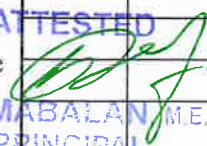


1.3.4 LIST OF STUDENTS UNDERGOING FIELD PROJECTS/INTERNSHIP/STUDENTS PROJECT MAPPING

S.No	Program name	Program Code	Student Name	Title	Field project	Internship	Student projects	Place of Work
1	BE-Mechanical Engineering	ME	M. Murugarajiv	Design and Analysis of Ventilated Disc Brake			√	E.G.S.Pillay Engineering College
			K. Nithyakaran		√	√		
			M.Prakash		√	√		
			M.Shankar		√			
2	BE-Mechanical Engineering	ME	S.Mathavan	fabrication of Treadle Pumping			√	E.G.S.Pillay Engineering College
			G.Madhan				√	
			M.Gugan				√	
			G.Naveen				√	
3	BE-Mechanical Engineering	ME	S.Harish	Design and Structural Analysis of wind turbine blade by using para-aramids		√	√	E.G.S.Pillay Engineering College
			S.Keerthivasan			√	√	
			M.Logeshwar			√	√	
			G.Rethinakumar			√	√	
4	BE-Mechanical Engineering	ME	S.Hariharan	Synthesis and Characterization of Mgaz91d Coconut Shell Ash Metal Matrix Composite			√	E.G.S.Pillay Engineering College
			R.Ramkumar				√	
			P.Pravinkumar				√	
			R.Madavan				√	
5	BE-Mechanical Engineering	ME	R.Kesawarman	Shock observer for Impeller Assembly in fibre boat			√	E.G.S.Pillay Engineering College
			A.Santhosh				√	
			K.SureshChakrawarthy				√	
			S.Surya			√	√	
6	BE-Mechanical Engineering	ME	A.Ariharan	Intelligent Obstacle Avoidance Robot using Arduino			√	E.G.S.Pillay Engineering College
			C.Chandrabose				√	
			G.Mutharasan				√	
			R.Gokula Krishnan				√	
7	BE-	ME	U.Vijay	Evaluation			√	E.G.S.Pillay

Nagapattinam (Dt) Tamil Nadu,

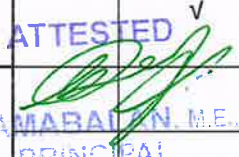
ATTESTED  
  
 DR. S. RAMABALAN, M.E., Ph.D.,  
 PRINCIPAL  
 E.G.S. Pillay Engineering College,  
 Vennar, Nagore - 611 002

	Mechanical Engineering		K.Vikram	Machining Behaviour of Aluminium Metal Matrix Composite (AL+ZIN C)			√	Engineering College	
			K.Vinith Kumar						√
			A.Vinoakalaivan						√
8	BE-Mechanical Engineering	ME	P.Divakar	Design and fabrication of 360 degree steering control for parking system			√	E.G.S.Pillay Engineering College	
			G.Gowthaman						√
			A.Habeeb Mohamed						√
			J.Yogeshwaran						√
9	BE-Mechanical Engineering	ME	G.Balaji	Modified Power Transmission Various Angle			√	E.G.S.Pillay Engineering College	
			V.Kesavan						√
			M.MohamedMohaideen			√			√
			K.Nedumaran						√
10	BE-Mechanical Engineering	ME	S.Arun	Design and Experimentation of mini fridge using peltier effect		√	√	E.G.S.Pillay Engineering College	
			S.Arunraj			√			√
			V.Bharanidharan			√			√
			V.Viswanathan			√			√
11	BE-Mechanical Engineering	ME	R.Ranjith	Design and Structural Analysis of Compound leaf spring		√	√	E.G.S.Pillay Engineering College	
			K.Akash						√
			J.Dinesh						√
			R.Sathiyam			√			√
12	BE-Mechanical Engineering	ME	Alex P	Control on automatic three phase starter			√	E.G.S.Pillay Engineering College	
			Thiloth A						√
			Vignesh G						√
			Dinesh R			√			√
13	BE-Mechanical Engineering	ME	Praveenraj T	Influence of Cool Bit Ash Praticles as Reinforcement Behavior of AZ <sub>31</sub> Mg			√	E.G.S.Pillay Engineering College	
			Sridhar P						√
			Srinivasan S						√
			Naveen Prakash.P						√

ATTESTED  
  
 Dr. S. RAMABALAN, M.E., Ph.D.,  
 PRINCIPAL

E.G.S. Pillay Engineering College,  
 Thechi, Nagore - 611 002,  
 Nagapattinam (Dt) Tamil Nadu.

