



**(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)**

**S.P.G.Chidambara Nadar - C.Nagammal Campus**

**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**



## **NAAC CRITERION 2**

### **Teaching – Learning & Evaluation**

**2.4.2 - Number of full-time teachers with PhD/ D.M. /  
M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the  
year 2023-2024**

**[Proofs]**

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**Engineering  
And  
Technology**



Reg.No. 2004479728/RG

*The Syndicate of the Anna University hereby makes known that MUTHUSELVI R 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:*

**A GENETIC ALGORITHM BASED APPROACH FOR MULTI-OBJECTIVE OPTIMIZATION OF REAL-TIME SCHEDULING**

*Given under the Seal of the University*



(18)

# Anna University



Reg.No. 2014UC04001

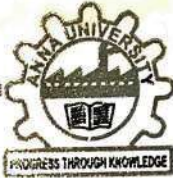
*The Syndicate of the Anna University hereby notify known that MEENAKSHI A has been admitted to the DEGREE OF DOCTOR OF PHILOSOPHY under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2014. The degree has been awarded in compliance with the University Grants Commission, Regulations 2009.*

*Title of the Thesis:*

**DEVELOPING KNOWLEDGE STORAGE AND INFORMATION RETRIEVAL SYSTEMS FOR EDAPHOLOGY**

*Given under the Seal of the University*

# Anna University



Reg.No. 20117401069/RG

The Syndicate of the Anna University hereby makes known that **RAMYA R** 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 **2020**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

Title of the Thesis:

**FACIAL EXPRESSION RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK BASED APPROACH FOR 3D FACIAL IMAGES**



Given under the Seal of the University

Chennai 600 025  
India  
March 2021  
RAMYA R

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

# Anna University

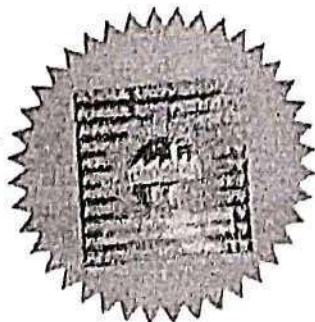


Ref. No. 20117401066/RG

The Syndicate of the Anna University hereby makes known that ANANDH 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 2020. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

Title of the Thesis:

**CONTENT BASED IMAGE RETRIEVAL WITH USER RELEVANT FEEDBACK**



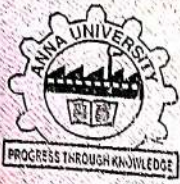
Given under the Seal of the University

Chennai 600 025  
India  
March 2021

Controller of Examinations

Registrar

Vice-Chancellor



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE


Folio No.: SAR014173

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 : NIRMALA G  
Registration Number : 1324479138  
Degree : Ph.D.  
Department/Centre/Subject : COMPUTER SCIENCE AND ENGINEERING  
Faculty : INFORMATION AND COMMUNICATION ENGINEERING  
Date, Month & Year of Viva-Voce Examination held : 12.08.2021  
Title of the Thesis : OPTIMAL PATH PLANNING TECHNIQUES WITH OBSTACLE AVOIDANCE THROUGH REINFORCEMENT LEARNING



Chennai - 600 025  
Date: 05-OCT-2021

  
Controller of Examinations



# Anna University



Reg.No. 16234797441/RG

The Syndicate of the Anna University hereby makes known that **UMA MAHESWARI G** 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 **2020**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".


*Title of the Thesis:*

**PERFORMANCE ANALYSIS OF FLOW MANAGEMENT IN SOFTWARE DEFINED NETWORK**



*Given under the Seal of the University*

Chennai 600 025  
India  
March 2021  
BARB1-077

  
Controller of Examinations  
UMA MAHESWARI G

  
Registrar

  
Vice-Chancellor  
THIRU. G. S. SIVARAJAN

# Anna University



Reg.No.2012141022/RG

The Syndicate of the Anna University hereby makes known that **MAHALAKSHMI G** 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 **2019**. The degree has been awarded in compliance with the **“University Grants Commission, Regulations 2009”**.

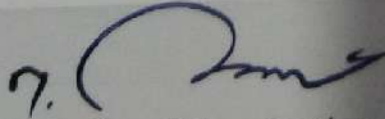
*Title of the Thesis:*

**DESIGN AND DEVELOPMENT OF ATTACK DETECTION MECHANISMS  
IN WIRELESS SENSOR NETWORK**

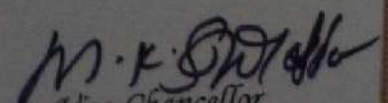
*Given under the seal of the University*



Chennai 600025  
India  
December 2019  
QAB01422

  
Controller of Examinations  
MAHALAKSHMI G

  
Registrar

  
Vice-Chancellor



(Deemed-to-be-University under section 3 of the UGC Act 1956)

**Noorul Islam University**

Reg. No.: **0112908209**

The Board of Management of the **Noorul Islam Centre for Higher Education** hereby makes known that **KUMARAN U** has been admitted to the **Degree of Doctor of Philosophy** in **COMPUTER SCIENCE AND ENGINEERING** under the *Faculty of Information and Computer Engineering*, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same in **August 2017**.

*Title of the Thesis:* **AN EFFICIENT SCHEME FOR VERTICAL HANDOVER DECISION ALGORITHM BASED ON MULTIPLE ATTRIBUTES IN VEHICULAR AD-HOC NETWORK.**



Aadhaar Number



3756 4958 3075

*Given under the seal of the University*

NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE

26-09-2017

Dated :



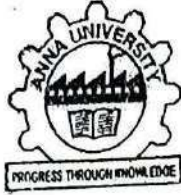
Kumaracoil-629 180  
Kanyakumari Dist.,  
Tamilnadu,  
India.

*[Signature]*  
Controller of Examinations

*[Signature]*  
Registrar

*[Signature]*  
Vice-Chancellor

# Anna University



Reg.No. 2006479701/RG

The Syndicate of the Anna University hereby makes known that **SURESH BABU R** 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 **2014**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

*Title of the Thesis:*

**SPECTRUM SENSING AND SPECTRUM MANAGEMENT IN SPACE TIME BLOCK CODED - OFDM BASED COGNITIVE SYSTEM**



Given under the Seal of the University

2014  
November 2014  
Controller of Examinations  
2006  
2014

# Anna University



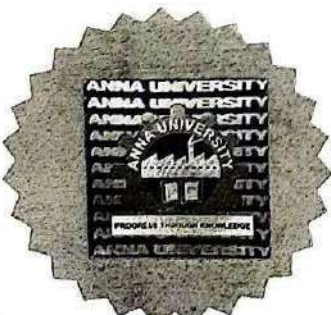
Reg. No.:2003479731/RG

The Syndicate of the Anna University hereby makes known that **GEETHA PRIYA C** 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 **2010**.

Title of the thesis:

**SYNCHRONIZATION TECHNIQUES FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING IN WIRELESS LOCAL AREA NETWORK**

Given under the Seal of the University



Chennai 600 025  
India

December 2010 Controller of Examinations

CAR/14/59

*V. Srinivasan*

Controller of Examinations

*Srinivasan*  
Registrar

*Srinivasan*  
Vice-Chancellor

11th Floor, Anna University, Chennai-600 025



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: RAR014250

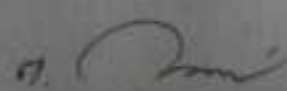
This is to certify that the candidate has qualified for the award of *Degree of Doctor of Philosophy* in compliance of the UGC Regulations 2009 as detailed below:

Name : GEETHA A  
Registration Number : 1224479803  
Degree : Ph.D.  
Department/Centre/Subject : ELECTRONICS AND COMMUNICATION ENGINEERING  
Faculty : INFORMATION AND COMMUNICATION ENGINEERING  
Date, Month & Year of Viva-Voce :  
Examination held : 09.03.2020  
Title of the Thesis : DEVELOPMENT OF AUTOMATIC GENDER CLASSIFICATION ALGORITHMS FOR PERSON SPECIFIC IDENTIFICATION



Chennai - 600 025

Date: 05-JUN-2020

  
Controller of Examinations



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: RAR014144

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 : VENKATESAN R S  
Registration Number : 2011140008  
Degree : Ph.D.  
Department/Centre/Subject : ELECTRONICS AND COMMUNICATION ENGINEERING  
Faculty : INFORMATION AND COMMUNICATION ENGINEERING  
Date, Month & Year of Viva-Voce Examination held : 27.01.2020  
Title of the Thesis : EVALUATING RUN-TIME TECHNIQUES FOR LEAKAGE POWER REDUCTION IN NANOSCALE CMOS VLSI SYSTEMS



Chennai - 600 025

Date: 27 FEB 2020

  
Controller of Examinations

# Anna University



Reg.No. 1324489733/RG

The Syndicate of the Anna University hereby makes known that **PANDI SELVI T** 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 **2020**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

Title of the Thesis:

**A FRAMEWORK FOR SEGMENTATION AND VOLUME ESTIMATION OF TUMOR IN MAGNETIC RESONANCE IMAGES OF BRAIN**

Given under the Seal of the University





# Anna University



Reg.No. 1324389106/RG

*The Syndicate of the Anna University hereby makes known that*  
**JEYALAKSHMI V** *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 2020. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*


*Title of the Thesis:*

**IMPROVING THE CAPACITY OF WIRELESS NETWORKS USING PHYSICAL LAYER NETWORK CODING**



*Given under the Seal of the University*

Chennai 600 025  
India  
March 2021  
KARUNAKARI

  
Controller of Examinations  
JEYALAKSHMI V

  
Registrar

  
Vice-Chancellor  
K. S. SIVAKUMAR

# Anna University



Reg.No. 1324479201/RG

The Syndicate of the Anna University hereby makes known that **MARY SINDHUJA N M** 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 **2021**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".


