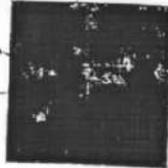


Sl. No. 00618



# Sri Krishnadevaraya University



Faculty of Science

Reg. No. -----

Sri Krishnadevaraya University hereby confers the Degree of

*Doctor of Philosophy*

on *Bala Krishna R*

Son / Daughter of *Narasimhulu R*

in recognition for his/ her research work on

*"MULTI HOP PERFORMANCE ISSUES IN WIRELESS MOBILE AD HOC NETWORKS"*

in the Department of *Computer Science & Technology*

he / she having been found duly qualified for the same in *04-12-2010*

*4<sup>th</sup> December 2010*

Given under the seal of the University



S.V. PURAM  
ANANTAPUR - 515003,  
ANDHRA PRADESH, INDIA

Dated : 24 JAN 2011

*A. Reddy*  
Vice-Chancellor

Sl.No. 14/ 100412

Reg.No : 2008191104

# SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

(A CHRISTIAN MINORITY INSTITUTION)

சத்யபாமா பல்கலைக்கழகம்

(பல்கலைக்கழக மானியக் குழு பிரிவு 3, சட்டம் 1956ன் கீழ் நிறுவப்பட்டது)

(கிறித்துவ சிறுபான்மையினர் கல்வி நிறுவனம்)

FACULTY OF COMPUTER SCIENCE AND ENGINEERING



The Board of Management of Sathyabama University, hereby makes known that

USHA. S

has been conferred

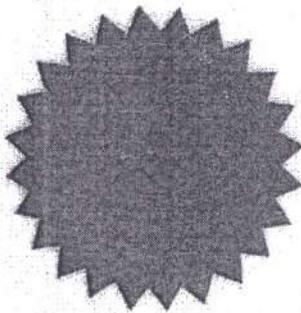
the **DEGREE OF DOCTOR OF PHILOSOPHY**, having been certified by duly appointed

examiners to be qualified to receive the same on **AUGUST 03, 2013** for the thesis entitled

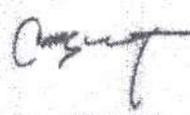
**INVESTIGATIONS ON MISBEHAVING NODES IN MOBILE AD-HOC NETWORKS**

Given under the seal of the university, at Chennai this **TWENTY SIXTH** day of **April 2014**

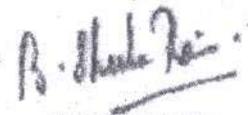
Given under the seal of the University

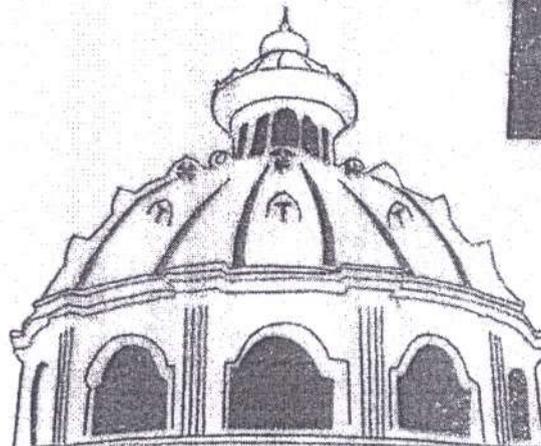


  
Registrar

  
Director

  
Director

  
Vice-Chancellor



Date : April 26, 2014

Jeppiaar Nagar, Chennai - 600119,  
Tamil Nadu, INDIA.

# Anna University



Reg.No. 4086063235/RG

The Syndicate of the Anna University hereby makes known that **JANAKI K** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2016. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

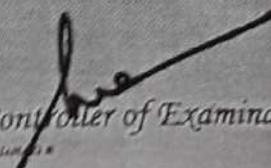
Title of the Thesis:

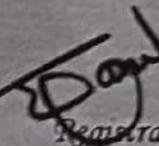
**ENHANCED IMAGE COMPRESSION USING HARD THRESHOLDING AND SCALING TECHNIQUES**

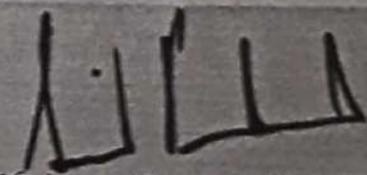
Given under the Seal of the University



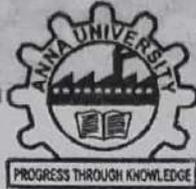
Chennai 600 025  
India  
May 2017

  
Controller of Examinations

  
Registrar

  
Chairman, Convener Committee  
Vice-Chancellor

# Anna University



Reg.No. 10960621098/RG



*The Syndicate of the Anna University hereby makes known that*  
**SIVAKUMAR D** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the *Faculty of Information and Communication Engineering*, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2016**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

*Title of the Thesis:*

**PERFORMANCE ESTIMATION OF MODIFIED COCOMO II MODEL PARAMETERS FOR SOFTWARE PROJECTS USING SOFT COMPUTING TECHNIQUES**

*Given under the Seal of the University*



Chennai 600 025  
India  
May 2017  
SAR01428

*[Signature]*  
Controller of Examinations  
SIVAKUMAR D

*[Signature]*  
Registrar

*[Signature]*  
Chairman, Convener Committee  
Vice-Chancellor

**Dr. M.G.R.  
EDUCATIONAL AND RESEARCH INSTITUTE  
DEEMED TO BE UNIVERSITY**



**ENGINEERING AND TECHNOLOGY**

The Board of Management and the Academic Council of  
this University hereby make known that

**JEYABALAN S**

has been admitted to the Degree of

**DOCTOR OF PHILOSOPHY**

IN

**COMPUTER SCIENCE AND ENGINEERING**



having completed all the Academic requirements and having been  
certified by duly appointed Examiners to be qualified to receive the  
same in **NOVEMBER 2018**

Title of the thesis :

**AN EFFICIENT COMPUTATIONAL MODEL FOR ANALYZING CELL SIGNALING  
PATHWAYS USING INTELLIGENT TECHNIQUES**



GIVEN under the seal of the University



Maduravoyal  
Chennai 600 095  
Date : 20-Oct-2019

*C. B. Rajanivel*  
Registrar

*K. Suresh*  
Vice-Chancellor

*K. Suresh*  
President

Ph. D.

No. & Date of Syndicate Decision 119/28.3.1994

Register No 1633

68259



**FACULTY OF APPLIED SCIENCE**

The Senate of the University of Kerala hereby makes known that Gopala Krishnan Nair, T. R. has been admitted to the Degree of Doctor of Philosophy, he / she having been certified by duly appointed examiners to be qualified to receive the same.

Subject Computer Science

Title of the Thesis Parallel Computing Methodology  
For Flight Simulation

Given under the seal of the University.

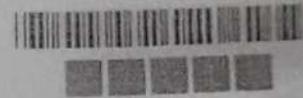


University Buildings

Thiruvananthapuram, March 15, 1995.

*S. S. S. S.*  
Vice-Chancellor

01743



# Sri Krishnadevaraya University



## Faculty of Science

Reg. No. 15A513106

Sri Krishnadevaraya University hereby confers the Degree of  
*Doctor of Philosophy*

on *Vijay Anand S*

Son / Daughter of *G Shanmugam*

in recognition for his/ her research work on  
"An Efficient Compression Techniques Using Segmented and Intra Pixel Based  
Multidimensional for Images"

in the Department of *Computer Science and Technology*

he / she having been found duly qualified for the same in

*02/06/2017*

Given under the seal of the University



S.V. PGRAM  
ANANTAPUR - 515003,  
ANDHRA PRADESH, INDIA

Dated 07-Dec-2017

Vice-Chancellor

**Dr. M.G.R.**  
**EDUCATIONAL AND RESEARCH INSTITUTE**  
**DEEMED TO BE UNIVERSITY**



**ENGINEERING AND TECHNOLOGY**

The Board of Management and the Academic Council of  
this University hereby make known that

**KAMALRAJ .T**

has been admitted to the Degree of

**DOCTOR OF PHILOSOPHY**

IN

**COMPUTER SCIENCE AND ENGINEERING**



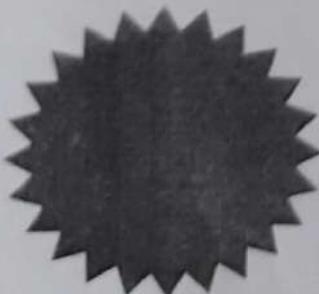
having completed all the Academic requirements and having been certified by duly appointed Examiners to be qualified to receive the same in **SEPTEMBER 2019**

**Title of the thesis :**

**DEVELOPMENT OF CLUSTER ROUTING PROTOCOL FOR POWER CONSUMPTION IN WSN USING eE-CAS**



GIVEN under the seal of the University



Maduraboyal  
Chennai 600 095  
Date : 20-Oct-2019

C.B. Palanivelu  
Registrar

*K. Srinivasan*  
Vice-Chancellor

*K. Srinivasan*  
President



*This is to certify that*

JYOTHI A P

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF COMPUTER & INFORMATION SCIENCES

*for the thesis entitled*

A NOVEL DETERMINISTIC MODELING OF MULTI-STAGE CLUSTERING  
OPTIMIZATION FOR TIME-CRITICAL APPLICATION IN WSN

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
19 001036

Given under the seal of the University

USN: IRR15PEJ05



BELAGAVI

DATE : APRIL 03, 2021

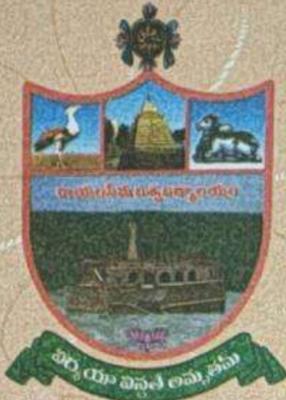
  
VICE CHANCELLOR

Disposal No. 000419

Register No.

