



SREE SAKTHI ENGINEERING COLLEGE

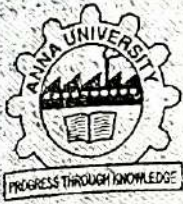
TNEA Admission Code **2673**

OOTY MAIN ROAD, KARAMADAI, | MOB : +91 92445 04444, +91 92445 02277
COIMBATORE- 641104. INDIA | Web : www.sreesakthi.edu.in

Affiliated to Anna University & Approved by AICTE, Accredited by NAAC

3.3.1

**NUMBER OF PH.DS
REGISTERED PER ELIGIBLE
TEACHER**



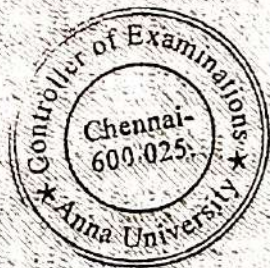
ANNA UNIVERSITY CHENNAI - 600 025

PROVISIONAL CERTIFICATE

Folio No.: MAR012068

This is to certify that the candidate has qualified for the award of *Degree of Doctor of Philosophy* in compliance of the UGC Regulations 2009 as detailed below:

Name	PRADHAP RAJ M
Registration Number	4083032148
Degree	Ph.D.
Department/Centre	MECHANICAL ENGINEERING
Faculty	MECHANICAL ENGINEERING
Date, Month & Year of Viva-Voce Examination held	08.05.2015
Title of the Thesis	STUDY AND PERFORMANCE IMPROVEMENTS OF SOLAR AIR HEATER




PRINCIPAL
Dr R. PRABHU

PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104


Controller of Examinations

Chennai - 600 025

Date: 21-MAY-15



ANNA UNIVERSITY CHENNAI - 600 025

PROVISIONAL CERTIFICATE

Folio No.: MAR012134

This is to certify that the candidate has qualified for the award of *Degree of Doctor of Philosophy* in compliance of the UGC Regulations 2009 as detailed below:

Name : BENJAMIN LAZARUS S

Registration Number : 7077032108

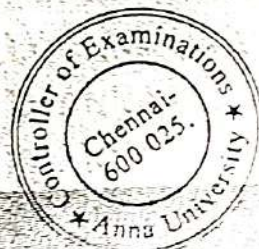
Degree : Ph.D.

Department/Centre : MECHANICAL ENGINEERING

Faculty : MECHANICAL ENGINEERING

Date, Month & Year of Viva-Voce Examination held : 25.09.2015

Title of the Thesis : STUDIES ON MECHANICAL PROPERTIES OF RANDOM AND WOVEN FIBRE SUNHEMP POLYESTER COMPOSITES




PRINCIPAL
Dr R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104

Controller of Examinations

Chennai - 600 025

Date: 01-OCT-15



ANNA UNIVERSITY COIMBATORE

(Established under Act No.42 of 2006 by the Government of Tamil Nadu)

Excellence in Technical Education and Research

CENTER FOR RESEARCH

ANNADASAN, M.Tech., Ph.D.,
DIRECTOR - RESEARCH

Academic Campus
Jothipuram post,
Coimbatore - 641 047

AUCBE/CFR/ Ph.D./Reg.No.7077032108/CFM/

Date : 09-09-2009

Sir,

Sub: Anna University Coimbatore – Ph.D., Programme – Provisional Registration – of Research Scholars – Confirmation – Orders issued.

Ref: Minutes of Second Doctoral committee meeting held on 17.08.2009 at Kumaraguru College of Technology, Coimbatore-641 006.

The Provisional Registration granted to **Mr./Ms. Benjamin Lazarus S** (Reg.No. 7077032108) to do Ph.D., Programme in Anna University Coimbatore is **Confirmed** with effect from 26.07.2007 and he/she is permitted to proceed with his/her Research Work further, as recommended by the Doctoral Committee constituted for this research scholar.

