

Anna University



Reg.No. 20091032007/RG

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

Title of the Thesis:

PERFORMANCE EVALUATION OF UASBR FOR TREATING INDUSTRIAL WASTES

Given under the Seal of the University



ATTESTED

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

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

Chennai 600 025
India
January 2016

[Signature]
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice-Chancellor



Reg. No.:2002179701/RG



The Syndicate of the Anna University Chennai hereby makes known that **SEKARAN V** 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 2009.

Title of the thesis:

COMPARISON AND MODELLING OF ZONE SETTLING DATA FOR CYLINDRICAL AND VARYING CROSS SECTIONAL THICKENERS FOR DIFFERENT TYPES OF SUSPENDED MATERIALS

ATTESTED

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

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

Given under the Seal of the University



Chennai 600 025
India
February 2010

Controller of Examinations

Registrar

Vice-Chancellor

Anna University



Reg.No.20091012003/RG



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

Title of the Thesis:

ADVANCED OXIDATION OF TANNERY WASTEWATER FOR COD REDUCTION

Given under the seal of the University



ATTESTED

[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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

Chennai 600025
India
June 2018

[Signature]
Controller of Examinations
E.G.S. Pillay Engineering College

[Signature]
Registrar

[Signature]
Vice-Chancellor
E.G.S. Pillay Engineering College



Reg.No. 20104022003/RG

The Syndicate of the Anna University hereby makes known that **CHINNADURAI 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 **2016**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

Title of the Thesis:

A NOVEL FRAMEWORK FOR OPTIMIZING SCHEDULING ALGORITHMS IN HIGH LEVEL SYNTHESIS TOOLS

Given under the Seal of the University



ATTESTED

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

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

Chennai 600 025
India
May 2017
SABR/139

Controller of Examinations
CHINNADURAI M

Registrar

Chairman, Convener Committee
Vice-Chancellor
SABR/139/2017/REGISTRATION



Reg. No.:2004479703/RG



The Syndicate of the Anna University Chennai hereby makes known that **APPAVU alias BALAMURUGAN S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Information and Communication Engineering**, having been certified by the aily appointed examiners to be qualified to receive the same in the year **2009**.

Title of the thesis:

ENHANCING THE PERFORMANCE OF CLASSIFICATION ALGORITHMS THROUGH DATASET TUNING, FEATURE SELECTION AND EXCEPTION HANDLING

ATTESTED

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

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu.

Given under the Seal of the University



Chennai 600 025
India
February 2010

Controller of Examinations

Registrar

Vic :- Chancellor



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
Manonmaniam Sundaranar University



பொறியியற் புலம்
Faculty of Engineering



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு
கணேசன் தி

கணினி அறிவியல் மற்றும் பொறியியல் பாடப்பிரிவில்

அறிஞர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற
தேர்வினோர் சான்றளித்தவாறு ஜூன் 2017 ஆம்
ஆண்டில் இப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the **MANONMANIAM SUNDARANAR UNIVERSITY**
hereby makes known that **GANESANTH**
has been admitted to the Degree of Doctor of Philosophy in
COMPUTER SCIENCE AND ENGINEERING
he/she having been certified by duly appointed Examiners to
be qualified to receive the same in the year **JUNE 2017**

Given under the seal of the University.



திருநெல்வேலி, இந்தியா
Tirunelveli, India

நாள் / Dated 06.12.2017

Shihavan
(Dr.S.Prabakar)

தேர்வாணையர்
Controller of Examinations

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

E.G.S. Pillay Engineering College,
Thir. Nagore - 611 002
Nagapattinam (Dt) Tamil Nadu
(Dr.K.Baskar)

P. Govindaraju
(Dr.P.Govindaraju)
பதிவாளர்
Registrar

துணைவேந்தர்
Vice-Chancellor



பொறியியற் புலம்
FACULTY OF ENGINEERING

மனோம்மணியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு
கண்ணன் சா /

கணினி இயல் மற்றும் பொறியியல் பாடப்பிரிவில் /

அறிஞர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற
ஜனவரி 2013 / தேர்வினோர் சான்றளித்தவாறு 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 S /
has been admitted to the Degree of Doctor of Philosophy in
COMPUTER SCIENCE AND ENGINEERING /

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

ATTESTED


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


E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.


Nagapattinam (Dt) Tamil Nadu.


Given under the seal of the University.



திருநெல்வேலி, இந்தியா
Tirunelveli, India
Dated 23.09.2013


S. Prabakar
(Dr.S.Prabakar)
தேர்வாணையர்
Controller of Examinations


(Dr.T.Tamizh Chelvam)
பதிவாளர்
Registrar


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



Reg No.80806405008/RG

The Syndicate of the Anna University Chennai hereby makes known that **MURALI N** has been admitted to the **DEGREE OF MASTER OF ENGINEERING** in **COMPUTER SCIENCE AND ENGINEERING** under the *Faculty of Information and Communication Engineering*, 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** at the Examination held in **NOVEMBER 2008**.

Given under the Seal of the University



Chennai 600 025
India
June 2009
EST/144/08/147

Controller of Examinations

Registrar

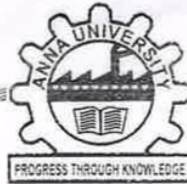
ATTESTED

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

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

Vice-Chancellor

Anna University



Reg.No.1414459842/RG



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

Title of the Thesis:

LOW LATENCY ANONYMITY DETECTION AND PREVENTION USING NOVEL DIVERSITY MIX TECHNIQUES


Given under the seal of the University



ATTESTED

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

Chennai 600025
India
June 2018
PAB014209


Controller of Examinations
MANIVANNAN R


Registrar


Vice-Chancellor
MUTHUSWAMY ENGINEERING COLLEGE



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamilnadu, India.