PP.COMP.SCI.&ENG.0014

# RAYALASEEMA UNIVERSITY KURNOOL



## PROVISIONAL CERTIFICATE

This is to Certify that Mr. / Ms. **K S RAJESH**

has qualified himself / herself for the award of the **Degree of Doctor of**

**Philosophy in** **COMPUTER SCIENCE & ENGINEERING** with effect from 01-02-2020

on the basis of the adjudication reports of the examiners and on his / her satisfying other conditions for the award of the degree.

**Entitled** DESIGN AND IMPLEMENTATION OF TRUSTED SECURE ROUTING FRAMEWORK FOR DYNAMIC WIRELESS AD-HOC NETWORK

Kurnool  
Andhra Pradesh, India.

Date : 16-07-2020

Written by : *[Signature]*

Compared by : *[Signature]*

Sypdt.

*[Signature]*  
A.R.

CONTROLLER OF EXAMINATIONS



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ  
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA

PH  
18 001447

### Provisional Degree Certificate

*This is to certify that Mr./Ms. M SELVI*

*is qualified for the award of the degree of*

DOCTOR OF PHILOSOPHY IN FACULTY OF COMPUTER & INFORMATION SCIENCES W.E.F. 19.12.2020

*of this University for having fulfilled the requirements for the award  
of the said Degree by submitting the thesis titled :*

DESIGN AND DEVELOPING A MULTICAST ROUTING PROTOCOL FOR LINK FAILURE AND RELIABLE  
DATA DELIVERY

*with University Seat No. 1RR13PEN02*

*The degree will be conferred on him / her at the next  
convocation or thereafter.*

Belagavi

Date : 31.12.2020



*Rangam B.E*  
Registrar (Evaluation)

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

201291124



# Bangalore University



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council

Certify that

V Ramesh

..... ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
has been duly admitted to the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

( Faculty of Engineering - Civil Engineering )

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿ ಪರಿಗಣಿಸಿರುವ ಕಾರಣ

in recognition of the fulfilment of requirements

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
for the said degree as indicated below

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: 2011

Year of Award

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ: "Fuzzy Reliability Analysis of Transmission Line

Subject: Towers"

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ

Given under the seal of the University

ಬೆಂಗಳೂರು

Bangalore

ದಿನಾಂಕ

Date: 12/04/2012

ಕುಲಪತಿ

Vice-Chancellor

# Anna University



Reg.No.11210331001/EG



*The Syndicate of the Anna University hereby makes known that*  
**ARAVINTHAN K** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the Faculty of Civil Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2018. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009"*

*Title of the Thesis:*

**EXPERIMENTAL ANALYSIS OF EARTHQUAKE RESISTANT BASE ISOLATED STRUCTURES WITH HYBRID SPHERICAL ROLLERS**

*Given under the seal of the University:*



Chennai 600025  
 India  
 December 2018

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

PhD



THE UNIVERSITY  
OF BIRMINGHAM

It is hereby certified that  
**Dinesh Chandra Sharma**  
was admitted to the Degree of  
***Doctor of Philosophy***  
*(Civil Engineering)*  
on the seventeenth day of December 1994

VICE-CHANCELLOR AND PRINCIPAL

REGISTRAR AND SECRETARY

226353

UNIVERSITY OF ALLAHABAD



**Doctor of Philosophy in Engineering**

*Electronics & Communication Engineering*

This is to certify that Leburu Kangaiah

has been admitted to the degree of Doctor of Philosophy

in Engineering in this University at the Convocation

of June-2011 University of Allahabad.

University of Allahabad.

The 2 DEC 2011

*Ratan Kumar*  
Vice-Chancellor.

# Anna University



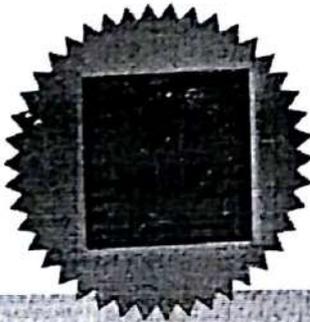
Reg.No. 7077052107/RG

*The Syndicate of the Anna University hereby makes known that MURUGANANDHAM A has been admitted to the DEGREE OF DOCTOR OF PHILOSOPHY under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2013.*

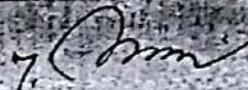
*Title of the Thesis:*

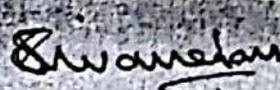
**MODIFIED SPIHT AND FRACTAL BASED EFFICIENT MEDICAL IMAGE CODER**

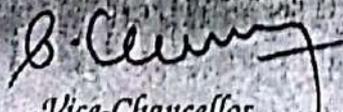
*Given under the Seal of the University*



Chennai 600 025  
India  
March 2013

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

  
Principal  
RAJARAJESWARI  
COLLEGE OF ENGINEERING

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

**VIJAYA S M**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Electrical & Electronics Engineering Sciences*

*for the thesis entitled*

*Efficient Image Compression Algorithm and VLSI  
Implementation for Medical Images*

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
19 000303

Given under the seal of the University

USN: 1DS12PEN03



BELAGAVI

DATE : Feb 08, 2020

VICE CHANCELLOR



The Board of Management of the  
Vellore Institute of Technology (VIT)  
hereby confers on

**P BHUVANESWARI**

the degree of

**DOCTOR OF PHILOSOPHY**

in recognition of the research work entitled

**Hybrid Optical Scanning Holography and Digital Processing Techniques for  
Enhancement and Classification of Chest X-ray Images**

for having fulfilled the prescribed requirements.

The degree has been awarded in compliance with the  
"University Grants Commission, Regulations 2009"



given this day the 07 November 2019

Given under the seal of this university



Vice - Chancellor

Chancellor

Dated: 11-Nov-2019

Vellore - 632 014, Tamil Nadu, India

Enrollment No. 14SRU/S1092



Registration No. SRU/Ph.D/Jun/2014/0094



सनराईज विश्वविद्यालय, अलवर  
**SunRise University, Alwar**

Tehsil Ramgarh, District Alwar (Rajasthan), INDIA

**विद्या - वाचस्पति**

(संकाय **Engineering : Electronics & Communication Engineering**)

सनराईज विश्वविद्यालय की एकेडेमिक काउंसिल द्वारा यह प्रमाणित किया जात है कि श्री/सुश्री/श्रीमती **Ramireddy Gangadhar Reddy** ने सनराईज विश्वविद्यालय से शोधप्रबन्ध अनुमोदन उपरान्त विद्या वाचस्पति की उपाधि प्राप्त की।

**शोधप्रबन्ध का विषय**

**“Design of a Reliable, Robust Energy Efficient Full Adder Cell For Arithmetic Applications”**

**Doctor of Philosophy**

(Faculty of Engineering : Electronics & Communication Engineering)

This is to certify by the Academic Council of SunRise University that

Mr./Ms./Smt. **Ramireddy Gangadhar Reddy**

obtained the Degree of **Doctor of Philosophy** after approval of the thesis.

