



Reg. No.:2003479703/RG

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


Title of the thesis:

AGENT BASED ANALYSIS OF TEST CASE PRIORITIZATION TECHNIQUES FOR SOFTWARE OPERATIONS

Given under the Seal of the University



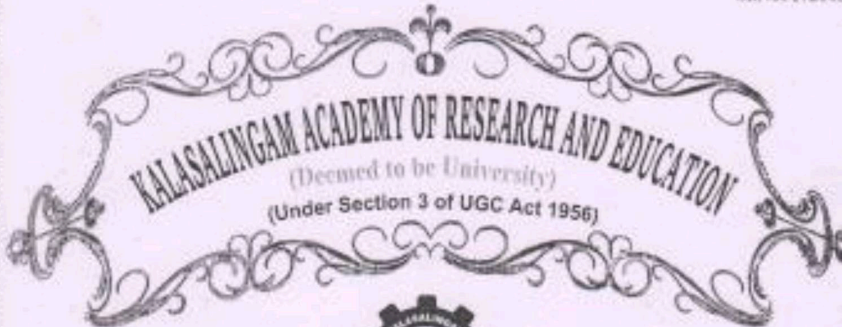
Chennai 600 025
India
January 2012


Controller of Examinations


Registrar


Vice-Chancellor

Sl.No: P/20037


KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION
 (Deemed to be University)
 (Under Section 3 of UGC Act 1956)



Register No.

201614277

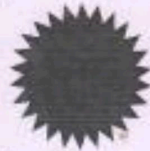
The Board of Management of the Kalasalingam Academy of Research and Education hereby makes known that **Mr./Ms. JAGANATHAN K D** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **FACULTY OF MECHANICAL ENGINEERING** having been certified by the duly appointed examiners to be qualified to receive the same in the year 2021.

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

Title of the thesis:

EXPERIMENTAL INVESTIGATION ON HEAT TRANSFER AUGMENTATION USING TRANSVERSE TWISTED BAFFLES IN A CONFINED RECTANGULAR CHANNEL

Given under the seal



Arundhathi Nagar,
Krishnankot - 626 126,
Tamil Nadu, India

Date: 03-04-2021

Controller of Examinations

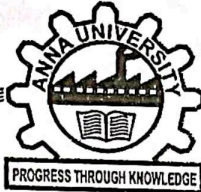
Registrar

Vice-Chancellor

TRUE COPY
ATTESTED


PRINCIPAL
 PANDIAN SARASWATHI YADAV
 MECHANICAL COLLEGE

Anna University



Reg. No.18144691280/RG



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

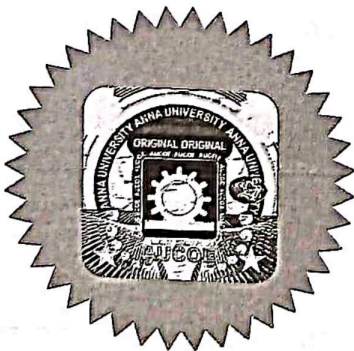
Title of the Thesis:

ANALYTICAL MODELING & SIMULATION OF JUNCTION LESS TRIPLE MATERIAL CYLINDRICAL SURROUNDING GATE SILICON NANOWIRE TRANSISTORS

Given under the seal of the University

TRUE COPY
/ATTESTED/

PRINCIPAL
PANDIAN SARASWATHIYADA
ENGINEERING COLLEGE
Arasanoor, Thirumansolai P.O-630 5
Sivagangai Dist. Tamilnadu