SI.No.: T 18013012

Register No. : 2009791123

Date : 11-02-2021

PROVISIONAL CERTIFICATE - Ph.D.



This is to certify that **SUDHIR SHENAI** has qualified himself for the award of the Degree of Doctor of Philosophy in Faculty of COMPUTER SCIENCE AND ENGINEERING on 25th January 2021 and he having been certified by duly appointed Examiners and approved by the Board of Management of Sathyabama Institute of Science and Technology.

Title : CLOUD COMPUTING FRAMEWORK FOR AUTO FEDERATION OF CLOUD SERVICES WITH SECURE NEGOTIATIONS

Chennai - 600 119.

Date: Thursday, February 11, 2021

[Signature]
Registrar

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeppiaar Nagar, Rajiv Gandhi Salai,
Chennai - 600 119.

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

[Signature]
Controller of Examinations

Dr. S. Igni Sabasti Prabu,
Controller of Examinations,
Sathyabama Institute of Science and Technology,
Jeppiaar Nagar, Rajiv Gandhi Salai,
Chennai - 600 119.



Anna University



Reg.No. 16144597320/RG

The Syndicate of the Anna University hereby makes known that **BALASUBRAMANIAN K** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2021**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".

Title of the Thesis:

TRAFFIC ANALYSIS USING CORRELATION-BASED ATTACKS BASED ON ANONYMITY NETWORKS

ATTESTED


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

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.

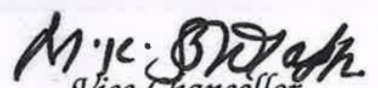
Given under the Seal of the University



Chennai 600 025
India
March 2021
RAR01-745


Controller of Examinations
BALASUBRAMANIAN K


Registrar


Vice-Chancellor
REGDHALWENDECHITTYKODAKAM



**ANNA UNIVERSITY
CHENNAI - 600 025
PROVISIONAL CERTIFICATE**




Folio No.: SAR014526


This is to certify that the candidate has qualified for the award of **Degree of Doctor of Philosophy** in compliance of the UGC Regulations 2016 as detailed below :

Name : KALAIVANI K
Registration Number : 18234591308
Degree : Ph.D.
Department / Centre / Subject : COMPUTER SCIENCE AND ENGINEERING
Faculty : INFORMATION AND COMMUNICATION ENGINEERING
Date, Month & Year of Viva-Voce Examination held : 21.03.2022
Title of the Thesis : EFFICIENT INTRUSION DETECTION MODELS USING DEEP LEARNING TECHNIQUES FOR FOG COMPUTING ENVIRONMENT



ATTESTED


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


Controller of Examinations

Chennai - 600 025
Date: 12-APR-2022

Anna University

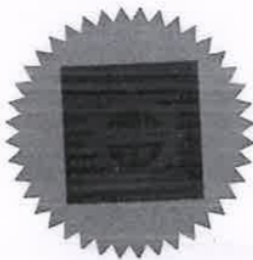


Reg.No. 1323469213/RG

The Syndicate of the Anna University hereby makes known that **ELAKIYA E** 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:

TOPIC AND SUBTOPIC DETECTION USING TEXT MINING



Given under the Seal of the University

Chennai 600 025
India
March 2021
KATRO/04/21


Controller of Examinations


Registrar


Vice-Chancellor

ATTESTED


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



Reg.No. 20093012012/RG

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

Title of the Thesis:

PERFORMANCE ENHANCEMENT OF AC-DC-AC CONVERTER SYSTEMS

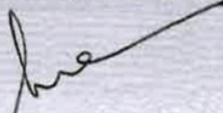
Given under the Seal of the University

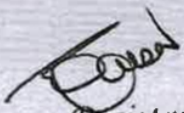


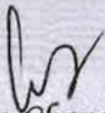
ATTESTED

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

Chennai 600 025
India
January 2016


Controller of Examinations


Registrar


Vice-Chancellor

Serial No. : C24/15/20703

Register No. : PHD 503

Pondicherry University



The Vice-Chancellor and the Executive Council of the Pondicherry University, on the recommendations of the duly appointed Board of Examiners, hereby declare that

SURESH PADMANABHAN, T.

has been admitted to the Degree of

DOCTOR OF PHILOSOPHY

having submitted a thesis entitled

"NOVEL CONTROL STRATEGIES FOR AC-AC POWER CONVERSION SYSTEMS"

and having successfully completed the prescribed requirements in the year MARCH 2015.

Discipline : ELECTRICAL AND ELECTRONICS ENGINEERING.

Given under the Seal of the University



M. Ramachandran
Registrar

Puducherry

Date 4 OCT 2016

ATTESTED

[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,

PRINCIPAL

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

[Signature]
Vice-Chancellor

REG. NO. 75507002



Faculty of Engineering and Technology

The Board of Management of the SRM University

hereby makes known that

PALANIVEL P

has been admitted to the degree of **Doctor of Philosophy**,

having been certified by duly appointed examiners to be

qualified to receive the same in DECEMBER - 2012

Title of the Thesis: **PERFORMANCE ANALYSIS OF THREE PHASE CASCADED MULTILEVEL INVERTERS USING PULSE WIDTH MODULATION TECHNIQUES (ELECTRICAL AND ELECTRONICS ENGINEERING)**

Given under the seal of the University



ATTESTED

[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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

DATED 28-DEC-2012

SRM NAGAR, KATTANKULATHUR - 603 203
KANCHI PURAM (DIST) TAMILNADU, INDIA

[Signature]
REGISTRAR

[Signature]
VICE-CHANCELLOR



ANNA UNIVERSITY
CHENNAI - 600 025
PROVISIONAL CERTIFICATE

Folio No.: RAR013215

This is to certify that the candidate has qualified for the award of *Degree of Doctor of Philosophy* in compliance of the UGC Regulations 2016 as detailed below :