*Title of the Thesis:*

**REDUCED SIZE RADIO FREQUENCY PHASE SHIFTERS FOR 5G SYSTEMS**



*Given under the Seal of the University*

Chennai 600 025  
India  
March 2021  
RAR014157

  
Controller of Examinations  
MARY SINDHUJA N M

  
Registrar

  
Vice-Chancellor



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: SAR014108

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 : PRATHIBA T

Registration Number : 1324419788

Degree : Ph.D.

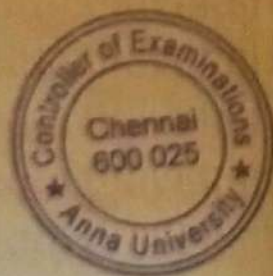
Department/Centre/Subject : ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty : INFORMATION AND COMMUNICATION ENGINEERING

Date, Month & Year of Viva-Voce : 16.07.2021

Examination held : 16.07.2021

Title of the Thesis : DEVELOPMENT OF ALGORITHMS FOR CONTENT BASED VIDEO RETRIEVAL USING VISUAL AND AUDIO DESCRIPTORS



87.

Chennai - 600 025

Controller of Examinations

Date: 18-AUG-2021

# Anna University



Reg. No.1524489304/RG



The Syndicate of the Anna University hereby makes known that **NISHA RANI S** 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 **2023**. The degree has been awarded in compliance with the **“University Grants Commission, Regulations 2009”**.

*Title of the Thesis:*

**INVESTIGATIONS ON ENERGY EFFICIENCY IN MASSIVE MIMO SYSTEMS USING BIO-INSPIRED OPTIMIZATION ALGORITHMS**

*Given under the seal of the University*



Chennai 600025  
India  
September 2023

*P. Senthil*  
Controller of Examinations

*Dr. S. S. Senthil*  
Registrar

*R. V. V. V. V.*  
Vice-Chancellor

# Anna University



Reg. No.:2003379103/RC

The Syndicate of the Anna University hereby makes known that **JEYADEVI S** 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 2011.

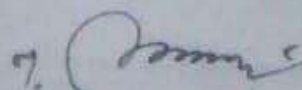
*Title of the thesis:*

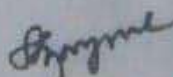
**EVOLUTIONARY ALGORITHMS BASED SOLUTION TO REACTIVE POWER PLANNING AND DISPATCH PROBLEMS WITH SECURITY CONSTRAINTS**

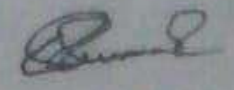
*Given under the Seal of the University*



Chennai 600 025  
India  
January 2012

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

# Anna University



Reg.No. 1314389730/RG

*The Syndicate of the Anna University hereby makes known that **RAJAVEL A** 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 **2021**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*

*Title of the Thesis:*

**FUZZY LOGIC AND ARTIFICIAL NEURAL NETWORK BASED  
MAXIMUM POWER POINT TRACKING IN PHOTO-VOLTAIC ARRAY  
UNDER PARTIAL SHADING CONDITIONS**

*Given under the Seal of the University*



Chennai 600 025  
India  
July 2022  
SAMB13124

*P. Sankaranarayanan*  
Controller of Examinations

*J. R. J.*  
Registrar

*R. V. Vijayaraj*  
Vice-Chancellor

# Die Montanuniversität Leoben

verleiht

kräft des ihr durch die kaiserliche Entschliebung vom 31. Juli 1904 erteilten Rechtes

unter dem Rektorat des Ordentlichen Universitätsprofessors

Dipl.-Ing. Dr. mont. Franz JEGLITSCH

Herrn

## C. T. Vijayakumar

B.Sc. und M.Sc. der Madras Universität

Ph.D. der Madras Universität

geboren am 12. Mai 1952 in Sivakasi, Indien

den Titel und die Würde eines

### Doktors

#### der montanistischen Wissenschaften

nachdem er im ordnungsmäßigen Promotionsverfahren durch die Dissertation

„INVESTIGATIONS ON THE THERMAL DEGRADATION OF POLYESTERS“

sowie durch die strenge Prüfung seine wissenschaftliche Befähigung erwiesen hat.

Leoben, am 1. Juli 1988

Der Rektor:

*D. Univ.-Prof. Dipl.-Ing. Dr. mont. F. Jeglitsch*

Der Promotor:

*D. Univ.-Prof. Dipl.-Ing.  
Dr. mont. F. Jeglitsch*

Der Prüfer:

*D. Univ.-Prof. Dr.-Ing. U. G. ...*

# Mahatma Gandhi University

(Established by Kerala State Legislature by Notification No. 3431/Leg.C1/85/Law, dated 17th April 1985)



## FACULTY OF SCIENCE

*The Syndicate of the Mahatma Gandhi University  
hereby makes known that*

**Sri. S. GANDHI**

*has been admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*in*  
**Chemistry**

*he having been certified by duly appointed examiners to be qualified to  
receive the same.*

*Title of the Thesis : Structural, Mechanical and Thermal Properties of  
PVA-metal oxide Nanocomposites*

*Given under the seal of the University*

Date of Syndicate Decision:19-07-2014

University Buildings  
Priyadarshini Hills P.O.  
Kottayam - 686 560  
Kerala, India

Dated : 08-December-2014



*[Signature]*  
Vice-Chancellor



# Anna University



Reg. No.:2003719749/RG

The Syndicate of the Anna University hereby makes known that **VINAYAGAMOORTHY S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Science and Humanities, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2010.

*Title of the thesis:*

**SYNTHESIS, CHARACTERIZATION AND THERMAL STUDIES OF BISPROPARGYL ETHER - BISMALIMIDE BLENDS**

*Given under the Seal of the University*



Chennai 600 025  
India  
December 2010

*V. Jayaram*  
Controller of Examinations

*Shanmugam*  
Registrar

*Chinnadurai*  
Vice-Chancellor

# Anna University



Reg. No.: 2004519101/RG

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

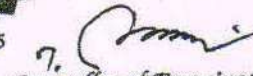
Title of the thesis:

**UNSATURATED POLYESTER / INORGANIC MINERAL NANOCOMPOSITES - PREPARATION AND PROPERTIES**


Given under the Seal of the University



Chennai 600 025  
India  
January 2012

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

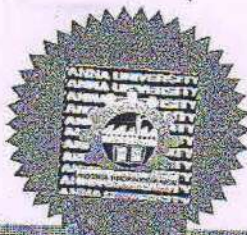
# Anna University



Reg.No. 95910508002/RG

The Syndicate of the Anna University hereby makes known that **SRI BALA M G** has been admitted to the **DEGREE OF MASTER OF TECHNOLOGY** in **POLYMER TECHNOLOGY** under the Faculty of Technology, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same, and has been placed in **FIRST CLASS WITH DISTINCTION** at the Examination held in **JUNE 2012**.

Given under the Seal of the University



Chennai 600 025  
India  
March 2013

*[Signature]*  
Controller of Examinations

*[Signature]*  
Registrar

*[Signature]*  
Vice-Chancellor

# Anna University



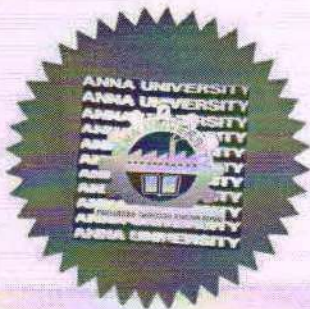
Reg.No.1414289757/RG

The Syndicate of the Anna University hereby makes known that **PONPRAPAKARAN K** 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 **2019**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".


*Title of the Thesis:*

**STUDIES ON ELECTRICALLY CONDUCTING POLY(ANILINE) BASED CO-POLYMER NANOCOMPOSITES**

*Given under the seal of the University*



Chennai 600025  
India  
December 2019  
04161226

  
Controller of Examinations

PONPRAPAKARAN K

  
Registrar

  
Vice-Chancellor



Reg. No.:2004479706/RG

The Syndicate of the Anna University hereby makes known that **SUBATHRA P** 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 2010.

Title of the thesis:

**A CLUSTER BASED RELIABLE GROUP COMMUNICATION FOR SECURE MANET**

Given under the Seal of the University



Chennai 600 025  
India  
December 2010. *Controller of Examinations*

*V. Anand*

*Registrar*

*Vice-Chancellor*



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: RAR014106


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 : VAKAIMALAR E  
Registration Number : 20117401065  
Degree : Ph.D.  
Department/Centre/Subject : COMPUTER SCIENCE AND ENGINEERING  
Faculty : INFORMATION AND COMMUNICATION ENGINEERING  
Date, Month & Year of Viva-Voce Examination held : 10.01.2020  
Title of the Thesis : MULTIFOCUS IMAGE FUSION FRAMEWORK USING DISCRETE COSINE TRANSFORM AND SPATIAL FREQUENCY



Chennai - 600 025

Date: 06-FEB-2020

  
Controller of Examinations

# Anna University



Reg.No. 20117401067/RG

The Syndicate of the Anna University hereby makes known that **ARTHY R** 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 **2020**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

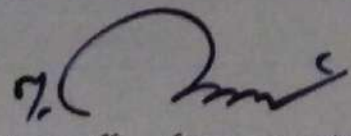
Title of the Thesis:

**BLIND ROBUST SPATIAL DOMAIN WATERMARKING FOR 3D OBJECTS**

Given under the Seal of the University



Chennai 600 025  
India  
March 2021  
ANU004007

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor  
ANU004007

# Anna University



Reg.No. 20074022001/RG

*The Syndicate of the Anna University hereby makes known that*  
**AGHILA R** *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* **2015**. *The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*

*Title of the Thesis:*

**SCHEDULING PARADIGMS FOR JOB EXECUTION IN MOBILE GRID ENVIRONMENT**

*Given under the Seal of the University*







சென்னை, 600 073, இந்தியா

# பாரதிதாசன் பல்கலைக்கழகம் BHARATHIDASAN UNIVERSITY

(Established by the Government of Tamil Nadu in 1982, Recognized by UGC under 2f and 2B of UGC Act,  
Member, Association of Indian Universities and Association of Commonwealth Universities, Accredited by NAAC with 'A' Grade)

## அறிவியல் புலம் FACULTY OF SCIENCE

பாரதிதாசன் பல்கலைக்கழக ஆட்சிக்குழு ஜூலை 2007

ஆம் ஆண்டு இரா. சியாம் குமார் / என்பவர்  
புண்ணுயிரியல் / (சீவில்) முனைவர் / என்னும்

பட்டத்திற்குத் தகுதி பெற்றவர் என்று தனது தேர்வாளர்கள் சான்றளித்தபடி, முனைவர்  
என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக இலச்சிணையுடன் வழங்குகிறது.