Chennai 600025
India
September 2023
TAR014192

P. Senthilvel
Controller of Examinations
MANIKANDAN S

D. S. S.
Registrar

R. V. V.
Vice-Chancellor
18ANAR014192/2023/09/23



ANNA UNIVERSITY
CENTRE FOR RESEARCH
Sardar Patel Road, Chennai - 600 025, India



Dr. C. UMARANI, M.E., Ph.D., PDF(NZ)
Director

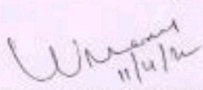
Ref : No. 2012120019/Ph.D./AR4

Date : 11.04.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.C.Murugan**, has registered for Ph.D. Programme in **CAD/CAM** during January-2012. The scholar has submitted the thesis entitled, **"EXPERIMENTAL ANALYSIS AND OPTIMIZATION OF ELECTRICAL DISCHARGE MACHINING PARAMETERS WITH VARIOUS SHAPES OF TOOL ELECTRODES AND MATERIALS"** and has successfully completed the oral examination held on 04.04.2022 for the award of Ph.D. Degree under the Faculty of **Mechanical Engineering**.

The Ph.D. Degree awarded by this University is in compliance of UGC Regulations 2009.

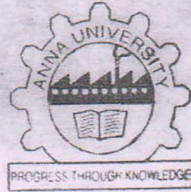

DIRECTOR (RESEARCH)

TRUE COPY
ATTESTED!


PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Aurumbot, Tharamangalam P.O-630 021
Erode District, Tamil Nadu


11/4/22

Anna University



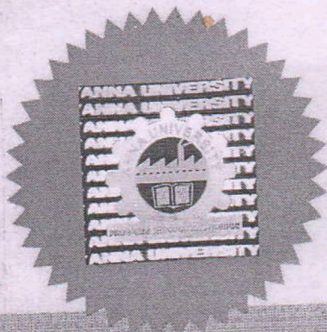
Reg.No. 20072072001/RG

The Syndicate of the Anna University hereby makes known that **NAGARAJAN 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 **2013**.

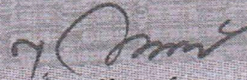
Title of the Thesis:

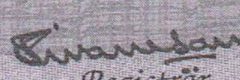
DESIGN AND DEVELOPMENT OF KNOWLEDGE MANAGEMENT FRAMEWORK, SOLUTION AND STRATEGY FOR MANUFACTURING INDUSTRY

Given under the Seal of the University



Chennai 600 025
India
March 2013
IA801297


Controller of Examinations


Registrar


Vice-Chancellor

Anna University



Reg. No.:2006589102/RG

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

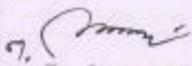
Title of the thesis:

HEAT TRANSFER ANALYSIS IN A CIRCULAR TUBE WITH INTERNAL FIN BY NUMERICAL METHOD

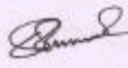
Given under the Seal of the University




Chennai 600 025
India
January 2012


Controller of Examinations


Registrar
TRUE COPY
(ATTESTED)


Vice-Chancellor


PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
CHENNAI 600 091

Anna University

Reg.No.20101022004/RC

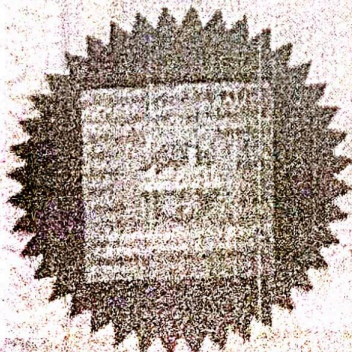


The Syndicate of the Anna University hereby makes known that **MEENAKSHI SUDARVIZHI S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Civil Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2019. The degree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

Title of the Thesis:

