



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

ACADEMIC YEAR

2017 - 2018

**PROBLEM SOLVING
METHODOLOGIES**



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(Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai)
ANGUCHETTYPALAYAM, PANRUTI – 607 106.

PROBLEM SOLVING METHODOLOGIES

ACADEMIC YEAR 2017-2018

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ANGUCHETTYPALAYAM, PANRUTI – 607 106.

MAIN PROJECT



ST. ANNE'S
COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPALAYAM, PANRUTI - 607 110.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
PROJECT BATCH LIST
BATCH 2014- 2018

BATCH NO.	REGNO	NAME	NAME OF THE GUIDE	TITLE OF THE PROJECT
1	422114104001	Ajith J	Mr.S.JeraldNirmal Kumar	Privacy preserved framework for utility services in Cloud
	422114104023	Rajeshwaran R		
	422114104026	Salman S		
	422114104303	Muthu J		
2	422114104002	Ajith M	Mr.S.Rajarajan	An efficient automated attendance management system based on Fisher face recognition
	422114104016	Manikandan R		
	422114104021	PrathapMiras R		
3	422114104003	Anugrahham D	Ms.V.Varalakshmi	Secure data retrieval for decentralized delay tolerant military networks
	422114104020	Monica W		
	422114104027	Santhiya Devi H		
	422114104305	Priyanga T		
4	422114104004	Anusuya K	Mrs.M.Senthamarai' Selvi	Android based position detection and tracking system using GPS and GSM
	422114104011	Jayasri J		
	422114104018	Manju S		
	422114104033	Yuvasri A		
5	422114104005	Asha R	Mrs.K.Poornambigai	Representation of graphical description from natural language
	422114104009	Gunasundhari A		
	422114104030	Sonabharathi K		

PRIVACY PRESERVED FRAMEWORK FOR UTILITY SERVICES IN CLOUD

A PROJECT REPORT

Submitted by

J. AJITH	422114104001
R. RAJESHWARAN	422114104023
S. SALMAN	422114104026
J. MUTHU	422114104303

in partial fulfillment for the award of the degree

of

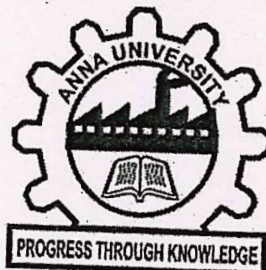
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in

COMPUTER SCIENCE AND ENGINEERING



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018



ANNA UNIVERSITY : CHENNAI 600 025



BONAFIDE CERTIFICATE

Certified that this project report "PRIVACY PRESERVED FRAMEWORK FOR UTILITY SERVICES IN CLOUD" is the Bonafide work of "J.AJITH (422114104001), R.RAJESHWARAN(422114104023), S.SALMAN (422114104026) , J.MUTHU (422114104303)" who carried out the project under my supervision.


SIGNATURE

Mrs. M. SENTHAMARAI SELVI, M.E.,
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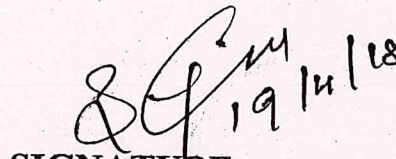
HEAD OF THE DEPARTMENT

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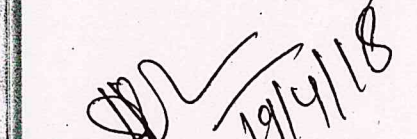
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Submitted for Project Viva - Voce Examination held on..19/04/2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

**AN EFFICIENT AUTOMATED ATTENDANCE
MANAGEMENT SYSTEM BASED ON FACIAL
RECOGNITION USING LOCAL BINARY PATTERNS**

A PROJECT REPORT

Submitted by

M. AJITH	422114104002
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R. PRATHAP MIRAS	422114104021

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**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,
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APRIL 2018



ANNA UNIVERSITY: CHENNAI 600 025



BONAFIDE CERTIFICATE

Certified that this project report "AN EFFICIENT AUTOMATED ATTENDANCE MANAGEMENT SYSTEM BASED ON FACIAL RECOGNITION USING LOCAL BINARY PATTERNS" is the bonafide work of "M. AJITH (422114104002), R. MANIKANDAN (422114104016), R. PRATHAP MIRAS (422114104021)" who carried out the project work under my supervision.

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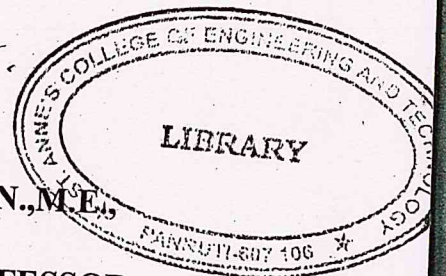
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Submitted for Project Viva- Voce Examination held on 19.4.18

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INTERNAL EXAMINER 19/4/18

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EXTERNAL EXAMINER 19/4/18

**SECURE DATA RETRIEVAL FOR DECENTRALIZED
DELAY TOLERANT MILITARY NETWORKS**

A PROJECT REPORT

Submitted by

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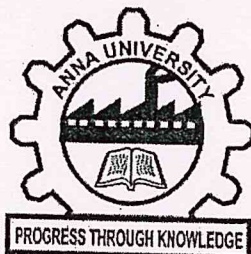
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IN

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ANNA UNIVERSITY: CHENNAI 600025

APRIL 2018



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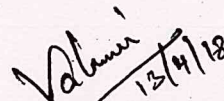


BONAFIDE CERTIFICATE

Certified that this project report "SECURE DATA RETRIEVAL FOR DECENTRALIZED DELAY-TOLERANT MILITARY NETWORKS" is the bonafide work of "D. ANUGRAHAM (422114104003), W.MONICA (422114104020), H.SANTHIYA DEVI (422114104027), T.PRIYANGA (422114104305)" who carried out the project under my supervision.

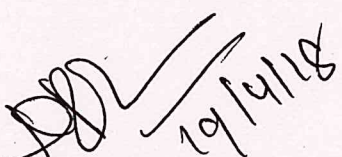

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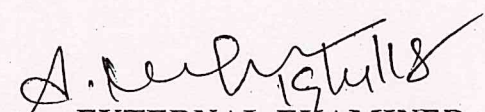
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INTERNAL EXAMINER


EXTERNAL EXAMINER

**ANDROID BASED POSITION DETECTION AND
TRACKING SYSTEM USING GPS AND GSM**

A PROJECT REPORT

Submitted by

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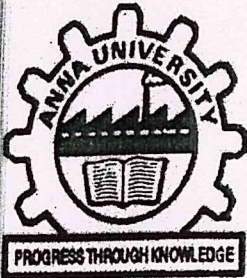
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ANNA UNIVERSITY: CHENNAI 600 025

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Certified that this project report “ **ANDROID BASED POSITION DETECTION AND TRACKING SYSTEM USING GPS AND GSM** ” is the Bonafide work of “**K. ANUSUYA (422114104004), J.JAYASRI (42211410411), S. MANJU (422114104018), A . YUVASRI (422114104033)**” who carried out the project under my supervision.


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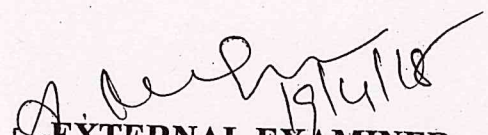

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Submitted for Project Viva – Voce Examination held on..19.7.4.2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

**REPRESENTATION OF GRAPHICAL DESCRIPTION
FROM NATURAL LANGUAGE**

A PROJECT REPORT

Submitted by

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K.SONABHARATHI	422114104030
A.VIMALA	422114104307

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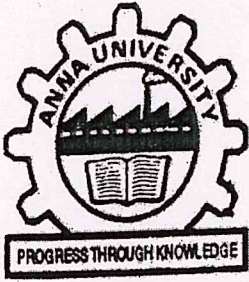


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ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018



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Certified that this project report “ REPRESENTATION OF GRAPHICAL DESCRIPTION FROM NATURAL LANGUAGE ” is the bonafide work of “R.ASHA(422114104005),A.GUNASUNDHARI(422114104009),K.SONABHATHI (422114104030), A.VIMALA (422114104307)” who carried out the project work under my supervision.

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19/4/18
INTERNAL EXAMINER

19/4/18
EXTERNAL EXAMINER

**CAPABILITY-BASED SECURITY ENFORCEMENT IN
NAMED DATA NETWORKING**

A PROJECT REPORT

Submitted by

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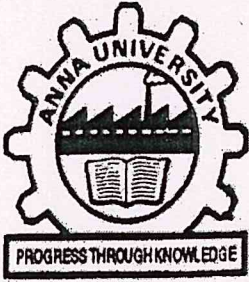


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APRIL 2018



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Certified that this project report “CAPABILITY-BASED SECURITY ENFORCEMENT IN NAMED DATA NETWORKING” is the Bonafide work of “P. ESTHER PRINTINA MARY (422114104008), A. KALAISELVI (422114104014), M. MANIKEERTHANA (422114104017)” who carried out the project under my supervision.

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Submitted for Project Viva – Voce Examination held on...19/04/2018

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INTERNAL EXAMINER

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EXTERNAL EXAMINER

**FACE RECOGNITION AND EXPRESSION
DETECTION TO AID VISUALLY IMPAIRED
PEOPLE USING 3D DEPTH SENSE CAMERA**

A PROJECT REPORT

Submitted by

J. JAYAVARTHANAN 422114104012

M. MOHANRAJ 422114104019

R. SIVAMURUGAN 422114104029

E. VEERAMANI 422114104306

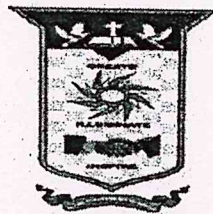
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of

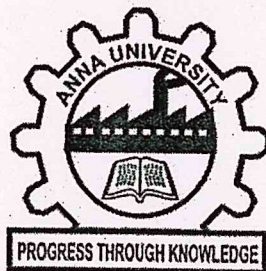
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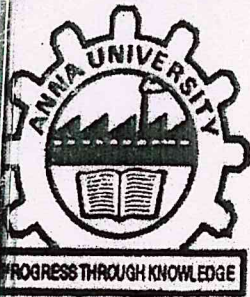


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APRIL 2018



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Certified that this project report "FACE RECOGNITION AND EXPRESSION DETECTION TO AID VISUALLY IMPAIRED PEOPLE USING 3D DEPTH SENSE CAMERA" is the bonafide work of "J.JAYAVARTHANAN (422114104012), M.MOHANRAJ (422114104019), R.SIVAMURUGAN (422114104029), E.VEERAMANI (422114104306)" who carried out the project under my supervision.


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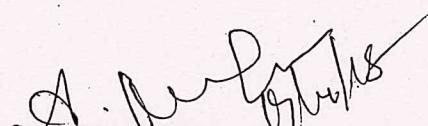
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Panruti - 607 110.

Submitted for Project Viva - Voce Examination held on 19.04.2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

**DATA COMPRESSION FOR TEXTUAL
BIGDATA ANALYSIS IN HADOOP**

A PROJECT REPORT

Submitted by

M. JOHN MCENRO	422114104013
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S. SOUNDHARARAJAN	422114104031

In partial fulfillment for the award of the degree

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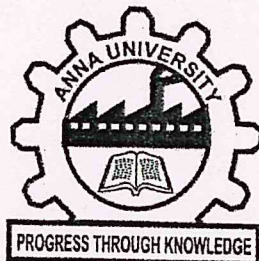
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ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018



ANNA UNIVERSITY: CHENNAI 600 025



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Certified that this project report "DATA COMPRESSION FOR TEXTUAL BIGDATA ANALYSIS IN HADOOP" is the bonafide work of "M. JOHN MCENRO (422114104013), RAJENDRAN RAJESWARAN (422114104022), S.SOUNDHARARAJAN (422114104031)" who carried out the project work under my supervision.


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Mr .S. MANAVALAN., M.Tech.,
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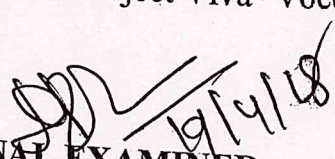
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Submitted for Project Viva- Voce Examination held on 19-04-2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

**SECURING AN IMAGE USING
ARITHMETIC CODING AND HYPER
CHAOTIC MAP**

A PROJECT REPORT

Submitted by

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V. SUMITHA	422114104032
M. NATHIYA	422114104304

in partial fulfillment for the award of the degree

of

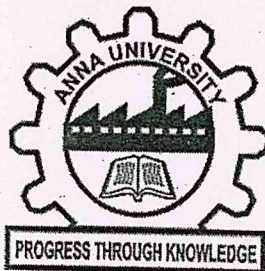
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ANNA UNIVERSITY: CHENNAI 600025

APRIL 2018



ANNA UNIVERSITY :: CHENNAI 600 025



BONAFIDE CERTIFICATE

Certified that this project report “ **SECURING AN IMAGE USING ARITHMETIC CODING AND HYPER CHAOTIC MAP** ” is the Bonafide work of “ **R. SATHYA (422114104028), V. SUMITHA (422114104032), M. NATHIYA (422114104304)** ” who carried out the project under my supervision.