**Title of Thesis**

**“Design of a Reliable, Robust Energy Efficient Full Adder Cell For Arithmetic Applications”**

Awarded under the seal & Signature of the SunRise University on year **2017**



Registrar

President

JUC 90033

JGI

**JAIN**  
DEEMED-TO-BE UNIVERSITY

Declared as Deemed-to-be University u/s 3 of the UGC Act, 1956  
vide MHRD Notification No. F-9-57/2007-U3(A)

*We, the Chancellor, Vice Chancellor,  
Members of the Board of Management &  
Academic Council certify that*

**Sumitha Manoj**

*having been examined in December-2018  
with Reg. No. 131PPEE027  
has been conferred with the Degree of*

**DOCTOR OF PHILOSOPHY**  
*in Electronics Engineering*

*by Jain (Deemed-to-be University), Bengaluru  
on the 26<sup>th</sup> day of the month of August 2019.*

*In Testimony whereof are set the seal of the  
said University and the signature of the  
said Vice Chancellor*

*N. Sundar*  
Vice Chancellor

Date : 26.08.2019

**जैन**  
— "प्रथितम्" वाच विन्विद्यमानम्

विश्वविद्यालय अग्रिम आयोग अधिनियम, 1956 के अनुभाग 3 में उल्लिखित मान्यता प्राप्त विश्वविद्यालय के रूप में  
अभिज्ञान संख्या एन. 9-57/2007-यू.3(A) के द्वारा अधिसूचित वाच विन्विद्यमानता के रूप में उल्लिखित

हम, कुलाधिपति, कुलपति, प्रबन्धन  
समिति एवं शैक्षिक परिषद् के सदस्य  
प्रमाणित करते हैं कि

**सुमिता मनोज**

जिनकी पंजीयन संख्या 131PPEE027 है,  
दिसंबर - 2018 के परीक्षोपरांत

पीएच. डी.

विद्युन्मान अभियांत्रिकी

की उपाधि में उत्तीर्ण हुए।  
जैन (अभिमत पात्र विश्वविद्यालय), बंगलूरु की ओर से  
दिनांक 26 अगस्त 2019 को इन्हें यह उपाधि  
प्रदान की गई है, जिसके प्रमाण स्वरूप उक्त  
विश्वविद्यालय की मोहर एवं  
उक्त कुलपति के हस्ताक्षर अंकित हैं।

*N. Sundar*  
कुलपति

*N. Sundar*  
6181-20

G.2D000020



# Jadaupur University

*Certified that*

**D. Sobya**

*was admitted to the Degree of Doctor of Philosophy in Engineering of this University on 20.03.2019 and that the degree was conferred on him/her at the Convocation held in December 2019 with all the Rights and Privileges thereto appertaining.*

*In Witness whereof the Signature of the Vice-Chancellor of Jadaupur University is hereunto affixed.*

JADAVPUR UNIVERSITY  
The 24th December, 2019



*Sujanjan Das*  
Vice-Chancellor



Serial No. 170014

# HIMALAYAN UNIVERSITY

(Established under Section 2(f) of UGC Act 1956)

Itanagar, Arunachal Pradesh

## Provisional Degree

The University Hereby Confers Doctor of Philosophy in the Field  
of Electronics & Communication

of ..... of The  
Engineering & Applied Science

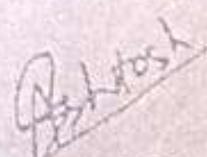
Faculty of .....  
Named: S. R. Arthi Avanthiga

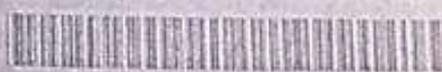
bearing Registration No. T028102060213002

Under the Thesis Title: " A DESIGN PROTOTYPIC SARCASTIC GADGET TECHNOLOGY  
FOR PERCEPTUAL DISABILITIES. "

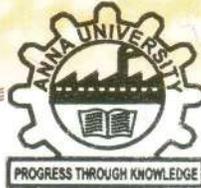
..... who has successfully Completed the  
Requirements Prescribed by the University for the award of this Provisional  
Degree in the Year April 2017

Date: 2017-05-05

  
Controller of Examinations



# Anna University



Reg.No.20117301016/RG

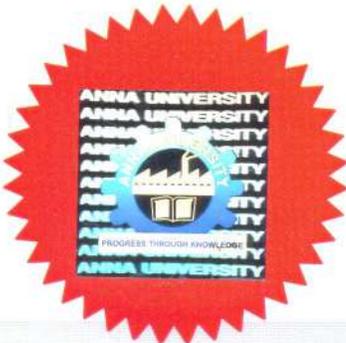


*The Syndicate of the Anna University hereby makes known that*  
**EBBYDARNEY P** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Electrical Engineering**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2019**. The degree has been awarded in compliance with the “**University Grants Commission, Regulations 2009**”.

*Title of the Thesis:*

**PERFORMANCE ENHANCEMENT IN PMLDC MOTOR USING SEPIC AND Z-SOURCE INVERTER**

*Given under the seal of the University*



Chennai 600025  
India  
December 2019  
QAR013086

  
Controller of Examinations  
EBBYDARNEY P

  
Registrar

  
Vice-Chancellor  
M.K. JOSEPH

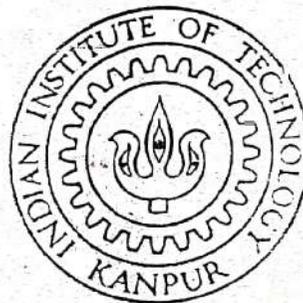
THE BOARD OF GOVERNORS  
OF THE  
INDIAN INSTITUTE OF TECHNOLOGY KANPUR

UPON THE RECOMMENDATION OF THE SENATE  
HEREBY CONFERS ON

M. ARUNACHALAM

THE DEGREE OF  
DOCTOR OF PHILOSOPHY

WITH ALL THE HONOURS PRIVILEGES AND OBLIGATIONS THEREUNTO PERTAINING  
GIVEN AT KANPUR ON THIS SEVENTH DAY OF APRIL  
NINETEEN HUNDRED AND SEVENTY NINE



*[Signature]*  
CHAIRMAN  
BOARD OF GOVERNORS

*[Signature]*  
REGISTRAR

*[Signature]*  
Asst. Audit Officer  
Govt. Audit Party  
RAP-XX, BHEL, EDN, B'lore.

*[Signature]*  
CHAIRMAN  
SENATE





# Indian Institute of Technology, Madras

*hereby confers the degree of*  
**Doctor of Philosophy**  
*of the Institute*

*or*

**A SRI RAMA CHANDRA MURTY**

*for successfully completing the prescribed programme of study and  
presenting the thesis entitled*

**STUDIES ON POWER SYSTEM STABILIZER DESIGN FOR SINGLE AND  
MULTIMACHINE SYSTEMS**

*Given this day the Twentysixth of July, 1997  
under the seal of the Institute.*



*R. Srinivasan*  
Registrar

*R. Murthy*  
Director

*[Signature]*  
Chairman Board of Governors



# TECHNO GLOBAL UNIVERSITY

885872



{FINAL DEGREE}

This is to certify that Mr./Ms. SARAVANAN N. Enrollment no. J7111000219674. Session: - 2012-2014 has Successfully completed all the requirements as per the university norms for the Award of the degree of DOCTOR OF PHILOSOPHY in the faculty of ELECTRICAL AND ELECTRONICS. The University has accepted the thesis entitled "Electricity Generation Using Sediment Microbial Fuel Cells with a Manganese Dioxide Cathode Catalyst".

ADD: -A.N.BISHNUPUR. SHILLONG. MEGHALAYA. INDIA-793003

(Estd. 2008 under Section 2f of UGC Act 1956)

DATE:- 22-OCT-2014



Signature of the Chancellor



# Anna University



Reg. No.:2004489701/RG

*The Syndicate of the Anna University hereby makes known that*  
**AMUTHARAJ J** *has been admitted to the* **DEGREE OF DOCTOR OF**  
**PHILOSOPHY** *under the Faculty of Information and Communication*  
*Engineering, having been certified by the duly appointed examiners to be qualified*  
*to receive the same in the year 2012.*

*Title of the thesis:*

**DESIGN OF AN EFFICIENT AND RESILIENT CONTENT DISTRIBUTION NETWORK**

*Given under the Seal of the University*



Chennai 600 025  
India  
January 2012  
HAR014104

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor  
CTASATPRTTNEKFORUOYOCRELLA



*This is to certify that*

**K S ANANDA KUMAR**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Computer & Information Sciences*

*for the thesis entitled*

*Development Of Protocol For Effective Power Management  
And Time Synchronization In Wireless Sensor Networks*

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
13 001671

Given under the seal of the University

USN: 1RR12PEN01



BELGAUM

DATE : March 18, 2019

  
VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

NEHA SINGHAL

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF APPLIED SCIENCES (MCA)