EXPERIMENTAL STUDIES ON STRENGTH AND BEHAVIOUR OF CONCRETE USING QUARRY DUST AND COPPER SLAG POWDER

Given under the seal of the University

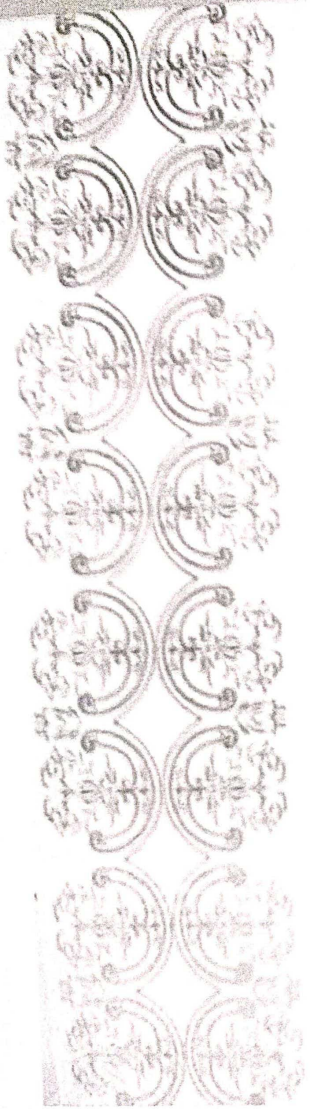


Control No. 6000725
India
November 2019

Controller of Examinations

Registrar

Vice-Chancellor



U.M.A.P.



UNIVERSITI MALAYSIA PERLIS

This is to certify that

MURALI VISWANATHAN

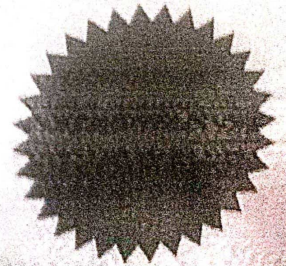
having completed all requirements set by the Senate
is awarded

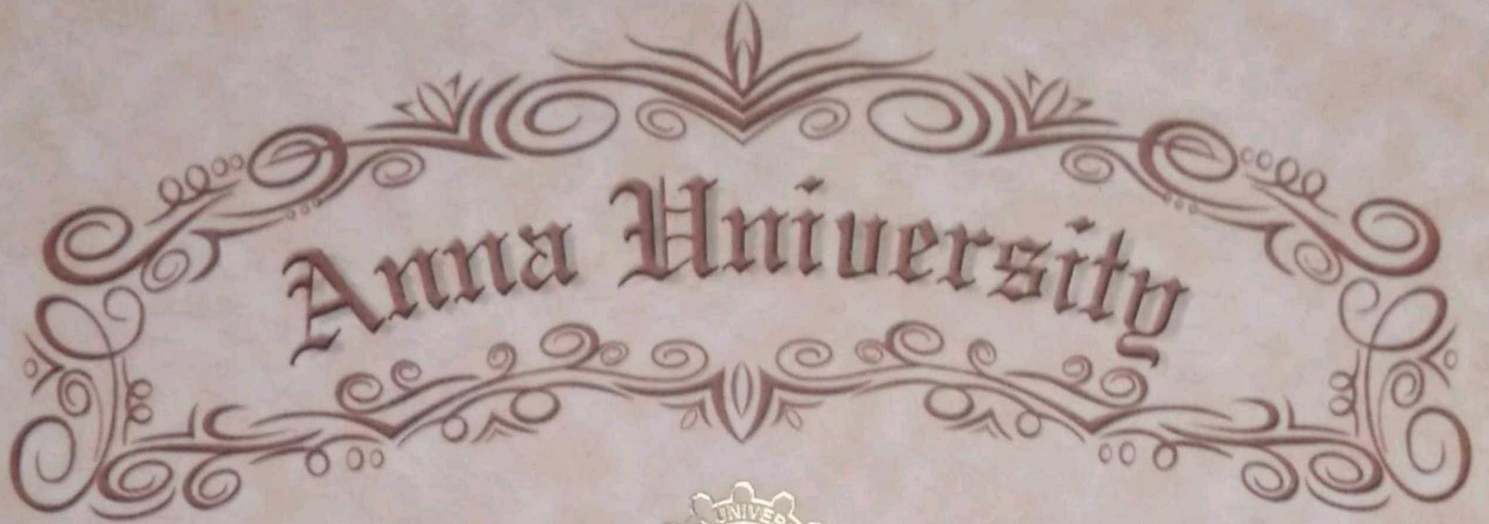
Doctor of Philoaphy

with all rights and privileges there to pertaining
The Senate has authorised the Academic Seal to be affixed
on 19th September 2015