S. R. Deekha
For Director - Research 9/9
W
9/9

To

1. Supervisor
Dr. V. Velmurugan
Professor and Head
Department of Aeronautical Engineering,
Kumaraguru College of Technology,
Coimbatore-641 006.
2. Part Time Research Scholar through the Supervisor
Mr. S. Benjamin Lazarus
Assistant Professor,
Department of Mechanical Engineering,
The Kavery Engineering College,
Mecheri, Salem-636 453
3. File.

[Signature]
PRINCIPAL
Dr. R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104

Subject: Fwd: Anna University – Synopsis Acceptance Mail – Reg.
From: Benjamin Lazarus (sb1slr24@gmail.com)
To: Velgoudham_v@yahoo.com;
Date: Monday, 6 April 2015 6:13 PM

----- Forwarded message -----

From: DIRECTOR Research <cf.annauniv@gmail.com>
Date: Wed, Oct 15, 2014 at 5:21 PM
Subject: Anna University – Synopsis Acceptance Mail – Reg.
To: sb1slr24@gmail.com, velgoudham_v@yahoo.com

Sir / Madam,

Name of the research scholar: BENJAMIN LAZARUS S
Reg. No: 7077032108

Sub: Anna University – Synopsis Acceptance Mail – Reg.

Synopsis submitted by the scholar is accepted and he/she shall be permitted to submit the thesis to this office as per Anna University norms.

DIRECTOR (RESEARCH)

(Note: Please don't reply to this mail)



Regards,
Benjamin Lazarus. S
+91 94432 05800

Success is only a journey not your destination

PRINCIPAL
Dr. R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104



ANNA UNIVERSITY, CHENNAI - 600 025
CENTRE FOR RESEARCH



POST SCRUTINY THESIS SUBMISSION FORM

1. Scholar Details:

Scholar Name: Mr./Ms. BENJAMIN LAZARUS S

Reg. No.: 7077032108

Region : AUT-COIMBATORE

Faculty : Mech

Category : Part-Time

2. Thesis Details:

Tamil Abstract in PDF format : Yes

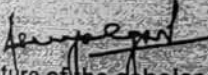
English Abstract in PDF format : Yes

Full Thesis in PDF format : Yes

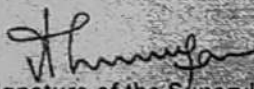
Necessary corrections prescribed by the scrutiny committee have been carried out.

Date : 14-02-2015

Place : coimbatore


Signature of the scholar

Submission Date: 14-02-2015 15:06:51


Signature of the Supervisor
(Name with seal)

Dr. V. Vel Murugan M.E., Phd.,
Principal
Sree Sakthi Engineering College
Coimbatore - 641 104.


PRINCIPAL
Dr R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104



ANNA UNIVERSITY
COIMBATORE

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CENTRE FOR RESEARCH

T. KANNADASAN, M. Tech., Ph.D.,
DIRECTOR-RESEARCH

UCBE/CFR/Ph.D/ Admission/April-2008.

GCT Campus,
Coimbatore - 641013

Date: 25-04-2008.

Velmurugan,
Associate Professor,

Electrical Engineering, Kumaraguru College of Technology,
Coimbatore 6.

Madam,

Sub : Ph.D Programme Provisional Registration Orders issued -Reg.
Ref : Res.No.1.6 of the 1st Board of Research Meeting held on 19.04.2008

I am directed to inform you that Mr./Ms. Gunasekar.N is permitted to register provisionally for Ph.D .Programme on
Time - Internal basis under the faculty of Mechanical Engineering in this University under your guidance in the April 2008
admission process.