The Syndicate of the BHARATHIDASAN UNIVERSITY hereby makes  
known that R. SHYAM KUMAR / has been admitted  
to the Degree of DOCTOR OF PHILOSOPHY, / in the subject  
MICROBIOLOGY, / having been certified by duly  
appointed Examiners to be qualified to receive the same in  
JULY 2007. /

Thesis Title

"DIVERSITY AND CHARACTERIZATION OF CYANOBIONTS IN THE  
LICHENS OF YERKAUD AND KOLLIHILLS, TAMIL NADU (INDIA)"



Given under the seal of the University.

திருச்சிராப்பள்ளி  
Tiruchirappalli

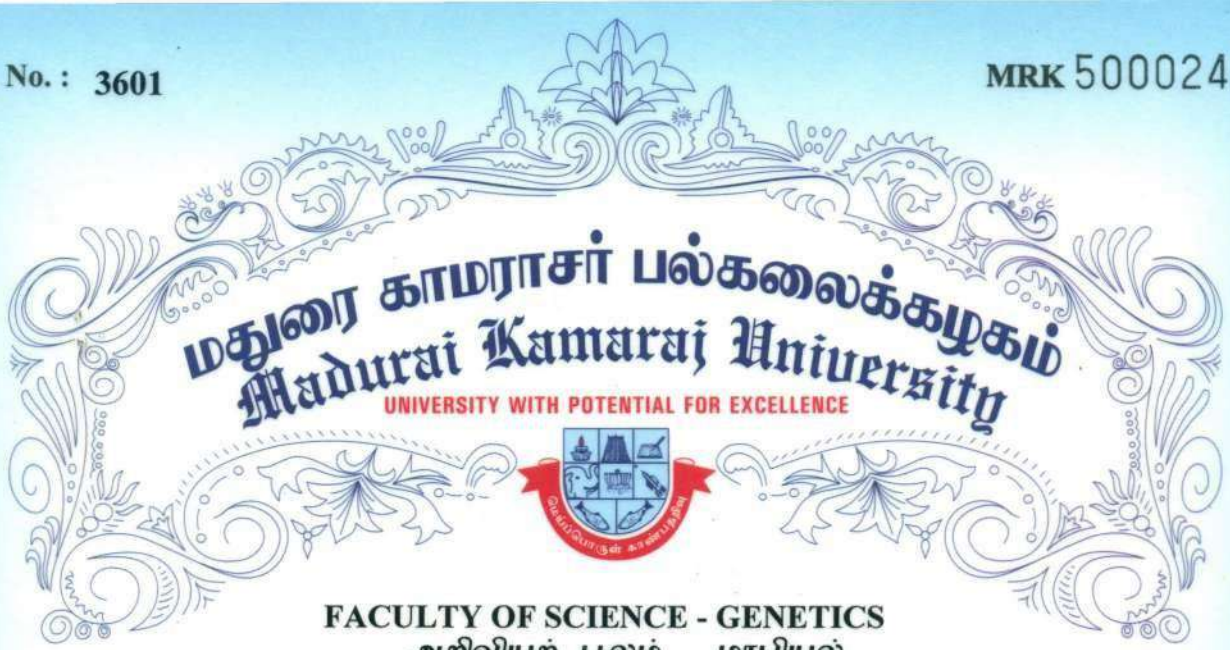
தாள் /  
Dated : 12th October 2007

B 009452 ISSUED ON

Registrar

Vice-Chancellor

12 OCT 2007



## FACULTY OF SCIENCE - GENETICS

அறிவியற் புலம் - மரபியல்

2012 ஆம் ஆண்டில் மதுரை காமராசர் பல்கலைக்கழகத்தில்

ஆய்வு நிகழ்த்தி வழங்கிய ஆய்வேட்டுக்காக 08-12-2011 நாளன்று முனைவர் பட்டம்

பெறத் தகுதியுடையவர் என்று தக்க தேர்வாளர்களால் சான்றளிக்கப்பட்டு

கீதா, க.

என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று மதுரை காமராசர் பல்கலைக்கழக ஆட்சிப் பேரவை அறிவிக்கின்றது.

மதுரை காமராசர் பல்கலைக்கழக இலச்சினையுடன், மதுரையில் 2012 ஆம் ஆண்டு

மார்ச் திங்கள் 28 ஆம் நாள் அளிக்கப்பட்டது.

The Senate of the Madurai Kamaraj University hereby makes known that

GEETHA, K.

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 as on 08-12-2011

Given under the seal of the Madurai Kamaraj University, at Madurai this 28<sup>th</sup> day of March 2012

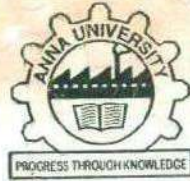
Title of the Thesis :

"XYLANASE FROM *Bacillus Pumilus* B20: PRODUCTION, CHARACTERIZATION AND ITS APPLICATION FOR XYLO-OLIGOSACCHARIDE PRODUCTION".

Subject Area : GENETICS



# Anna University



Reg.No. 4080073101/RG

*The Syndicate of the Anna University hereby makes known that*  
**GANESH MOORTHY I** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the Faculty of Technology, 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:*

**PRODUCTION OF AN EXTRACELLULAR ALKALINE PROTEASE FROM ALKALOPHILIC Bacillus species BGS: CHARACTERIZATION AND APPLICATIONS**



*Given under the Seal of the University*

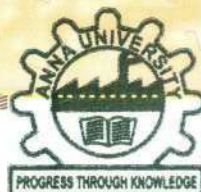
Chennai 600 025  
India  
November 2014  
K-080801

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor  
16/NOV/2014 16:00:00 10/11/2014

# Anna University



Reg.No.20117701005/RG

The Syndicate of the Anna University hereby makes known that **KARTHIKUMAR S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Technology**, 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:*

**PRODUCTION, PURIFICATION AND CHARACTERIZATION OF MICROBIAL LIPASE AND ITS APPLICATIONS IN BIOTRANSFORMATION REACTIONS**

*Given under the seal of the University*



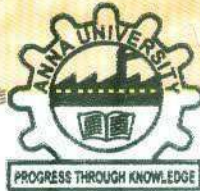
Chennai 600025  
India  
December 2018  
PAR01000

  
Controller of Examinations  
KARTHIKUMAR S

  
Registrar

  
Vice-Chancellor  
VENKATESWARAN MAYAMONNAMMAL

# Anna University



Reg.No.20117701007/RG

The Syndicate of the Anna University hereby makes known that **MARIAAMALRAJ S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Technology**, 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:*

**OPTIMIZATION OF PRODUCTION OF BIOSURFACTANT FROM MICROORGANISM AND ITS APPLICATION IN BIOREMEDIATION**

*Given under the seal of the University*



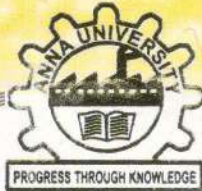
Chennai 600025  
India  
December 2018  
PAR015066

  
Controller of Examinations  
MARIAAMALRAJ S

  
Registrar

  
Vice-Chancellor  
E2024A669666C071616D06D79C

# Anna University



Reg. No.1424589711/RG



The Syndicate of the Anna University hereby makes known that **PRADIBA D** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Technology**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2020**. The degree has been awarded in compliance with the “**University Grants Commission, Regulations 2009**”.


*Title of the Thesis:*

**IDENTIFICATION OF FLAVONOIDS AS INHIBITORS OF MATRIX METALLOPROTEINASE-9 FOR THE MANAGEMENT OF RHEUMATOID ARTHRITIS: IN-SILICO AND IN-VITRO STUDIES**

*Given under the seal of the University*

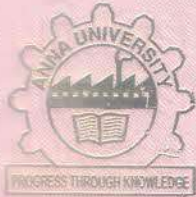


Chennai 600025  
India  
March 2021  
RAR015015

  
Controller of Examinations  
PRADIBA D

  
Registrar

  
Vice-Chancellor  
1004709880TECHNICALS@ANNAU



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: RAR015060

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 : RONALDO ANUF A  
Registration Number : 1513589126  
Degree : Ph.D.  
Department/Centre/Subject : BIOTECHNOLOGY  
Faculty : TECHNOLOGY  
Date, Month & Year of Viva-Voce Examination held : 24.07.2020  
Title of the Thesis : DEVELOPMENT OF OPTIMAL STRATEGY FOR THE PRODUCTION OF BIOETHANOL FROM *PROSOPIS JULIFLORA*



Controller of Examinations

Chennai - 600 025

Date: 17-SEP-2020



# Indian Institute of Technology Madras

*herely confers the degree of*  
**Doctor of Philosophy**  
*of the Institute*  
*on*

**S KALYANI**

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

**A UNIFIED APPROACH FOR SECURITY ASSESSMENT  
OF POWER SYSTEMS USING PATTERN CLASSIFIERS**



EE07D016



*Given this day the Twentysecond of July, 2011*  
*under the seal of the Institute.*