Vice Chancellor


Registrar





Reg.No. 1024419786/RG

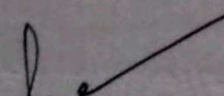
The Syndicate of the Anna University hereby makes known that **PREMLATHA K R** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Information and Communication Engineering**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2015**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

Title of the Thesis:

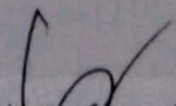
DYNAMIC COURSE COMPOSITION FOR ADAPTIVE E-LEARNING

Given under the Seal of the University




Controller of Examinations


Registrar


Vice-Chancellor

Anna University



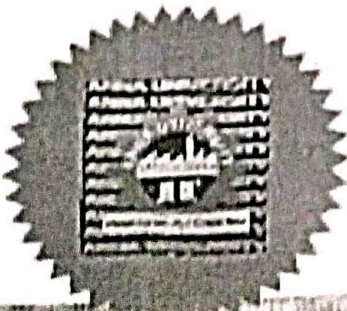
Reg No: 2011140031/RC

The Syndicate of the Anna University hereby makes known that RAJA 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:

NOVEL APPROACHES FOR CONTENT BASED IMAGE CLASSIFICATION AND RETRIEVAL.

Given under the Seal of the University



TRUE COPY
ATTENDED

PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Aracanoor, Thirumansolei P.O-630 561
Sivagangal Dist. Tamilnadu

Chennai 600 025
India
January 2016

Controller of Examinations

Registrar

Vice-Chancellor

Anna University



Reg.No. 1313279268/RG

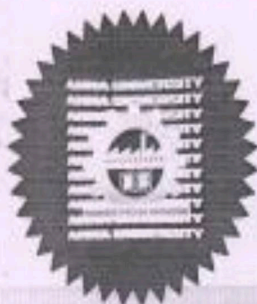
The Syndicate of the Anna University hereby makes known that **RAJAMUNESWARAN S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Mechanical Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2016**. The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

Title of the Thesis:

MECHANICAL AND MACHINABILITY BEHAVIOURS OF NATURAL CALCIUM PARTICLES IMPREGNATED COIR -POLYESTER COMPOSITES

Given under the Seal of the University

TRUE COPY
ATTESTED!



PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasevoor, Thirumanjoli P.O-630 661
Sivagangal Dist. Tamilnadu



ANNA UNIVERSITY CHENNAI - 600 025

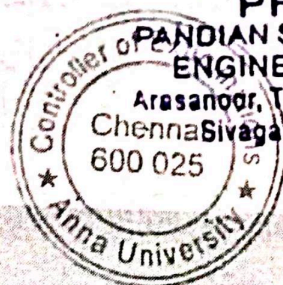
PROVISIONAL CERTIFICATE

Folio No.: TAR013045

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 : REGINA S
Registration Number : 1628389128
Degree : Ph.D.
Department/Centre/Subject : ELECTRONICS AND COMMUNICATION ENGINEERING
Faculty : ELECTRICAL ENGINEERING
Date, Month & Year of Viva-Voce Examination held : 25.11.2022
Title of the Thesis : DESIGN AND PERFORMANCE INVESTIGATION OF METAMATERIAL-BASED ANTENNAS WITH FR-4 AND LEATHER SUBSTRATES

TRUE COPY
ATTESTED!



PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE

Arasanoor, Thirumansolei P.O-630 531
Chennai Sivagangal Dist. Tamilnadu
600 025

P. Sivasubramanian
Controller of Examinations

Chennai - 600 025

Date: 02-DEC-2022

Anna University



Reg.No. 1614469245/RG

The Syndicate of the Anna University hereby makes known that **SAKTHIVEL B** 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:

LOW POWER ACCURACY CONFIGURABLE CIRCUIT DESIGN



Given under the Seal of the University

TRUE COPY
/ATTESTED/

PANDIAN SAIKOVATHIYADAV
ENGINEERING COLLEGE
Arasanoor, Thirumansolai P.O-630 561
Sivagangai Dist. Tamilnadu