The programme fee will be collected at the Anna University Coimbatore, GCT Campus, Coimbatore-641 013 on 28.04.2008 at
the rate of Rs.18,000/- (Rupees Eighteen Thousand Only) for faculty
and Rs.20,000/- (Rupees Twenty Thousand Only) for others.
The Demand Draft should be obtained from any Nationalized Bank drawn in favour of the Director -
Research, Anna University Coimbatore payable at Coimbatore for Rs.18,000/- (Rupees Eighteen Thousand Only) for faculty
and Rs.20,000/- (Rupees Twenty Thousand Only) for others.

The research scholar is directed to submit the enrolment form which is available in the university website within 20 days
of the date of payment of Programme fee, otherwise it will be attributed that the research scholar has not completed the
admission process in full and the Provisional Registration granted is liable for cancellation.

The 50% of the programme fee will be refunded if a candidate withdraws his / her admission within 30 days from the date
of admission and there after the programme fee will not be refunded. The caution deposit will be refunded in full subject to
admission.

The Registration Number of the research scholar is 4081032119 and quotes this registration number for all future
correspondence.

The research scholar will be governed by the regulations of the Programme of this University.

Yours faithfully

Director- Research

to
Scholar Mr./Ms.Gunasekar.N , Lecturer,
Department of Mechanical Engineering,
Annamalai College of Engineering & Technology, Kovaipudur, Coimbatore - 641 042.
Head of the Institute No NOC
Head of the Department Mechanical Engineering No NOC

PRINCIPAL

Dr R. PRABHU

PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104

ANNA UNIVERSITY
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CENTRE FOR RESEARCH

KANNADASAN, M.Tech., Ph.D.,
DIRECTOR-RESEARCH

GCT Campus,
Coimbatore - 641013

Lr. No. 003/Reg.No.4081032119 Ph.D./D.C/ dt : 03-06-2008

Dr. V. Velmurugan,
Associate Professor,
Aeronautical Engineering,
Kumaraguru College of Technology,
Coimbatore - 641 006.

Sub.: Ph.D. Programme - Mr. / Ms. Gunasekar.N, Research Scholar - Constitution of Doctoral
Committee - Orders - Issued

Mr. / Ms. Gunasekar.N, has been granted the Provisional Ph.D. Registration in the faculty of Mechanical Engineering
under the guidance of Dr. V. Velmurugan,, Accordingly a Doctoral Committee has been constituted comprising of the following
members for the above research scholar as required by Clause 7 of the Ph.D. Regulations.

SL. NO.	NAME OF THE SUPERVISOR/MEMBER	DESIGNATION
1.	Dr.V.Velmurugan, Associate Professor, Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore - 641 006.	SUPERVISOR CUM CHAIRPERSON
2.	Dr.P.Palanisamy, Associate Professor, Dept. of Mechanical Engineering, Kumaraguru College of Technology, Coimbatore - 641 006	MEMBER
3.	Dr.K.Manomani, Senior Lecturer Dept. of Mechanical Engineering, Government College of Technology, Coimbatore - 641 013.	MEMBER

The Doctoral Committee shall meet within 3 weeks from the date of receipt of this communication to prescribe the course
of study as per the annexure for the research scholar. The Committee shall function as per rules of the Ph.D. regulations. The
Chairperson and all the members of the Doctoral Committee are eligible for Sitting Fee. Outside members are eligible for
Conveyance as per Anna University: Coimbatore TA rules.

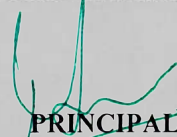
The Convener shall convene the meeting of the Doctoral Committee and send the progress report periodically.
Receipt of the proceedings be acknowledged.

DIRECTOR - RESEARCH

The Supervisor

Copy to:

All Members,
Stock File.


PRINCIPAL

Dr R. PRABHU

PRINCIPAL,

SAKTHI ENGINEERING COL
COIMBATORE-641 104

Phone: +91-422-2454571 • Fax: +91-422-2453838 • email: research@annauniv.ac.in, www.annauniv.ac.in

Rediffmail

Mailbox of ngunaa@rediffmail.com

[Print](#)

[Cancel](#)

From: DIRECTOR Research <cf.annauniv@gmail.com>

To: ngunaa@rediffmail.com, velgoudham_v@yahoo.com

Subject: Anna University – Synopsis Acceptance Mail – Reg.