*for the thesis entitled*

DESIGN AND IMPLEMENTATION OF WEB SERVICE COMPOSITION  
WITH AN APPLICATION

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
19 001159

Given under the seal of the University

USN: 1RR13PEN03



BELAGAVI

DATE : APRIL 03, 2021

VICE CHANCELLOR

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ A42-P1-37  
Bangalore University



FOR QUALITY & EXCELLENCE  
IN HIGHER EDUCATION



Accredited by NAAC

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor*  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
*the members of the Syndicate & Academic Council*

Certify that

*T Chandrashekar* ಅವರು

ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
*has been duly admitted to the Degree of*

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

*(Faculty Of Engineering - Mechanical Engineering)*

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿ ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ  
*in recognition of the fulfilment of requirements*

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
*for the said degree as indicated below*

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2006**

Year of Award:

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ : *"Studies on Grain*

Subject : *Refinement of Aluminium Alloys"*

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ

*Given under the seal of the University*

ಬೆಂಗಳೂರು  
Bangalore:

ದಿನಾಂಕ

Date: 06.01.2007

*HARAMPATI*

ಕುಲಪತಿ

Vice-Chancellor

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 1361571



H.T No.: 0603PH1530

*Mr. N. Sreenivasulu Reddy*

*Sr. N. Subba Reddy*

having fulfilled the academic requirements in *April - 2019*  
has this day been admitted by the Executive Council to the Degree of

*Doctor of Philosophy*

*Mechanical Engineering*

Topic: "Numerical and Experimental Investigation of a Double Pipe Heat Exchanger with Different Inserts in the Annulus Zone".

Given under the Seal of the University

Date: 26-04-2019



*Upparasu*

DIRECTOR OF EVALUATION

*A. Srinivas*

REGISTRAR

*A. Srinivas*

VICE CHANCELLOR



001-144-0001

PC No  
310021026

# Anna University

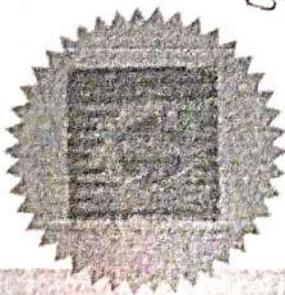


Reg.No. 10960321036 RG

The Syndicate of the Anna University hereby makes known that **MOHAN RAJ R** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Mechanical Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2014**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

Title of the Thesis:

**INVESTIGATIONS ON THE DEVELOPMENT OF VALUE STREAM MAPPING FRAMEWORK INTEGRATED WITH FUZZY QFD**



Self Attested  
*[Handwritten Signature]*

Given under the Seal of the University

Dr. R. Mohan Raj B.E., M.E., Ph.D.  
RESEARCH SUPERVISOR-VTU  
RSRI-VTU0817936  
Professor of Mechanical Engineering  
RAJARAJESWARI COLLEGE of ENGINEERING  
Bangalore-560074

Chennai 690 025  
India  
November 2014

*[Handwritten Signature]*  
Controller of Examinations

*[Handwritten Signature]*  
Registrar

*[Handwritten Signature]*  
Vice-Chancellor

0001053

A54-P1-164

# Bangalore University



NAAC "A" Grade

ವೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
He, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕಾಲಾಪತಿ, ಓದಿಕೋಶ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council

**Certify that**

**Satheesha.V**

ಆವರು

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
has been duly admitted to the Degree of

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**

**Doctor of Philosophy**

**(Faculty of Engineering - Mechanical Engineering)**

ಇವರ ವಿದ್ಯಾಭ್ಯಾಸದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವುದು ಪರಿಗಣಿಸಿರುವ ಕಾರಣ  
in recognition of the fulfillment of requirement  
ಈ ಡಾಕ್ಟರೇಟ್ ಡಿಗ್ರಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಡಿಗ್ರಿಯ ವಿವರಗಳು ಕೆಳಗೆ  
for the said degree as indicated below

**2019**

**Studies on Flow and Heat Transfer During Air Jet Impingement on Curved Surfaces**

22 APR 2019

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*  
**S. G. Sangashetty**  
*has been conferred the Degree of*  
**Doctor of Philosophy**

*in*

**Faculty of Mechanical Engineering Sciences**

*for the thesis entitled*

**Improvement of the Performance of Thermal Power  
Plant by the Application of Renewable Energy Source**

*in recognition of the fulfillment of requirements  
for the said degree*

PH 000415

USN : 1SJ03PMN03

Given under the seal of the University



BELGAUM  
DATE : . APRIL 8, 2012.

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*  
**VISHWANATH K C**  
*has been conferred the Degree of*  
**Doctor of Philosophy**  
*in*  
*Faculty of Mechanical Engineering Sciences*  
  
*for the thesis entitled*  
*Numerical Investigation of Effect of Elasto-Plastic Behavior*  
*Around The Notches Under Cyclic Loading*  
  
*in recognition of the fulfillment of requirements*  
*for the said degree*

PH  
13

001916

Given under the seal of the University

USN: 5VX13PMN30



BELGAUM

DATE : March 18, 2019

VICE CHANCELLOR



# பாரதியார் பல்கலைக் கழகம் Bharathiar University

பொறியியல் புலம்  
FACULTY OF ENGINEERING

பாரதியார் பல்கலைக் கழகத்தால் முறையாக அமைக்கப்பட்ட தேர்வாளர் குழு.  
கார்த்திகேயன் மு. 2002ஆம் ஆண்டு மே 23ஆம் தாளில் இயந்திரப் பொறியியல் என்னும் பிரிவில்  
ஆய்வியல் அறிஞர் என்னும் பட்டம் பெறத் தகுதியடைந்திருப்பதாகச் சான்றளித்ததை  
ஏற்று அலகுக்கு அத்தப் பட்டத்தைப் பல்கலைக் கழக இலச்சிளையுடன்.  
பாரதியார் பல்கலைக் கழக ஆட்சிக் குழு வழங்குகின்றது.

The Syndicate of the Bharathiar University hereby makes known that KARTHIKEYAN M  
has been admitted to the Degree of DOCTOR OF PHILOSOPHY in MECHANICAL ENGINEERING,  
having been certified by duly appointed Examiners to be qualified to receive the same on 23rd MAY 2002.

Given under the Seal of the University.

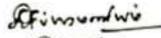


கோயம்புத்தூர்  
Coimbatore

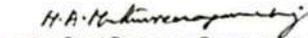
தாள்

Dated: 26th JUNE 2003

17015133

  
பதிவாளர்

Registrar

  
ஒப்பளிக்கப்பெற்ற கையொப்பாளர்  
துணைவேந்தருக்காக  
Authorised signatory  
For Vice-Chancellor

14

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ  
 Bangalore University

M42-P1-10



(17)

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸದಕುಲಾಧಿಪತಿ  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor*  
 ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
*the members of the Syndicate & Academic Council*

Certify that

*R. Shankara Reddy* ಅವರು  
 ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ

*has been duly admitted to the Degree of*

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ  
**Doctor of Philosophy**

**Doctor of Philosophy**

*(Faculty Of Engineering - Mechanical)*

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವುದು ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ  
*in recognition of the fulfilment of requirements*

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
*for the said degree as indicated below*

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: .....2006.....

*Year of Award:*

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ : *"Material Characterization of Mechanical*  
*Subject: and Thermal Behavior of Ceramic Matrix Composites with and*  
*without Defects using Finite Element Techniques"*

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ತುಡ್ಡೆಯಾಡು ನೀಡಲಾಗಿದೆ

*Given at Bangalore, Bangalore University*

ಬೆಂಗಳೂರು  
*Bangalore:*

ದಿನಾಂಕ  
*Date: 29.08.2007*

DATE OF ISSUE

13 DEC 2007

*HARUNAM*

ಕುಲಪತಿ  
*Vice-Chancellor*

Sl No. DIB/19/117

Register No. : 2009794104

# SATHYABAMA

## INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University Under Section 3 of UGC Act, 1956)



The Board of Management of Sathyabama Institute of Science and Technology hereby makes known that RAMESH.C has been conferred the DEGREE OF DOCTOR OF PHILOSOPHY under the FACULTY OF MECHANICAL ENGINEERING, having been certified by duly appointed examiners to be qualified to receive the same on December, 2018 for the thesis entitled A NOVEL ROUTE SYNTHESIS AND CHARACTERIZATION OF MAGNETIC NANOPARTICLES OF MIXED FERRITES given under the seal of the institution, at Chennai this TWENTY EIGHTH day of JULY 2019.