Chennai 600 025
India
March 2021
RA RD14774


Controller of Examinations


Registrar


Vice-Chancellor

Anna University



Reg.No: 17244791351/RG

The Syndicate of the Anna University hereby makes known that **EZHILMATHI N** 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:

IMAGE REGISTRATION AND FUSION BASED BRAIN TUMOR DETECTION METHODS USING MACHINE LEARNING ALGORITHMS



Given under the Seal of the University

Chennai 600 025
India
March 2021
KABR/100

Controller of Examinations

Registrar

Vice-Chancellor



அலகப்பா பல்கலைக்கழகம்

ALAGAPPA UNIVERSITY

(Accredited with "A" Grade by NAAC)

அறிவியல் பி.டி. பி.டி. பி.டி.

FACULTY OF SCIENCE

அறிவியல் கல்வியியல் அறிவியல்

பி.டி. பி.டி. பி.டி.

பி.டி. பி.டி. பி.டி.

பி.டி. பி.டி. பி.டி.

பி.டி. பி.டி. பி.டி.

பி.டி. பி.டி. பி.டி.

Oct 2013

The Student of the Alagappa University

DOCTOR OF PHILOSOPHY IN PHYSICS

MANTHAYAN MR

MAY 2013

பி.டி. பி.டி. பி.டி.

பி.டி. பி.டி. பி.டி.

Given under the seal of the University



Signature
Name
Position

Signature
Name
Position

Number
Date: 18-02-2014



Madurai Kamaraj University

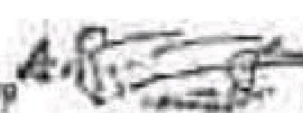
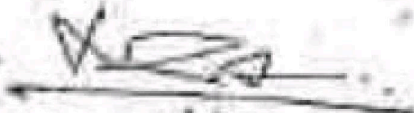
உயிரியல் துறை
FACULTY OF SCIENCES

கருத்து உடனடி உடனடி உடனடி உடனடி
 கருத்து உடனடி உடனடி உடனடி உடனடி
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 கருத்து உடனடி உடனடி உடனடி உடனடி

The Senate of the **MADURAI KAMARAJ UNIVERSITY**
 hereby confer upon **MUNJGAN M**
 for the award of the Degree of **DOCTOR OF PHILOSOPHY**
 with honours for research by his original research in the
 subject of **...** in the year **1981**
 Given under the seal of the University



கருத்து, தலைவர்,
 கருத்து, தலைவர்,
 கருத்து, தலைவர்,
 கருத்து, தலைவர், 21 நவம்பர் 1979

CPPR 101588



அறிவியல் மூலம் - இயற்பியல்
FACULTY OF SCIENCE - PHYSICS

_____ 2019 _____ ஆம் ஆண்டில் மதுரை காமராஜ் பல்கலைக்கழகத்தில், ஆய்வு நிகழ்த்தி வந்தவிய ஆய்வேடுகளை _____ 24-07-2019 _____ நாளன்று முனைவர் டி.டி.ம் வரத் தலைமுடையவர் என்று தலை தேர்வுமன்றம் சான்றளிக்கப்பட்ட _____ எர்னஸ்ட் ஸ்டீபன் குமாரதாஸ் M _____ என்பவருக்கு முனைவர் டி.டி.ம் சான்றளிக்கப்பட்டுள்ளது என்று மதுரை காமராஜ் பல்கலைக்கழக ஆய்வு தேர்வு மன்றம் சான்றளிக்கிறது.

மதுரை காமராஜ் பல்கலைக்கழக இயக்குனரகத்தால் சான்றளிக்கப்பட்டது.

The Senate of the MADURAI KAMARAJ UNIVERSITY in the year 2019 hereby makes known that EARNEST STEPHEN GNARADOSS M 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 24-07-2019

Given under the seal of the University.

