dr.D. Ommurugadhasan M.E.Ph.D
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St,Anne's college of engineering &
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Panruti-607110

Submitted for project viva-voice examination held on 21/3/2019 / FN


Internal examiner


External examiner

**DESIGN AND FABRICATION OF MINI HYDRO POWER
PLANT**

A Project Report

Submitted by

M.DINESH	[422116114009]
D.GUNASEKARAN	[422116114013]
A.MANIKANDAN	[422116114021]
H.MIRZAHASAN	[422116114022]

in partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

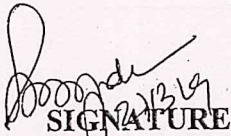


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2019

BONAFIDE CERTIFICATE

Certified that this project report “**DESIGN AND FABRICATION OF MINI HYDRO POWER PLANT**” is the bonafidework of **M.DINESHKUMAR [422116114009], D.GUNASEKARAN [422116114013], A.MANIKANDAN [422116114021] AND, H.MIRZAHASAN [422116114022]** who carried out the project under my supervision


SIGNATURE

Dr.D. Ommurugadhasan. M.E,Ph.D.

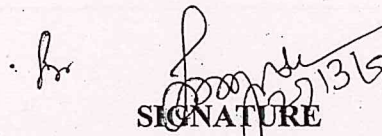
(Head of Mechanical Department)

Department of mechanical engineering

St.Anne's college of engineering &

Technology

Panruti-607110


SIGNATURE

Mr.R.SASIKUMAR. M.E.,

(Asst. Professor & Project Guide)

Department of mechanical engineering

St.Anne's college of engineering &

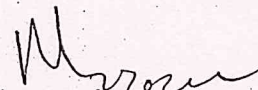
technology.

Panruti-607110

Submitted for project viva-voice examination held on 27/3/19 at AN



Internal examiner



external examiner