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D. Pauline Freeda
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROJECT BATCH LIST

BATCH 2014- 2018

Sl.No	Register no	Name of the student	Name of the guide	Title of the Project	Related to Curriculum /Subject
1	422114105010	EPSIBA RANI.S	Mr. A. RICHARD PRAVIN	Control of Hybrid AC/DC Micro grid involving energy storage, renewable energy and pulse loads.	POWER SYSTEM
	422114105011	GEETHA. S			
	422114105032	SIVAGAMI.A			
2	422114105302	BALAMURUGAN.P	Ms. M. PREMALATHA	Flexible voltage control strategy considering distributed energy storages for DC Distribution Network	POWER ELECTRONICS
	422114105304	MANOJ KUMAR.R			
	422114105306	RAJADURAI.M			
	422114105309	THANIGASALAM P			
3	422114105005	ARUN KUMAR. R	Mr. V. BALAJI	Bumpless control for reduced THD in Power Factor Correction circuits	POWER ELECTRONICS
	422114105036	SUDHAGAR.V			
	422114105037	SURESH .M			
	RA 1	ANAND G			
4	422114105024	PRAKASH.R	Mr. J. RAMESH	Congestion management in Deregulated Power System using FACTS Devices	POWER SYSTEM
	422114105305	PERUMAL RAJ.S			
	422114105310	THIRUMALAI VASAN.N			
	422114105311	VIJAYAKUMAR.V			
5	422114105013	GURU MOORHTY.M	Ms. J. ARUL MARTINAL	Tuning controller parameter and Load Frequency Control of a Multi area multi Source power system by GSO.	POWER SYSTEM
	422114105016	JAYA DEVAR.G			
	422114105312	VIGNESH.C			
	422114105502	RAJASELVAM.P			
6	422114105003	ANISH .C			POWER SYSTEM

	422114105028	PRIYAN.F ✓	Sr. ANNAI THERESA	Frequency control of power system with solar and wind power station installed by flow control of HVDC interconnection line.	
	422114105034	SOUNDARA PANDIYAN.V ✓			
	422114105040	VASUDEVAN.N ✓			
7	422114105002	AJITH KUMAR.K ✓	Ms. V. NARMADHA	Real time simulation of MPPT control using ant lion optimization algorithm for stand-alone PV system	POWER SYSTEM
	422114105006	ASWIN KUMAR. A ✓			
	422114105017	KARTHICK.V ✓			
	422114105027	PRAVEEN.D ✓			
8	422114105015	JAGAN VIJAY.T ✓	Mrs. S. LESE	Real time multi sensor based fire detection and notification system using fuzzy logic	EMBEDDED SYSTEM
	422114105026	PRASANTH.K ✓			
	422114105043	YUVA RAJ.R ✓			
	422114105307	SADAM HUSSAIN.M ✓			
9	422114105007	CHANDRU.V ✓	Mr. V. C. EUGIN MARTIN RAJ	Wireless fuzzy controlled for drip irrigation with Raspberry pi and GSM	EMBEDDED SYSTEM
	422114105041	VETRIVEL. S ✓			
	422114105042	VIGNESWARAN.P ✓			
10	422114105012	GOPIKRISHNAN M ✓	Mr. A. SUNDARA PANDIYAN	Determination of Optimum Generation Cost for the power system using Whale algorithm	POWER SYSTEM
	422114105019	KAVIYARASAN.S ✓			
	422114105020	KRISHNAN. K ✓			
	422114105025	PRAKASH RAJ.E ✓			
11	422114105001	AJAY SURYA .M ✓	Mr. A. SUNDARA PANDIYAN	Implementation power line-based communication for home management system	POWER SYSTEM
	422114105008	DEVADOSS.A ✓			
	422114105009	DHANISH KUMAR.G ✓			
	422114105035	SUBASH. V ✓			
12	422114105023	POOMANIS ✓	Mr. K. SRIRAM	Reconfiguration of radial distribution system and optimal placement of capacitor using ant lion optimization	POWER SYSTEM
	422114105902	BANUMATHY.B ✓			
	422114105501	NADHIYA.G ✓			

Co-ordinator

HOD

Dr. R. Arokiadass
Dr. R. AROKIADASS, M.E., Ph.D.,
Pr. Principal,
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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "RECONFIGURATION OF RADIAL DISTRIBUTION SYSTEM AND OPTIMAL PLACEMENT OF CAPACITOR USING ANTLION OPTIMIZER ALGORITHM" is the bonafide work of "POOMANI S, NADHIYA G, BANUMATHY B" who carried out the project work under my supervision.


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K. SRIRAM, M.E.,

SUPERVISOR

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Internal Examiner


External examiner

Submitted for the University Examination held on 18.04.2018

**RECONFIGURATION OF RADIAL
DISTRIBUTION SYSTEM AND OPTIMAL
PLACEMENT OF CAPACITOR USING ANT LION
OPTIMIZER ALGORITHM**

A PROJECT REPORT

Submitted by

S.POOMANI	422114105023
G.NADHIYA	422114105501
B.BANUMATHY	422114105902

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

ELECTRICAL AND ELECTRONICS ENGINEERING



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI

ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "MONITORING AND CONTROLLING ENERGY METER BY USING PLC" is the bonafide work of "AJAY SURYA.M, DEVA DOSS.A, DHANISH KUMAR.G, SUBASH.V" who carried out the project work under my supervision.

SIGNATURE

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PANRUTI-607 106.

Submitted for the University Examination held on ...18/4/18

Internal Examiner

External examiner

**MONITORING AND CONTROLLING ENERGY
METER BY USING PLC**

A PROJECT REPORT

Submitted by

AJAY SURYA.M	422114105001
DEVA DOSS.A	422114105008
DHANISH KUMAR.G	422114105009
SUBASH.V	422114105035

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ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI- 607 106


ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **“DETERMINATION OF OPTIMAL GENERATION COST FOR THE POWER SYSTEM USING WHALE ALGORITHM”** is the bonafide work of **“GOPIKRISHNAN M, KAVIYARASAN S, KRISHNAN K, PRAKASHRAJ E”** who carried out the project work under my supervision.


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Panruti

Submitted for the University Examination held on 18.04-2018


Internal Examiner


External examiner

**DETERMINATION OF OPTIMAL GENERATION
COST FOR THE POWER SYSTEM USING WHALE
ALGORITHM**

A PROJECT REPORT

Submitted by

M.GOPIKRISHNAN	422114105012
S.KAVIYARASAN	422114105019
K.KRISHNAN	422114105020
E.PRAKASHRAJ	422114105025

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PANRUTI 607 106

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

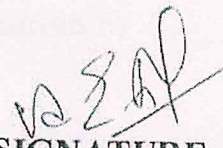
BONAFIDE CERTIFICATE

Certified that this project report "**WIRELESS FUZZY CONTROLLER FOR DRIP IRRIGATION WITH RASPBERRY-PI & GSM**" is the bonafide work of "**CHANDRU.V, VETRIVEL.S, VIGNESHWARAN.P**" who carried out the project work under my supervision.


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Mr. A. RICHARD PRAVIN
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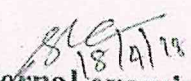
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The project viva-voce examination held on 18.04.2018


Internal examiner


External examiner

**WIRELESS FUZZY CONTROLLER FOR DRIP
IRRIGATION WITH RASPBERRY-PI & GSM**

A PROJECT REPORT

Submitted by

CHANDRU.V

422114105007

VETRI VEL.S

422114105041

VIGNESHWARAN.P

422114105042

in partial fulfilment for the award of the degree

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ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI

ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDÈ CERTIFICATE

Certified that this project report "REAL-TIME MULTI-SENSOR BASED FIRE DETECTION AND NOTIFICATION SYSTEM USING FUZZY LOGIC" is the bonafide work of "T. JAGAN VIJAY, K. PRASANTH, R. YUVARAJ, and M. SADAM HUSSAIN" who carried out the project work under my supervision.


SIGNATURE

Mr. A. Richard Pravin,

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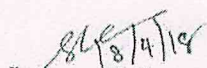

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Submitted for the university examination held on 18.04.2018


Internal Examiner


External Examiner

**REAL-TIME MULTI-SENSOR BASED FIRE
DETECTION AND NOTIFICATION SYSTEM
USING FUZZY LOGIC**

A PROJECT REPORT

Submitted by

T. JAGAN VIJAY	422114105015
K. PRASANTH	422114105026
R. YUVARAJ	422114105042
M. SADAM HUSSAIN	422114105307

Inpartial fulfilment for the award of the degree

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BACHELOR OF ENGINEERING

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ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI

ANNA UNIVERSITY :: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "MAXIMUM POWER POINT TRACKING TECHNIQUE USING ANTLION OPTIMIZATION ALGORITHM FOR A STANDALONE PV SYSTEM" is the bonafide work of "K.AJITHKUMAR, A.ASWIN KUMAR, V.KARTHIK and D.PRAVEEN" who carried out the project work under my supervision.


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Ms. V. Narmadha.,

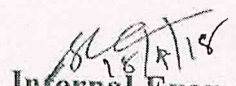
SUPERVISOR

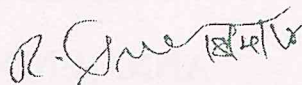
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Submitted for the University Examination held on 18.04.2018


Internal Examiner


External Examiner

**MAXIMUM POWER POINT TRACKING
TECHNIQUE USING ANTLION OPTIMIZATION
ALGORITHM FOR A STANDALONE PV
SYSTEM**

A PROJECT REPORT

Submitted by

K.AJITHKUMAR	422114105002
A.ASWIN KUMAR	422114105006
V.KARTHIK	422114105017
D.PRAVEEN	422114105027

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ANGUCHETTYPALAYAM 607 106

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "ANLYSIS OF TOUCH DOWN POINT AND RENEWABLE ENERGY GENERATION IN AVIATION" is the bonafide work of "C. ANISH, F. PRIYAN, V. SOUNDARAPANDIYAN, N. VASUDEVAN" who carried out the project work under my supervision.


SIGNATURE

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Sr. Annai Theresa


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Submitted for the university examination held on 18.04.2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

**ANALYSIS OF TOUCH DOWN POINT AND
RENEWABLE ENERGY GENERATION IN
AVIATION**

A PROJECT REPORT

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PRIYAN. F	422114105028
SUNDARAPANDIYAN. V	422114105034
VASUDEVAN. N	422114105040

In partial fulfilment for the award of the degree

of

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in

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

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

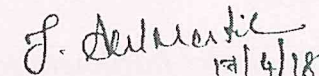
Certified that this project report "TUNING CONTROLLER PARAMETERS AND LOAD FREQUENCY CONTROL OF MULTI-AREA POWER SYSTEM BY GROUP SEARCH OPTIMIZATION TECHNIQUE" is the bonafide work of "M.GURUMOORTHY, G.JAYADEVAR, P.RAJASELVAM, C.VIGNESH" who carried out the project work under my supervision.


SIGNATURE

Mr.A. Richard Pravin,

HEAD OF THE DEPARTMENT

Department of Electrical and
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Panruti - 607 106.

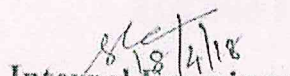

SIGNATURE

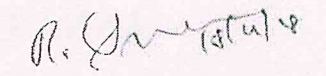
Miss.J.Arul Martinal, A.P/EEE

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Submitted for the university examination held on 18.04.2018


Internal Examiner


External Examiner

**TUNING CONTROLLER PARAMETERS AND LOAD
FREQUENCY CONTROL OF MULTI-AREA POWER
SYSTEM BY GROUP SEARCH OPTIMIZATION
TECHNIQUE A PROJECT REPORT**

A PROJECT REPORT

Submitted by

M.GURUMOORTHY	422114105013
G.JAYADEVAR	422114105016
P. RAJASELVAM	422114105502
C. VIGNESH	422114105311

in partial fulfilment for the award of the degree

of

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PANRUTI 607 106

ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**OPTIMAL RESCHEDLING OF GENERATORS FOR CONGESTION MANAGEMENT IN UNBUNDLED POWER SYSTEM**” is the bonafide work of “**R.PRAKASH, S.PERUMALRAJ, N.THIRUMALAIVASAN, V.VIJAYAKUMAR**” who carried out the project work under my supervision.