14	BE-Mechanical Engineering	ME	D.Aravinth	Alloy Investigation Of Hydrogen Enrichment In Diesel Engine Performance, Emission And Combustion Characteristics			√	E.G.S.Pillay Engineering College
15	BE-Mechanical Engineering	ME	S.MathesKanna	Analysis of Electro Magnetic Breaking System		√	√	E.G.S.Pillay Engineering College
			Md Firthoush				√	
			Mugesh.A			√	√	
							√	
16	BE-Mechanical Engineering	ME	Thiyagesh. K	Evaluation of Mechanical Behaviour of Aluminium Metal Matrix Composite (Al+SiC+Zn)			√	E.G.S.Pillay Engineering College
			Jeghan J			√	√	
			Mohamed Imran J				√	
			Vimalraj P			√	√	
17	BE-Mechanical Engineering	ME	P.Vinoth Kumar	Friction of Automatic Electro Magnetic Clutch		√	√	E.G.S.Pillay Engineering College
			T .Adinesh				√	
			R.Gokul Raj				√	
			T.Hari Prasath				√	
18	BE-Mechanical Engineering	ME	V. Hari Prasath	Automatic Pneumatic Bumpers and Brake Actuation before Chasis Collision			√	E.G.S.Pillay Engineering College
			R.Prasanna				√	
			A.Sunil				√	
19	BE-Mechanical Engineering	ME	E.Nirmal	Mechanical testing on Natural fiber composite in seats of aeroplane			√	E.G.S.Pillay Engineering College
			D.S.Sellakumaran				√	
			D.Kishore				√	
			B.Srinivasan				√	
20	BE-Mechanical	ME	A.Abinash	Fabrication and			√	E.G.S.Pillay Engineering

  
**ATTESTED**  
**D.S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
 E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002.  
 Nagapattinam (Dt) Tamil Nadu.

	Engineering		D.Rajesh	Testing of Vapour Generator for Organic Rankine Cycle by Utilizing Waste		✓	✓	College
			G.Dinesh				✓	
			S.Dinesh Kumar		✓		✓	
21	BE-Mechanical Engineering	ME	K.Dinesh Kumar	Fabrication of Double Acting Hacksaw Using Scotch Yoke Mechanism			✓	E.G.S.Pillay Engineering College
			S.Suriya				✓	
			A.Aravind				✓	
			S.Pratheep Raj				✓	
22	BE-Mechanical Engineering	ME	S.Vignesh	Analysis of Dissimilar metal Welding of SS316 and SS321			✓	E.G.S.Pillay Engineering College
			P.Vinith				✓	
			A. Mohamed Abdul Rahman		✓		✓	
			M. Mohamed Shaik Safiudeen		✓		✓	
23	BE-Mechanical Engineering	ME	M. Mohamed Sharugan	Investigation of Oxidation of SS 316		✓	✓	E.G.S.Pillay Engineering College
			S. Syed Rashid			✓	✓	
			Pragadeshwaran.R			✓	✓	
			Siddharthan.S				✓	
24	BE-Mechanical Engineering	ME	Srinivasan.V	Welding Strength Analysis of Dissimilar Materials (Aluminium Stainless Steel) by Using Friction Welding and TIG Welding			✓	E.G.S.Pillay Engineering College
			M. Vignesh				✓	
25	BE-Mechanical Engineering	ME	P. Udhayakumar	Investigation of Three Axis Modern Trailer	Dr. S. RAMABALAN, M.E., Ph.D., PRINCIPAL E.G.S. Pillay Engineering College Thethi, Nagore - 611 002. Nagapattinam (Dt) Tamil Nadu.		✓	E.G.S.Pillay Engineering College
			R. Srikan				✓	
			A. Prabakaran				✓	
			Jothiraman. S				✓	

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



26	BE-Mechanical Engineering	ME	Saravanan S	Analysis of Aluminiu m E-Glass Reinforce ment for its Improved Ductility		√	√	E.G.S.Pillay Engineering College
			Jenithkumar P			√	√	
			Jegadeesan K			√	√	
			B Mushraf Ahamed				√	
27	BE-Mechanical Engineering	ME	I Vishwa	Evaluation of Machining Behaviour s of Aluminiu m Metal Matrix Composite (Al+SiC)			√	E.G.S.Pillay Engineering College
			B.Parthasarathy			√	√	
			J Praveen Kumar			√	√	
			V Pramesh				√	
28	BE-Mechanical Engineering	ME	Mohammad Aliyar	Topology Optimizati on of Mechanical Componen ts			√	E.G.S.Pillay Engineering College
			D.Shanmugapriyan				√	
			K.SooriyaPragash			√	√	
			Abishek R				√	

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
 E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002.  
 Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certified that this project report "ANALYSIS OF ELECTROMAGNETIC BRAKING SYSTEM" is the bonafide work of "MATHES KANNA S, MOHAMED FIRTHOUS F, MUGESH A, THIYAGESH K " who carried out the project work under my supervision.