Register No : P0177

Subject Area : PHYSICS

Title of Thesis : INVESTIGATION ON SOME METAL OXIDE AND METAL SULFIDE NANOPARTICLES

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



பதிவு செய்த நாள்: 28 September 2019
பதிவு செய்த இடம்: 625 021
பதிவு செய்த இடம்: 625 021


பதிவு செய்த இடம்
Controller of Examinations


பதிவு செய்த இடம்
Registrar in-charge


பதிவு செய்த இடம்
Vice-Chancellor



மதுரை மீனாட்சி அம்மாள் பல்கலைக்கழகம்

மதுரை - 625 002

MAMBAYYANTHI SUNDARANGA UNIVERSITY

MADRAS - 625 002

Roll No. 42
Register No. 5028

Roll No. 4278
Date: 15 DEC 2015

Ph.D
PROVISIONAL CERTIFICATE

This is to certify that the candidate SAYAVAN KUMAR, R. has qualified

for the Degree DOCTOR OF PHILOSOPHY in the field Chemistry

This award will be valid up to the date of publication of the dissertation on 20-11-2015

CONTROLLER OF EXAMINATIONS

Indian Institute of Science

THE COUNCIL OF THE INDIAN INSTITUTE OF SCIENCE ON THE RECOMMENDATION
OF THE SENATE HEREBY CONFERS ON

P Arun Kumar

THE DEGREE OF

Doctor of Philosophy

AWARDED AT BANGALORE ON THE 29th OF MARCH, 2014.

P. Balaram
DIRECTOR



P. Rama Rao
CHAIRPERSON, COUNCIL



MADURAI KAMARAJ UNIVERSITY

UNIVERSITY WITH POTENTIAL FOR EXCELLENCE
K. G. ALAN STREET, MADURAI - 625 009, INDIA



Prof. Dr. V. S. Vasanthha, M.Sc., Ph.D.
Director of Research and Development Cell

Madurai Nagar, Madurai - 625 009
Tamil Nadu, India

Ref.No: SK/Chemistry/Sub.Chem/2022
(Please quote this reference number)

Date: 22.06.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. S. Muthumanickam, Full Time Research Scholar, Department of Chemistry, Thiagarajar College, Madurai - 625 009 has submitted his Ph.D thesis entitled "Synthesis and characterization of heterogeneous Ti-anchored MCM-41 material for synthetic transformations and electrocatalytic application" under the guidance of Dr. K. Selvakumar, Assistant Professor, Department of Chemistry, Thiagarajar College, Madurai - 625 009 for evaluation on 04.05.2022.

Signature of
22/06/22

Anna University



Reg.No.201120007/RG

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

Title of the Thesis:

CERTAIN INVESTIGATIONS ON ECONOMIC DISPATCH WITH OPTIMAL POWER FLOW USING OPTIMIZATION TECHNIQUES

Given under the seal of the University



Control Sheet
Title
December 2018

Controller of Examinations

Registrar

Vice-Chancellor



Dinapaka Missions University



FACULTY OF ENGINEERING AND TECHNOLOGY

The Board of Management of the Dinapaka Missions University
hereby makes known that

Venhalasalam C

has been admitted to the Degree of

Doctor of Philosophy in Computer Science and Engineering

having been certified by the duly appointed Examiners
to have qualified to receive the same in the year

2013

for the thesis entitled

**A Study on Ultrasound Scan Images of the Liver for the Early
Detection of Hepatocellular Carcinoma.**

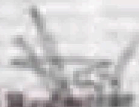
Given under the seal of the University

and signed by the Vice-Chancellor

on this 07th day of July 2014



Signature
COE



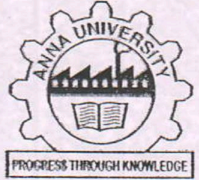
Signature
Vice-Chancellor

Reg. No. COMPGC 2009JART9 Registrar

Baram, India.