SIGNATURE

Mr.A.Richard Pravin

HEAD OF THE DEPARTMENT

Department of Electrical and
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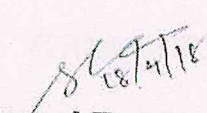

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Mr.J.Ramesh

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Submitted for the university examination held on 18/4/18


Internal Examiner


External Examiner

**OPTIMAL RESCHEDULING OF GENERATORS
FOR CONGESTION MANAGEMENT IN
UNBUNDLED POWER SYSTEM**

A PROJECT REPORT

Submitted by

R. PRAKASH	422114105024
S. PERUMALRAJ	422114105305
N. THIRUMALAIIVASAN	422114105310
V. VIJAYAKUMAR	422114105312

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in

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ANNA UNIVERSITY: : CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**BUMPLESS CONTROL FOR REDUCED THD IN POWER FACTOR CORRECTION CIRCUITS**” is the bonafide work of “**R.ARUNKUMAR, V.SUDHAKAR, M.SURESH, G.ANANTH**” who carried out the project work under my supervision.


SIGNATURE

Mr. A. Richard Pravin

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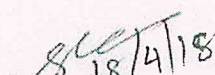

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Mr.V.Balaji

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Submitted for the university examination held on 18.04.2018


Internal Examiner


External Examiner

**BUMPLESS CONTROL FOR REDUCED THD IN
POWER FACTOR CORRECTION CIRCUITS**

A PROJECT REPORT

Submitted by

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V.SUDHAKAR	422114105036
M.SURESH	422114105037
G.ANANTH	422114105504

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in

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PANRUTI


ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**FLEXIBLE VOLTAGE CONTROL STRATEGY CONSIDERING DISTRIBUTED ENERGY STRATEGIES FOR DC DISTRIBUTION NETWORK**” is the bonafide work of “**P.BALAMURUGAN, R.MANOJKUMAR, M.RAJADURAI, P.THANIGASALAM**” who carried out the project work under my supervision.


SIGNATURE

Mr.A. RICHARD PRAVIN
HEAD OF THE DEPARTMENT

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Ms. M. PREMALATHA
SUPERVISOR

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Anguchettypalayam - 607 106.

Submitted for the university examination held on 18.04.2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

**FLEXIBLE VOLTAGE CONTROL STRATEGY
CONSIDERING DISTRIBUTED ENERGY
STRATEGIES FOR DC DISTRIBUTION
NETWORK**

A PROJECT REPORT

Submitted by

P.BALAMURUGAN	422114105302
R.MANOJ KUMAR	422114105304
M.RAJADURAI	422114105306
P.THANIGASALAM	422114105309

in partial fulfillment for the award of the degree

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in

ELECTRICAL AND ELECTRONICS ENGINEERING



**ST.ANNE'S COLLEGE OF ENGINEERING AND
TECHNOLOGY**

ANNA UNIVERSITY :: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "CONTROL OF HYBRIDAC/DC MICRO GRID INVOLVING ENERGY STORAGE, RENEWABLE ENERGY AND PULSED LOADS" is the bonafide work of "S.EPSIBA RANI, S. GEETHA, A. SIVAGAMI" who carried out the project work under my supervision.


SIGNATURE

Mr. A. Richard Pravin

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St. Anne's College of Engineering and
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Submitted for the university examination held on 18.04.2018


Internal Examiner


External Examiner

**CONTROL OF HYBRID AC/DC MICRO GRID
INVOLVING ENERGY STORAGE RENEWABLE
ENERGY AND CRITICAL LOADS**

A PROJECT REPORT

Submitted by

S.EPSIBA RANI

422114105010

S.GEETHA

422114105011

A.SIVAGAMI

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PANRUTI 607 106

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2018



ST. ANNE'S
COLLEGE OF ENGINEERING AND TECHNOLOGY
ANGUCHETTYPLAYAM, PANRUTI – 607 110.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT BATCH LIST

BATCH 2014- 2018

BATCH NO	REGNO	NAME	NAME OF THE GUIDE	TITLE OF THE PROJECT
I	422114106004	J. Arunadevi	Mr. S. Bala Basker	Multi level car parking system using IOT
	422114106010	V. Jayasri		
	422114106001	M. Aarthi		
	422114106012	R. Joyrafalin		
II	422114106008	N. Gokulakrishnan	Ms. S. K.Suriya	Movable pick and place Robotic Arm
	422114106025	G. Ramachandran		
	422114106030	S. Vignesh		
III	422114106020	P. Praveen Raj	Mrs. C. Suganya	Robust and secure video steganography using Matlab
	422114106018	J. Muthukumarasamy		
	422114106032	A. Vinayagam		
IV	422114106011	S. Jenprincy	Mr. Durai Raj	Design and simulation of Microstrip slot patch antenna for multiband application
	422114106021	R.Prema		
	422114106016	E. Magila		
V	422114106002	R. Antoniraj	Mrs. D.Umamaheswari	Energy efficient path selection and CAS based traffic reduction in WSN
	422114106005	G.S. Arunraj		
	422114106006	R. Balaji		
VI	422114106013	X. Julit Xavio	Mr. R. Radhakrishnan	IR based anti-photography system for prohibited areas
	422114106017	D. Mary		
	422114106022	P.Punitha		
VII	422114106305	S. Syed Abuthakeer	Mr. V. Venkatesan	Intelligent drone
	422114106304	R. Ranjith		
	422114106301	P.Aruikumar		
	422114106302	M. Magimai Bonifal		

VIII	422114106023	N. Rajakumaran	Mrs .B. Mary Amala Jenni	Frequency and pattern reconfigurable monopole antenna using varactor diode loaded AFSS
	422114106027	S. Sivasitrarasu		
	422114106303	J. K. Muthukumaran		
IX	422114106033	T.Vincent	Ms. S. Devika	Wireless Ultrasonic Doppler Radar for object detection, distance and speed measurement using Arduino
	422114106019	M. Perumal		

M. V. S. S.

PREPARED BY

S. S. S. 18/11/18

VERIFIED BY

R. S. S. 18/11/18

APPROVED BY

**SMART CAR PARKING SYSTEM USING
INTERNET OF THINGS**

A PROJECT REPORT

Submitted by

M.AARTHI	422114106001
J.ARUNADEVI	422114106004
V.JAYASRI	422114106010
R.JOYRAFALIN	422114106012

in partial fulfillment for the award of the degree

of

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in

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ANGUCHETTYPALAYAM, PANRUTI- 607 106

ANNA UNIVERSITY :: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

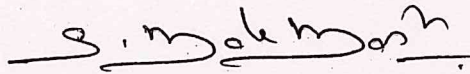
BONAFIDE CERTIFICATE

Certified that this project report "SMART CAR PARKING SYSTEM USING INTERNET OF THINGS" is the bonafide work of "M.AARTHI (422114106001), J.ARUNADEVI(422114106004),V.JAYASRI(42211410601) R.JOY RAFALIN (422114106012)" who carried out the project work under my supervision.


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Sr. S.ANITA., M.Tech, (Ph. D).,
HEAD OF THE DEPARTMENT


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SIGNATURE

Mr. S.BALABASKER, M.Tech.,
SUPERVISOR

Associate Professor
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Panruti - 607106

Submitted for the ANNA UNIVERSITY examination held on 12.4.2018


INTERNAL EXAMINER


EXTERNAL EXAMIER

MOVABLE PICK & PLACE ROBOTIC ARM

A PROJECT REPORT

Submitted by

N.GOKULA KRISHNAN 422114106008

G.RAMACHANDRAN 422114106025

S.VIGNESH 422114106030

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

ANGUCHETTYPALAYAM, PANRUTI- 607 110

ANNA UNIVERSITY :: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY :: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "MOVABLE PICK & PLACE ROBOTIC ARM" is the bonafide work of "N.GOKULA KRISHNAN (422114106008), G.RAMACHANDRAN (422114106025), S.VIGNESH (422114106030)" who carried out the project work under my supervision.

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Submitted for the ANNA UNIVERSITY examination held on 18.04.2018

18/4/18
INTERNAL EXAMINER

18/4/18
EXTERNAL EXAMINER

**ROBUST AND SECURE VIDEO STEGANOGRAPHY
USING MATLAB**

A PROJECT REPORT

submitted by

J. MUTHUKUMARASAMY (422114106018)

P. PRAVEEN RAJ (422114106020)

A. VINAYAGAM (422114106032)

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

**ST. ANNE'S COLLEGE OF ENGINEERING AND
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APRIL 2018

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BONAFIDE CERTIFICATE

Certified that this project report "ROBUST AND SECURE VIDEO STEGANOGRAPHY USING MATLAB" is the bonafide work of "J. MUTHUKUMARASAMY (422114106018), P. PRAVEEN RAJ (422114106020), A. VINAYAGAM (422114106032)" who carried out the project work under my supervision.



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Submitted for the ANNA UNIVERSITY examination held on 18.4.18.....


INTERNAL EXAMINER


EXTERNAL EXAMINER

**DESIGN AND SIMULATION OF MICROSTRIP SLOT PATCH
ANTENNA FOR MULTIBAND APPLICATION**

A PROJECT REPORT

Submitted by

S.JEN PRINCY 422114106011

E.MAGILA 422114106016

R.PREMA 422114106021

In partial fulfillment for the award of the degree

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BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

**ST.ANNE'S COLLEGE OF ENGINEERING AND
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APRIL 2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND SIMULATION OF MICROSTRIP SLOT PATCH ANTENNA FOR MULTIBAND APPLICATION" "is the bonafide work of 'S.JENPRICY (422114106011), E.MAGILA(422114106016), R.PREMA(422114106021) who carried out the project work under my supervision.

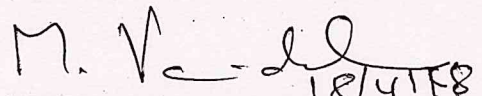

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INTERNAL EXAMINER


EXTERNAL EXAMINER

**ENERGY EFFICIENT PATH SELECTION AND CAS
BASED TRAFFIC REDUCTION IN WSN**

A PROJECT REPORT

submitted by

R. ANTONI RAJ	(422114106002)
G. S. ARUN RAJ	(422114106005)
R. BALAJI	(422114106006)

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APRIL 2018

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BONAFIDE CERTIFICATE

Certified that this project report “ENERGY EFFICIENT PATH SELECTION AND CAS BASED TRAFFIC REDUCTION IN WSN” is the bonafide work of “R. ANTONI RAJ (422114106002), G. SARUN RAJ (422114106005), and R.BALAJI (422114106006)” who carried out the project work under my supervision.


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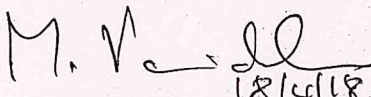

SIGNATURE 18/4/18

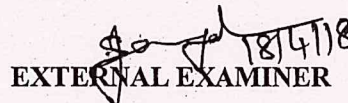
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INTERNAL EXAMINER 18/4/18


EXTERNAL EXAMINER 18/4/18

Main project
ECE 18, 12, 27, 24, 22
Guided file doc
for all years

IR BASED ANTI -PIRACY SCREENING SYSTEM

A PROJECT REPORT

Submitted by

X. JULIT XAVIO

422114106013

D.MARY

422114106017

P. PUNITHA

422114106022

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of

BACHELOR OF ENGINEERING

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ST. ANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

ANGUCHETTYPALAYAM, PANRUTI- 607 110

ANNA UNIVERSITY:: CHENNAI 600 025

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Certified that this project report “**IR BASED ANTI- PIRACY SCREENING SYSTEM**” is the bonafide work of “**X. JULIT XAVIO (422114106013), D. MARY (422114106017), P. PUNITHA (42214106022)**” who carried out the project work under my supervision.


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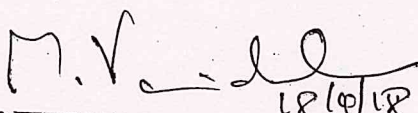
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Submitted for the university examination held on..18-04-18.....