SIGNATURE

**Dr.G.GURUMOORTHI M.E., PhD.,**

HEAD OF THE DEPARTME  
DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.



SIGNATURE

**Dr.S.CHOCKALINGAM.E.,PhD.,**

ASSO.PROFESSOR  
DEPARTMENT OF MECHANIC ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.

### VIVA VOCE

The viva voce examination of the project was hold on...2.06.2022...



INTERNAL EXAMINER



EXTERNA EXAMINER

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certificate that this project report "EVALUATION OF MECHANICAL BEHAVIOUR OF ALUMINIUM METAL MATRIX COMPOSITE (Al+SiC+Zn)" is the bonafide work of "J.JEGHAN (E18MER030), J.MOHAMED IMRAN (E18MER040), P.VIMAL RAJ (E18MER083), P.VINOTHKUMAR (E18MER087)". Who are carried out the project work under my supervision.



SIGNATURE

Dr. G.GURUMOORTHY M.E.,PhD.,  
PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.



SIGNATURE

Dr.S.KRISHNAMOHAN,M.E,PhD.,  
PROFESSOR,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on  
..02.06.2024..




INTERNAL EXAMINER



EXTERNAL EXAMINER

ATTESTED



Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certified that this project report "FABRICATION OF AUTOMATIC ELECTRO  
MANGNETICCLUTCH"Is the bonfide work of  
ADINESH.T(E18MER005),GOKUL RAJ.R,(E18MER0021),HARIPRASATH.T  
(E18MER026),HARI PRASATH.V (E18MER027) who carried out the project work  
under mysupervision.



SIGNATURE

Dr.G.GURUMOORTHI. M.E.,PhD.,  
HEAD OFTHEDEPARTMENT  
DEPT OFMECHANICALENGINEERING,  
E.G.S.PILLAY ENGINEERINGCOLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.



SIGNATURE

Dr.N.RAMANUJAM. M.E.PhD.  
ASST.PROFESSOR  
DEPT OF MECHANICALENGINEERING,  
E.G.S.PILLAY ENGINEERINGCOLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM611002.

## VIVA VOCE

The viva voce examination of the project was held on.02.06.2022



PROJECTCOORDINATOR

ATTESTED



PROJECTEVALUATOR

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



**ANNA UNIVERSITY : CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “ **AUTOMATIC PNEUMATIC BUMPER AND BRAKE ACTUATION BEFORE COLLISION CHASIS** ” is the bonafide work of “ **NIRMAL E (E18MEL326), PRASANNA R (E18MEL329), SELLAKUMARAN S D (E18MEL334), SUNIL A (E18MEL339)** ” who carried out the project work under my supervision.



**SIGNATURE**

**Dr.G.GURUMOORTHI M.E., PhD.,**

**PROFESSOR**

**HEAD OF THE DEPARTMENT**

**DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.**



**SIGNATURE**

**Dr.S.KRISHNAMOHAN M.E., PhD.,**

**PROFESSOR**

**DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.**


**VIVA VOCE**

The viva voce examination of the project was hold on. *02/06/2022*

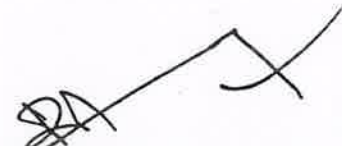


**INTERNAL EXAMINER**

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certificate that this project report "MECHANICAL TESTING ON NATURAL FIBER COMPOSITE IN SEATS OF AEROPLANES" Is the bonafide work of ABINASH.A (E18MER002), RAJESH.D (E18MER059), KISHOR.D (E18MER035), SRINIVASAN.B (E18MER070) . Who are carried out the project work under my supervision

  
SIGNATURE.

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

HEAD OF THE DEPARTMENT

DEPT OF MECHANICAL ENGINEERING

E.G.S. PILLAY ENGINEERING COLLEGE

(AUTONOMOUS)

NAGAPATTINAM- 611002

  
SIGNATURE 31/5/22

Dr.V. SIVARAMAKRISHNAN., M.E, Ph.D.

PROJECT GUIDE

DEPT OF MECHANICAL ENGINEERING

E.G.S. PILLAY ENGINEERING COLLEGE

(AUTONOMOUS)

NAGAPATTINAM -611002

## VIVA VOCE

The viva voce examination of this project was held

On 02.06.2022  
On.....

  
INTERNAL EXAMINER

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

  
EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project report "FABRICATION AND TESTING OF VAPOUR GENERATOR ORGANIC RANGINE CYCLE BY UTILIZING WASTE HEAT" is the bonafide work of "K.DHINESH KUMAR (E18MER015) , G.DINESH (E18MER017) , S.DINESHKUMAR (E18MER019) , SURIYA (E18MER074)" who carried out the project work under my supervision.