*[Signature]*  
Registrar

*[Signature]*  
Director

*[Signature]*  
Chairman, Board of Governors





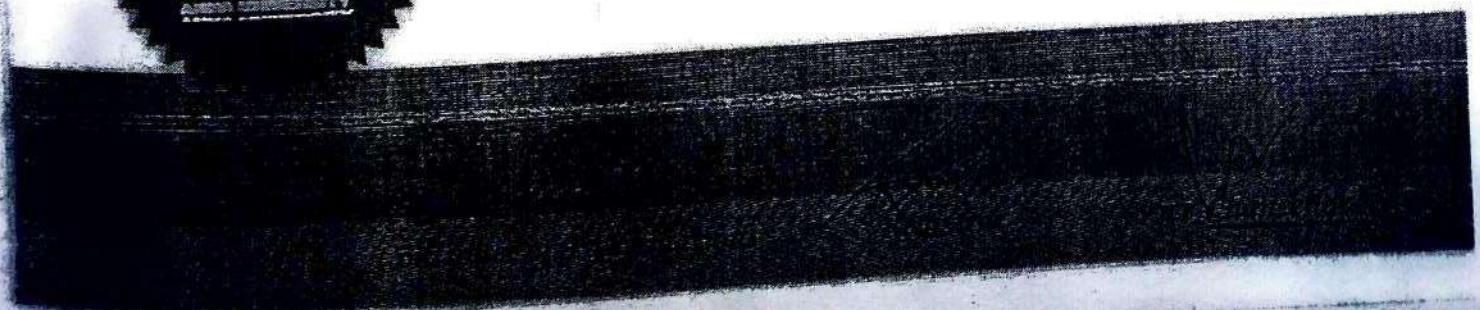
Reg.No. 2011130032/RG

*The Syndicate of the Anna University hereby makes known that*  
**PRINCE WINSTON D** *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 2013.*

*Title of the Thesis:*

**CERTAIN INVESTIGATIONS ON ENERGY CONSERVATION IN AC  
AND DC MOTOR DRIVES**

*Given under the Seal of the University*



# Anna University



Reg.No.2010730107/RG

The Syndicate of the Anna University hereby makes known that **SUDALAIMANI M** 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 2018. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

Title of the Thesis:

**PERFORMANCE ENHANCEMENT OF CONTROLLERS FOR PWM BOOST RECTIFIER**

Given under the seal of the University



Chennai 600025  
India  
December 2018  
P.LIN.1200

*[Signature]*  
Controller of Examinations

*[Signature]*  
Registrar

*[Signature]*  
Vice-Chancellor

# Anna University



Reg.No.1324379701/RG

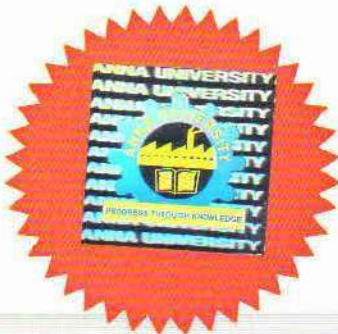


The Syndicate of the Anna University hereby makes known that **JESLIN DRUSILA NESAMALAR J** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Electrical Engineering**, having been certified by the duly appointed examiners to be qualified to receive the same in the year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

*Title of the Thesis:*

**CONGESTION MANAGEMENT WITH RENEWABLE ENERGY GENERATION USING SWARM INTELLIGENT TECHNIQUES**

*Given under the seal of the University*



Chennai 600025

India

June 2018  
PAR03128

  
**Controller of Examinations**  
JESLIN DRUSILA NESAMALAR J

  
**Registrar**

  
**Vice-Chancellor**  
T02A11C3J0701A1P03A48579491

# Anna University



Reg.No. 1414389706/RG



The Syndicate of the Anna University hereby makes known that **GURUKARTHIK BABU B** 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 **2020**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".


Title of the Thesis:

**DEVELOPMENT AND TESTING OF NANO COMPOSITE BASED INSULATING MATERIAL USING GREEN FIBRE**

Given under the Seal of the University



Chennai 600 025  
India  
March 2021  
R.A. 2021/146

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor



**ANNA UNIVERSITY::CHENNAI - 25**

Department of Electrical and Electronics Engineering  
Kamaraj College of Engineering and Technology  
Virudhunagar - 625701



Printed Date : 23-12-2023 09:06:37-am

DH : AR6

**Notification for Ph.D. Public Viva-Voce Examination**

**Name of the Scholar** : Ganesan K

**Registration Number** : 20143891154

**Degree / Category** : Ph.D. / Part-Time

**Faculty** : Electrical Engineering

**Title of the Thesis** : Performance Enhancement of Bifacial Solar Photovoltaic System

**Date and Time of Viva-Voce Examination** : 23.01.2024 & 12:05-pm

**Venue** : Academic Block IV - First Floor Conference Hall  
Department of EEE  
Kamaraj College of Engineering and Technology, Madurai  
Tamilnadu-625701

**Name and Address of the Supervisor** : Dr.D.Prince Winston  
Professor  
Department of Electrical and Electronics Engineering  
Kamaraj College of Engineering and Technology  
Virudhunagar - 625701

**Name and Address of the Joint Supervisor/Additional Supervisor/Research Co-ordinator/Supervisor In-charge** : Not Applicable

All are cordially invited to attend the Ph.D. Public Viva-Voce Examination

Date : 23-12-2023

Place : Kamaraj College of Engineering and Technology, Madurai , Tamilnadu-625701

Signature of the Supervisor  
(Name,date and seal)

Signature of the Joint Supervisor /  
Additional Supervisor / Research Co-  
ordinator / Supervisor In-charge  
(Name,date and seal)  
(If applicable)

Signature of the HoD/Director of the Centre of the Supervisor  
(Name,date and seal)

**Dr. D. Prince Winston, M.E., Ph.D.,**  
Professor, Department of EEE,  
Kamaraj College of Engineering & Technology,  
K. Vellakulam - 625 701.

**Head of the Institution of the Supervisor**  
(Signature with name,date and seal)  
(if applicable)

**Dr. D. Prince Winston, M.E.,Ph.D.,**  
HoD Department of EEE,  
Kamaraj College of Engg & Tech. (Autonomous)  
K. Vellakulam - 625 701.

**Copy to :**

- Personal Secretary to Vice Chancellor, Anna University, Chennai - 25.
- Personal Assistant to Registrar, Anna University, Chennai - 25.
- The Controller of Examinations, Anna university, Chennai - 25.
- The Additional Controller of Examinations, Anna university, Chennai - 25.
- The Director, Centre for Research, Anna University, Chennai - 25.
- The Director, Ramanujan Computing Centre, Anna University, Chennai - 25.
- Dean / Director/ Principal of Government, Government Aided and Affiliated Engineering Colleges.
- Kamaraj College of Engineering and Technology, Madurai - 625701

**S. S. SENTHIL, M.E.,Ph.D.,**

PRINCIPAL

KAMARAJ College of Engineering and Technology  
(Autonomous)  
C. Nagammal Campus,  
K. Vellakulam - 625 701.  
(VIRUDHUNAGAR).



राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut



*Upon the recommendation of the Senate hereby confers on*

**SENTHIL.S**

*the degree of*

*Doctor of Philosophy*

*in the year 2014*

*Based on the thesis entitled:*

*"ANALYSIS OF DECISION PROBLEMS IN REVERSE LOGISTICS NETWORKS USING HYBRID MULTI-CRITERIA DECISION MAKING METHODS"*

*Given at the National Institute of Technology Calicut*

*on 10<sup>th</sup> January, 2015*

*[Signature]*  
Registrar

*[Signature]*  
Director

*[Signature]*  
Chairperson

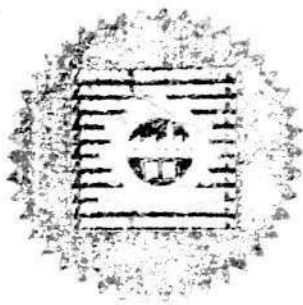


Reg. No. 708/01/31/0/RG

The Syndicate of the Anna University hereby makes known that SARAVANAKUMAR S S 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:

CHARACTERIZATION OF NATURAL CELLULOSIC *Prosopis juliflora* FIBERS AS POTENTIAL REINFORCEMENT FOR POLYMERIC MATRICES



Given under the Seal of the University

Chennai 600 025  
India  
November 2014

Controller of Examinations

Registrar

Vice-Chancellor

# Anna University



Reg.No.1414289135/RG

The Syndicate of the Anna University hereby makes known that **NARAYANASAMY P** 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 **2017**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".