INTERNAL EXAMINER


EXTERNAL EXAMINER

INTELLIGENT DRONE

A PROJECT REPORT

submitted by

P.ARULKUMAR (422114106301)

M.MAGIMAI BONIFAL (422114106302)

R.RANJITH (422114106304)

S.SYED ABUTHAKEER (422114106305)

in partial fulfillment for the award of the degree

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ANNA UNIVERSITY : CHENNAI 600 025

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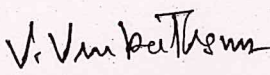
Certified that this project report "INTELLIGENT DRONE "is the bonafide work of "P.ARULKUMAR (422114106301), M.MAGIMAI BONIFAL (422114106302), R.RANJITH (422114106304), S.SYEDABUTHAKEER (422114106305)" who carried out the project work under my supervision


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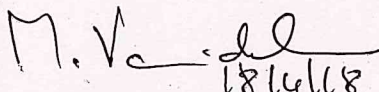

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Submitted for the ANNA UNIVERSITY examination held on .18/04/2018


INTERNAL EXAMINER


EXTERNAL EXAMINER

**FREQUENCY AND PATTERN RECONFIGURABLE
MONOPOLE ANTENNA USING VARACTOR DIODE**

A PROJECT REPORT

submitted by

N.RAJAKUMARAN (422114106023)

S.SIVA SITRARASU (422114106027)

J.K.MUTHU KUMARAN (422114106303)

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APRIL 2018

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Certified that this project report "FREQUENCY AND PATTERN RECONFIGURABLE MONOPOLE ANTENNA USING VARACTOR DIODE" is the bonafide work of "N.RAJAKUMARAN(422114106023), S.SIVASITRARASU(422114106027),J.K.MUTHUKUMARAN(422114106303)" who carried out the project work under my supervision



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INTERNAL EXAMINER



EXTERNAL EXAMINER

**WIRELESS ULTRASONIC RADAR FOR OBJECT
DETECTING, SPEED AND DISTANCE
MESUREMENT USING ARDUINO**

A PROJECT REPORT

Submitted by

M. PERUMAL (422114106019)

T. VINCENT (422114106033)

In partial fulfillment for the award of the degree

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ANNA UNIVERSITY::CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **“WIRELESS ULTERASONIC RADAR FOR OBJECT DETECTING, SPEED AND DISTANCE MEASUREMENT USING ARDUINO”** is the bonafide work of **“M.PERUMAL(422114106019), T.VINCENT (422114106033)”** who carried out the project work under my supervision.


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Submitted for the ANNA UNIVERSITY examination held on18/4/18.....


INTERNAL EXAMINER


EXTERNAL EXAMINER



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

ME6811 PROJECT WORK

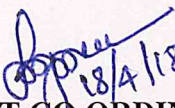
BATCH 2014- 2018

YEAR/SEM: IV/VIII

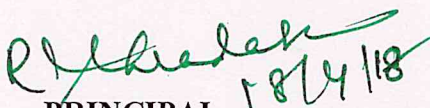
Batch No	Reg.No	Student Name	Title	Guide Name
1	422114114008	Bebisen.R	Design and Modification of Two stroke Petrol Engine for Fuel Economic	Sr. Josphine Mary., Assistant Professor, Department of Mechanical.
	422114114011	Ginish Mon.F		
	422114114018	Joseph Daniel.S		
	422114114045	Sujith Nayakam.S		
2	422114114035	Sankar.S	Study of Wear Behaviour of Epoxy/Nano Clay Composite	Dr. R. Arokiadass., Professor, Department of Mechanical.
	422114114039	Selvakumar.V		
	422114114040	Selvamani.T		
	422114114046	Sundaramoorthy.S		
3	422114114009	Bernod Sasikumar.C	Failure Analysis of 420 KW Gear box and Modification	Sr. G. Gnana Jency., Assistant Professor, Department of Mechanical.
	422114114013	Herwin Dhass.J		
	422114114020	Kathirvelavan.D		
	422114114026	Prabakaran.K		
4	422114114012	Habi Jacob	Investigation of Wear Behaviour of Epoxy/HNT Composite	Dr. R. Arokiadass., Professor, Department of Mechanical.
	422114114031	Rajalinga Prabu.R		
	422114114036	Sarjan Fernanado.J		
	422114114504	Mathivanan.V		
5	422114114304	Imranarif.S	Modeling and Design of Two Wheeler Shock Absorber	Mr. R. Jayakumar., Assistant Professor, Department of Mechanical.
	422114114308	Prabakaran.V		
	422114114312	Sivasankar.K		
	422114114314	Venkatesan.A		
6	422114114049	Vijay .L	Twin Spool Mixed Flow Turbo Fan Engine Steady State Design and Point Performance.	Mr. K. Saravanan., Assistant Professor, Department of Mechanical.
	422114114302	Dineshkrishnan.R		
	422114114309	Sabarathinam.V		
	422114114313	Subash.S		
7	422114114301	Athidhan.A	Fabrication and characterization of Aluminium Metal Matrix Hybrid Composites	Mr. D. Ommurugadhasan., Professor & Head Department of Mechanical.
	422114114303	Gnanathesekan.P		
	422114114305	Jeffry.J		
	422114114307	Mukilvannan.R		

8	422114114003	Anisha Christy.A	Study and Analysis of Input Drive Coupling Modification in Belt Gear Boxes in SME/MINE-IA	Mr. K. Saravanan., Assistant Professor, Department of Mechanical.
	422114114004	Anne Evanglin.A		
9	422114114016	Jegananath.S	Design and Fabrication of Separation of Plastic from Waste Material	.Mr. K.ShanmugaElango., Assistant Professor, Department of Mechanical
	422114114023	Manoj Kumar.A		
	422114114029	Prithvi Rajan.P		
	422114114048	Vengatesh.R		
10	422114114005	Antony Raj.G	Design and Performance Evaluation of Bio Mass Dryer for Agro Products	Mr. P. Murugan., Assistant Professor, Department of Mechanical.
	422114114010	Bhuvanraj.S		
	422114114306	Mohan.A		
11	422114114022	Manikandan.R	Paddy Cleaning System Using Solar Power.	Mrs. Annie John., Assistant Professor, Department of Mechanical.
	422114114037	Sasikumar.D		
	422114114038	Selvakumar.D		
	422114114051	Yogesh.S.E		
12	422114114019	Kanish.J	A Study of Emission & Performance Characteristics of Diesel Engine Run by Dual Fuel (Bio Diesel + Acetylene Gas)	Mr. R. Sasikumar., Assistant Professor, Department of Mechanical.
	422114114024	Mohana Krishnan.R		
	422114114027	Prabakaran.S		
	422114114310	Sathish.R		
13	422114114001	Almalu.B	Study and Analysis of Belt Drive Drum Assembly for Interchangeability and Standardisation in SME/MINE - IA	Mr. U. NaveenKumar., Assistant Professor, Department of Mechanical.
	422114114002	Anandha Raj.D		
	422114114006	Arul Kumar. B.		
	422114114025	Naveen.S		
14	422114114034	Rubachandran.R	Investigation of Performance & Emission Characteristics of Diesel Engine by Dual Fuel (Bio Diesel + Bio Gas)	Mr. R. Sasikumar., Assistant Professor, Department of Mechanical.
	422114114041	Senthilnathan.P		
	422114114043	Soundhararajan .S		
	422114114047	Thiruneelakandan.J		

15	422114114014	Jain Kingston.A	Design and Performance Analysis Of solar Power Circular Saw Machine	Mr. T. Elangovan., Assistant Professor, Department of Mechanical.
	422114114017	Jersho Bedro Moose.J		
	422114114033	Rojen.R		
16	422114114015	Janarthanan.M	Study of Mechanical Properties by Varying Composition of AL 6061 T6 Alloy & Titanium Carbide (TIC)	Mr. D. Ommurugadhasan., Professor & Head Department of Mechanical.
	422114114030	Purushothaman.S		
	422114114042	Seshathri.D		
	422114114044	Sriram.R		


18/4/18
PROJECT CO ORDINATOR


18/4/18
HOD


18/4/18
PRINCIPAL

DESIGN AND MODIFICATION OF TWO STROKE PETROL
ENGINE FOR FUEL ECONOMIC
A PROJECT REPORT

Submitted by

BEBISEN. R	422114114008
GINISH MON. F	422114114011
JOSEPH DANIEL. S	422114114018
SUJITH NAYAKAM.S	422114114045

In partial fulfillment for the award of the degree

Of

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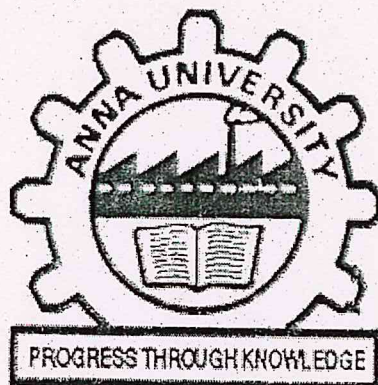
IN

MECHANICAL ENGINEERING

ST ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

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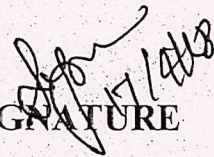
ANNA UNIVERSITY: CHENNAI -600025

APRIL/ MAY 2018

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BONAFIDE CERTIFICATE

Certificate that this report “**DESIGN AND MODIFICATION OF TWO STROKE PETROL ENGINE FOR FUEL ECONOMIC**” is the bonafide work of **BEBISEN.R, GINISH MON.F, JOSEPH DANIEL.S, SUJITH NAYAKAM,** who carried out project under my supervision.

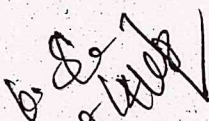

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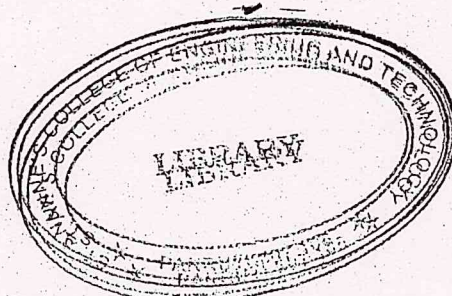

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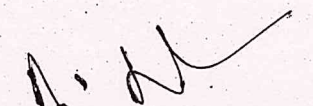
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The project Viva – Voce examination held on18-04-2018...../F.N.....


Internal Examiner




External Examiner

**STUDY OF WEAR BEHAVIOUR OF EPOXY / NANO
CLAY COMPOSITE**

A PROJECT REPORT

Submitted by

S.SANKAR	422114114035
V.SELVAKUMAR	422114114039
T.SELVAMANI	422114114040
S.SUNDARAMOORTHY	422114114046

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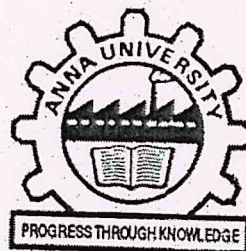
Of

BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,



PANRUTI-607110

ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "STUDY OF WEAR BEHAVIOUR OF EPOXY / NANO CLAY COMPOSITE" is the bonafide work of "S.SANKAR, V.SELVAKUMAR, T.SELVAMANI, S.SUNDARA MOORTHY" who carried out the project work under my supervision.

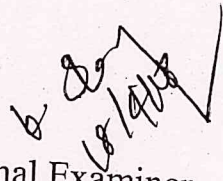

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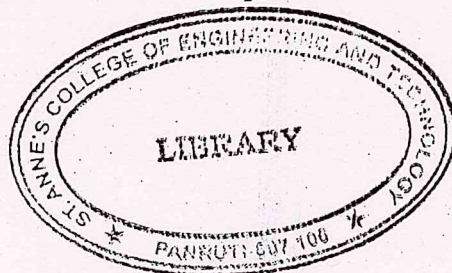
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The Project Viva-Voice examination held on18...04...2018...AN...


Internal Examiner




External Examiner

FAILURE ANALYSIS OF 420 KW GEARBOX AND MODIFICATION

A PROJECT REPORT

Submitted by

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KATHIRVELAVAN.D

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PRABAKARAN.K

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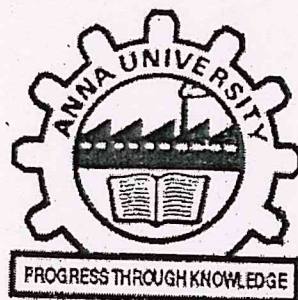
IN

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ST ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI - 607110



ANNA UNIVERSITY: CHENNAI -600025

APRIL 2018



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BONAFIDE CERTIFICATE

Certified that this project report "FAILURE ANALYSIS OF 420 KW GEARBOX AND MODIFICATION" is the bonafide work of BERNOD SASIKUMAR.C (422114114009), HERWIN DHASS .J (422114114013), KATHIRVELAVAN.D (422114114020), PRABAKARAN.K (42214114026), who carried out the project work under my supervision.