Given under the seal of the Institution

*Ramesh.C*

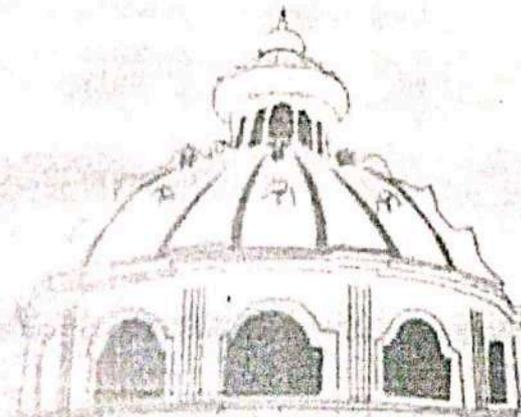
Vice Chancellor

*[Signature]*

Chancellor



Dated July 28, 2019



Jeppiaar Nagar,  
Chennai - 600119,  
Tamil Nadu, INDIA

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

201291085



# Bangalore University



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor*  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
*the members of the Syndicate & Academic Council*

**Certify that**

**A S Hari Prasad**

.....ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
*has been duly admitted to the Degree of*

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

**Doctor of Philosophy**

**( Faculty of Science - Mathematics )**

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿ ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ

*in recognition of the fulfillment of requirements*

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
*for the said degree as indicated below*

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2011**

*Year of Award*

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ: "Some Studies on Quartic and Quintic Splines  
*Subject: with Applications to Quadrature*"

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
*Given under the seal of the University*

ಬೆಂಗಳೂರು

Bangalore

ದಿನಾಂಕ

Date: 12/04/2012

ಕುಲಪತಿ

Vice-Chancellor



*This is to certify that*

*Savitha B*

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

Faculty of Applied Sciences (Mathematics)

*for the thesis entitled*

Studies on Thermomagnetic Convection in a Ferrofluid  
Layer with or without Micropolar Fluid

*in recognition of the fulfillment of requirements  
for the said degree*

PH<sub>13</sub> 000406

Given under the seal of the University

USN: 1DA09PGN03



BELGAUM

DATE : MAY 09, 2015

VICE CHANCELLOR

S-65



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ,  
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor,  
ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್‌ನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Academic Council and the Syndicate

Certify that  
**ANITHA B S**

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ  
on the recommendation of the Board of Examiners, admitted to the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ  
(ಗಣಿತಶಾಸ್ತ್ರ)

**Doctor of Philosophy**  
(Mathematics)

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ  
in recognition of the fulfilment of requirements  
ಇಪ್ಪತ್ತನಾಲ್ಕನೇ ಘಟಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.  
for the said Degree at the TWENTY FOURTH CONVOCATION

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 14 - 08 - 2013

ಘಟಕೋತ್ಸವ ದಿನಾಂಕ / Date of Convocation : 19 - 03 - 2014

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ.

Given under the seal of the University.



Jnana Sahyadri - Shankaraghatta  
ಕ್ರಮ ಸಂಖ್ಯೆ / SI.No. : KU14916  
Date of Issue : 19 - 03 - 2014  
KUS



*Dr. S. Hanasale*  
Professor & HOD

Dept. of Mathematics  
RAJARAJESWARI COLLEGE OF ENGINEERING ಕುಲಪತಿ  
Bengaluru-74 Vice-Chancellor



# ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

## Kuvempu University

ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ ವಿದ್ಯಾ ವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ  
ನಾವು ಶ್ರೀ / ಶ್ರೀಮತಿ ..... **ಸುಧಾಕರ ಎ.** ..... ಇವರು  
..... **2010** ..... ನೇ ವರ್ಷದಲ್ಲಿ ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು ..... **ಪಿಎಚ್.ಡಿ** .....  
ಪದವಿಗಾಗಿ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ ದಿನಾಂಕ ..... **14ನೇ ಮಾರ್ಚ್ 2010** ..... ರಂದು ನಡೆದ  
..... **ಇಪ್ಪತ್ತ** ..... ನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ ಇವರನ್ನು

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**  
(ಔದ್ಯೋಗಿಕ ರಸಾಯನಶಾಸ್ತ್ರ)  
ಪದವಿಗೆ ಅಂಗೀಕರಿಸಲಾಗಿದೆ.

We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor, the members of the Academic Council and Syndicate of Kuvempu University, certify that, on the recommendation of the Board of Examiners, Sri / Smt. .... **SUDHAKARA A.** ..... has been admitted to the degree of

**DOCTOR OF PHILOSOPHY**  
(INDUSTRIAL CHEMISTRY)

at the ..... **Twentieth** ..... Convocation held on ..... **14<sup>th</sup> March 2010** .....

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಿದೆ.  
*Given under the seal of the University*

ಜ್ಞಾನಸಹ್ಯಾದ್ರಿ - ಶಂಕರಘಟ್ಟ  
Jnana Sahyadri - Shankarghatta  
Pin Code : 577 451  
ಕರ್ನಾಟಕ : Karnataka

ಭಾರತ : India  
ದಿನಾಂಕ : Date : **14 MAR 2010**

SL. No. : **Nº 031730**



ಕುಲಪತಿ  
Vice-Chancellor

ಕುಲ್ಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯ

Kulbarga



University

# ದೂರದೃಷ್ಟಿ

ಉನ್ನತ ಶಿಕ್ಷಣವು ಉತ್ಕೃಷ್ಟತೆ, ಜ್ಞಾನದ ಬಲದಿಂದ ಪ್ರಬಲವಾಗಿ,  
ನಮ್ಮ ಸಹ ಖೇತನಗಳೆ ಮೂಲಕ ನಮ್ಮ ಜನತೆ - ಅಧಿಕ  
ಪರಿವರ್ತನೆ ಹಾಗೂ ನವೋದಯ ಸುಧಾರಣೆ ಅಭಿವೃದ್ಧಿ.

## VISION

*" A University stands for humanism,  
for tolerance, for reason, for the adventure of  
ideas and for the search of truth.  
It stands for the onward march of  
the human race for still higher objectives.  
If the universities discharge their duties adequately,  
then it is well with the Nation and People....."*

- Pandit Jawaharlal Nehru

ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯ

Gulbarga



University

ಮಹಾಶ್ವರಣಿಮಿ ವಾರ್ಷಿಕ ಘಟಕೀಕೃತ

Kalaburagi

The Thirty Sixth Annual Convocation

ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಂವಿಧಾನ ಸದಸ್ಯರಾದ ನಾವು

ರವೀಂದ್ರ ಎನ್.

ಅವರು ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ ಪದವಿಗೆ ಫೆಬ್ರವರಿ, 2018 ರಲ್ಲಿ ಅರ್ಹರಾದುದರಿಂದ ಅವರಿಗೆ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ  
(ಗಣಿತಶಾಸ್ತ್ರ)

ಪದವಿಯನ್ನು ಕೆಲಸುಕುಗಿಯಲ್ಲಿ 27ನೇ ಫೆಬ್ರವರಿ, ಎರಡು ಸಾವಿರದ ಹದಿನೆಂಟರಂದು ನೀಡಿದ್ದೇವೆ. ಈ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆ ಮತ್ತು ಕುಲಪತಿಗಳ ಹುಜುಗರದ ಇದನ್ನು ಪ್ರಮಾಣೀಕರಿಸಲಾಗಿದೆ.



We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and Members of the Academic Council and Syndicate of Gulbarga University certify that

**Raveendra N.**

has been found duly qualified in February, 2018 for the award of the degree of Doctor of Philosophy. Hence, the degree of

**DOCTOR OF PHILOSOPHY  
(Mathematics)**

has been conferred on him/her at Kalaburagi on  
27<sup>th</sup> February, Two Thousand Eighteen.

In testimony whereof are set the seal of the said University and the signature of the Vice-Chancellor.

ಕುಲಬರ್ಗಾ  
Kalaburagi

Office/Date: 27-02-2018



S.R. LR  
ಕುಲಪತಿ

Vice-Chancellor

ಗುಲಬರ್ಗಾ  
GULBARGA



ವಿಶ್ವವಿದ್ಯಾಲಯ  
UNIVERSITY

No.H001731

Reg. No.

14MAT15

CERTIFICATE OF COMPLETION OF Ph.D COURSE WORK

*This is to Certify that*

*Sri/Smt./Kum.* REVEENDRA N

*has successfully*

*completed Ph.D. course work in* MATHEMATICS

*prescribed by*

*Gulbarga University as per item 1.5 of regulations governing the  
award of Ph.D. degree (2011). He/she appeared for the Course*

*Work Examination conducted by the University during  
the month of* JULY, 2014 *and is declared to have*

*passed the examination and has securing* 74.00 *percentage  
of marks.*



GULBARGA

Date: 05/08/14

*Shri...*

REGISTRAR (Evaluation)

S.No. 17400050  
క్రమపంక్తి

Register No. PP.PHY.0178  
రిజిస్టర్ నెం.