*Title of the Thesis:*

**EFFECT OF TiC AND MoS<sub>2</sub> ADDITIONS ON THE TRIBOLOGICAL PROPERTIES OF MAGNESIUM HYBRID COMPOSITES**

Given under the seal of the University



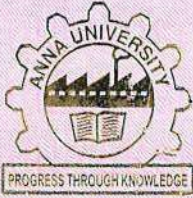
Chennai 600025  
India  
June 2018  
FABRICATION

  
Controller of Examinations  
NARAYANASAMY P

  
Registrar

  
Vice-Chancellor





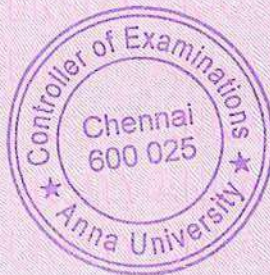
# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: RAR012212

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 : THANGA KASI RAJAN S  
Registration Number : 1214279773  
Degree : Ph.D.  
Department/Centre/Subject : MECHANICAL ENGINEERING  
Faculty : MECHANICAL ENGINEERING  
Date, Month & Year of Viva-Voce Examination held : 28.08.2020  
Title of the Thesis : WEAR, MECHANICAL AND CORROSION BEHAVIOUR OF COPPER-FLY ASH-TUNGSTEN HYBRID COMPOSITES



Controller of Examinations

Chennai - 600 025

Date: 26-SEP-2020

# Anna University

Reg.No. 1314279745/RG



The Syndicate of the Anna University hereby makes known that **PRABHU B** 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 **2021**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

*Title of the Thesis:*

**EXPERIMENTAL INVESTIGATION ON STABILITY AND THERMAL CHARACTERISTICS OF NANOCOMPOSITE PARTICLES DISPERSED PARAFFIN WAX FOR THERMAL ENERGY STORAGE SYSTEMS**

*Given under the Seal of the University*

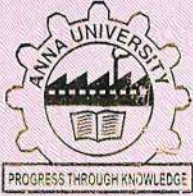


Chennai 600 025  
India  
July 2022  
6A/R01/2019

*P. Subashini*  
Controller of Examinations

*J. K. A.*  
Registrar

*R. V. Vijay*  
Vice-Chancellor



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: SAR012070

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 : PRITHIVIRAJ M  
Registration Number : 1514289180  
Degree : Ph.D.  
Department/Centre/Subject : MECHANICAL ENGINEERING  
Faculty : MECHANICAL ENGINEERING  
Date, Month & Year of Viva-Voce Examination held : 29.07.2021  
Title of the Thesis : ENERGY ABSORPTION CHARACTERISTICS OF NATURAL FIBER FILLED THIN WALLED COMPOSITE TUBES IN QUASI STATIC LOADING



**Chennai - 600 025**

**Controller of Examinations**

**Date: 27-AUG-2021**

# Anna University



Reg.No. 17142891143/RG

*The Syndicate of the Anna University hereby makes known that*  
**BALAVAIRAVAN B** *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 2022. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".*

*Title of the Thesis:*

**DEVELOPMENT AND CHARACTERIZATION OF AGRO-WASTE FILLERS /POLYVINYL ALCOHOL BIOFILMS**

*Given under the Seal of the University*



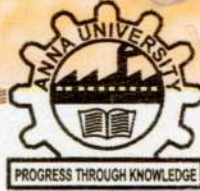
Chennai 600 025  
India  
July 2022

*P. Senthil*  
Controller of Examinations

*A. R. R.*  
Registrar

*R. V. Vijay*  
Vice-Chancellor

# Anna University



Reg. No.17142897115/RG

The Syndicate of the Anna University hereby makes known that **MURUGANANTHAN K** 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 **2023**. The degree has been awarded in compliance with the **“University Grants Commission, Regulations 2016”**.

*Title of the Thesis:*

**DEVELOPMENT AND CHARACTERIZATION OF NATURAL FILLERS INCORPORATED IN EPOXY COMPOSITES AND PLA FILAMENT FOR 3D PRINTING**

*Given under the seal of the University*



Chennai 600025  
India  
September 2023  
TAR012184

*P. Senthilvel*  
Controller of Examinations  
MURUGANANTHAN K

*Dacee*  
Registrar

*R. V. Vijay*  
Vice-Chancellor  
MURUGANANTHAN K

# Anna University



Reg. No.18142891151/UG



The Syndicate of the Anna University hereby makes known that **BALASUNDAR P** 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 2023. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".

*Title of the Thesis:*

**INVESTIGATION OF MICROWAVE SINTERED Ti-0.8Ni-0.3Mo COMPOSITES**

*Given under the seal of the University*



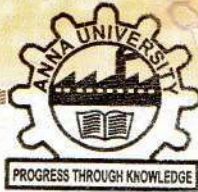
Chennai 600025  
 India  
 September 2023

*P. Senthilvel*  
Controller of Examinations

*Doval*  
Registrar

*R. V. Vijay*  
Vice-Chancellor

# Anna University



Reg. No.18142891126/RG



The Syndicate of the Anna University hereby makes known that **MUTHU NATARAJAN S** 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 **2023**. The degree has been awarded in compliance with the “**University Grants Commission, Regulations 2016**”.

*Title of the Thesis:*

**DEVELOPMENT AND CHARACTERIZATION OF NATURAL FILLERS REINFORCED PLA FILAMENTS FOR 3D PRINTING**

*Given under the seal of the University*



Chennai 600025  
India  
September 2023  
TA0072271

*P. Suresh Kumar*  
Controller of Examinations

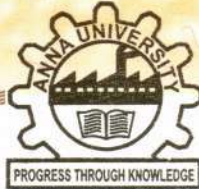
MUTHU NATARAJAN S

*Dr. S. S. S. S.*  
Registrar

*R. V. Vijay*  
Vice-Chancellor

7127A0445578786A0428F76A4A0428

# Anna University



Reg. No.16142797114/RG



The Syndicate of the Anna University hereby makes known that **SENTHAMARAICANNAN P** 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 **2023**. The degree has been awarded in compliance with the **“University Grants Commission, Regulations 2016”**.

Title of the Thesis:

**CHARACTERIZATION OF *Mucuna atropurpurea* FIBERS AS AN REINFORCEMENT IN FIBRE-REINFORCED PLASTICS**

*Given under the seal of the University*



Chennai 600025  
India  
September 2023  
TAR012254

*P. Senthil*  
Controller of Examinations

*Dr. S. Senthil*  
Registrar

*R. V. Vijay*  
Vice-Chancellor

SENTHAMARAICANNAN P

MSR012254



# Anna University



Reg.No. 18142897135/RG

The Syndicate of the Anna University hereby makes known that **PARRTHIPAN B K** 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 **2024**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".

Title of the Thesis:

**EXPERIMENTAL INVESTIGATIONS ON WELDING CHARACTERISTICS OF NICKEL ALLOY**

Given under the Seal of the University



Chennai 600 025  
India  
July 2024  
UAM01214

*P. Senthivel*  
Controller of Examinations  
PARRTHIPAN B K

*Doale*  
Registrar

*R.V. Vijay*  
Vice-Chancellor  
SINCE 1979

# Anna University



Reg.No. 2006179101/RG

*The Syndicate of the Anna University hereby makes known that*  
**LAKSHMI R** *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 2012.*

*Title of the Thesis:*

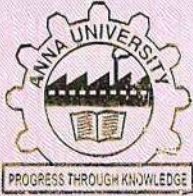
**AN EXPERIMENTAL INVESTIGATION ON UTILIZATION OF GROUNDED WASTE E-PLASTIC AS FILLER MATERIAL IN CONCRETE**

*Given under the Seal of the University*



Chennai 600 025  
India

*Sivaraman S. Arumugam*



# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: SAR011009

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 : MURALI KANNAN S P  
Registration Number : 1314179126  
Degree : Ph.D.  
Department/Centre/Subject : CIVIL ENGINEERING  
Faculty : CIVIL ENGINEERING  
Date, Month & Year of Viva-Voce Examination held : 22.04.2021  
Title of the Thesis : RELIABILITY ANALYSIS OF CARBONATION INDUCED CORROSION



Controller of Examinations

Chennai - 600 025

Date: 24-JUN-2021

# Anna University



Reg.No. 1214179722/RG

The Syndicate of the Anna University hereby makes known that **JEGAN DURAI N** 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 **2022**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

*Title of the Thesis:*

**REMOVAL OF ORGANIC POLLUTANTS FROM STABILIZED LANDFILL LEACHATE BY FENTON, COAGULATION AND FENTON LIKE PROCESS: PROCESS MODELING AND OPTIMIZATION**

*Given under the Seal of the University*



Chennai 600 025  
India  
July 2022  
SARVITHA

*P. Senthil*  
Controller of Examinations  
JEGAN DURAI N

*J. M.*  
Registrar

*R. V. Jay*  
Vice-Chancellor  
EDM44107000110100010001000100010001

# Anna University

Reg.No. 1414169106/RG



*The Syndicate of the Anna University hereby makes known that **GANESHPRABHU P** 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 **2022**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*

*Title of the Thesis:*

**STUDY ON THE PERFORMANCE OF CONCRETE BY PARTIAL REPLACEMENT OF FINE AGGREGATE WITH SCRAP STEEL MILL SCALE**

*Given under the Seal of the University*



Chennai 600 025  
India  
July 2022  
SABR1068

*P. Sankhinaid*  
Controller of Examinations  
GANESHPRABHU P

*P.M*  
Registrar

*R.V. Vij*  
Vice-Chancellor  
R2712CARE21106A4105108A20AC

# Anna University



Reg. No.1514169117/RG



The Syndicate of the Anna University hereby makes known that **SUBAHAR M** 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 **2023**. The degree has been awarded in compliance with the “*University Grants Commission, Regulations 2009*”.

*Title of the Thesis:*

**A STUDY OF CCA REPLACED CEMENT CONCRETE ACCOMPANIED BY FIBER**

*Given under the seal of the University*



Chennai 600025  
India  
September 2023  
TAMILNADU

*P. Sureshbabu*  
Controller of Examinations

*Dr. S. S. Srinivasan*  
Registrar

*R. V. V. V.*  
Vice-Chancellor



பொறியியற் புலம்  
**FACULTY OF ENGINEERING**

மனோன்மனியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு  
கண்ணன் க

தொழிற்சாலை பொறியியல் - கணினி அறிவியல் (இணைவு) பாடப்பிரிவில்  
அந்நூர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற  
தேர்வினோர் சான்றளித்தவாறு ஜனவரி 2014 ஆம் ஆண்டில்  
இப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the **MANONMANIAM SUNDARANAR UNIVERSITY**  
hereby makes known that **KANNAN K**  
has been admitted to the Degree of Doctor of Philosophy in  
**INDUSTRIAL ENGINEERING-COMPUTER SCIENCE (INTERDISCIPLINARY)**

he/she having been certified by duly appointed Examiners to be qualified  
to receive the same in the year **JANUARY 2014**



Given under the seal of the University.