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Department of Mechanical Engineering

St Anne's college of Engineering

and Technology

Panruti - 607110

Submitted for the university examination held on ...18.04.2018.....

Internal Examiner

External Examiner

**INVESTIGATION OF WEAR BEHAVIOUR OF
EPOXY / HNT COMPOSITE**

A PROJECT REPORT

Submitted by

HABI JACOB	422114114012
R.RAJALINGA PRABU	422114114031
J.SARJAN FERNANDO	422114114036
V.MATHIVANAN	422114114504

In partial fulfillment for the award of the degree

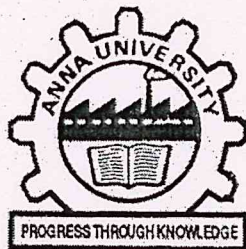
Of

BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,



PANRUTI-607110

ANNA UNIVERSITY : CHENNAI 600 025

APRIL 2018

APRIL 2018

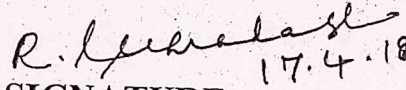
ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "INVESTIGATION OF WEAR BEHAVIOUR OF EPOXY / HNT COMPOSITE" is the bonafide work of "HABI JACOB, R.RAJALINGA PRABU, J.SARJAN FERNANDO, V.MATHIVANNAN" who carried out the project work under my supervision.

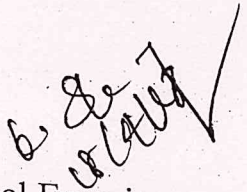

SIGNATURE

Mr. D. OMMURUGADHASAN, M.E.,
HEAD OF THE DEPARTMENT
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St. Anne's College of Engineering
and Technology, Panruti.


SIGNATURE

Dr. R. AROKIADASS, M.E, Ph.D.,
SUPERVISOR
Principal,
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on 18.04.2018.....


Internal Examiner




External Examiner

**MODELING AND DESIGN OF TWO WHEELER SHOCK
ABSORBER**

A PROJECT REPORT

Submitted by

S.IMRAN ARIF	422114114304
V.PRABAKARAN	422114114308
K.SIVASANKAR	422114114312
A.VENKATESAN	422114114314

In partial fulfillment for the award of the degree

Of

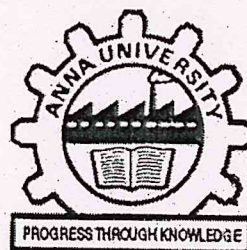
BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**MODELING AND DESIGN OF TWO WHEELER SHOCK ABSORBER**” is the bonafide work of “**S.IMRAN ARIF, V.PRABAKARAN, K.SIVASANKAR, A.VENKATESAN**” who carried out the project work under my supervision.


SIGNATURE

Mr. D. OMMURUGADHASAN, ME.,(Ph.D)

HEAD OF THE DEPARTMENT

Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology, Panruti.

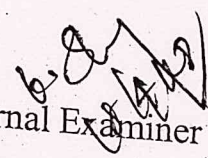

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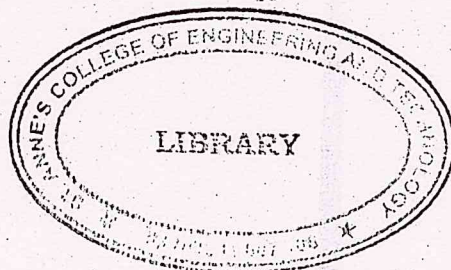
Mr.R.JAYAKUMAR , ME.,

SUPERVISOR

Dept., of Mechanical Engineering
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on .18..04..2018.....


Internal Examiner




External Examiner

**TWIN SPOOL MIXED FLOW TURBOFAN ENGINE
STEADY STATE DESIGN AND POINT
PERFORMANCE**

A PROJECT REPORT

Submitted by

L.VIJAY	422114114049
R.DHINESH KRISHNAN	422114114302
V.SABARATHINAM	422114114309
S.SUBASH	422114114313

In partial fulfillment for the award of the degree

Of

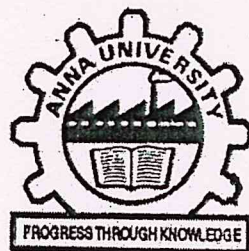
BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

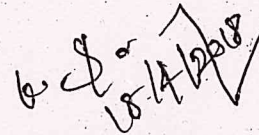
Certified that this project report **“TWIN SPOOL MIXED FLOW TURBOFAN ENGINE STEADY STATE DESIGN AND POINT PERFORMANCE”** is the bonafide work of **“L.VIJAY, R.DHINESH KRISHNAN, V.SABARATHINAM, S.SUBASH”** who carried out the project work under my supervision.



SIGNATURE

Mr. D. OMMURUGADHASAN, ME.,(Ph.D)
HEAD OF THE DEPARTMENT

Dept., of Mechanical Engineering,
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and Technology, Panruti.

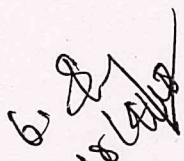


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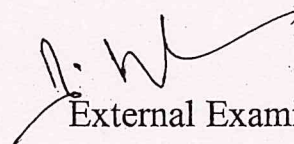
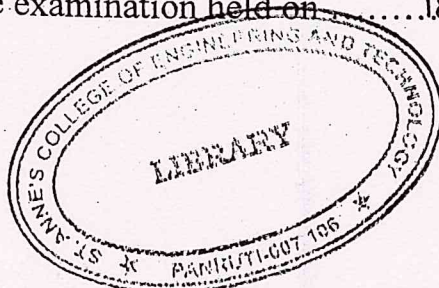
Mr. K.SARAVANAN, ME.,
SUPERVISOR

Dept., of Mechanical Engineering
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on18.04.2018.....



Internal Examiner



External Examiner

**FABRICATION AND CHARACTERIZATION OF
ALUMINIUM METAL MATRIX HYBRID
COMPOSITES**

A PROJECT REPORT

Submitted by

ATHIDHAN.A	422114114301
GNANATHESEKAN.P	422114114303
JEFFRY.J	422114114305
MUKILVANNAN.R	422114114307

In partial fulfillment for the award of the degree

Of

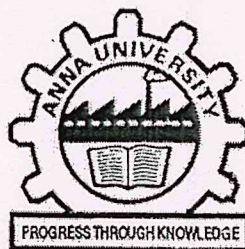
BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **“FABRICATION AND CHARACTERIZATION OF ALUMINIUM METAL MATRIX HYBRID COMPOSITES”** is the bonafide work of **“ATHIDHAN.A, GNANATHESEKAN.P, JEFFRY.J,MUKILVANNAN.R”** who carried out the project work under my supervision.


SIGNATURE

Mr.D.OMMURUGADHASAN,
ME.,(Ph.D)

HEAD OF THE DEPARTMENT

Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology, Panruti.

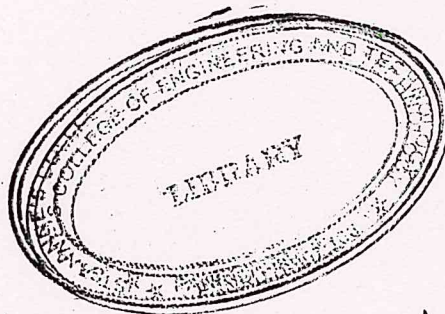

SIGNATURE

Mr.D.OMMURUGADHASAN,
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SUPERVISOR

Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on 18/04/2018..FN.....




Internal Examiner


External Examiner

**STUDY AND ANALYSIS OF INPUT DRIVE COUPLING
MODIFICATION IN BELT GEAR BOXES**

IN SME/MINE -IA

A PROJECT REPORT

Submitted by

ANISHA CHRISTY. A

422114114003

ANNE EVANGLIN. A

422114114004

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

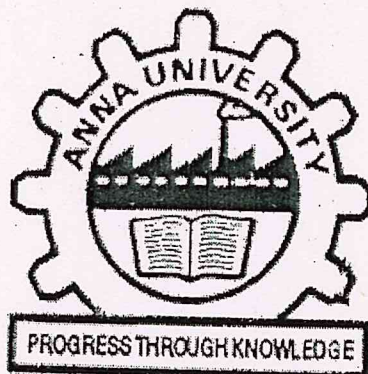
IN

MECHANICAL ENGINEERING

ST ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI - 607110



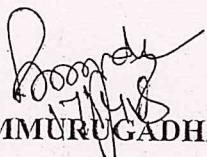
ANNA UNIVERSITY: CHENNAI -600025

APRIL/ MAY 2018

ANNA UNIVERSITY: CHENNAI- 600025

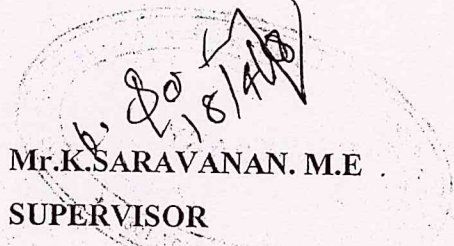
BONAFIDE CERTIFICATE

Certificate that this report “STUDY AND ANALYSIS OF INPUT DRIVE COUPLING MODIFICATION IN BELT GEARBOXES IN SME/MINE-IA” is the bonafide work of A.ANISHA CHRISTY, A.ANNE EVANGLIN who carried out project under my supervision.



Mr. D. OMMURUGADHASAN, M.E., (Ph.D.),
HEAD OF THE DEPARTMENT

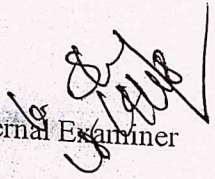
Department of Mechanical Engineering
St Anne's college of Engineering
and Technology
Panruti – 607110



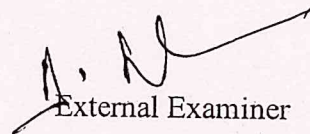
Mr. K. SARAVANAN, M.E
SUPERVISOR

Department of Mechanical Engineering
St Anne's college of Engineering
and Technology
Panruti – 607110

The project Viva – Voce examination held on18.04.2018.....



Internal Examiner



External Examiner

**DESIGN AND FABRICATION OF SEPARATION OF
PLASTIC FROM WASTE MATERIAL**

A PROJECT REPORT

Submitted by

S.JAGANNATH	422114114016
A .MANOJ KUMAR	422114114023
P.PRITHVI RAJAN	422114114029
R.VENGATESH	422114114048

In partial fulfillment for the award of the degree

of

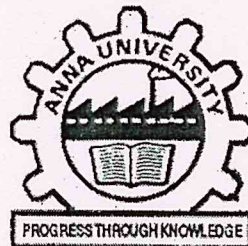
BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**DESIGN AND FABRICATION OF SEPARATION OF PLASTIC FROM WASTE MATERIAL**” is the bonafide work of “**S.JAGANNATH, A.MANOJ KUMAR, P.PRITHVI RAJAN, R.VENGATESH**” who carried out the project work under my supervision.


SIGNATURE

Mr.D.OMMURUGADHASAN, ME.,(Ph.D)
HEAD OF THE DEPARTMENT

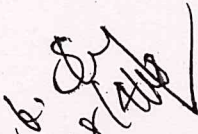
Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology, Panruti.


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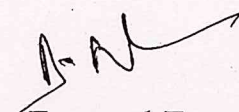
Mr.K.SHANMUGAELANGO, ME.,
SUPERVISOR

Dept., of Mechanical Engineering
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on ..18-04-2018... AN....


Internal Examiner




External Examiner

**DESIGN AND PERFORMANCE EVALUATION OF
BIO MASS-DRYER FOR AGRO PRODUCTS**

A PROJECT REPORT

Submitted by

ANTONY RAJ .G

422114114005

BHUVAN RAJ .S

422114114010

MOHAN .A

422114114306

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI – 607110



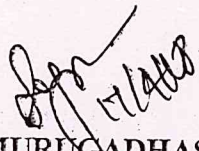
ANNA UNIVERSITY: CHENNAI -600025

APRIL/ MAY 2018

ANNA UNIVERSITY: CHENNAI- 600025

BONAFIDE CERTIFICATE

Certificate that this report “**DESIGN AND PERFORMANCE EVALUATION OF BIO MASS-DRYER FOR AGRO PRODUCTS**” is the bonafide work of **ANTONY RAJ .G, BHUVAN RAJ .S, MOHAN .A** who carried out project under my supervision.