# RAYALASEEMA UNIVERSITY

రాయలసీమ విశ్వవిద్యాలయము



FACULTY OF PHYSICAL & LIFE SCIENCES

ఫిజిక్స్ ఆండ్ ఫిజిక్స్ & లైఫ్ సైన్సెస్

*Royalaseema University hereby confers the Degree of*  
రాయలసీమ విశ్వవిద్యాలయం ఇందుమూలంగా పట్టా ప్రధానంచేస్తుంది

**DOCTOR OF PHILOSOPHY**

on K S KRISHNA KUMAR

Son / Daughter of SRINIVASA IYER K.S పుత్రుడు/పుత్రి

in recognition of his / her research work on GAMMA AND HEAVY ION IRRADIATION EFFECTS ON

ELECTRICAL CHARACTERISTICS OF ADVANCED SEMICONDUCTOR DEVICES.

అనే అంశంపై అతడు / ఆమె కొనసాగించిన పరిశోధనకు గుర్తింపుగా

In the Department of PHYSICS విభాగంలో

He / she having been found duly qualified for the same in JUNE-2017

అతడు / ఆమె తగిన అర్హత సాధించినట్లుగా ప్రకటించబడ్డారు.

Authar No.: 332366028836  
అధికారి సంఖ్య :

*Given under the Seal of the University*  
విశ్వవిద్యాలయ అధికారి ముద్రతో జారీ చేయబడ్డాయి.

Kurnool - 518 007. A.P., India.  
కర్నూలు-518 007, ఆంధ్రప్రదేశ్, భారతదేశము

Date: 21-10-2017  
తేదీ:



*[Signature]*  
Vice-Chancellor

ఉపకులపతి

ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,  
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

ಜೋಬಿಷ್ ಜೋನ್ಸ್

ಅವರು ೨೦೧೦ನೆಯ ವರ್ಷದ ಜುಲೈ ತಿಂಗಳಿನಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ  
೨೦೧೧ ರ ಎಪ್ರಿಲ್ ತಿಂಗಳ ಮೂವತ್ತನೇ ದಿನದಂದು ನಡೆದ ೨೯ನೆಯ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯದ ವಸ್ತು ವಿಜ್ಞಾನ

ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.

*We, the chancellor, the Pro-Chancellor, the Vice-Chancellor  
and the members of the Syndicate and Academic Council of Mangalore University  
do hereby make known that*

**JOBISH JOHNS**

*has been admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*at the 29th Convocation held on the 30th day of April 2011 on being duly certified to have  
qualified for the same in the month of July 2010*

*for the thesis / ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:*

**"DEVELOPMENT AND CHARACTERIZATION OF CHITOSAN/NATURAL RUBBER LATEX  
BLENDS"**

*in the faculty of Science and Technology under the Board of Studies in Materials Science*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.

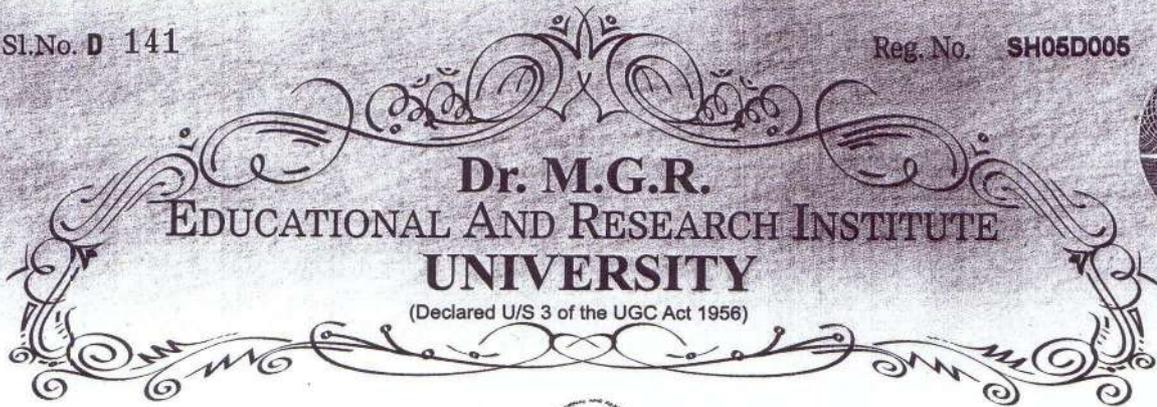
*Given Under the Seal of the University*



ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ, ಭಾರತ  
MANGALAGANGOTRI, KARNATAKA, INDIA

ದಿನಾಂಕ / Date: 30.04.2011

ಕುಲಪತಿ  
VICE-CHANCELLOR



**HUMANITIES & SCIENCES**

The Board of Management and the Academic Council of  
this University hereby make known that

**R.D. PRUTHVIRAJ**

has been admitted to the Degree of

**Doctor of Philosophy**

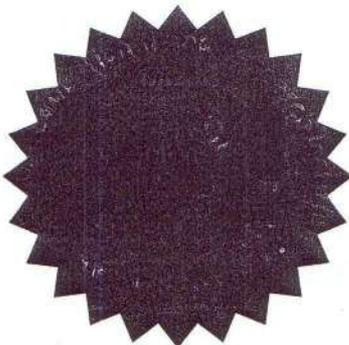
having completed all the Academic requirements and having been  
certified by duly appointed Examiners to be qualified to receive the

same in **APRIL 2010**

Title of the thesis :

**Corrosion Inhibition Studies of ZA-27 Alloy Reinforced with  
Silicon Carbide Particulates**

Given under the seal of the University



Chennai 600 095

03 - OCT - 2010

C. B. Palaniswami  
Registrar

*[Signature]*  
Vice-Chancellor

*[Signature]*  
President

Reg. No.

OPPHMB-022

Sl. No. 1700383

ద్రావిడ విశ్వవిద్యాలయం ద్రావిడ విశ్వవిద్యాలయం  
திராவிடப் பல்கலைக்கழகம் திராவிடப் பல்கலைக்கழகம்  
DRAVIDIAN UNIVERSITY



Srinivasavanam, Kuppam - 517425, Andhra Pradesh, India.

## Faculty of Commerce & Management

*This is to Certify that*

**RAVINDRA N S**

*Son/Daughter of SANJEEVA RAO N*

*has been certified by duly appointed Examiners*

*to be qualified to receive the Degree of*

**Doctor of Philosophy in Management**

*and has been admitted to that Degree*

*with effect from 10.10.2018*

**DEPARTMENT OF STUDY : MANAGEMENT**

**TITLE OF THE THESIS : "A Study on retail investors behavior during bull face on various avenues in Indian Market with special reference to Bangalore"**

*Given under the seal of the University*

**Dated : 25.10.2018**



*S. Lokanadha Reddy*  
**Vice-Chancellor**

No. : 46572

Aadhaar No. :



ದಾವಣಗೆರೆ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
DAVANGERE UNIVERSITY

ದಾವಣಗೆರೆ ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ,  
ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು

ಪರಮೇಶ್ವರಯ್ಯ ಪಿ

ಇವರನ್ನು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿ ಶಿಫಾರಸ್ಸಿನಂತೆ

ಆಡಳಿತ ನಿರ್ವಹಣಾಶಾಸ್ತ್ರ ದಲ್ಲಿ

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ

ಏಳನೇ ವಾರ್ಷಿಕ ಘಟಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.

ಅಧಿಸೂಚನೆಯ ದಿನಾಂಕ : 10-09-2020

ಘಟಕೋತ್ಸವದ ದಿನಾಂಕ : 30-09-2020

*We the Chancellor, the Pro-Chancellor, the Vice-Chancellor, the members  
of the Academic Council and Syndicate of Davangere University,  
certify that,*

**PARAMESHWARAI AH P.**

*on the recommendation of the Board of Examiners, admitted to the Degree of*

**Doctor of Philosophy**

**in BUSINESS ADMINISTRATION**

*in recognition of the fulfillment of requirements for the said Degree at the  
SEVENTH Annual Convocation.*

Date of Notification : 10-09-2020

Date of Convocation : 30-09-2020

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಿದೆ  
Given under the Seal of the University

ಶಿವಗಂಗೋತ್ರಿ, ದಾವಣಗೆರೆ-577 002

Shivagangotri, Davangere-577 002

ಕರ್ನಾಟಕ / Karnataka, ಭಾರತ / India.

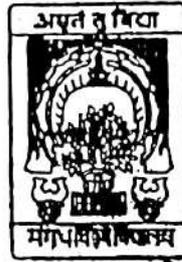
ದಿನಾಂಕ / Date: 30-09-2020

ಕ್ರಮ ಸಂ. / Sl. No. :



Registration No. 240875/05

# Magadh University



This is to Certify that *K. Sarvekumar*.....  
who having submitted his/her research thesis on *A Study of the Special  
Features of Management in Certain Classes of Companies in  
India (Under the Companies Act, 1956)*.....  
for the degree of Doctor of Philosophy for examination in the faculty  
of *Management*..... held in the month  
of *July 2008*..... was admitted this day to the degree.