# Anna University



Reg.No.20117301008/RG



The Syndicate of the Anna University hereby makes known that **RAJESHBABU S** 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:*

**CERTAIN INVESTIGATIONS ON POWER QUALITY EVENTS AND ITS ENHANCEMENT USING CUSTOM POWER DEVICES**

*Given under the seal of the University*



Chennai 600025  
India  
December 2019  
QABH2201

  
Controller of Examinations  
RAJESHBABU S

  
Registrar

  
Vice-Chancellor  
REGULATIONS THROUGH KNOWLEDGE



# Anna University



Reg.No. 1414389743/RG

*The Syndicate of the Anna University hereby makes known that*  
**SAKTHIVEL G** 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 **2022**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

*Title of the Thesis:*

**CERTAIN INVESTIGATION ON FAULT DIAGNOSIS OF AN INDUCTION MOTOR FOR VARIOUS INDUSTRIAL APPLICATION**

*Given under the Seal of the University*



Chennai 600 025  
India  
July 2022  
SAKTHIVEL G

*P. Sankaranarayanan*  
Controller of Examinations

*P. R. D.*  
Registrar

*R. V. L.*  
Vice-Chancellor



# National Institute of Technology Tiruchirappalli

hereby confers the degree of

*Doctor of Philosophy*

*of the institute*

*on*

**P PRAVEENKUMAR**

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

**Efficient and Secure Ciphertext-Policy Attribute-Based  
Encryption Schemes for Big Data Access Control in Cloud Storage**



*Given this day the Twenty Fifth of September 2021  
Under the seal of the Institute*



TIRUCHIRAPPALLI - 620 015, INDIA



*M. G.*  
Registrar

*Mani Sankar*  
Director

*[Signature]*  
Chairperson  
Board of Governors

**Science  
And  
Humanities**



2008 ஆம் ஆண்டில் மதுரை காமராசர் பல்கலைக்கழகத்தில்  
ஆய்வு நிகழ்த்தி வழங்கிய ஆய்வேட்டுக்காக 22-10-2008 நாளன்று முனைவர் பட்டம்  
பெறத் தகுதியுடையவர் என்று தக்க தேர்வாளர்களால் சான்றளிக்கப்பட்டு  
பிரதீபா, நா.

என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று மதுரை காமராசர் பல்கலைக்கழக  
ஆட்சிப்பேரவை அறிவிக்கின்றது.

மதுரை காமராசர் பல்கலைக்கழக இலச்சினையுடன், மதுரையில்

2009 ஆம் ஆண்டு

அக்டோபர் திங்கள்

13 ஆம் நாள் அளிக்கப்பட்டது.

*The Senate of the Madurai Kamaraj University hereby makes known that*

**PRATHEEBA, N.**

*has been conferred the*

**DEGREE OF DOCTOR OF PHILOSOPHY**

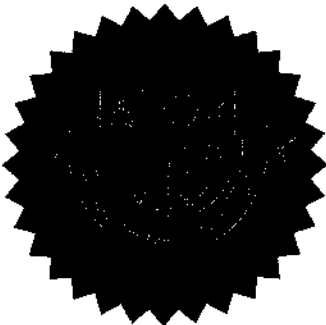
*he / she having been certified by duly appointed Examiners to be qualified to receive  
the same as on 22-10-2008*

*Given under the seal of the Madurai Kamaraj University, at Madurai this  
13<sup>th</sup> day of October 2009*

**Title of the Thesis :**

**"MAPPING THE SOCIO-POLITICAL VISION IN  
NAYANTARA SAHGAL'S SELECT NOVELS."**

**Subject Area : ENGLISH.**



மாதுரை காமராசர் பல்கலைக்கழகம்  
Madurai Kamaraj University  
UNIVERSITY WITH POTENTIAL FOR EXCELLENCE



FACULTY OF ARTS - ENGLISH  
கலையியற் புலம் - ஆங்கிலம்

2012 ஆம் ஆண்டில் மதுரை காமராசர் பல்கலைக்கழகத்தில்

தேர்வுகளைத் தயார் செய்த ஆய்வேட்டுக்காக 22-12-2011 தாளன்று முனைவர் பட்டம்

பெறத் தகுதி பெறியவர் என்று தக்க தேர்வாளர்களால் அன்றளிக்கப்பட்டு

சுந்தராஜன், நா.

என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று மதுரை காமராசர் பல்கலைக்கழக  
ஆய்வேட்டு அறிவிக்கின்றது.

மதுரை காமராசர் பல்கலைக்கழக இலச்சினை: ச. மதுரை 2012 ஆம் ஆண்டு

மார்ச் 2012 ஆம் தாள் அளிக்கப்பட்டது.

*The Senate of the Madurai Kamaraj University hereby makes known that*

**SUNDARAJAN, N.**

*has been conferred the*

**DEGREE OF DOCTOR OF PHILOSOPHY**

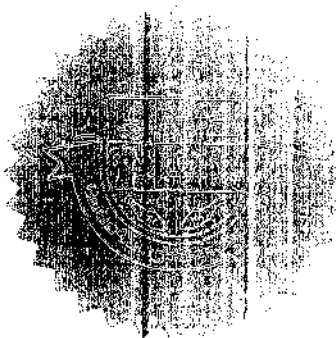
*he / she having been certified by duly appointed Examiners to be qualified to receive  
the same as on 22-12-2011*

*Given under the seal of the Madurai Kamaraj University, at Madurai this  
28<sup>th</sup> 2012 March 2012*

Title of the Thesis

"THE NATIONAL WORLD OF ALLAN SEELY"

Subject Area : ENGLISH



Register No : 11JLDRPEN004

Folio No : 00814



# KARPAGAM UNIVERSITY

Karpagam Academy of Higher Education  
(Established Under Section 3 of UGC Act 1956)  
Coimbatore - 641 021, India

The Board of Management of the **KARPAGAM UNIVERSITY** hereby makes known that **KAYAL VIZHILB**

has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY in ENGLISH**

under the **FACULTY OF ARTS**

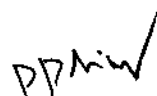
having been certified by the duly appointed examiners to be qualified to receive the same on **22<sup>nd</sup> August 2016**

Coimbatore

Dated : 12.11.2016



THE SEAL OF UNIVERSITY

  
CONTROLLER OF EXAMINATIONS

  
REGISTRAR

  
VICE-CHANCELLOR





பாரதியார் பல்கலைக் கழகம்  
Bharathiar University



அறிவியல் புலம்  
FACULTY OF SCIENCE

பாரதியார் பல்கலைக் கழகத்தால் முறையாக அமைக்கப்பட்ட தேர்வாளர் குழு,  
தனலட்சுமி கா, 2013ஆம் ஆண்டு, ஆகஸ்ட் 19ஆம் நாளில் கணிதவியல் என்னும் பிரிவில்  
ஆய்வியல் அறிஞர் என்னும் பட்டம் பெறத் தகுதியடைந்திருப்பதாகச் சான்றளித்ததை  
ஏற்று, அவருக்கு அந்தப் பட்டத்தைப் பல்கலைக் கழக இலச்சினையுடன்,  
பாரதியார் பல்கலைக் கழக ஆட்சிக் குழு வழங்குகின்றது.

The Syndicate of the Bharathiar University hereby makes known that **THANALAKSHMI K**  
has been admitted to the Degree of **DOCTOR OF PHILOSOPHY** in **MATHEMATICS**,  
having been certified by duly appointed Examiners to be qualified to receive the same on **19th AUGUST 2013**.



A007943

கோயம்புத்தூர்

Coimbatore

240914

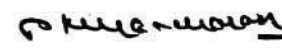
நாள்

Dated: 25th March 2014

Given under the Seal of the University.

  
தேர்வாணையர்(பொ)

Controller of Examinations i/c

  
பதிவாளர்

Registrar

  
துணைவேந்தர்

Vice-Chancellor

# KALASALINGAM UNIVERSITY

Kalasalingam Academy of Research and Education  
(Under Section 3 of UGC Act 1956)



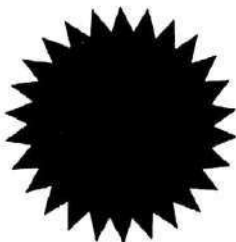
Register No. : 200813108

The Board of Management of the Kalasalingam University hereby makes known that Mr.KAMATCHI N. has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of **Mathematics**, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2013.

Title of the thesis:

**"DISTANCE MAGIC AND DISTANCE ANTIMAGIC LABELINGS OF GRAPHS"**

*Given under the seal of the University*



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

Controller of Examinations

Registrar

Vice - Chancel

Date: .....



Reg. No. 4479

மனோன்மனியம் சுந்தரனார் பல்கலைக்கழகம்  
Manonmaniam Sundaranar University



அறிவியற் புலம்  
FACULTY OF SCIENCE

மனோன்மனியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு  
மகேஸ்வரி ஏ.

கணிதவியல் பாடப்பிரிவில்

அறிஞர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற  
தேர்வினோர் சான்றளித்தவாறு ஜூலை 2013 ஆம் ஆண்டில்  
இப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the MANONMANIAM SUNDARANAR UNIVERSITY  
hereby makes known that MAHESWARIA  
has been admitted to the Degree of Doctor of Philosophy in  
MATHEMATICS

he/she having been certified by duly appointed Examiners to be qualified  
to receive the same in the year JULY 2013



Given under the seal of the University.

திருநெல்வேலி, இந்தியா  
Tirunelveli, India

நாள், Dated 23.09.2013

S. Prabahar  
(Dr.S.Prabahar)  
தேர்வாணையர்

Controller of Examinations

(Dr.T.Tamizh Chelvam)  
பதிவாளர்  
Registrar

(Dr.A.K.Kumaraguru)  
துணை வேந்தர்  
Vice-Chancellor



FACULTY OF SCIENCE - MATHEMATICS  
அறிவியற் புலம் - கணிதவியல்

2016 ஆம் ஆண்டில் மதுரை காமராசர் பல்கலைக்கழகத்தில்

ஆய்வு நிகழ்த்தி வழங்கிய ஆய்வேட்டுக்காக 23-11-2016 நாளன்று முனைவர் பட்டம் பெறத் தகுதியுடையவர் என்று தக்க தேர்வாளர்களால் சான்றளிக்கப்பட்டு தமிழிசை, ஆ.