Mr. D. OMMURUGADHASAN, M.E., (Ph.D.),

HEAD OF THE DEPARTMENT

Department of Mechanical Engineering

St Anne's college of Engineering

and Technology

Panruti – 607110



Mr. P. MURUGAN, M.E, M.B.A

SUPERVISOR

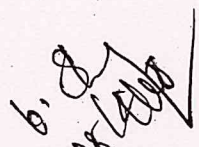
Department of Mechanical Engineering

St Anne's college of Engineering

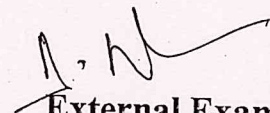
and Technology

Panruti – 607110

The project Viva – Voce examination held on 18.4.2018.....



Internal Examiner



External Examiner



PADDY CLEANING SYSTEM USING SOLAR POWER

A PROJECT REPORT

Submitted by

R.MANIKANDAN	422114114022
D.SASIKUMAR	422114114037
D.SELVAKUMAR	422114114038
YOGESH.S.E	422114114051

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,



PANRUTI-607110

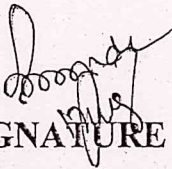
ANNA UNIVERSITY : CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY : CHENNAI 600 025

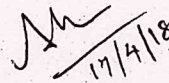
BONAFIDE CERTIFICATE

Certified that this project report “PADDY CLEANING SYSTEM USING SOLAR POWER” is the bonafide work of **R.MANIKANDAN (422114114022), D.SASIKUMAR (422114114037), D.SELVA KUMAR (422114114038), YOGESH.S.E (422114114051)**” who carried out the project work under my supervision.



SIGNATURE

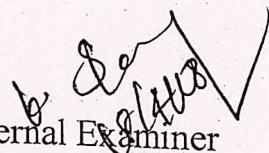
Mr. D. OMMURUGADHASAN, M.E.,
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St. Anne's College of Engineering
and Technology, Panruti.



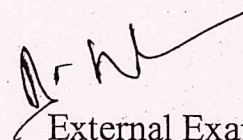
SIGNATURE

Mrs. ANNIE JOHN, M.E.,
SUPERVISOR
Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology, Panruti.

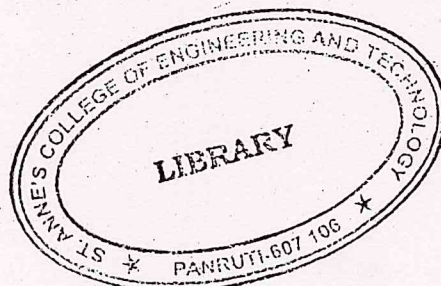
The Project Viva-Voce examination held on18-04-2018..FN.....



Internal Examiner



External Examiner



**A STUDY OF EMISSION & PERFORMANCE
CHARACTERISTICS OF DIESEL ENGINE RUN BY DUAL
FUEL (BIO DIESEL + ACETYLENE GAS)**

A PROJECT REPORT

Submitted by

KANISH.J	422114114019
MOHANAKRISHNAN.R	422114114024
PRABAKARAN.S	422114114027
SATHISH.R	422114114310

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

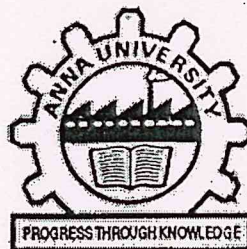
IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI - 607110



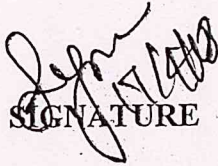
ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY: CHENNAI ANNA UNIVERSITY:
CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "A STUDY OF EMISSION & PERFORMANCE CHARACTERISTICS OF DIESEL ENGINE RUN BY DUAL FUEL (BIO DIESEL + ACETYLENE GAS)" is the bonafide work of Kanish.J, Mohanakrishnan.R, Prabakaran. S,Sathish.R who carried out the project work under my supervision.

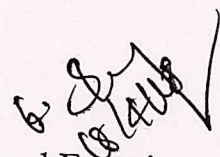

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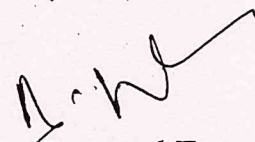
Mr. D. OMMURUGADHASAN, M.E., (PhD)
HEAD OF THE DEPARTMENT
Dept., of Mechanical Engineering,
St. Anne's College of Engineering & Tech.,
Panruti.

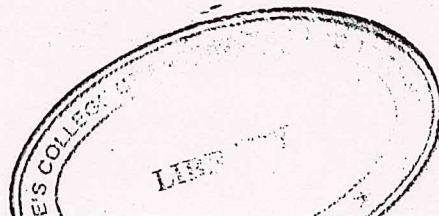

SIGNATURE

Mr. R.SASIKUMAR, M.E., M.B.A., (PhD)
SUPERVISOR
Dept., of Mechanical Engineering,
St. Anne's College of Engineering & Tech.,
Panruti

The Project Viva-Voce examination held on18.04.2018 /FN.....


Internal Examiner


External Examiner



**STUDY AND ANALYSIS OF BELT DRIVE DRUM
ASSEMBLY FOR INTERCHANGEABILITY AND
STANDARDISATION IN SME/MINE-IA**

A PROJECT REPORT

Submitted by

B. ALMALU	422114114001
D. ANANDHA RAJ	422114114002
B. ARUL KUMAR	422114114006
S. NAVEEN	422114114025

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI-607110



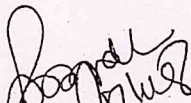
ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "STUDY AND ANALYSIS OF BELT DRIVE DRUM ASSEMBLY FOR INTERCHANGEABILITY AND STANDARDISATION IN SME/ MINE-IA" is the bonafide work of "B. ALMALU, D.ANANDHA RAJ, B.ARUL KUMAR,S. NAVEEN" who carried out the project work under my supervision.


SIGNATURE

Mr. D. OMMURUGADHASAN, ME.,(Ph.D)
HEAD OF THE DEPARTMENT

Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology, Panruti.

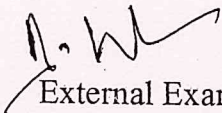

SIGNATURE

Mr. U.NAVEENKUMAR, ME.,
SUPERVISOR

Dept., of Mechanical Engineering
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on .18.04.2018./AN.....


Internal Examiner


External Examiner

INVESTIGATION OF PERFORMANCE & EMISSION
CHARACTERISTICS OF DIESEL ENGINE BY DUAL FUEL
(BIO DIESEL + BIO GAS)

A PROJECT REPORT

Submitted by

RUBACHADIRAN.R	422114114034
SENTHILNATHAN.P	422114114041
SOUNTHRARAJAN.S	422114114043
THIRUNEELAKANDAN.J	422114114047

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

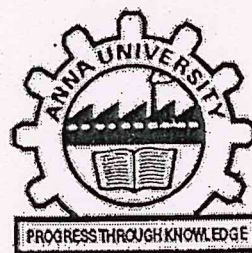
IN

MECHANICAL ENGINEERING

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI - 607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**INVESTIGATION OF PERFORMANCE & EMISSION CHARACTERISTICS OF DIESEL ENGINE BY DUAL FUEL (BIO DIESEL + BIO GAS)**” is the bonafide work of RUBACHADIRAN.R, SENTHILNATHAN.P, SOUNTHRARAJAN .S & THIRUNEELAKANDAN.J who carried out the project work under my supervision.


SIGNATURE

Mr. D. OMMURUGADHASAN, M.E., (PhD)

HEAD OF THE DEPARTMENT

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St. Anne's College of Engineering & Tech.,

Panruti.


SIGNATURE

Mr. R.SASIKUMAR, M.E., M.B.A., (PhD)


SUPERVISOR

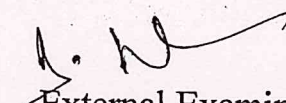
Dept., of Mechanical Engineering,

St. Anne's College of Engineering & Tech.,

Panruti

The Project Viva-Voce examination held on18/4/18.....


Internal Examiner


External Examiner

**DESIGN AND PERFORMANCE ANALYSIS OF
SOLAR POWER CIRCULAR SAW MACHINE
A PROJECT REPORT**

Submitted by

JAIN KINGSTON. A	422114114014
JERSHO BEDRO MOOSE. J	422114114017
ROJEN. R	422114114033

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

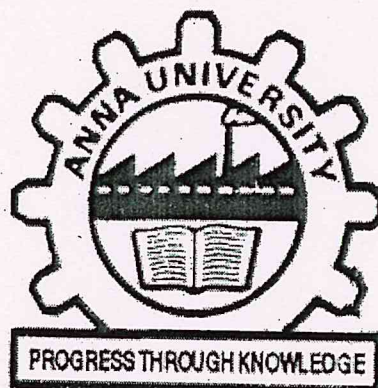
IN

MECHANICAL ENGINEERING

ST ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI – 607110



ANNA UNIVERSITY: CHENNAI -600025

APRIL/ MAY 2018

ANNA UNIVERSITY: CHENNAI- 600025

BONAFIDE CERTIFICATE

Certificate that this report “**DESIGN AND PERFORMANCE ANALYSIS OF SOLAR POWER CIRCULAR SAW MACHINE**” is the bonafide work of **JAIN KINGSTON.A, JERSHO BEDRO MOOSE.J, ROJEN.R**, who carried out project under my supervision.



SIGNATURE

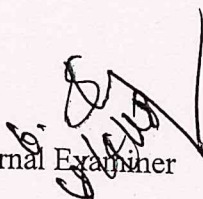
Mr. D. OMMURUGADHASAN, M.E., (Ph.D.),
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Panruti – 607110



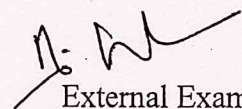
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Mr. T. ELANGO VAN. M.E,
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Panruti – 607110

The project Viva – Voce examination held on18-04-2018 / A.N......



Internal Examiner



External Examiner

**STUDY OF MECHANICAL PROPERTIES BY
VARYING COMPOSITION OF AL6061 T6 ALLOY &
TITANIUM CARBIDE (TIC)**

A PROJECT REPORT

Submitted by

JANARTHANAN.M	422114114015
PURUSHOTHAMAN.S	422114114030
SESHATHRI.D	422114114042
SRIRAM.R	422114114044

In partial fulfillment for the award of the degree

Of

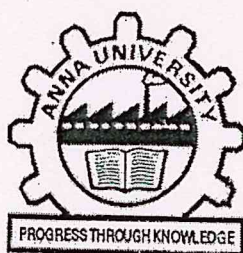
BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI-607110



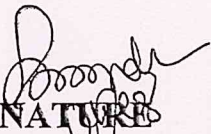
ANNA UNIVERSITY: CHENNAI 600 025

APRIL/2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report **“STUDY OF MECHANICAL PROPERTIES BY VARYING COMPOSITION OF AL6061 T6 ALLOY & TITANIUM CARBIDE (TIC)”** is the bonafide work of **“JANARTHANAN.M, PURUSHOTHAMAN.S, SESHATHRI.D, SRIRAM.R”** who carried out the project work under my supervision.

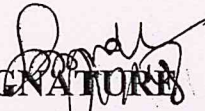


SIGNATURE

**Mr.D.OMMURUGADHASAN,
ME.,(Ph.D)**

HEAD OF THE DEPARTMENT

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St. Anne's College of Engineering
and Technology, Panruti.



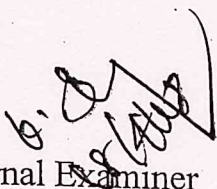
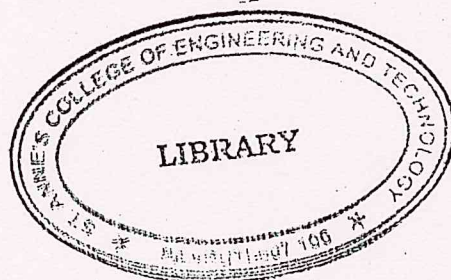
SIGNATURE

**Mr.D.OMMURUGADHASAN,
ME.,(Ph.D)**

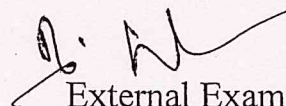
SUPERVISOR

Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on 18/04/2018



Internal Examiner



External Examiner



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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

ANGUCHETTYPALAYAM, PANRUTI – 607 106.