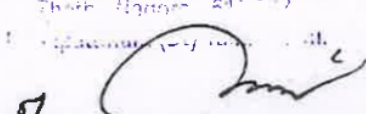
Name : CHITRAKALA G
Registration Number : 16243597182
Degree : Ph.D.
Department / Centre / Subject : PETROCHEMICAL TECHNOLOGY
Faculty : ELECTRICAL ENGINEERING
Date, Month & Year of Viva-Voce Examination held : 14.12.2020
Title of the Thesis : DISTORTION REDUCTION, COMPONENTS COUNT WANING AND CONDUCTION PATH CURBING OPTIONS IN MULTILEVEL INVERSION



ATTESTED


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

E.G.S. Pillay Engineering College,
Thiruvananthapuram - 611 012


Controller of Examinations

Chennai - 600 025

Date: 07-JAN-2021



**ANNA UNIVERSITY
CHENNAI - 600 025
PROVISIONAL CERTIFICATE**



Folio No.: TAR013046

This is to certify that the candidate has qualified for the award of **Degree of Doctor of Philosophy** in compliance of the UGC Regulations 2016 as detailed below :

Name : SURESH BABU P J
Registration Number : 17153597221
Degree : Ph.D.
Department / Centre / Subject : ELECTRICAL AND ELECTRONICS ENGINEERING
Faculty : ELECTRICAL ENGINEERING
Date, Month & Year of Viva-Voce Examination held : 23.11.2022
Title of the Thesis : A PERFORMANCE STUDY ON COPPER INDIUM SELENIDE / ZINC SULPHIDE QUANTUM DOTS FOR SOLAR CELL APPLICATIONS

ATTESTED

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

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

Controller of Examinations



Chennai - 600 025

Date: 20-DEC-2022



Reg.No.20104012014/RG

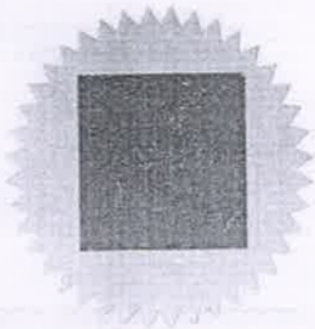


The Syndicate of the Anna University hereby makes known that **PADMANABAN B** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Information and Communication Engineering**, having been certified by the duly appointed examiners to be qualified to receive the same in the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

Title of the Thesis:

INVESTIGATIONS ON THE CHARACTERISTICS OF GATE ENGINEERED GATE ALL AROUND MOSFET FOR BIOMOLECULE DETECTION

Given under the seal of the University



ATTESTED

[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.
PRINCIPAL

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

Chennai 600025
India
June 2018

[Signature]
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice Chancellor



Reg No. 7081051115

The Syndicate of the Anna University Coimbatore hereby makes known that **RAJARAM A** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING** having been certified by the duly appointed examiners to be qualified to receive the same in the year **2013**.

Title of the thesis:

A TRUST BASED DISTRIBUTED AUTHENTICATION PROTOCOL FOR SECURITY IN MOBILE AD HOC NETWORKS

ATTESTED

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

E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.

ANNA UNIVERSITY COIMBATORE ANNA UNIVERSITY COIMBATORE ANNA UNIVERSITY COIMBATORE ANNA

Given under the Seal of the University



Coimbatore 641 047
India
March 2013

Controller of Examinations

Registrar

Vice-Chancellor



Reg.No. 2007469145/RG

The Syndicate of the Anna University hereby makes known that **RAMESH S 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 2012.

Title of the Thesis:

CERTAIN INVESTIGATIONS ON EFFICIENT ROBUST WATERMARKING ALGORITHMS FOR ENHANCEMENT OF SECURITY IN IMAGES

Given under the Seal of the University



ATTESTED


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

E.G.S. Pillay Engineering College,
Theruvu Road, Chennai - 600 012,
Nagapattinam (Dist. Thanjavur), Tamil Nadu.

Anna University



Reg.No.1414&9632, RG

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

Title of the Thesis:

NOVEL SENSING MODELS AND CLUSTERING METHODOLOGIES IN WIRELESS SENSOR NETWORK FOR MANAGING ENERGY UTILIZATION



Given under the seal of the University

ATTESTED

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

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

Checked: 600025
T:slia
June 2018
M:slia

[Signature]
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice-Chancellor

Anna University



Reg.No. 17144591180/RG

The Syndicate of the Anna University hereby makes known that **DEVARAJAN D** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2021**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".

Title of the Thesis:

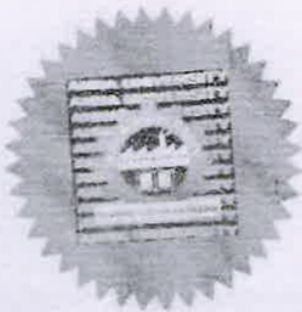
AN OPTIMIZED LEARNING BASED RETINAL IMAGE SEGMENTATION MODEL FOR EARLY DETECTION OF RETINAL DISORDERS

ATTESTED

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

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

Given under the Seal of the University



Chennai 600 025
India
March 2021

[Signature]
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice-Chancellor

Anna University



Reg. No.1418599118/RG

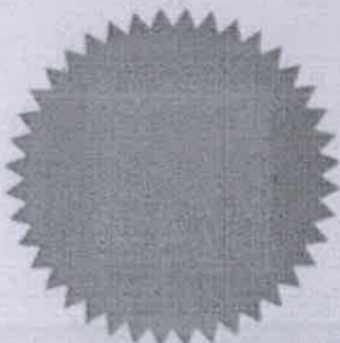


The Syndicate of the Anna University hereby makes known that **IRSHAD AHAMED M** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the *Faculty of Technology*, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2020**. The degree has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