SIGNATURE



**Dr.G.GURUMOORTHI M.E., PhD**  
**HEAD OF THE DEPARTMENT**  
MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS)  
NAGAPATTINAM 611002

SIGNATURE



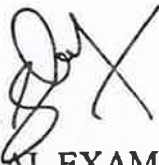
**Dr.J.JEEVAMALAR M.E.,PhD**  
**SUPERVISOR**  
MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS)  
NAGAPATTINAM 611002

### VIVA VOCE

The viva voce examination of this project was held on

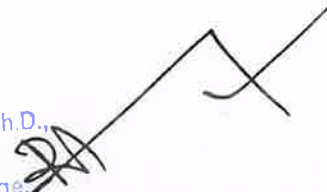
....02/06/22.....

INTERNAL EXAMINER




ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

EXTERNAL EXAMINER



## BONAFIDE CERTIFICATE

Certificate that this project report "FABRICATION OF DOUBLE ACTING HACKSAW USING SCOTCH YOKE MECHANISM" is the bonafide work of "ARAVIND.A (E18MER007), PRATHEEP RAJS (E18MER054), VIGNESH.S (E18MER080), VINITH.P (E18MER084)". Who are carried out the project work under my supervision.



SIGNATURE

Dr.G. GURUMOORTHY M.E., PhD.,  
ASSOCIATE PROFESSOR,  
HEAD OF DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS)  
NAGAPATTINAM-611002.



SIGNATURE

Dr.V.SIVARAMAKRISHNAN, M.E., PhD.  
ASSOCIATE PROFESSOR  
PROJECT GUIDE  
DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS)  
NAGAPATTINAM-611002.

## VIVA VOCE

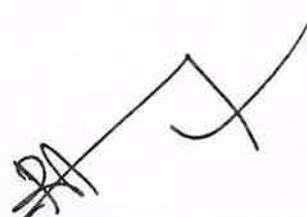
The viva voce examination of the project was hold on

...02.06.2022...



INTERNAL EXAMINER

ATTESTED



EXTERNAL EXAMINER

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certificate that this project report "ANALYSIS OF DISSIMILAR METAL WELDING OF 316 STAINLESS STEEL AND 321 STAINLESS STEEL" is the bonafide work of "MOHAMED ABDUL RAHMAN.A (E18MEL321), MOHAMED SHAIK SAFIUDEEN.M (E18MEL322), MOHAMED SHARUGAN.M (E18MEL323), SYED RASHID.S (E18MEL340)". Who are carried out the project work under my supervision.

  
SIGNATURE

**Dr. G.GURUMOORTHY M.E.,PhD.,  
PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.**

  
SIGNATURE

**Mr.N.MANIKANDANM.E.,  
ASSISTANT PROFESSOR,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.**

**VIVA VOCE**

**The viva voce examination of the project was hold on**

**.....02/06/2022.....**

  
**INTERNAL EXAMINER**

**ATTESTED**

  
**EXTERNAL EXAMINER**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Theethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**



## BONAFIDE CERTIFICATE

Certified that this project report "INVESTIGATION OF OXIDATION OF SS316"  
is the bonafide work of "PRAGADHESHWARAN.R(E18MEL328)  
SIDDHARTHAN.S(E18MEL335), SRINIVASAN.V(E18MEL337), SRIRAM.R  
(E18MEL338 )" who carried out the project work under my supervision.

  
SIGNATURE

Dr.G.GURUMOORTHI M.E., PhD.,

PROFESSOR

HEAD OF THE DEPARTMENT

DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.

  
SIGNATURE

Dr.S.CHOCKALINGAM M.E.,PhD.,


ASSOCIATE PROFESSOR

DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.

VIVA VOCE

The viva voce examination of the project was hold on...02..06..2022

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thetthi, Nagore - 611 002.  
Nagapattinam, Tamil Nadu.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “WELDING STRENGTH ANALYSIS OF DISSIMILAR MATERIAL’S (ALUMINIUM, STAINLESS STEEL) BY USING FRICTION AND TIG WELDING” is the bonafide work of “VIGNESH.M (E18MEL343), PRABAKARAN.A (E18MEL327), SRIKARAN. R (E18MEL336), UDHAYAKUMAR.P (E18MEL342)”who carried out the Project work under my supervision.



**SIGNATURE**

Dr.G.GURUMOORTHI ME., Ph.D.  
PROFESSOR  
HEAD OF THE DEPARTMENT  
Mechanical Engineering  
E.G.S. Pillay Engineering College,  
Nagapattinam.



**SIGNATURE**

Dr.S.CHOCKALINGAM ME.,(Ph.D).  
ASSOCIATE PROFESSOR  
SUPERVISOR  
Mechanical Engineering  
E.G.S. Pillay Engineering College,  
Nagapattinam.