MINI PROJECT



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

ME6612DESIGN AND FABRICATION PROJECT

BATCH 2015- 2019

YEAR/SEM: III/VI

S.NO	REG.NO	NAME	TITLE	NAME OF THE GUIDE
1	422115114001	Ajai D	Design And Fabrication Of Solar Based Sensing Window Closing System	Dr.D.Ommurugadhasan. Professor& Head Department of Mechanical
	422115114003	Alan Arputharaj T		
	422115114017	Jagan S P		
	422115114034	Rajadurai R		
2	422115114027	Nithiyandham K	Design And Fabrication Of Multi Wheel Nuts Tighter and Remover	Mr.K.Saravanan. Assistant Professor Department of Mechanical
	422115114030	Parthiban S		
	422115114049	Sundarabharathi D		
	422115114301	Abdul Niyas J		
3	422115114039	Saravanakumar C	Design And Fabrication Of Grass Cutting Machine	Mr.U.Naveenkumar. Assistant Professor Department of Mechanical
	422115114040	Sarvin Kumar S		
	422115114306	Vijayabaskar A		
4	422115114025	Muralidharan K	Design And Fabrication Of Motorized Screw Jack	Mr.K.Shanmuga Elango. Assistant Professor Department of Mechanical
	422115114029	Parthiban K		
	422115114038	Saranya S		
	422115114035	Rajmohan R		
5	422115114047	Subash S	Design And Fabrication Of Solar Power Auto Irrigation System	Mr.R.Sasikumar. Assistant Professor Department of Mechanical
	422115114051	Veerapandy S		
	422115114056	Yogeshwar K K		
6	422115114036	Rakesh R	Design of Oil Extracting Machine	Mr.R.Sasikumar. Assistant Professor Department of Mechanical
	422115114037	Sakthivel S		
	422115114053	Vijay A		

7	422115114002	Ajithkumar V	Design And Fabrication Of Automatic Board Erasing System	Mr.R.Jayakumar. Assistant Professor Department of Mechanical
	422115114006	Aravintha Raj T		
	422115114009	Balamurali M		
	422115114044	Siva G		
8	422115114008	Arun Kumar M	Design And Fabrication Of Mini Air Blower	Mrs.Annie John. Assistant Professor Department of Mechanical
	422115114019	Jaihindh J		
	422115114020	Jothibas M		
	422115114028	Padmanathan D		
9	422115114011	Bhuvana M	Design And Fabrication Of Gearless Power Transmission	Mr.R.Jayakumar. Assistant Professor Department of Mechanical
	422115114024	Mugilan K		
	422115114026	Naveenkumar S		
	422115114048	Sujin A		
10	422115114007	Arul Dass A	Design And Fabrication Of Power Generation Using Railway Track	Mr.K.Shanmuga Elango. Assistant Professor Department of Mechanical
	422115114018	Jaganraj R		
	422115114021	Kavisanthan S		
	422115114032	Pratheepraj E		
11	422115114043	Shanmugapandiyan V	Design And Fabrication Of Automatic Side Stand Retrieval System	Mr.P.Murugan. Assistant Professor Department of Mechanical
	422115114045	Sivanraj C		
	422115114050	Thajutheen R		
	422115114304	Santhosh Kumar M		
12	422115114055	Vishnupriya C	Design And Fabrication Of Self Balancing Gyro Mono Wheel	Mr.T.Elangovan. Assistant Professor Department of Mechanical
	422115114302	Dhanasekar V		
	422115114303	Rajesh R		
	422115114305	Susindhar A		
13	422115114010	Balamurugan V	Design And Fabrication Of Gasification of Stove	Mr.T.Elangovan. Assistant Professor Department of Mechanical
	422115114012	Chakkaravarthi.T		
	422115114013	Dinesh A		
	422115114015	Hariharan A		

14	422115114022	Lenin S	Design And Fabrication Of Solid Waste Removal Machine	Sr. Josephine Mary. Assistant Professor Department of Mechanical
	422115114023	Manikandan J		
	422115114031	Prasanth B		
	422115114033	Pugazhenth P		

S. Pu
21/4/18

PROJECT CO ORDINATOR

J. P.
21/4/18

HOD

R. Josephine
21.4.18

PRINCIPAL

**DESIGN AND FABRICATION OF SOLAR BASED RAIN
SENSING WINDOW CLOSING SYSTEM**

A Project Report

Submitted by

AJAI.D

(422115114001)

ALAN ARPUTHA RAJ.T

(422115114003)

JAGAN.S.P

(422115114017)

RAJA DHURAI .R

(422115114034)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

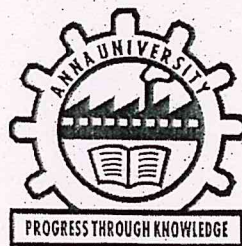
IN

MECHANICAL ENGINEERING

ST. ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

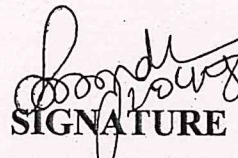
BONAFIDE CERTIFICATE

Certified that this project report “DESIGN AND FABRICATION OF SOLAR BASED RAIN SENSING WINDOW CLOSING SYSTEM” is the bonafide work of AJAI.D (422115114001), ALAN ARPUTHA RAJ.T(422115114003), JAGAN.S.P(422115114017), AND RAJADURAL.R(422115114034) who carried out the project under my supervision.



SIGNATURE

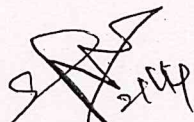
Mr.D.OMMURUGADHASAN, M.E.,Ph.D.,
HEAD OF THE DEPARTMENT
Dept., of Mechanical Engineering,
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Technology,
Panruti - 607110



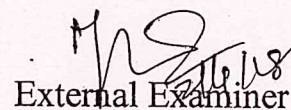
SIGNATURE

Mr.D.OMMURUGADHASAN, M.E.,Ph.D.,
SUPERVISOR
Dept., of Mechanical Engineering,
St. Anne's College of Engineering and
Technology,
Panruti – 607110.

Submitted for project viva-voice examination held on 21-4-18 (F.N)



Internal Examiner



External Examiner

DESIGN AND FABRICATION OF MULTI WHEEL NUTS TIGHTER AND REMOVER

A Project Report

Submitted by

NITHIYANANDHAM.K

(422115114027)

ABDUL NIYAS.J

(422115114301)

SUNDARABHARATHI.D

(422115114049)

PARTHIBAN.S

(422115114030)

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

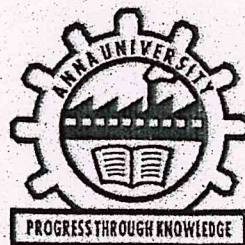
IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF MULTI WHEEL NUTS TIGHTER AND REMOVER" is the bonafide work of PARTHIBAN.S (422115114030) who carried out the project under my supervision.

For
K. Saravanan
21/4/18
Mr. D. Ommurugadhasan M.E., Ph.D,
(Head of Mechanical Department)
Department of mechanical engineering
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K. Saravanan
Mr.K. Saravanan M.E.,
(Supervior)
Department of mechanical engineering
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Submitted for project viva-voice examination held on 21/04/18

[Signature]
Internal examiner

[Signature]
external examiner

**DESIGN AND FABRICATION OF GRASS CUTTING
MACHINE**

A Project Report

Submitted by

SARAVANAKUMAR.C

(422115114039)

SARVIN KUMAR.S

(422115114040)

VIJAYA BASKAR.A

(422115114306)

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

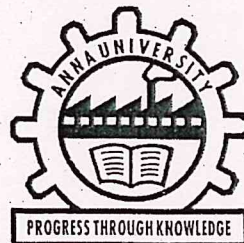
IN

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ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF GRASS CUTTING MACHINE" is the bonafide work of SARAVANAKUMAR.C(422115114039), SARVIN KUMAR.S(422115114040) and VIJAYA BASKAR.A(422115114306) who carried out the project under my supervision.

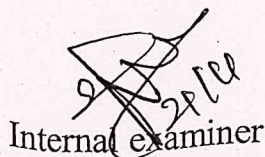

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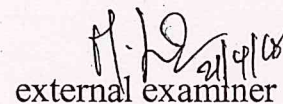
Mr. D. Ommurugadhasan M.E., (Ph.D),
(Head of Mechanical Department)
Department of mechanical engineering
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Mr.U. Naveenkumar M.E.,
Supervisor
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panruti-607110

Submitted for project viva-voice examination held on 21-04-18 & FN


Internal examiner


external examiner

DESIGN AND FABRICATION OF MOTORIZED SCREW JACK

A PROJECT REPORT

Submitted by /

K.MURALIDHARAN (422115114025)

K.PARTHIBAN (422115114029)

S.SARANYA (422115114038)

R.RAJMOHAN (422115114035)

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S COLLEGE OF ENGINEERING AND

TECHNOLOGY PANRUTI-607110

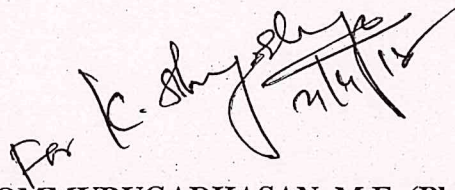


ANNA UNIVERSITY : CHENNAI 600 025

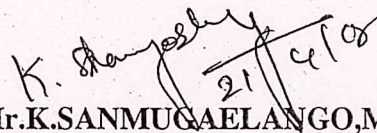
APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report “ DESIGN AND FABRICATION OF
MOTORIZED SCREW JACK” is the bonafide work of “ K.PARTHIBAN”
who carried out the project work under my supervision.

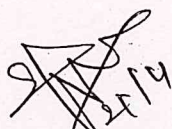


Mr. D. OMMURUGADHASAN, M.E.,(Ph.D.,)
HEAD OF THE DEPARTMENT
Department of Mechanical Engineering,
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and Technology,
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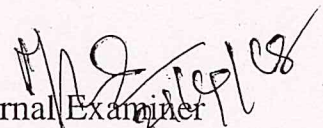


Mr.K.SANMUGAELANGO,M.Tech.,
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Department of mechanical engineering
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Panruti, 607110

The Project Viva-Voce examination held on21/04/2018/AN.....



Internal Examiner



External Examiner

DESIGN AND FABRICATION OF SOLAR POWER AUTO IRRIGATION SYSTEM

A PROJECT REPORT

Submitted by

S.SUBASH **422115114047**

S.VEERAPANDY **422115114051**

K.K.YOGESHWAR **422115114056**

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S

COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI - 607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF SOLAR POWER AUTO IRRIGATION SYSTEM" is the bonafide work of "S.SUBASH (422115114047), S.VEERAPANDY (422115114051), K.K.YOGESHWAR (422115114056)" who carried out the project work under my supervision.


SIGNATURE

Mr.D.OMMURUGADHASAN, M.E.,(Ph.D),

HEAD OF THE DEPARTMENT

Dept., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology,
Panruti - 607110.

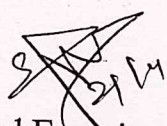

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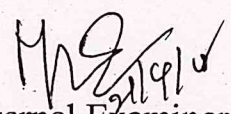
Mr.R.SASIKUMAR,M.E.,MBA.,(Ph.D),

SUPERVISOR

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St. Anne's College of Engineering
and Technology,
Panruti - 607110

The Project Viva-Voice examination held on 21/4/18 - AN


Internal Examiner


External Examiner

DESIGN OF OIL EXTRACTING MACHINE

A Project Report

Submitted by

R.RAKESH (422115114036)

S.SAKTHIVEL (422115114037)

A.VIJAY (422115114053)

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

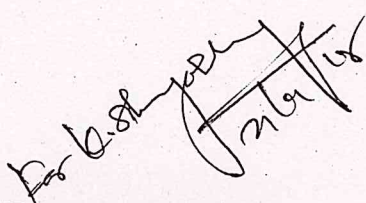


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN OF OIL EXTRACTING MACHINE" is the bonafide work of R.RAKESH (422115114036), S.SAKTHIVEL (422115114037), and A.VIJAY(422115114053) who carried out the project under my supervision.