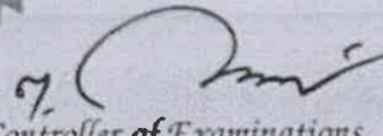
Title of the Thesis:

STUDIES ON Cu_2SnS_3 AND $PbSe_xS_{1-x}$ QUANTUM DOTS FOR OPTOELECTRONIC APPLICATIONS


Given under the seal of the University




Chennai 600025
India
March 2021

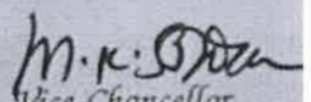

Controller of Examinations

ATTESTED


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

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


Registrar


Vice-Chancellor

Anna University



Reg.No.20102012042/RG



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

STUDY ON THE INFLUENCE OF SURFACTANTS IN IMPROVING THE PERFORMANCE OF TURNING PROCESS


Given under the seal of the University




ATTESTED


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

Chennai 600025
India
June 2018


Controller of Examinations


Registrar


Vice-Chancellor



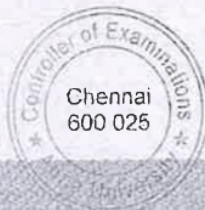
**ANNA UNIVERSITY
CHENNAI - 600 025**

PROVISIONAL CERTIFICATE

Folio No.: PAR014200

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 : ANAKATH A S
Registration Number : 1513459177
Degree : Ph.D.
Department/Centre : MATHEMATICS
Faculty : INFORMATION AND COMMUNICATION
ENGINEERING
Date, Month & Year of Viva-Voce
Examination held : 11.10.2017
Title of the Thesis : A STUDY OF PRIVACY PRESERVING
AUTHENTICATION WITH ANONYMITY
AND MULTI FACTOR SECURITY IN
CLOUD COMPUTING ENVIRONMENT



Chennai - 600 025

Date: 13-NOV-17

[Signature]
Controller of Examinations

ATTESTED

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

Anna University



Reg.No. 16154597382/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 2020. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".

Title of the Thesis:

DESIGN OF AGENT INTERACTION SYSTEM FOR MONITORING DATA LOGGING IN REMOTE LOCATION

ATTESTED

[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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

Given under the Seal of the University



Chennai 600 025
India
March 2021
B.A.002/064

[Signature]
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice-Chancellor



**ANNA UNIVERSITY
CHENNAI - 600 025
PROVISIONAL CERTIFICATE**




Folio No.: RAR014593

This is to certify that the candidate has qualified for the award of **Degree of Doctor of Philosophy** in compliance of the UGC Regulations 2016 as detailed below :

Name : MANIKANDA KUMARAN K
Registration Number : 16144597379
Degree : Ph.D.
Department / Centre / Subject : COMPUTER SCIENCE AND ENGINEERING
Faculty : INFORMATION AND COMMUNICATION ENGINEERING
Date, Month & Year of Viva-Voce Examination held : 15.10.2020
Title of the Thesis : TASK OFFLOADING OPTIMIZATION FOR CLOUD-ENHANCED ROBOTIC SYSTEM USING HYBRID INTELLIGENT GENERIC ALGORITHM



Chennai - 600 025
Date: 07-NOV-2020


Controller of Examinations

ATTESTED

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

Anna University



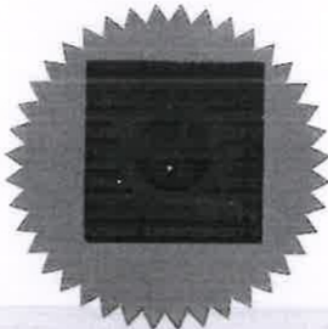
Reg.No. 17144597127/RG

The Syndicate of the Anna University hereby makes known that **RAJU K** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2022**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".

Title of the Thesis:

IDENTITY BASED AUTHENTICATION IN CLOUD ENVIRONMENT USING DEEP LEARNING AND CRYPTOGRAPHIC TECHNIQUES

Given under the Seal of the University



ATTESTED

[Signature]
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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

Chennai 600 025
India
July 2022
SAR014514

[Signature]
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice-Chancellor

CI 002810



பாரதிதாசன் பல்கலைக்கழகம்
BHARATHIDASAN UNIVERSITY

Established by the Government of Tamil Nadu in 1973. Recognized by the Council for Higher Education,
Member & Associate of Indian Universities and Association of Universities in India. Accredited by UGC, India.

வணிகவியல் புலம்
FACULTY OF COMMERCE

பாரதிதாசன் பல்கலைக்கழகம் நட்சிக் துடி ஜூலை 2011

ஆம் ஆண்டு

R. கார்த்தி

என்பவர்

வணிகவியல்

பிரிவில்

முனைவர்

என்னும்

பட்டத்கிறகுக் ககுதி பெற்றவர் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி

முனைவர் என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக

இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the BHARATHIDASAN UNIVERSITY hereby makes known that R. KARTHI has been admitted to the Degree of DOCTOR OF PHILOSOPHY, in the subject COMMERCE, having been certified by duly appointed Examiners to be qualified to receive the same in JULY 2011.

Thesis Title

"A STUDY ON CUSTOMERS ATTITUDE TOWARDS THE SERVICES OF LIFE INSURANCE CORPORATION OF INDIA AT NAGAPATTINAM DISTRICT - TAMILNADU"

ATTESTED

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

Given under the seal of the University
G.S. Pillay Engineering College,
Thethi, Nagore - 611 002.
Nagapattinam (Dt) Tamil Nadu.