Date: Wed, 25 Feb 2015 15:23:43 IST

Sir/Madam,

Name of the research scholar: GUNASEKAR N

Reg. No: 4081032119

Sub: Anna University – Synopsis Acceptance Mail – Reg.

Synopsis submitted by the scholar is accepted and he/she shall be permitted to submit the thesis to this office as per Anna University norms.

DIRECTOR (RESEARCH)

Note: Please don't reply to this mail)



[Print](#)

[Cancel](#)

PRINCIPAL

Dr R. PRABHU

PRINCIPAL,

SAKTHI ENGINEERING COL

COIMBATORE-641 104



PROFORMA FOR SUBMISSION OF THESIS

Registration
Details:

Name of the Scholar :	N. GUNASEKAR	Registration No:	4081032119
Contact No :	9842217067		
Email ID :	ngunaa@rediffmail.com		
Name of the Supervisor :	Dr. V. VELMURUGAN	Name of the Joint Supervisor :	Dr. M. MOHANRAJ
Contact No :	9442001697	Contact No :	9486411896
Email ID :	velgoudham_v@yahoo.com	Email ID :	mohanrajbavan@gmail.com
Category at the time of registration	Part time	Change of category, if any	-
Month and Year of registration	April 2008	Period of break of study granted, if any	-
Date of confirmation	11.08.2009	Date of completion of minimum period	31.03.2011
Date of completion of maximum period	31.03.2014	Extension of period approved (mention date)	Upto 30.09.2015 (25.03.2014)
Date of DC meeting for approval of synopsis	14.02.2015	Date of submission of thesis	27.03.2015

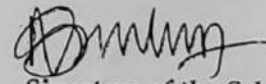
Extension of for Thesis submission beyond 3 months after the submission of synopsis

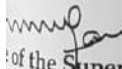
Fee details :


Amount (Rs.)	D.D. No.	D.D. Date	Name of the Bank	Branch
5,000/-				

Whether No Dues Certificate is enclosed : Yes

I hereby declare that the information furnished above are true and correct to the best of my knowledge.


Signature of the Scholar


Signature of the Supervisor
(with Seal)
VEL MURUGAN
Principal



Signature of the Joint Supervisor

(Name with Seal)
Dr. M. MOHANRAJ, M.E., Ph.D.,
Professor,

Department of Mechanical Engineering,
(For Office use only) Checked and Accepted
Hindusthan College of Engineering and Technology,
Coimbatore - 641 032. INDIA

Sakthi Engineering College
Madurai, Coimbatore

Dealing Hand


PRINCIPAL
Dr R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104



CENTRE FOR RESEARCH
ANNA UNIVERSITY
CHENNAI - 600 025



Dr. R. JAYAVEL
 DIRECTOR

Telephone : +91-44-2235 7366/2235 0361
 Fax : +91-44-2220 1213
 Email : dirresearch@annauniv.edu
 dirresearch@gmail.com



Date : 06.07.2015

Proceedings. No. 7077032108/Ph.D./AR4

Sub: Ph.D. Programme – Constitution of Oral Examination Board - Conduct of Viva-Voce in respect of
Mr.S.BENJAMIN LAZARUS – orders issued – Regarding.

The Vice-Chancellor is pleased to constitute an Oral Examination Board consisting of the following experts to conduct the viva-voce Examination in respect of the research scholar, **Mr.S.BENJAMIN LAZARUS**.