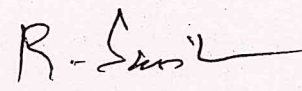


SIGNATURE

Mr. Ommurugadhasan M.E.,Ph.D.,
(Head of Mechanical Department)

Department of mechanical engineering
St.Anne's college of engineering &
Technology
Panruti - 607110

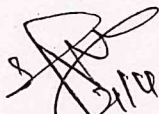
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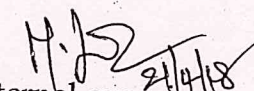
Mr. R.Sasikumar M.E.,
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Panruti - 607110

Submitted for project viva-voice examination held on 21.4.2018



Internal examiner



External examiner

**DESIGN AND FABRICATION OF AUTOMATIC BOARD
ERASING SYSTEM.**

A PROJECT REPORT

Submitted by

V.AJITH KUMAR (422115114003)

T.ARAVINTHARAJ (422115114006)

M.BALAMURALI (422115114009)

G.SIVA (422115114044)

In partial fulfillment for the award of the degree

Of

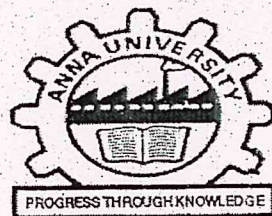
BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S COLLEGE OF ENGINEERING AND

TECHNOLOGY PANRUTI-607110



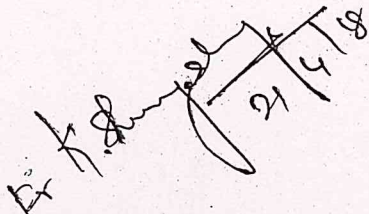
ANNA UNIVERSITY : CHENNAI 600 025

APRIL 2018

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**DESIGN AND FABRICATION OF AUTOMATIC BOARD ERASING SYSTEM**” is the bonafide work of “**T.ARAVINTHARAJ**” who carried out the project work under my supervision.



Handwritten signature of Mr. D. Ommurugadhasan, dated 21/4/18.

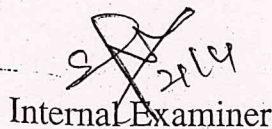
Mr.D.OMMURUGADHASAN, M.E.(Ph.D)
HEAD OF THE DEPARTMENT
Department., of Mechanical Engineering,
St. Anne's College of Engineering
and Technology,
Panruti,607110



Handwritten signature of Mr. R. Jayakumar, dated 21/4/18.

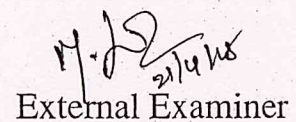
Mr.R.JAYAKUMAR,ME.,
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Department of mechanical engineering
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and Technology,
Panruti, 607110

The Project Viva-Voce examination held on 21.04.2018 (AN)



Handwritten signature of Internal Examiner, dated 21/4/18.

Internal Examiner



Handwritten signature of External Examiner, dated 21/4/18.

External Examiner

DESIGN AND FABRICATION OF MINI AIR BLOWER

A PROJECT REPORT

Submitted by

M.ARUNKUMAR (422115114008)

J.JAIHINDH (422115114019)

M.JOTHIBASU (422115114020)

D.PADMANATHAN (422115114028)

In partial fulfillment for the award of the degree

Of

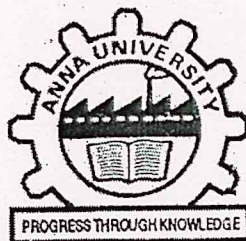
BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY,

PANRUTI-607 110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report “**DESIGN AND FABRICATION OF MINI AIR BLOWER**” is the bonafide work of “**M.ARUNKUMAR**” who carried out the project work under my supervision.

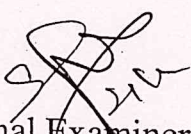

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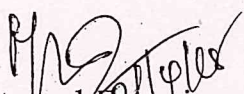
Mr. D.Ommurugadhasan M.E.(Ph.D.),
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Mrs.J.Annie john M.E.,
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panruti-607110

The Project Viva-Voce examination held on21.04.2018 - F.V.....


Internal Examiner


External Examiner

**DESIGN AND FABRICATION OF GEARLESS POWER
TRANSMISSION**

A Project Report

Submitted by

BHUVANA.M

(422115114011)

MUGILAN.K

(422115114024)

NAVEEN KUMAR.S

(422115114026)

SUJIN.A

(422115114048)

in partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

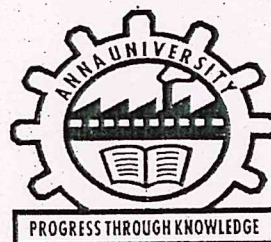
IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

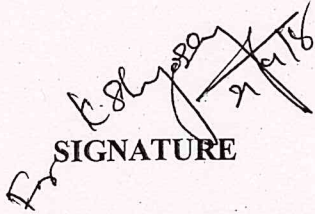


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

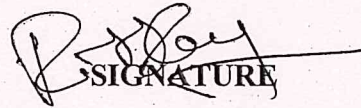
BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF GEARLESS POWER TRANSMISSION" is the bonafide work of BHUVANA.M (422115114011) who carried out the project under my supervision.



SIGNATURE

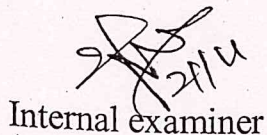
Mr. D.Ommurugadhasan M.E. (Ph.D.,)
(Head of Mechanical Department)
Department of mechanical engineering
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panruti-607110



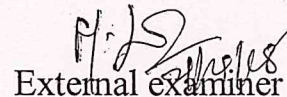
SIGNATURE

Mr.R.Jayakumar M.E.,
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panruti-607110

Submitted for project viva-voice examination held on 21-04-2018 (P.M)



Internal examiner



External examiner

**DESIGN AND FABRICATION OF POWER GENERATION USING
RAILWAY TRACK**

A Project Report

Submitted by

ARUL DASS.A

(422115114007)

JAGANRAJ.R

(422115114018)

KAVISANTHAN.S

(422115114021)

PRATHEEP RAJ.E

(422115114032)

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Of

BACHELOR OF ENGINEERING

IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

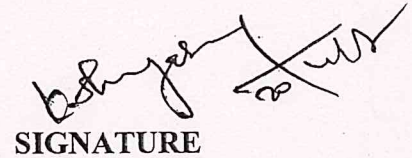
APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF POWER GENERATION USING RAILWAY TRACK" is the bonafide work of PRATHEEP RAJ.E who carried out the project under my supervision.

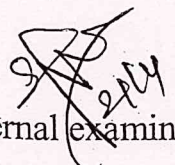

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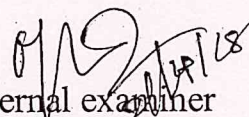
Mr. D.Ommurugadhasan M.E. (Ph.D.,)
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Mr. K. Shanmuga Elango M.Tech.,
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Department of mechanical engineering
St,anne's college of engineering &
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panruti-607110

Submitted for project viva-voice examination held on 21-04-2018 F.N


Internal examiner


External examiner

**DESIGN AND FABRICATION OF AUTOMATIC SIDE
STANDRETRIVAL SYSTEM**

A Project Report

Submitted by

SHANMUGAPANDIAN.V

(422115114043)

SIVAN RAJ.C

(422115114045)

THAJUTHEEN.R

(422115114050)

SANTHOSHKUMAR.M

(422115114304)

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

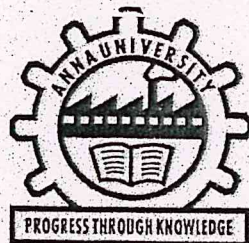
IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110

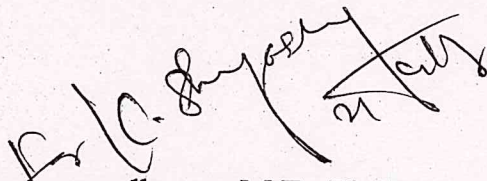


ANNA UNIVERSITY: CHENNAI 600 025

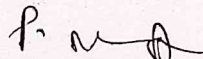
APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF AUTOMATIC SIDE STAND RETRIVAL SYSTEM" is the bonafide work of SHANMUGAPANDIAN.V(422115114043), SIVAN RAJ.C (422115114045), THAJUTHEEN.R(422115114050), SANTHOSHKUMAR(422115114304), who carried out the project under my supervision.

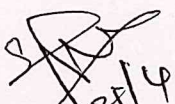


Mr. D. Ommurugadhasan M.E., Ph.D,
(Head of Mechanical Department)
Department of mechanical engineering
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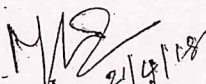


Mr.P. MURUGAN M.E.(Ph.D.)
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panruti-607110

Submitted for project viva-voice examination held on 21/4/18 & A.N



Internal examiner
21/4



external examiner
21/4/18

**DESIGN AND FABRICATION OF SELF BALANCING
GYRO MONO WHEEL**

A Project Report

Submitted by

VISHNUPRIYA.C

(422115114055)

DHANASEKAR.V

(422115114302)

RAJESH.R

(422115114303)

SUSINDHAR.A

(422115114305)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

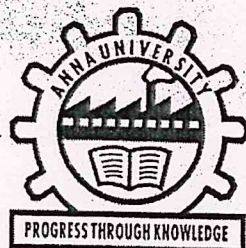
IN

MECHANICAL ENGINEERING

ST.ANNE'S

COLLEGE OF ENGINEERING & TECHNOLOGY

PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CIRTIFICATE

Certified that this project report “**SELF BALANCING GYRO MONO WHEEL**” is the bonafide work of **VISHNUPRIYA.C (422115114055)**, **DHANASEKAR.V (422115114302)**, **RAJESH.R (422115114303)**, and **SUSINDHAR.A (422115114305)** who carried out the project under my supervision.



SIGNATURE


Mr. D. Ommurugadhasn M.E.,(Ph.D.),
(Head of Mechanical Department)
Department of mechanical engineering
St.Anne’s college of engineering &
technology
Panruti-607110



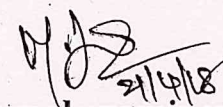
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Mr. T. Elangovan M.E.,
(Asst. Professor)
Department of mechanical engineering
St.Anne’s college of engineering &
technology
Panruti-607110

Submitted for project viva-voice examination held on 21/4/2018



Internal examiner



External examiner

DESIGN AND FABRICATION OF GASIFICATION OF STOVE

A PROJECT REPORT

Submitted by

V.BALAMURUGAN	422115114010
T.CHAKKARAVARTHI	422115114012
A.DINESH	422115114013
A.HARIHARAN	422115114015

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL

ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

PANRUTI-607110

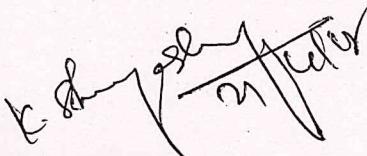


ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF GASIFICATION OF STOVE" is the bonafide work of "A.DINESH," who carried out the project work under my supervision.

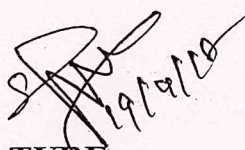


SIGNATURE

Mr. D. OMMURUGADHASAN, M.E.,

HEAD OF THE DEPARTMENT

Department of Mechanical ,
engineering,
St. Anne's College of Engineering
and Technology, Panruti.



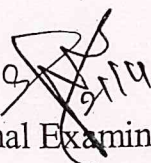
SIGNATURE

Mr. T. ELANGO, ME

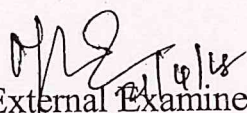
SUPERVISOR

Department of Mechanical
Engineering,
St. Anne's College of Engineering
and Technology, Panruti

The Project Viva-Voce examination held on ..21-04-2018 (FN).....



Internal Examiner



External Examiner

**DESIGN AND FABRICATION OF SOLID WASTE
REMOVAL MACHINE**

A PROJECT REPORT

Submitted by

LENIN.S (422115114022)

MANIKANDAN.J (422115114023)

PRASANTH.B (422115114031)

PUGAZHENTHIL.P (422115114033)

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

MECHANICAL

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PANRUTI-607110



ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2018

BONAFIDE CERTIFICATE

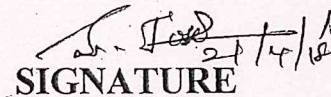
Certified that this project report "DESIGN AND FABRICATION OF SOLID WASTE REMOVAL MACHINE" is the bonafide work of P.PUGAZHENTHI who carried out the project work under my supervision.


SIGNATURE

Mr. D. OMMURUGADHASAN, M.E.,(Ph.d)

HEAD OF THE DEPARTMENT

Department of Mechanical ,
Engineering
St. Anne's College of Engineering
and Technology, Panruti.

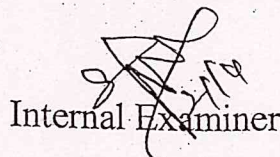

SIGNATURE

Sr,JOSPHINE MARY, M.Tech.,

SUPERVISOR

Department of Mechanical
Engineering,
St. Anne's College of Engineering
and Technology, Panruti.

The Project Viva-Voce examination held on 21.4.18 / FN


Internal Examiner


External Examiner