திருச்சிராப்பள்ளி
Tiruchirappalli

நாள் : 10th November 2011
Date

பதிவாளர் Registrar

தலைமுனைவர் Vics - Chancellor

ISSUED ON : 10 NOV 2011



பாரதியார் பல்கலைக் கழகம்
Bharathiar University

வணிகவியல் புலம்

FACULTY OF COMMERCE



பாரதியார் பல்கலைக் கழகத்தால் முறையாக அமைக்கப்பட்ட தேர்வாளர் குழு, சந்திரசேகர் எஸ் ,2013 ஆம் ஆண்டு, ஏப்ரல் 10 ஆம் நாளில் வணிகவியல் 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 **CHANDRASEKAR S** has been admitted to the Degree of **DOCTOR OF PHILOSOPHY in COMMERCE**, having been certified by duly appointed Examiners to be qualified to receive the same on **10th APRIL 2013**.

Given under the Seal of the University.



கோயம்புத்தூர்
Coimbatore
நாள்

Dated: **10th June 2013**

K. G. Senthil

தேர்வாளர்
Controller of Examinations

பதிவாளர்
Registrar



ATTESTED
N. BABALAN, M.E., Ph.D.,
PRINCIPAL
E.S. Pillay Engineering College,
Thekkil Nagore - 611 002,
Nagapattinam (Tamil Nadu), India.

துணைவேந்தர்
Vice-Chancellor



பாரதிதாசன் பல்கலைக்கழகம் BHARATHIDASAN UNIVERSITY

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

Established by the Government of Tamil Nadu in 1981, Recognized by U.G. under 10/1 and 10/2 of U.G. Act
Member, Association of Indian Universities and Association of Commonwealth Universities



மேலாண்மையியல் புலம் FACULTY OF MANAGEMENT

பாரதிதாசன் பல்கலைக்கழக ஆட்சிக் குழு செப்டம்பர் 2021
ஆம் ஆண்டு ஆஷா டெய்சி பெ என்பவர்
மேலாண்மையியல் பாடத்தில் முனைவர்
பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வுகள்
சான்றிதழ் முனைவர் பட்டத்தை அவருக்குப்
பல்கலைக்கழக இலச்சினைபுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes
known that **ASHA DAISY B** has been admitted
to the Degree of **DOCTOR OF PHILOSOPHY,** in the subject
MANAGEMENT, having been certified
by duly appointed Examiners to be qualified to receive
the same in **SEPTEMBER 2021.**

Place of Study: A. VEERTYA VAHOYAR MEMORIAL SRI PUSHPAM COLLEGE(Autonomous), POONDI.

"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 EMPLOYEE MOTIVATION AND ENGAGEMENT WITH SPECIAL REFERENCE TO ANCILLARY INDUSTRIES OF BHEL, TIRUCHIRAPPALLI."



Given under the seal of the University.

ATTESTED

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

Vice-Chancellor

திருச்சிரப்பள்ளி
Tiruchirappalli

Registrar

திகதி : 9th December 2021
Date

ISSUED ON : 09-12-2021



100242

No. : P 8677

KPVP 50005809

மதுரை காமராசர் பல்கலைக்கழகம்
Madurai Kamaraj University
UNIVERSITY WITH POTENTIAL FOR EXCELLENCE



FACULTY OF SCIENCE - COMPUTER SCIENCE
அறிவியற் புலம் - கணினி அறிவியல்

2015 ஆம் ஆண்டில் மதுரை காமராசர் பல்கலைக்கழகத்தில்

ஆய்வுதீர்மானம் வழங்கிய ஆய்வேட்டுக்காக 12-11-2015 நாளன்று முனைவர் பட்டம் பெறத் தகுதியுடையவர் என்று தக்க தேர்வாளர்களால் சான்றளிக்கப்பட்டு

சந்திரபோஸ், அ.

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

மதுரை காமராசர் பல்கலைக்கழக இலச்சினையுடன், மதுரையில் 2016 ஆம் ஆண்டு பிப்ரவரி திங்கள் 12 ஆம் நாள் அளிக்கப்பட்டது.

The Senate of the Madurai Kamaraj University hereby makes known that
CHANDRABOSE, 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 12-11-2015

Given under the seal of the Madurai Kamaraj University, at Madurai this 12th day of February 2016

Title of the Thesis : "A FRAME WORK FOR THE ENGINEERING OF RELIABLE DISTRIBUTED SYSTEM".



Subject Area : COMPUTER SCIENCE

ATTESTED

[Signature]
D.S. RAMABALAN, M.E., Ph.D.
PRINCIPAL

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

பல்கலைக்கழகம், மதுரை - 625 021
Palkalainagar, Madurai - 625 021
நாள் Dated: 12-02-2016

[Signature]
தேர்வாளர்
Controller of Examinations

[Signature]
பதிவாளர்/பொறுப்பு
Registrar./in-charge

[Signature]
Convener, Syndicate Committee
துணைவேந்தர்
Vice-Chancellor



பாரதியார் பல்கலைக் கழகம்
Bharathi University

அறிவியல் புலம்

FACULTY OF SCIENCE

பாரதியார் பல்கலைக் கழகத்தால் முறையாக அமைக்கப்பட்ட தேர்வாளர் குழு.
வனிதா ஜா, 2019ஆம் ஆண்டு, செப்டம்பர் 4ஆம் நாளில் கணிப்பான் அறிவியல்
என்னும் பிரிவில் ஆய்வியல் அறிஞர் என்றும் பட்டம் பெறத் தகுதியடைந்திருப்பதாகச் சான்றளித்ததை
ஏற்று, அவருக்கு அந்தப் பட்டத்தைப் பஸ்கலைக் கழக இலச்சினையுடன்.