- | | |
|--|---------------------|
| 1. Dr.V.Velmurugan
Professor
Department of Mechanical Engineering
Sree Sakthi Engineering College
Coimbatore - 641104 | Supervisor/Convener |
| 2. Dr.N.V. Nanjundaradhya
Professor
Department of Mechanical Engineering
R V College of Engineering
Mysore Road Bangalore - 560 059 | Member |
| 3. Dr.P.K. Palani
Professor
Department of Mechanical Engineering
Government College of Technology
Coimbatore - 641 013 | Member |

The Convener of the Oral examination Board is requested to conduct the Oral examination **within three months** on a convenient date **except Saturday, Sunday and public holidays**. The Oral Examination for the above scholar shall be conducted as an "Open Defence Type". The outside members are eligible for TA/DA as per Anna University norms.

The convener shall conduct the Oral Examination after a minimum of one week from the date of Viva-Voce notification signed by the HoD/Director of Centre. A minimum of ten members excluding the examiners should attend the Viva-Voce examination.

A copy of the Viva-Voce notification and the minutes of the Oral Examination Board shall be sent to the undersigned as per the format specified in the Anna University website soon after the Viva-Voce is over for taking appropriate action. **Download Viva-Voce proceedings from Supervisor Login.**

The receipt of the proceedings may please be acknowledged.

R. Jayavel
 DIRECTOR

To
 Dr.V. Velmurugan
 Professor
 Department of Mechanical Engineering
 Sree Sakthi Engineering College, Coimbatore - 641104

06/07/15

[Signature]
PRINCIPAL
Dr.R. PRABHU
 PRINCIPAL,
 SAKTHI ENGINEERING COL
 COIMBATORE-641 104



ANNA UNIVERSITY

CENTRE FOR RESEARCH

Sardar Patel Road, Chennai - 600 025, India



Prof. R. JAYAVEL, Ph.D.
DIRECTOR


Ref : No. 4081032119/Ph.D./AR4

Date : 18.11.2015

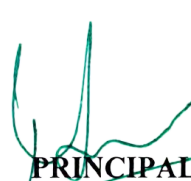
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.N.GUNASEKAR, Ph.D. Research Scholar in the Faculty of Mechanical Engineering, Anna University, Chennai - 25 has successfully completed his Oral Examination held on 06.11.2015. The Oral Examination Board has recommended the award of Ph.D. degree to Mr.N.GUNASEKAR.

The Ph.D. degree is in compliance of the UGC Regulations 2009.


DIRECTOR (RESEARCH)

a
18/11/15


PRINCIPAL
Dr R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104



Proceedings of the Ph.D. Viva-Voce Examination of Mr./Ms. GUNASEKAR.N held at 11:30 AM on 06.11.2015 in Seminar Hall, Sree Sakthi Engineering College, Coimbatore - 641104

The Ph.D. Viva-Voce Examination of Mr./Ms. GUNASEKAR.N (Reg. No. 4081032119) on his/her Ph.D. Thesis Entitled " INVESTIGATIONS ON SOLAR PHOTOVOLTAIC THERMAL HYBRID HEAT PUMP WORKING WITH CIRCULAR AND TRIANGULAR EVAPORATOR TUBE CONFIGURATIONS " was conducted on 06.11.2015 at 11:30 AM in the Seminar Hall, Sree Sakthi Engineering College, Coimbatore - 641104.

The following Members of the Oral Examination Board were present:

- | | | |
|---|--|---------------------------|
| 1 | Dr. P. Jayaraj, Assistant Professor, Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal Mangalore | Indian Examiner |
| 2 | Dr. M. Sakthivel, Professor & Head, Department of Mechanical Engineering, Anna University Regional Centre, Navavoor Coimbatore | Subject Expert |
| 3 | Dr. Velmurugan.V, Principal, Sree Sakthi Engineering College, | Supervisor & Convenor |
| 4 | Dr. Mohanraj.M, Professor, Hindusthan College of Engineering & Technology, | Joint Supervisor (If any) |

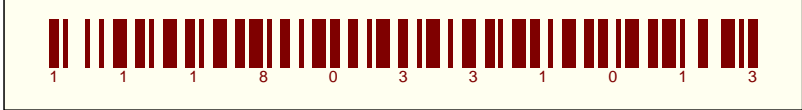
The research scholar, Mr./Ms. GUNASEKAR.N presented the salient features of his/her Ph.D. work. This was followed by questions from the board members. The questions raised by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by the Indian/Foreign examiner have been carried out and incorporated in the Thesis before the oral examination.