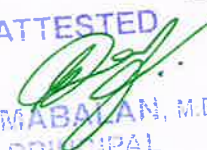
Submitted by university examination held on ..02/06/2022



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**ATTESTED**  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

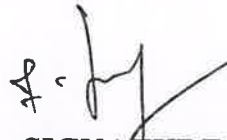
## BONAFIDE CERTIFICATE

Certified that this project report "INVESTIGATION OF THREE AXIS MODERN TRAILER" is the bonafide of "JEGADEESAN.K (E18MER028), JENITHKUMAR.P (E18MER031), JOTHIRAMAN.S (E18MER032), SARAVANAN.S (E18MER063)" who carried out the project work under my supervision.



SIGNATURE

Dr.G.GURUMOORTHY,M.E., Ph.D.,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE.  
(AUTONOMOUS).  
NAGAPATTINAM 611002.



SIGNATURE

Dr.G.GURUMOORTHY,M.E.,Ph.D.,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.

## VIVA VOCE


The viva voce examination of the project was hold on. 02-06-2022



INTERNAL



EXTERNAL

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College.  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**ANNA UNIVERSITY : CHENNAI 600 025**

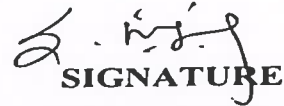
**BONAFIDE CERTIFICATE**

Certified that this project report "ANALYSIS OF ALUMINIUM E-GLASS REINFORCEMENT FOR ITS IMPROVED DUCTILITY" is the bonafide work of 'MUSHRAF AHAMED.B (E18MER044) PARTHASARATHY.B (E18MER052) PRAVEEN KUMAR.J (E18MER055) VISHWA.I (E18MER088)" who carried out the project work under my supervision.



**SIGNATURE**

**Dr.G.GURUMOORTHI M.E., PhD.,  
PROFESSOR / HOD  
DEPARTMENT OF MECHANICAL  
ENGINEERING,  
E.G.S.PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.**



**SIGNATURE**

**Mr.S MURUGESH M.E.,  
ASST PROFESSOR  
DEPARTMENT OF MECHANICAL  
ENGINEERING,  
E.G.S.PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.**

**VIVA VOCE**

The viva voce examination of the project was hold on. 02-06-2022



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

## BONAFIDE CERTIFICATE

Certificate that this project report "EVALUATION OF MACHINING BEHAVIOURS OF ALUMINIUM METAL MATRIX COMPOSITE (AL+SiC)" is the bonafide work of "MOHAMEDALIYAR.A (E18MER042),PARAMESH.V(E18MER051),SHANMUGAPRIYAN.D (E18MER066), SOORIYA PRAGASH.K (E18MER068)". Who are carried out the project work under my supervision.



SIGNATURE

Dr. G.GURUMOORTHY M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.



SIGNATURE

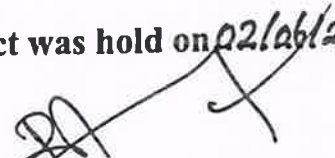
Mr.G.SUNDARAVADIVEL ME.,  
ASSISTANT PROFESSOR,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on 02/06/22



INTERNAL EXAMINER



EXTERNAL EXAMINER

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



## BONAFIDE CERTIFICATE

Certificate that this project report "TOPOLOGY OPTIMIZATION OF MECHANICAL COMPONENTS" is the bonafide work of "RUBAN K(E18MER061) ABISHEK R (E18MER004), NAVEEN KUMAR K(E18MER047), BALAMURUGAN V (E18MER012) Who are carried out the project work under my supervision.



SIGNATURE

Dr.G. GURUMOORTHY, M.E., PhD.,

PROFESSOR

HEAD OF DEPARTMENT

DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM-611002



SIGNATURE

Mr.N.MANIKANDAN M.E.,

ASSISTANT PROFESSOR

SUPERVISOR

DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM-611002

## VIVA VOCE


The viva voce examination of the project was held on

02.06.2022...



INTERNAL EXAMINER

ATTESTED



Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Theethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu



EXTERNAL EXAMINER

**ANNA UNIVERSITY: CHENNAI 600 025**

**BONAFIDE CERTIFICATE**

Certificate that this project report “DESIGN AND THERMAL ANALYSIS OF VENTILATED DISC BRAKE” is the bonafide work of “MURUGARAJIV.M (E18MER043), NITHIYAKARAN.K (E18MER050), PRAKASH.M (E18MER053), SHANKAR.M (E18MER065)”. Who are carried out the project work under my supervision.