பாரதியார் பல்கலைக் கழக ஆட்சிக் குழு வழங்குகின்றது.

The Syndicate of the Bharathi University hereby makes known that **VANITHA J**
has been admitted to the Degree of DOCTOR OF PHILOSOPHY in COMPUTER SCIENCE,
having been certified by duly appointed Examiners to be qualified to receive the same on 4th SEPTEMBER 2019.



ATTESTED

[Signature]

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

E.G.S. Pillay Engineering College,
Thethir Nagore - 611 007,
Nagapattinam, Tutukudi, Tamil Nadu.

Given under the Seal of the University.



கோயம்புத்தூர்
Coimbatore
61853703
நாள்

[Signature]
பதிவாளர்(பொ)
Registrar(i/c)

Dated: 18th December 2019 Controller of Examinations i/c

ISSUED ON - 3 OCT 2020

துணைவேந்தர்
Vice-Chancellor



Pondicherry University



The Vice-Chancellor and the Executive Council of the Pondicherry University, on the recommendations of the duly appointed Board of Examiners, hereby declare that

ARUNKUMAR, P.

has been admitted to the Degree of

DOCTOR OF PHILOSOPHY

in Computer Science and Engineering for the thesis entitled "A Multi-Objective Pareto based Hyper-Heuristic approach to optimize scientific and big data workflows task scheduling in IAAS cloud" in November 2019.



ATTESTED

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

[Signature]
Registrar

Puducherry
Date 26 FEB 2020

[Signature]
Vice-Chancellor



Reg. No.:2005269106/RG

The Syndicate of the Anna University Chennai hereby makes known that **RAMABALAN 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 **2009**.

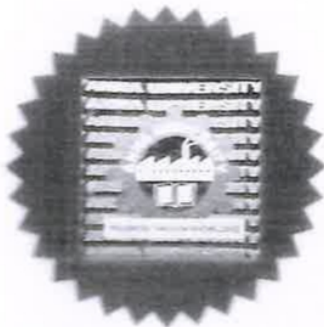
Title of the thesis:

EVOLUTIONARY TRAJECTORY PLANNING FOR INTELLIGENT ROBOTS

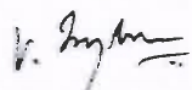
ATTESTED

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


Given under the Seal of the University



Chennai 600 025
India
February 2010


Controller of Examinations


Registrar


Vice-Chancellor

No. 100736



அண்ணாமலைப் பல்கலைக்கழகம்

ANNAMALAI UNIVERSITY



பொறியியற்புலம்

FACULTY OF ENGINEERING & TECHNOLOGY

செப்டம்பர், 2015 இல்

உருவாக்கப் பொறியியல்

பிரிவில் நடத்திய தேர்வுகளில்

கிருஷ்ண மோகன் ச

தேர்ச்சியடைந்து ஆய்வேட்டை மதிப்பீடு முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினர் சான்றளித்தபடி,

ஆய்வியல் அறிஞர்

மட்டம் பெறுவதற்கு உரியவர் ஆகின்றார்

என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக் குழு இதன்வழி அறிவிக்கின்றது.

The Syndicate of the ANNAMALAI UNIVERSITY hereby makes known that KRISHNAMOHAN S has been admitted to the Degree of DOCTOR OF PHILOSOPHY in MANUFACTURING ENGINEERING, he/she having been certified by duly appointed Board of Examiners who valued his/her thesis to be qualified to receive the same in SEPTEMBER, 2015.

TITLE OF THE THESIS

SOME STUDY ON Ti6Al4V/SiCp NANO COMPOSITES.

பல்கலைக்கழக முத்திரை பெறுகின்றது
Given under the seal of the University



அண்ணாமலைநகர்
Annamalainagar

நாள்:

Dr. K. Arumugam

பதிவாளர் (பொறுப்பு)

ATTESTED

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

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

Dr. S. Manian

குணணி வேந்தர்

No. 232429



அண்ணாமலைப் பல்கலைக்கழகம்

ANNAMALAI UNIVERSITY



பொறியியற்புலம்
FACULTY OF ENGINEERING & TECHNOLOGY

டிசம்பர், 2017 இல்

உருவாக்கப் பொறியியல்

பிரிவில் நடத்திய தேர்வுகளில்

ராமானுஜம் ந

தேர்ச்சியடைந்து ஆய்வேட்டை மதிப்பிட முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினர் சான்றளித்தபடி.

ஆய்வியல் அறிஞர்

பட்டம் பெறுவதற்கு உரியவர் ஆகின்றார்

என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக் குழு இதன்வழி அறிவிக்கின்றது.

The Syndicate of the **ANNAMALAI UNIVERSITY** hereby makes known that **RAMANUJAM N** has been admitted to the Degree of **DOCTOR OF PHILOSOPHY in MANUFACTURING ENGINEERING**, he/she having been certified by duly appointed Board of Examiners who valued his/her thesis to be qualified to receive the same in **DECEMBER, 2017**.