என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று மதுரை காமராசர் பல்கலைக்கழக ஆட்சிப் பேரவை அறிவிக்கின்றது.

மதுரை காமராசர் பல்கலைக்கழக இலச்சினையுடன், மதுரையில் 2017 ஆம் ஆண்டு ஜூலை திங்கள் 28 ஆம் நாள் அளிக்கப்பட்டது.

*The Senate of the Madurai Kamaraj University hereby makes known that THAMILISAI, A*

*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 as on*

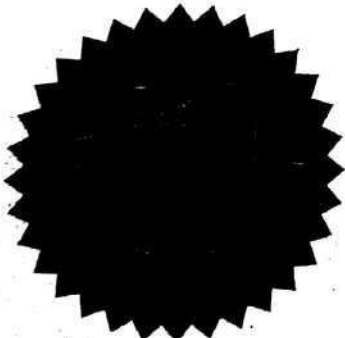
23-11-2016

*Given under the seal of the Madurai Kamaraj University, at Madurai this*  
28<sup>th</sup> day of July 2017

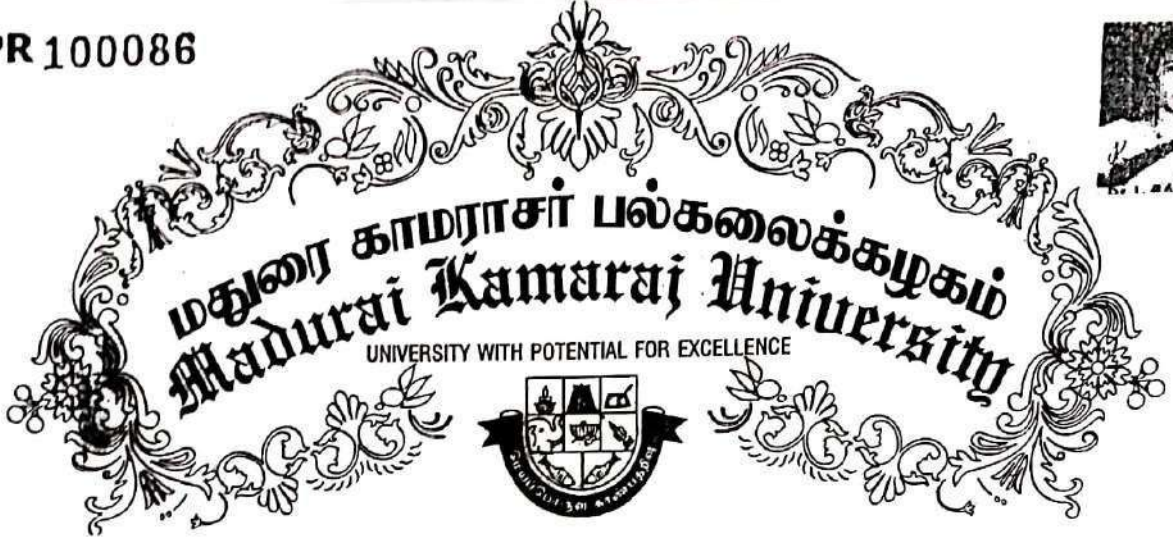
Title of the Thesis :

"STUDIES ON NEW BITOPOLOGICAL SEPARATION AXIOMS".

Subject Area : MATHEMATICS



CPPR 100086



**அறிவியல் புலம்-கணிதவியல்**  
**FACULTY OF SCIENCE-MATHEMATICS**

\_\_\_\_\_ **2017** ஆம் ஆண்டில் மதுரை காமராஜ் பல்கலைக்கழகத்தில், ஆய்வு நிகழ்த்தி வழங்கிய ஆய்வேடுக்காக \_\_\_\_\_ **21-12-2017** \_\_\_\_\_ நாளன்று முனைவர் பட்டம் பெறத் தகுதியுடையவர் என்று தக்க தேர்வாளர்களால் சான்றளிக்கப்பட்டு \_\_\_\_\_ **மேகலா ந** \_\_\_\_\_ என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று மதுரை காமராஜ் பல்கலைக்கழக ஆட்சிப் பேரவை அறிவிக்கின்றது.

மதுரை காமராஜ் பல்கலைக்கழக இசைச்சினையுடன் அளிக்கப்பட்டது.

The Senate of the MADURAI KAMARAJ UNIVERSITY in the year \_\_\_\_\_ **2017** hereby makes known that \_\_\_\_\_ **MEGALA N** \_\_\_\_\_ has been conferred **DEGREE OF DOCTOR OF PHILOSOPHY** he/she having certified by duly appointed Examiners to be qualified to receive the same as on \_\_\_\_\_ **21-12-2017** \_\_\_\_\_.

Given under the seal of the University.

*Register No : P3354*


*Subject Area : MATHEMATICS*

*Title of Thesis : ANALYSIS OF NON-LINEAR CHEMICAL REACTION SYSTEM*

*This Degree Certificate is awarded in Compliance of the UGC Regulations 2009*



நாள் Date **20 January 2018**  
பல்கலைநகர், மதுரை - 625 021  
Paikalai Nagar, Madurai - 625 021

  
**தேர்வாளையர்**  
**Controller of Examinations**

  
**பதிவரளர்**  
**Registrar**

  
**துணைவேந்தர்**  
**Vice-Chancellor**

CPPR 101648



அறிவியற் புலம் - கணிதவியல்  
FACULTY OF SCIENCE - MATHEMATICS

\_\_\_\_\_ 2019 ஆம் ஆண்டில் மதுரை காமராசர் பல்கலைக்கழகத்தில், ஆய்வு நிகழ்த்தி வழங்கிய ஆய்வேடுக்காக \_\_\_\_\_ 15-06-2018 நாளன்று முனைவர் பட்டம் பெறத் தகுதியுடையவர் என்று தக்க தேர்வாளர்களால் சான்றளிக்கப்பட்டு \_\_\_\_\_ பிரந்தா சே என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று மதுரை காமராசர் பல்கலைக்கழக ஆட்சிப் பேரவை அறிவிக்கின்றது.

மதுரை காமராசர் பல்கலைக்கழக இலச்சினையுடன் அளிக்கப்பட்டது.

The Senate of the MADURAI KAMARAJ UNIVERSITY in the year \_\_\_\_\_ 2019 hereby makes known that \_\_\_\_\_ BRINDHA S \_\_\_\_\_ has been conferred DEGREE OF DOCTOR OF PHILOSOPHY he/she having certified by duly appointed Examiners to be qualified to receive the same as on \_\_\_\_\_ 15-06-2018 \_\_\_\_\_.

Given under the seal of the University.

Register No : P4289

Subject Area : MATHEMATICS

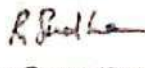
Title of Thesis : FURTHER INVESTIGATIONS ON NEW BITOPOLOGICAL CONCEPTS

This Degree Certificate is awarded in Compliance of the UGC Regulations 2009



தारी Date 28 September 2019  
பல்கலைக்கழகம், மதுரை - 625 021  
Parkalal Nagar, Madurai - 625 021

  
தேர்வாளையர்  
Controller of Examinations

  
பதிவாளர்/பொறுப்பு  
Registrar in-charge

  
துணைவேந்தர்  
Vice-Chancellor

Reg. No. P4117

Folio No 20745

Book No. 208



மதுரை காமராசர் பல்கலைக்கழகம்  
MADURAI KAMARAJ UNIVERSITY

(University with Potential for Excellence)

Palkalai Nagar, Madurai - 625 021

PROVISIONAL CERTIFICATE  
Ph.D.

This is to certify that S. GOPINATH  
has qualified for the Degree of DOCTOR OF PHILOSOPHY in  
MATHEMATICS he/she having been declared  
eligible on 09.07.2021 (Date of Viva-Voce) to receive the  
**Ph.D. Degree** at a Convocation of this University.



Dated :

*[Handwritten Signature]*  
REGISTRAR

மதுரை காமராசர் பல்கலைக்கழகம்  
Madurai Kamaraj University  
UNIVERSITY WITH POTENTIAL FOR EXCELLENCE



FACULTY OF SCIENCE - PHYSICS  
அறிவியற் புலம் - இயற்பியல்

2012 ஆம் ஆண்டில் மதுரை காமராசர் பல்கலைக்கழகத்தில்

ஆய்வு நிகழ்த்தி வழங்கிய ஆய்வேட்டுக்காக 05-11-2011 நாளன்று முனைவர் பட்டம்

பெறத் தகுதியுடையவர் என்று தக்க தேர்வாளர்களால் சான்றளிக்கப்பட்டு

எழிலரசி, அ.

என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று மதுரை காமராசர் பல்கலைக்கழக ஆட்சிப்பேரவை அறிவிக்கின்றது.

மதுரை காமராசர் பல்கலைக்கழக இலச்சினையுடன், மதுரையில்

2012

ஆம் ஆண்டு

மார்ச்

திங்கள்

28

ஆம் நாள் அளிக்கப்பட்டது.

The Senate of the Madurai Kamaraj University hereby makes known that  
YELIL ARASI, A.

has been conferred the

DEGREE OF DOCTOR OF PHILOSOPHY

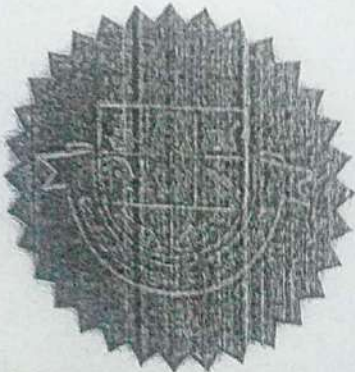
he / she having been certified by duly appointed Examiners to be qualified to receive  
the same as on 05-11-2011

Given under the seal of the Madurai Kamaraj University, at Madurai this  
28<sup>th</sup> day of March 2012

Title of the Thesis:

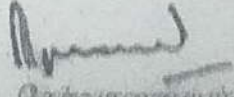
"ROLE OF NANO MATERIALS ON THE STRUCTURE-  
PROPERTY RELATIONSHIP OF ELECTRICALLY  
CONDUCTING POLYMER".