Based on the scholars research work, his/her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr./Ms. GUNASEKAR.N be awarded Ph.D. degree in the Faculty of Mechanical Engineering.

- | | | |
|---|--------------------|---------------------------|
| 1 | Dr. P. Jeyaraj | Indian Examiner |
| 2 | Dr. M. SAKTHIVEL | Subject Expert |
| 3 | Dr. V. Vel Murugan | Supervisor & Convenor |
| 4 | Dr. M MOHANRAJ | Joint Supervisor (If any) |
- 6/11/15
6.11.2015

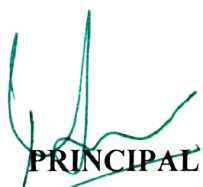

PRINCIPAL
Dr.R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104



Ph.D. / M.S. / M.Tech (By Research) - Synopsis / Thesis Registration details

Registration No. : 11180331013

Ph.D./M.S / M.Tech	Ph.D.
Region	AUT-COIMBATORE
Registration No	11180331013
Date of Registration	Session: JAN Year: 2011
Name of the Scholar	Dhanraj G
Gender	Male
Date of Birth	19.02.1977
Nationality	Indian
Community	BC
Email	g_dhanraj2001@yahoo.com
Mobile Number	9443075767
Faculty	Mechanical Engineering
Category	Part-Time
Title of the Synopsis	INVESTIGATION AND OPTIMIZATION OF MECHANICAL AND METALLURGICAL PROPERTIES FOR HSLA STEEL IN SMAW AND TIG WELDING PROCESS
Broad area of research / Key words	TIG WELDING, SMAW WELDING,OPTIMIZATION, MECHANICAL PROPERTIES, METALLURGICAL ANALYSIS
Special Character in the Title	no
Name of the Supervisor	Dr. Vel Murugan V
Designation	Professor
Department	Department of Mechanical Engineering


PRINCIPAL
Dr R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104



Ph.D. / M.S. / M.Tech (By Research) - Synopsis / Thesis Registration details

Registration No. : 11180331013

Address Sree Sakthi Engineering College Karamadai,
Coimbatore - 641 104

Mobile 9442001697

Email velgoudham_v@yahoo.com

Joint Supervisor Applicable

Name of the Joint Supervisor Dr. Balaji N

Designation Associate Professor

Department Department of Mechanical Engineering

Address Sri Krishna College of Engineering and Technology
Coimbatore
- 641008

Mobile 9894451631

Email rajbalaji2001@yahoo.co.in

Date of DC meeting for approval of Synopsis 14.11.2018

Title of the seminar : MECHANICAL AND METALLURGICAL PROPERTIES OF HSLA STEEL **Date of the seminar : 26.06.2018**

National / International Journal publications:

G.DHANRAJ, V.VELMURUGAN, N.BALAJI" METALLURGICAL BEHAVIOUR AND MECHANICAL PROPERTIES ON THE SHIELDED METAL ARC WELDING AND TUNGSTEN INERT GAS WELDING PROCESS OF DMR 249A STEEL JOURNAL OF BALKAN TRIBOLOGICAL ASSOCIATION annexure_1/13104772/2012/NOV 2018

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///


PRINCIPAL
Dr R. PRABHU
PRINCIPAL,
SAKTHI ENGINEERING COL
COIMBATORE-641 104



Date: 15-11-2018 15:20:38

Signature of the scholar

Signature of the Supervisor
(Name with seal)