TITLE OF THE THESIS

STUDY ON WEAR BEHAVIOR OF MAGNESIUM (AZ91) MATRIX WITH SiCp REINFORCED COMPOSITE PRODUCED THROUGH ACCUMULATIVE DIFFUSION BONDING

பல்கலைக்கழக முத்திரை பெறுகின்றது
Given under the seal of the University



ATTESTED

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

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

அண்ணாமலைநகர்
Annamalainagar

Dr. K. Arumugam

பதிவாளர் (பொறுப்பு)
Registrar (i/c)

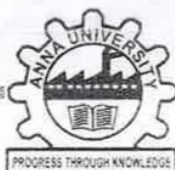
Dr. S. Manian

துணை வேந்தர்
Vice-Chancellor

நாள்:

Dated: 17/02/2018

Anna University



Reg.No.20112012007/RG



The Syndicate of the Anna University hereby makes known that **JEEVAMALAR J** 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:

EXPERIMENTAL INVESTIGATIONS AND PARAMETRIC STUDY OF ELECTRIC DISCHARGE DRILLING FOR INCONEL 718 ALLOY


Given under the seal of the University



ATTESTED


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

Chennai 600025
India
June 2018
PAR012128


Controller of Examinations
JEEVAMALAR J


Registrar


Vice-Chancellor
SANKARANARAYANAN

No. 242802



அண்ணாமலைப் பல்கலைக்கழகம்

ANNAMALAI UNIVERSITY



பொறியியற்புலம்
FACULTY OF ENGINEERING & TECHNOLOGY

டிசம்பர், 2017 இல்

உருவாக்கப் பொறியியல்

பிரிவில் நடத்திய தேர்வுகளில்

சிவராமகிருஷ்ணன் வே

தேர்ச்சியடைந்து ஆய்வேட்டை மதிப்பிட முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினர் சான்றளித்தபடி,

ஆய்வியல் அறிஞர்

பட்டம் பெறுவதற்கு உரியவர் ஆகின்றார்

என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக் குழு இதன்வழி அறிவிக்கின்றது.

The Syndicate of the ANNAMALAI UNIVERSITY hereby makes known that SIVARAMAKRISHNAN V has been admitted to the Degree of DOCTOR OF PHILOSOPHY in MANUFACTURING ENGINEERING, he/she having been certified by duly appointed Board of Examiners who valued his/her thesis to be qualified to receive the same in DECEMBER, 2017.

TITLE OF THE THESIS

STUDY ON HOT DEFORMATION BEHAVIOR OF MAGNESIUM (AZ91) MATRIX WITH SiC_p REINFORCED COMPOSITES FABRICATED THROUGH ACCUMULATIVE DIFFUSION BONDING

பல்கலைக்கழக முத்திரை பெறுகின்றது
Given under the seal of the University



அண்ணாமலைநகர்
Annamalainagar

நாள்:

Dr. K. Arumugam

பதிவாளர் (பொறுப்பு)

ATTESTED

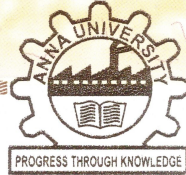
Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL

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

Dr. S. Marian

துணை வேந்தர்

Anna University



Reg.No.20112012007/RG

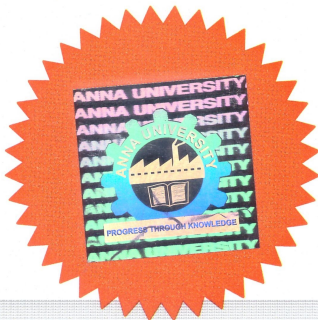


The Syndicate of the Anna University hereby makes known that **JEEVAMALAR J** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **Faculty of Mechanical Engineering**, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2017**. The degree has been awarded in compliance with the “**University Grants Commission, Regulations 2009**”.

Title of the Thesis:


EXPERIMENTAL INVESTIGATIONS AND PARAMETRIC STUDY OF ELECTRIC DISCHARGE DRILLING FOR INCONEL 718 ALLOY

Given under the seal of the University



Chennai 600025
India

June 2018
PAR012128


Controller of Examinations
JEEVAMALAR J


Registrar


Vice-Chancellor

ESBDC488EDUCATAAALD282464FDAF220



Indian Institute of Technology Madras

hereby confers the degree of
Doctor of Philosophy
of the Institute

on

SIVARAMAN V

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



ME08D011

STUDY ON MACHINABILITY OF A FERRITE-BAINITE-MARTENSITE
MICROALLOYED STEEL

Given this day the Twentyfirst of July, 2017
under the seal of the Institute.

ATTESTED

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

E.G.S. Pillay Engineering College,
Thathi Nacore - 611 302,
Nagapattinam (By) Tamil Nadu.



Registrar

Director

Chairman, Board of Governors



Reg.No. 1314279202/RG

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

INVESTIGATION ON MACHINABILITY AND DAMPING PERFORMANCE BY MODIFICATION OF BORING BAR USING PASSIVE DAMPING METHOD

Given under the Seal of the University



Chennai 600 025
India
May 2017
MAY 2017


Controller of Examinations
CHOCKALINGAM S


Registrar


Chairman, Convener Committee
Vice-Chancellor

ATTESTED


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



Code No. 0493C-S.96.869561

பாரதிதாசன் பல்கலைக்கழகம் BHARATHIDASAN UNIVERSITY

Re-accredited with 'A' Grade by NAAC
(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 ஆட்சிக் குழு செப்டம்பர் 2015

ஆம் ஆண்டு **அ. சார்லஸ்** என்பவர்
வேதியியல் பிரிவில் முனைவர் என்னும்
பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி
முனைவர் என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக
இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the BHARATHIDASAN UNIVERSITY hereby makes known that **A. CHARLES** 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 2015**.

Thesis Title

"PHYTOCHEMICAL AND BIOACTIVITY STUDIES OF ALSEODAPHNE SEMECARPIFOLIA NEES AND THUNBERGIA FRAGRANS ROXB"

Given under the seal of the University.