Subject Area : PHYSICS




மதுரை - 625 021  
Palkalainagar, Madurai - 625 021

Date: 28.03.2012

  
தேர்வாளர்  
Controller of Examinations

  
மதுரை  
Head of Department

  
மாண்புமிகு  
Vice-Chancellor



பாரதியார் பல்கலைக் கழகம்  
Bharathiar University

அறிவியல் புலம்  
FACULTY OF SCIENCE

பாரதியார் பல்கலைக் கழகத்தால் முறையாக அமைக்கப்பட்ட தேர்வாளர் குழு,  
ஹேமா மு, 2009ஆம் ஆண்டு, அக்டோபர் 13ஆம் நாளில் இயற்பியல் என்னும் பிரிவில்  
ஆய்வியல் அறிஞர் என்னும் பட்டம் பெறத் தகுதியடைந்திருப்பதாகச் சான்றளித்ததை  
ஏற்று, அவருக்கு அந்தப் பட்டத்தைப் பல்கலைக் கழக இலச்சினையுடன்,  
பாரதியார் பல்கலைக் கழக ஆட்சிக் குழு வழங்குகின்றது.

The Syndicate of the Bharathiar University hereby makes known that HEMA M  
has been admitted to the Degree of DOCTOR OF PHILOSOPHY in PHYSICS,  
having been certified by duly appointed Examiners to be qualified to receive the same on 13th OCTOBER 2009.

Given under the Seal of the University.



கோயம்புத்தூர்  
Coimbatore  
நாள்

Dated: 24th November 2009  
y50211

B.V.  
தேர்வாளணையர்

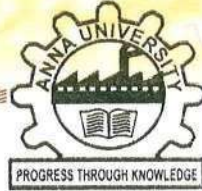
Controller of Examinations

Penn  
பதிவாளர்  
Registrar

V.V.  
துணைவேந்தர்  
Vice-Chancellor

C N° 213951

# Anna University



Reg.No.1314789153/RG



The Syndicate of the Anna University hereby makes known that **SAKTHIRAJ K** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Science and Humanities**, 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:*


**PREPARATION AND STUDY OF ROOM TEMPERATURE FERROMAGNETISM IN TIN OXIDE NANOCRYSTAL**

*Given under the seal of the University*



Chennai 600025  
India  
June 2018  
PAR017232

  
Controller of Examinations  
SAKTHIRAJ K

  
Registrar

  
Vice-Chancellor  
ASW378A231C7476EFA3CA329D8B



Sl. No. 0500435



அழகப்பா பல்கலைக்கழகம்  
**Alagappa University**

{Accredited with A+ Grade by NAAC (CGPA 3.64) in the Third Cycle}

{Graded as Category - I University and Granted Autonomy by MHRD-UGC,  
2019: Asia Rank - 216, QS BRICS Rank - 104, QS India Rank - 20}

அறிவியற்புலம்

அழகப்பா பல்கலைக்கழக ஆட்சிக்குழு

சாந்தி மு

என்பவருக்கு

இயற்பியலில் முனைவர்

பட்டத்தை அதற்குரிய தேவைகளை நிறைவு செய்தமையால்

ஜூலை 2018 இல் அளிக்கிறது

பல்கலைக்கழக முத்திரை பெறுகிறது



**FACULTY OF SCIENCE**

The Syndicate of the Alagappa University

hereby confers the degree of

**DOCTOR OF PHILOSOPHY IN PHYSICS**

on

**SHANTHI M**

in JULY 2018 for having fulfilled the requirements for the degree

Title of the Thesis: **Preparation and Characterization of Solid and Gel Polymer Electrolytes Based on Poly (Vinylidene Chloride-Co-Acrylonitrile)**



Given under the seal of the University

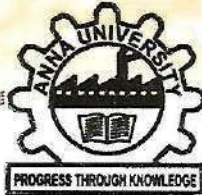
Karaijadi

Date:01-Nov-2018

பதிவாளர்  
Registrar

துணைவேந்தர்  
Vice - Chancellor

# Anna University



Reg.No.2011150102/RG

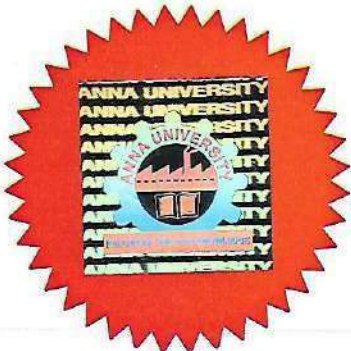


The Syndicate of the Anna University hereby makes known that **BHARATHY G** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Science and Humanities**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2019**. The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

*Title of the Thesis:*

**SYNTHESIS AND PROPERTIES OF METALS DOPED NiO NANOPARTICLES**

*Given under the seal of the University*



Chennai 600025  
India.

December 2019  
04821717

BHARATHY G

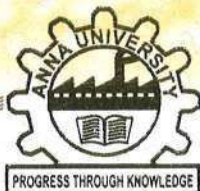
  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

144F42161A7732840CC6C7C746C0

# Anna University



Reg.No. 1414789733/RG

*The Syndicate of the Anna University hereby makes known that*  
**MANIKANDAN K M** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the Faculty of Science and Humanities, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2020. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*


*Title of the Thesis:*

**FABRICATION OF HIGH EFFICIENT DYE SENSITIZED SOLAR CELL USING POLYMER ELECTROLYTES**



*Given under the Seal of the University*

Chennai 600 025  
India  
March 2021  
RAR017165

  
Controller of Examinations  
MANIKANDAN K. M.

  
Registrar

  
Vice-Chancellor  
190&X11DAS692621953A246A65A704

AB21



Code No. 00046 S.No. 479301

**பாரதிதாசன் பல்கலைக்கழகம்**  
**BHARATHIDASAN UNIVERSITY**

(Established by the Government of Tamil Nadu in 1982; Recognized by UGC under 2f and 12B of UGC Act; Member, Association of Indian Universities and Association of Commonwealth Universities; Accredited by NAAC with 'A' Grade)

**அறிவியல் புலம்**  
**FACULTY OF SCIENCE**

**பாரதிதாசன் பல்கலைக்கழக ஆட்சிக் குழு செப்டம்பர் 2009**

ஆம் ஆண்டு

தி. தனலெட்சுமி,

என்பவர்

வேதியியல்

பிரிவில்

முனைவர்

என்னும்

பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி முனைவர் என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக இலச்சினைபுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes known that **T. DHANALAKSHMI** has been admitted to the Degree of **DOCTOR OF PHILOSOPHY**, in the subject **CHEMISTRY**, having been certified by duly appointed Examiners to be qualified to receive the same in **SEPTEMBER 2009**.

Thesis Title

"SYNTHESIS, STRUCTURE, SPECTRA, REDOX AND CATALYTIC PROPERTIES OF COPPER(II) AND BIOINSPIRED IRON(III) COMPLEXES OF TRIDENTATE 3N LIGANDS"

Given under the seal of the University.

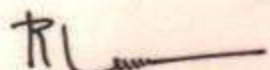
திருச்சிராப்பள்ளி  
Tiruchirappalli

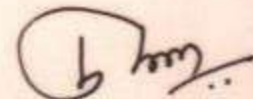
நாள் : 27th November 2009

Dated :

E 33057

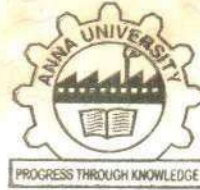
ISSUED ON : 27 NOV 2009

  
பதிவாளர் Registrar



துணைவேந்தர் Vice-Chancellor

# Anna University



Reg.No. 1224779738/RG

*The Syndicate of the Anna University hereby makes known that*  
**LUNA EUNICE S** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the* **Faculty of Science and Humanities**, *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:*

**SYNTHESIS AND CHARACTERIZATION OF BLOCK COPOLYMERS**

*Given under the Seal of the University*



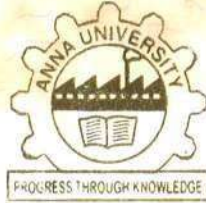
Chennai 600 025  
India  
January 2016  
MAH017323

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

# Anna University



Reg.No. 20117501010/RG

*The Syndicate of the Anna University hereby makes known that **DHANALAKSHMI J** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the *Faculty of Science and Humanities*, 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".*

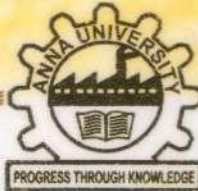
*Title of the Thesis:*

**HIGH TEMPERATURE MATRIX RESINS**

*Given under the Seal of the University*



# Anna University



Reg.No. 20117501009/RG

*The Syndicate of the Anna University hereby makes known that*  
**SHAMIM RISHWANA S** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the Faculty of Science and Humanities, 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".*

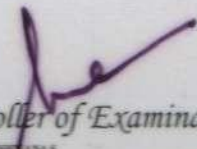
*Title of the Thesis:*


**SYNTHESIS AND CHARACTERIZATION OF POLYBENZOXAZINE**

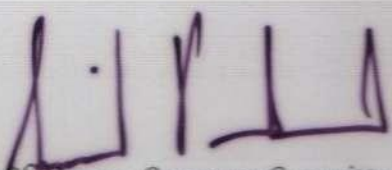
*Given under the Seal of the University*



Chennai 600 025  
India  
May 2017

  
Controller of Examinations  
SHAMIM RISHWANA S

  
Registrar

  
Chairman, Convener Committee  
Vice-Chancellor