Date: 07-07-2014





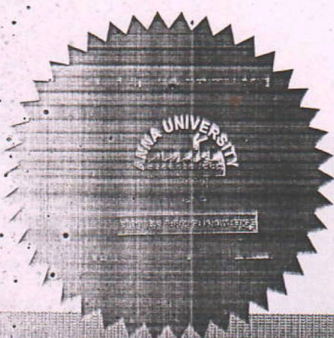
Reg.No. 20102012003/RG

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

Title of the Thesis:

DESIGN AND OPTIMIZATION OF FIXED AREA CELL LAYOUT PROBLEMS BY USING NON-TRADITIONAL OPTIMIZATION TECHNIQUES

Given under the Seal of the University



Chennai-600 025
India
January 2016

[Signature]
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice-Chancellor

CPPR 101967



மதுரை காமராஜர் பல்கலைக்கழகம்
Madurai Kamaraj University

அறிவியல் புலம் - வேதியியல்
FACULTY OF SCIENCE - CHEMISTRY

2020 ஆம் ஆண்டில் மதுரை காமராஜர் பல்கலைக்கழகத்தில் ஆய்வு திட்டத்தினை வழங்கிய ஆய்வேடுக்கான 29-06-2020 நாளன்று முனைவர் பட்டம் வழங்க தகுதியுடையவர் என்று தக்க தேர்வுரைகளையும் சான்றளிக்கப்பட்டு அப்பிரேமணியன் கு. என்பவருக்கு முனைவர் பட்டம் சாிக்கப்பட்டுள்ளது என்று மதுரை காமராஜர் பல்கலைக்கழக ஆட்சி நேரவை அறிவிக்கின்றது.

மதுரை காமராஜர் பல்கலைக்கழக இலாசீலமைப்புகள் சாிக்கப்பட்டு.

The Senate of the MADURAI KAMARAJ UNIVERSITY in the year 2020 hereby makes known that SUBRAMANIAN G 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 29-06-2020

Given under the seal of the University.

Register No : P4483

Subject Area : CHEMISTRY

Title of Thesis : EFFECTS AND CHARACTERIZATION STUDIES ON VARIOUS INHIBITORS OF MILD STEEL IN DIFFERENT MEDIUM

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



தேர்வுரைப்பாளர்
Controller of Examinations
in-charge

பதிவரை
Registrar
in-charge

குழுவின் தலைவர்
Vice-Chancellor

பதிவு நாள் Date 13 July 2022
பதிவு இடம், மதுரை - 625 021
Pakkalai Nagar, Madurai - 625 021

Centre Code : 17

Reg.No. 045976-46-D-MAT



Code no. 7397E : S.No.



பாரதிதாசன் பல்கலைக்கழகம் BHARATHIDASAN UNIVERSITY

(Accredited with A+ Grade by NAAC in the Third Cycle)

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



அறிவியல் புலம் FACULTY OF SCIENCE

பாரதிதாசன் பல்கலைக்கழக ஆட்சிக்குழு செப்டம்பர் 2020
ஆம் ஆண்டு மாரிச்சாமி அ என்பவர்
கணிதவியல் பாடத்தில் முனைவர்
பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள்
சான்றளித்தபடி முனைவர் பட்டத்தை அவருக்குப்
பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes
known that **MARICHAMY A** has been admitted
to the Degree of **DOCTOR OF PHILOSOPHY,** in the subject
MATHEMATICS, having been certified
by duly appointed Examiners to be qualified to receive
the same in **SEPTEMBER 2020.**

Place of Study: H.H. THE RAJAHS COLLEGE(Autonomous), PUDUKKOTTAI.

"Ph.D. Degree has been awarded in accordance with the Minimum Standards and
Procedure of the Regulations of the University Grants Commission 2016".



Title of the Thesis
"A STUDY ON GENERALIZATION OF FUZZY GRAPHS"

Given under the seal of the University.



திருச்சிராப்பள்ளி
Tiruchirappalli

நாள் : 9th December 2021
Date :

ISSUED ON : 09-12-2021


பதிவாளர் Registrar


துணைப்பதிவாளர் Vice - Chancellor

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