SIGNATURE



**Dr.G. GURUMOORTHI M.E., Ph.D.,**  
**HEAD OF DEPARTMENT**  
**PROFESSOR**  
DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM-611002

SIGNATURE



**Mr.V. MANATHUNAINATHAN M.E.,**  
**SUPERVISOR**  
**ASSISTANT PROFESSOR**  
DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM-611002

**VIVA VOCE**

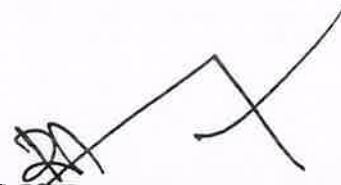
**The viva voce examination of the project was hold on**

**01.06.2022.....**

**PROJECT CO-ORDINATOR**



**PROJECT EVALUATOR**



**ATTESTED**

**Dr. S. RAMABALAN M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certificate that this project report “DESIGN AND ANALYSIS OF RADIAL FAN IMPELLER IN THERMAL POWER PLANT” is the bonafide work of “AAFIQ.A (E18MER001), DINESH KUMAR (E18MER018), JAIGANESH.R (E18MER029), BALAJI.G (E18MEL306)”. Who are carried out the project work under my supervision.

SIGNATURE

SIGNATURE

Dr. G.GURUMOORTHY M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

Dr. S.CHOKALINGAM, ME., PhD  
ASSOCIATE PROFESSOR,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on

...01.06.2022...

INTERNAL EXAMINER

EXTERNAL EXAMINER

ATTESTED

Dr. S. RAMABALAN, M.E., PhD.  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certified that this project report “**FABRICATION OF TREADLE PUMPING**” is the bonafide work of “**GUGAN.M (E18MER022), MADHAN.G (E18MER037), MATHAVAN.S (E18MER039) and NAVEEN.G (E18MER46)**” who carried out the project work under my supervision.



SIGNATURE



SIGNATURE

**Dr.G.GURUMOORTHY M.E.,PhD.,**  
**ASSOCIATE PROFESSOR,**  
**HEAD OF THE DEPARTMENT,**  
**DEPT OF MECHANICAL**  
**ENGINEERING,**  
**E.G.S. PILLAY ENGINEERING**  
**COLLEGE**  
**(AUTONOMOUS),**  
**NAGAPATTINAM 611002.**

**Dr.S.CHOCKALINGAM M.E.,PhD.,**  
**ASSISTANT PROFESSOR,**  
**DEPT OF MECHANICAL**  
**ENGINEERING,**  
**E.G.S. PILLAY ENGINEERING**  
**COLLEGE**  
**(AUTONOMOUS),**  
**NAGAPATTINAM 611002.**

**VIVA VOCE**

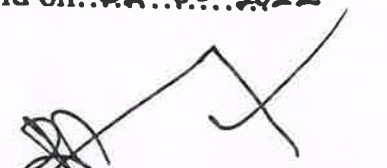
The viva voce examination of the project was hold on..02..06..2022



**INTERNAL EXAMINER**

**ATTESTED**  
  
**DR. S. RAMABALAN, M.E.,**  
**PRINCIPAL**


**E.G.S. Pillay Engineering Collage,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



**EXTERNAL EXAMINER**

## BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND STRUCTURAL ANALYSIS OF WIND TURBINE BLADE BY USING PARA-ARAMIDS" is the bonafide work of "HARISH.S (E18MEL315), KEERTHIVASAN.S (E18MEL316), LOGESHWAR.M (E18MEL317) , RETHINA KUMAR.G (E18MEL317)" who carried out the project work under my supervision.

  
SIGNATURE

Dr.G.GURUMOORTHI M.E., PhD.,

HEAD OF DEPARTMENT

DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM 611002

  
SIGNATURE

Mr. .B.MANIKANDAN M.Tech.,

ASSISTANT PROFESSOR

DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM 611002


## VIVA VOCE

The viva voce examination of the project was hold on

.....1.6.22.....

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagero - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



## BONAFIDE CERTIFICATE

Certified that this project report "SYNTHESIS AND CHARACTERIZATION OF MgAZ91D COCONUT SHELL ASH METAL MATRIX COMPOSITES" is the bonafide work of "HARIHARAN.S, PRAVINKUMAR.P, RAMKUMAR.R and MADHAVAN.R" who carried out the project work under my supervision.

SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

SIGNATURE

Mr.G. SUNDARAVADIVEL M.E.,  
ASSISTANT PROFESSOR,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on...01/06/22

INTERNAL EXAMINER

EXTERNAL EXAMINER

ATTESTED  
Dr. S. RAMADHAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certified that this project report "FABRICATION OF DUAL SHAPER MACHINE" is the bonafide work of "AJAY.J, AJEETH.R, BARATH.L, DEVARAJAN.R " who carried out the project work under my supervision.

SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,  
PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

SIGNATURE

Mr. G. HARINARAYANAN M.E.,  
ASSOCIATE PROFESSOR,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on 01.06.2022

INTERNAL EXAMINER


ATTESTED  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thalhi, Nagura - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

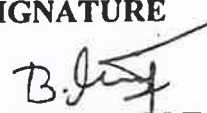
Certified that this project report "EXPERIMENTAL INVESTIGATION OF LM 25 ALLOY REINFORCED WITH COCONUT SHELL ASH" is the bonafide work of "T.DINESH BABU, N.SURENDRHIRAN, E.VENGADESH, MANIKANDAN.M.," who carried out the project work under my supervision.

SIGNATURE

  
Dr.G.GURUMOORTHI M.E., PhD  
PROFESSOR.,  
HEAD OF THE DEPARTMENT

DEPT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.

SIGNATURE


  
Mr.B.MANIKANDAN., M.Tech (PhD)  
Asst professor  
PROJECTGUIDE


DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLYENGINEERINCOLLEGE  
(AUTONOMOUS).  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of this project was held

on. 01.10.2022.

  
INTERNAL EXAMINER

ATTESTED  
  
Dr. S. RAMABALAN M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thechi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

  
EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certificate that this project report "SHOCK ABSORBER FOR IMPELLER ASSEMBLY IN FIBER BOAT" is the Bonafide work of KESAWAVARM.R (E18MER034), A.SANTHOSH (E18MER062), SURESH CHAKKARAVARTHY (E18MER073), SURYA.S (E18MER075). Who are carried out the project work under my supervision?

  
SIGNATURE

Dr.G.GURUMOORTHI M.E., PhD.

PROFESSOR

HEAD OF THE DEPARTMENT

DEPT OF MECHANICAL ENGINEERING

E.G.S.PILLAY ENGINEERING COLLEGE

NAGAPATTINAM 611002

  
SIGNATURE

MR.A.ARUN KUMAR M.E., (PhD).

ASSISTANT PROFESSOR

DEPT OF MECHANICAL ENGINEERING

E.G.S PILLAY ENGINEERING COLLEGE

NAGAPATTINAM 611002

### VIVA VOCE

The viva voce examination of the project was hold on

01.06.2022

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certified that this project report "INTELLIGENT OBSTACLE AVOIDANCE ROBOT USING ARDUINO" is the bonafide work of "K. ARIHARAN, C. CHANDRANBOSE, R. GOGULAKRISHNAN, G. MUTHARASAN" who carried out the project work under my supervision

SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

SIGNATURE

Mr.K. SENTHIL NATHAN, M.E.,  
ASSISTANT PROFESSOR,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

### VIVA VOCE

The viva voce examination of the project was hold on..01/06/2022

INTERNAL EXAMINER

EXTERNAL EXAMINER

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



## BONAFIDE CERTIFICATE

Certified that this project report "EVALUATION OF MACHINING BEHAVIOURS OF ALUMINIUM METAL MATRIX COMPOSITE(AL+ZN)" is the bonafide work of "U.VIJAY(E18MER081), K.VIKRAM(E18MER082), K.VINITH KUMAR(E18MER085), A.VINO AKALAIVAN(E18MER086)" who carried out the project work under my supervision.

SIGNATURE

Mr.G.GURUMOORTHY M.E.,PhD.,  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

SIGNATURE

Mr.R.SUNDAR M.Tech.,PhD.,  
ASSISTANT PROFESSOR  
DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE,  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on. 11.06.2022

INTERNAL EXAMINER

EXTERNAL EXAMINER

ATTESTED  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Theftu, Nagore 611002.  
Nagapattinam (Dt) Tamil Nadu.

Page 3 of 7

## BONAFIDE CERTIFICATE

Certified that this project report  
"DESIGN AND FABRICATION OF 360° DEGREE STEERING  
CONTROL FOR PARKING SYSTEM"

is the bonafide work of "DIVAKAR.P, GOWTHAMAN.G,  
HABEEB MOHAMED.A, YOHESWARAN.J " who carried out the  
project work under my supervision.

SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,

ASSOCIATE PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL  
ENGINEERING,  
E. G.S. PILLAY ENGINEERING  
COLLEGE(AUTONOMOUS),  
NAGAPATTINAM 611002.



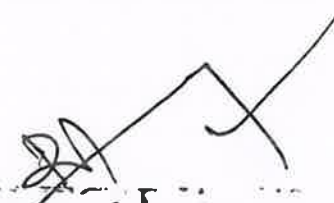
SIGNATURE

Mr.G.SURENDAR M.Tech.

ASSISTANT PROFESSOR,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on...1/06/22

INTERNAL EXAMINER  ATTESTED  EXTERNAL EXAMINER 

DR. S. SIVAMBALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certified that this project report "MODIFIED POWER TRANSMISSION IN VARIOUS ANGLE" is the bonafide work of "BALAJI.G, KESAVAN.V, MOHAMED MOHAIDEEN.M, NEDUMARAN.K.,," who carried out the project work under my supervision.

SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on..01/06/2022

INTERNAL EXAMINER

ATTESTED  
Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL  
E.G.S. Pillay Engineering College  
Thathi, Nagore - 611 002  
Nagapattinam (D.) Tamil Nadu.

EXTERNAL EXAMINER

## BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND EXPERIMENTATION OF MINI FRIDGE USING PELTIER EFFECT" is the bonafide work of "ARUN.S, ARUNRAJ.S, BHARANIDHARAN.V and VISWANATHAN.V" who carried out the project work under my supervision.

  
SIGNATURE

Dr. G.GURUMOORTHY M.E.,PhD.,  
PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

  
SIGNATURE

Dr. S.CHOCKALINGAM M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on...1./6/22

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

ATTESTED  
  
Dr. S.RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagapattinam - 611 002. 3  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certificate that this project report "DESIGN AND STRUCTURAL ANALYSIS OF COMPOUND LEAF SPRING" is the bonafide work of "AKASH.K (E18MEL303), DHINESH.J (E18MEL310), RANJITH.R (E18MEL330), SATHIYAN.R (E18MEL333)". Who are carried out the project work under my supervision.

SIGNATURE

Dr.G.GURUMOORTHY M.E., Ph.D.,  
HEAD OF DEPARTMENT PROFESSOR  
DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM-611002

SIGNATURE

Dr.J.JEEVAMALAR M.E.,Ph.d  
ASSISTANT PROFESSOR  
DEPT OF MECHANICAL ENGINEERING  
E.G.S.PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM-611002

## VIVA VOCE

The viva voce examination of the project was hold on

1.06.2022

INTERNAL EXAMINAR

EXTERNAL EXAMINAR

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.;  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611002  
Nagapattinam (Dt) for



## BONAFIDE CERTIFICATE

Certified that this project report "CONTROL ON AUTOMATIC THREE PHASE STARTER" is the bonafide work of "ALEX.P, THILOTH.A, VIGNESH.G and DINESH.R" who carried out the project work under my supervision.

SIGNATURE

**Dr.G.GURUMOORTHY M.E.,PhD.,**  
**ASSOCIATE PROFESSOR,**  
**HEAD OF THE DEPARTMENT,**  
**DEPT OF MECHANICAL ENGINEERING,**  
**E.G.S. PILLAY ENGINEERING COLLEGE**  
**(AUTONOMOUS),**  
**NAGAPATTINAM 611002.**

SIGNATURE

**Mr.G.SURENDAR M.Tech.,**  
**ASSISTANT PROFESSOR,**  
**DEPT OF MECHANICAL ENGINEERING,**  
**E.G.S. PILLAY ENGINEERING COLLEGE**  
**(AUTONOMOUS),**  
**NAGAPATTINAM 611002.**

## VIVA VOCE

The viva voce examination of the project was hold on...1..6..22

INTERNAL EXAMANER

ATTESTED EXTERNAL EXAMANER

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagapattinam - 611 002.**  
**Nagapattinam (Dt) Tamil-Nadu.**

## BONAFIDE CERTIFICATE

Certified that this project report "INFULENCE OF COCO BIT ASH PARTICLES AS REINFORCEMENT BEHAVIOR OF AZ31Mg ALLOY" is the bonafide work of "P.NAVEENPRAKASH,T.PRAVEENRAJ,S.SRINIVASAN, P.SRIDHAR" who carried out the project work under my supervision.

SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,  
PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

SIGNATURE

Mr.S.KRISHNAMOHAN, M.E.,  
~~ASSISTANT~~ PROFESSOR,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on..!./06/..22..

INTERNAL EXAMINER


ATTESTED

EXTERNAL EXAMINER

Dr.S.RAMABALA  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## BONAFIDE CERTIFICATE

Certified that this project report “Investigation of hydrogen enrichment in diesel engine performance, emission and combustion characteristics ” is the bonafide work of “D.ARAVINTH (E18MER008),” who carried out the project work under my supervision.

  
SIGNATURE

Dr.G.GURUMOORTHY M.E.,PhD.,  
PROFESSOR,  
HEAD OF THE DEPARTMENT,  
DEPT OF MECHANICAL ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

  
SIGNATURE

Dr.S.CHOCKALINGAM M.E.,PhD.,  
ASSOCIATE PROFESSOR,  
DEPT OF MECHANICAL  
ENGINEERING,  
E.G.S. PILLAY ENGINEERING  
COLLEGE  
(AUTONOMOUS),  
NAGAPATTINAM 611002.

## VIVA VOCE

The viva voce examination of the project was hold on.....<sup>01.06.22</sup>.....

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.