MAGADH UNIVERSITY, BODH-GAYA

12 AUG 2008

Date.....

*Birendra Nath*

Vice-Chancellor

# KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION

(Deemed to be University)  
(Under Section 3 of UGC Act 1956)



Register No.

201606122

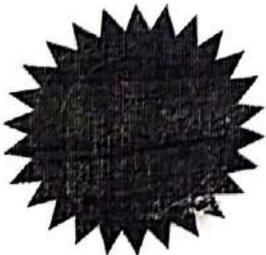
The Board of Management of the Kalasalingam Academy of Research and Education hereby makes known that Mr/Ms SUBBURAJ T has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **FACULTY OF COMPUTER APPLICATIONS** having been certified by the duly appointed examiners to be qualified to receive the same in the year 2019.

The degree has been awarded in compliance with the "University Grants Commission, Regulation 2016"

Title of the thesis:

**COUNTERMEASURES ON NETWORK TRAFFIC AGAINST DISTRIBUTED DENIAL OF SERVICE ATTACKS**

Given under the seal



Anand Nagar,  
Krishnankoil - 626 126,  
Tamil Nadu, India

Date: 04/01/2020

*M. Rajan*  
Controller of Examinations

*[Signature]*  
Registrar

*[Signature]*  
Vice - Chancellor



CMJ UNIVERSITY

CMJ UNIVERSITY

MEGHALAYA

Estd. 2009 under Section 21 of UGC Act 1956

CCC-7833

Doctor of Philosophy (Ph.D.)  
2012  
(Provisional Certificate)

This is to certify that the proposal for the Award Of Ph.D. Degree in the Subject Of  
Computer Science Under The Faculty of Technology  
To Shri Smitam B. Nani Thasad  
(Registration No.) 80187210105310, Year 2010-2012  
On the Topic: "A Study of Different Technologies  
for Hacking Website."

been Awarded by the University as per U.G. Gazette Notification Dated 17<sup>th</sup> July 17<sup>th</sup> July 2009

Shillong (Meghalaya)  
The 17<sup>th</sup> October 2012



J. adf  
Principal  
RAJARAJESWARI  
COLLEGE OF ENGINEERING  
Ramohalli Cross, Bengaluru-72

Registrar

அண்ணாமலைப்



பல்கலை

ANNAMALAI

UNIVERSITY



பொறியியற்புலம்

FACULTY OF ENGINEERING & TECHNOLOGY

00201855

ஏப்ரல், 2014 இல்

கணிப்பொறி அறிவியல் மற்றும் பொறியியல்

பிரிவில் நடத்திய தேர்வுகளில்

சுபாஷினி K

தேர்ச்சியடைந்து ஆய்வேட்டை மதிப்பிட முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினர் சான்றளித்தது.

ஆய்வியல் அறிஞர்

பட்டம் பெறுவதற்கு உரியவர் ஆகிறார்.

என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக் குழு இதன்வழி அறிவிக்கின்றது.

The Syndicate of the ANNAMALAI UNIVERSITY hereby makes known

that SUBASHINI K

has been admitted to

Degree of DOCTOR OF PHILOSOPHY in COMPUTER SCIENCE & ENGINEERING,

he/she having been certified by duly appointed Board of Examiners who value

his/her thesis to be qualified to receive the same in APRIL, 2014.

TITLE OF THE THESIS

AUDIO-VIDEO BASED INDEXING AND RETRIEVAL

பல்கலைக்கழக முத்திரை பெறுகின்றது  
Given under the seal of the University

அண்ணாமலைநகர்  
Annamalainagar

Dr. J. Vasantha Kumar  
பதிவாளர் (பொறுப்பு)

Shiv Das Meenu  
நிர்வாகி

# UNIVERSITY OF MYSORE

ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



UNIVERSITY OF MYSORE  
Mysore  
The University of Mysore  
Mysore  
Mysore

**DINESH R**

has been awarded the Degree of  
ಅವರು ನಿಗದಿತ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಉತ್ತೀರ್ಣರಾಗಿರುವುದರಿಂದ

**DOCTOR OF PHILOSOPHY**

in

**COMPUTER SCIENCE**

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ



on being duly certified to have passed the prescribed examination

ಪರವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರದಾನ ಮಾಡಲಾಗಿದೆಯೆಂದು ಪ್ರಮಾಣೀಕರಿಸುತ್ತೇವೆ

Given under the seal of the University

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ



Date of award  
ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
Mysore  
Sl No

09/01/2007

No 0197

Vice-Chancellor

# Annamalai

# University

Register No. : 2013107264



## PROVISIONAL CERTIFICATE

This is to certify that **VENKATARAMANA K**  
has passed the **Ph. D IN COMPUTER SCIENCE AND ENGINEERING**

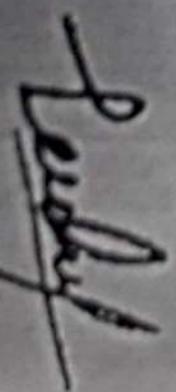
Examination held in **21.03.2017** and that he/she was

**THESIS TITLE: ENHANCED QOS IN MANETS USING ANALYSIS OF CHANNEL  
AWARE-ADMDV ROUTING PROTOCOL TO SECURE AND RELIABLE  
MULTIHOP WIRELESS NETWORK**

He/she has qualified himself / herself for the **Ph. D IN COMPUTER SCIENCE AND  
ENGINEERING**



Annamalai Nagar - 608002  
Date : 03/07/2017

  
Assistant Registrar (Examination)

# Cornell University

FNO: PGD095321



**Reg No: RV50007289**

has conferred on  
**Lokesh N S**  
the degree of  
**Doctor of Philosophy**  
in Computer Science

and all the rights and privileges thereunto appertaining  
In witness thereof, this degree duly signed has been  
issued and the Seal of the University affixed.  
Presented on the fifteenth day of  
July, two thousand and nine.



*Eddie K...*

President of the University

*Lim...*

Probst

*Flair...*

Executive Vice-President

*F...*

Dean



# ANNA UNIVERSITY

## CENTRE FOR RESEARCH

Sardar Patel Road, Chennai - 600 025, India



**Prof. R. JAYAVEL**, Ph.D.  
DIRECTOR

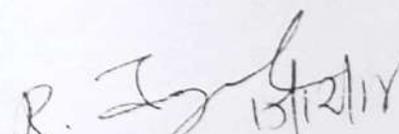
Ref : No. 20074022010/Ph.D./AR6

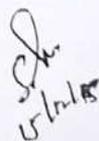
Date : 15.12.2015

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.M.Malathy**, Ph.D. Research Scholar in the Faculty of **Information and Communication Engineering**, Anna University, Chennai - 25 has successfully completed her Oral Examination held on **04.12.2015**. The Oral Examination Board has recommended the award of Ph.D. degree to **Ms.M.Malathy**.

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

  
DIRECTOR (RESEARCH)





## ENGINEERING AND TECHNOLOGY

The Board of Management and the Academic Council of  
this University hereby make known that

**SWARNA JYOTHI .L**

has been admitted to the Degree of

## Doctor of Philosophy

having completed all the Academic requirements and having been  
certified by duly appointed Examiners to be qualified to receive the  
same in **FEBRUARY 2011** ✓

Title of the thesis :

**DESIGN AND VERIFICATION OF REUSABLE VERIFICATION  
ENVIRONMENT WITH WRAPPERS FOR ETHERNET IP CORE  
AND OPEN RESOURCES**

Given under the seal of the University

# UNIVERSITY OF ALLAHABAD



Doctor of Philosophy in *Electronics & Communication Engineering*

This is to certify that *Venkatesh P. [unclear]*

is been admitted to the degree of Doctor of Philosophy

*in the subject of Communication Engineering* in this University in the

convocation of *2018* University of Allahabad.

*"An Effective Solution to Reduce Web Traffic and Packet Cost by using Proxy Servers"*

University of Allahabad:

The 20<sup>th</sup> March 2019.

*[Signature]*  
Vice Chancellor.



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ  
BANGALORE UNIVERSITY

Certifies that

Prasad, G. S.

has been duly admitted to the Degree of

ಅವರು

ಮಾಸ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ  
Master of Philosophy

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಉಪರೇಂದು ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ  
in recognition of the fulfilment of requirements

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಆ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ:  
for the said degree as follows:

ಪರೀಕ್ಷೆಯ ವರ್ಷ  
Year of Examination :

August 1992

ಅಧ್ಯಯನದ ವಿಷಯ  
Subjects :

Mathematics

ಪಡೆದ ವರ್ಗ  
Class :

First

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ.  
Given under the seal of the University.

ಬೆಂಗಳೂರು  
Bangalore

ದಿನಾಂಕ  
Dated January 10, 1994



*(Signature)*  
ಕುಲಪತಿ  
Vice-Chancellor



Faculty of ..... Science .....

The Senate of the UNIVERSITY OF MADRAS hereby makes known that

..... N. SATHYAN .....

has been conferred the Degree of Doctor of Philosophy,  
he/she having been certified by duly appointed examiners to be qualified to  
receive the same in the year .....1997..... for the thesis entitled

"AB Initio Study of Molecular Properties in Some Binary  
Systems involving Hydrogen Bonds" Biophysics-Physics (Inter-disciplinary)

Given under the seal of the University, at Madras this .....12th..... day of February 1997



*[Signature]*

*[Signature]*

P.T. Jeyaraj



**Dr. K Panneer Selvam**  
Joint Registrar (Academic)

INDIAN INSTITUTE OF SCIENCE  
BENGALURU-560 012, KARNATAKA INDIA  
Telephone: 091-80-22932706/2333/2233/2937  
Tele fax: 091-80-23600861/23601413  
E mail: [thesisengg@academic.admin.iisc.ernet.in](mailto:thesisengg@academic.admin.iisc.ernet.in)

R(II) 005/CiE

May 30, 2017

**CERTIFICATE**

This is to certify that **Mr. Manohar D R**, SR No: 07-05-01-10-12-11-1-08876, Ph D Student in the Department of **Civil Engineering** at the **Indian Institute of Science**, has successfully completed all the formalities including thesis defense on **05.05.2017** for the award of Ph D Degree of the Institute.

The title of his Ph D thesis is: **“Characterization of Sand-Rubber Mixture and Numerical Analysis for Vibration Isolation”**

The degree shall, however, be conferred at the next Council meeting of the Institute, which is likely to be held in the month of **June 2017**.

**Joint Registrar**  
Academic

**Dr. K. Panneer Selvam**  
Joint Registrar  
Indian Institute of Science  
Bangalore - 560 012





*This is to certify that*

*Vijay Kumar M H*

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

Faculty of Civil Engineering Sciences

*for the thesis entitled*

**Fracture Mechanics of Fiber Reinforced Concrete**

*in recognition of the fulfillment of requirements  
for the said degree*

PH<sub>13</sub> 001113

Given under the seal of the University

USN: 1BM08PCN02



BELGAUM  
DATE : January 09, 2018

  
VICE CHANCELLOR

Registration No.



092014CV09F03



National Institute of Technology Karnataka, Surathkal  
hereby confers the degree of

**Doctor of Philosophy**



on

Allamaprabhu S Kamatagi

in recognition of the research work on

*"Compatibility Of Blended Lithomargic Clay As Landfill Liner Materials"*

carried out in the Department of

**Civil Engineering**

and completed all the requirements

in November 2014

Given under the seal of the Institute,

on 15<sup>th</sup> November 2014

Registrar

Director

Chairperson, Board of Governors

Sl. No. PH14055

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ  
Bangalore University

A43-P4-181



FOR QUALITY & EXCELLENCE  
IN HIGHER EDUCATION



Accredited by NAAC

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor*  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
*the members of the Syndicate & Academic Council*

Certify that

*H. R. Yeshovanth* ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
*has been duly admitted to the Degree of*

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

*Faculty Of Engineering - Mechanical Engineering*

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವುದನ್ನು ಪರಿಗಣಿಸಿರುವುದರಿಂದ  
*in recognition of the fulfilment of requirements*

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಕೆಳಗೆ  
*for the said degree as indicated below*

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: ..... 2008 .....  
*Year of Award:*

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ : *"Weight Optimization and*  
*Subject: Damage Tolerance Studies of Integrally*  
*Bladed Disks of Aeroengines"*

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ

*Given under the seal of the University*

ಬೆಂಗಳೂರು  
*Bangalore.*

ದಿನಾಂಕ

*Date:* 19.01.2008

*H. R. Yeshovanth*  
ಕುಲಪತಿ  
*Vice-Chancellor*

CC075970

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR



ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

H.T.No: 0900PH0323

*Shankar M N*

*Shri Yanamala Narayanappa*

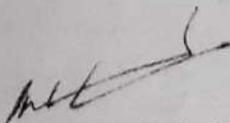
*having fulfilled the academic requirements in September, 2014 has this day been admitted by the Monitoring & Development Committee to the Degree of*

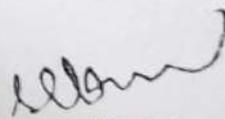
*Doctor of Philosophy*  
(Mechanical Engineering)

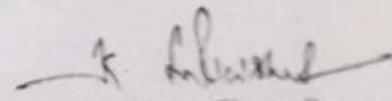
for the Thesis entitled,  
"CRYOGENIC TREATMENT TO ALUMINIUM - SILICON - MAGNESIUM ALLOY"

*Wednesday, 24 December, 2014.*

Given under the Seal of the University

  
Director of Evaluation

  
Registrar

  
Vice Chancellor

# SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

(A CHRISTIAN MINORITY INSTITUTION)

சத்யபாமா பல்கலைக்கழகம்

(பல்கலைக்கழக மானியக் குழு பிரிவு 3, சட்டம் 1956ன் கீழ் நிறுவப்பட்டது)

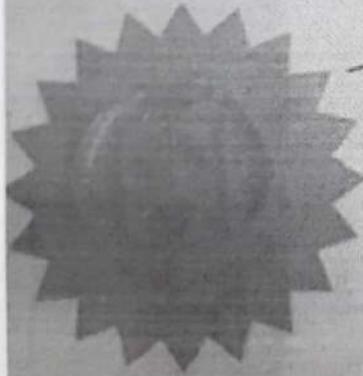
(கிறித்துவ சிறுபான்மையினர் கல்வி நிறுவனம்)

FACULTY OF MECHANICAL ENGINEERING



The Board of Management of Sathyabama University, hereby makes known that  
**SUBASH CHANDRA BOSE.R** has been conferred  
 the **DEGREE OF DOCTOR OF PHILOSOPHY**, having been certified by duly appointed  
 examiners to be qualified to receive the same in **April 2009**, for the thesis entitled  
**Study of combustion phenomena in petrol engine for proper development of power with less  
 knocking**  
 given under the seal of the university, at chennai this **EIGHTEENTH** day of  
**April 2009**.

Given under the seal of the University



*[Signature]*

Registrar

Director

*[Signature]*

Director

*[Signature]*

Vice-Chancellor



Jeppiaar Nagar, Chennai - 600119,  
Tamil Nadu, INDIA

Dated: April 18, 2009



# National Institute of Technology Tiruchirappalli

*hereby confers the degree of*

*Doctor of Philosophy*

*of the institute*

*on*

**SHEBA SELVAM**

*for successfully completing the prescribed programme  
of study and presenting the thesis entitled*

**HYBRID PHOTO CLUSTERING METHODOLOGIES FOR IMPROVING  
THE RETRIEVAL RELEVANCY IN SOCIAL EVENT DETECTION**

*at the viva-voce examination held on Sixteenth March 2017*

*Given this day the twelfth of August, 2017*

*Under the seal of the Institute*



TIRUCHIRAPPALLI - 620 015, INDIA



*A. S. Narayana*  
President

*Mevi Thomas*  
Director & Chairperson



# Bharath

Folio No. : D 14042

Institute of Higher Education and Research  
(Declared under section 3 of the UGC Act 1956)  
173, AGHARAM ROAD, CHENNAI-600 073, TAMIL NADU, INDIA

## PROVISIONAL CERTIFICATE

*for the degree of*

**DOCTOR OF PHILOSOPHY (Ph.D.)**  
**FACULTY OF ENGINEERING**



**Certified that**  
**BRITTORAJ S** (D12CS004)

*has successfully completed all prescribed requirements for the Degree of*

*Doctor of Philosophy (Ph.D.) of the University.*

**Branch**

**Computer Science**

**Part Time**

**The Date of Viva-Voce Examination:** 01-Nov-2018

*Real-Time security and privacy data  
transmission for preventing jamming attack*

**Title of the Thesis**

*\*The Degree has been awarded in accordance with the provision of UGC regulation on  
M.Phil / Ph.D -2009*

Date : 26 NOV 2018 Registrar



*MA Kumar*  
Controller of Examinations