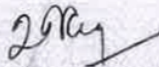
திருச்சிரப்பள்ளி
Tiruchirappalli

05th November 2015

நாள் :
Date :


ISSUED ON 05-11-2015


பதிவாளர் Registrar


துணைவேந்தர் Vice-Chancellor

J 033671

ATTESTED


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



அறிவியற் புலம்
FACULTY OF SCIENCE

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு

கோபி சி

வேதியியல் பாடப்பிரிவில்

அந்நூர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற தேர்வினோர் சான்றளித்தவாறு டிசம்பர் 2015 ஆம் ஆண்டில் இப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the **MANONMANIAM SUNDARANAR UNIVERSITY** hereby makes known that **GOPI C** has been admitted to the Degree of **Doctor of Philosophy in CHEMISTRY**.

he/she having been certified by duly appointed Examiners to be qualified to receive the same in the year **DECEMBER 2015**



Given under the seal of the University.

Shikhar
(Dr.S.Prabakar)

John De Brito
(Dr.A.John De Brito)

Selvi. Apoorva I.A.S.
(Selvi. Apoorva I.A.S.)
(Convenor)

திருநெல்வேலி, இந்தியா
Tirunelveli, India
நாள், Dated13.02.2016

தேர்வாளையர்
Controller of Examinations

பதிவாளர்
Registrar

குணை வேந்தர்
Vice-Chancellor

ATTESTED

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

H 074565



Code No. 00690 -S.No. 733319

பாரதிதாசன் பல்கலைக்கழகம்
BHARATHIDASAN UNIVERSITY

(Established by the Government of Tamil Nadu in 1982; Recognized by UGC under 21 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 ஆட்சிக்குழு ஆகஸ்டு 2013

ஆம் ஆண்டு **க. பொன்சடை லக்ஷ்மி** என்பவர்
வேதியியல் பிரிவில் முனைவர் என்னும்
பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி
முனைவர் என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக
இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes
known that **S. PONSADAI LAKSHMI** 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
AUGUST 2013.

Thesis Title

"WATER QUALITY ASSESSMENT AND MONITORING IN AND
AROUND MAYILADUTHURAI OF NAGAPATTINAM DISTRICT"



Given under the seal of the University.

திருச்சிரப்பள்ளி
Tiruchirappalli

தாள் :
Date : 25th November 2013

பதிவாளர் Registrar

AUTHORIZED SIGNATORY
For
துணைவேந்தர் Vice - Chancellor

ISSUED ON : 25 NOV 2013

ATTESTED

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

No. 131196



அண்ணாமலைப் பல்கலைக்கழகம்

ANNAMALAI UNIVERSITY



கலையியற்புலம்
FACULTY OF ARTS

நவம்பர், 2014 இல்

ஆங்கிலம்

பிரிவில் நடத்திய தேர்வுகளில்

அசாருதீன் நெ

தேர்ச்சியடைந்து ஆய்வேட்டை மதிப்பிட முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினர் சான்றளித்தபடி,

ஆய்வியல் அறிஞர்

பட்டம் பெறுவதற்கு உரியவர் ஆகின்றார்

என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக் குழு இதன்வழி அறிவிக்கின்றது.

The Syndicate of the *ANNAMALAI UNIVERSITY* hereby makes known that **ASHARUDEEN N** has been admitted to the Degree of **DOCTOR OF PHILOSOPHY in ENGLISH**, he/she having been certified by duly appointed Board of Examiners who valued his/her thesis to be qualified to receive the same in **NOVEMBER, 2014**.

TITLE OF THE THESIS

AN ANALYSIS OF FLUSTERED CHARACTERS IN THE SELECT PLAYS OF SAM SHEPARD

பல்கலைக்கழக முத்திரை பெறுகின்றது
Given under the seal of the University



அண்ணாமலைநகர்
Annamalainagar

நாள்:

Dated: 26/02/2016

K. Arumugam
Dr. K. Arumugam

பதிவாளர் (பொறுப்பு)

Registrar (i/c)

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

S. Manian
Dr. S. Manian
துணை வேந்தர்
Vice-Chancellor

தமிழ்ப் பல்கலைக்கழகம்
தஞ்சாவூர்
தமிழ்நாடு, இந்தியா



TAMIL UNIVERSITY
THANJAVUR
TAMIL NADU, INDIA

வ.எண்: 09050
Folio No:-

வளர்தமிழ்ப் புலம்

Faculty of DEVELOPING TAMIL

தமிழ்ப் பல்கலைக்கழக ஆட்சிக் குழு 2007

The Syndicate of Tamil University hereby makes

ஆம் ஆண்டு மொழிபெயர்ப்புத் துறையில்
முனைவர் பட்டத்திற்குத் தகுதிபெற்றவர் என முறையாக
அமைக்கப்பெற்ற தேர்வாளர்கள் சான்றளித்தவாறு
சு.திருநாவுக்கரசு அவர்களுக்கு முனைவர்
பட்டத்தைப் பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

known that the Degree of **DOCTOR OF PHILOSOPHY**
in **TRANSLATION**
has been conferred upon **S.THIRUNAVUKKARASU**
he / she having been certified by duly appointed examiners
to be qualified to receive the same in the year **2007**.

Given under the Seal of the University.



ஆய்வுத் தலைப்பு : மேல்நிலைப் பள்ளி மாணவர்களின் மொழிபெயர்ப்பு ஆற்றல்

பாடம் : ஆங்கிலம் / ENGLISH

நாள்: 21 DEC 2009 தஞ்சாவூர்
Date: Thanjavur

சு.திருநாவுக்கரசு

பதிவாளர்
REGISTRAR

சு.திருநாவுக்கரசு
முனைவோர்
VICE CHANCELLOR

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611 007
Nagapattinam (Dt) Tamil N.



Centre Code : 15

Reg.No. 31514-PH.D-MAT

Code no. A95B5 : S.No.

பாரதிதாசன் பல்கலைக்கழகம் BHARATHIDASAN UNIVERSITY

Re-accredited with 'A' Grade by NAAC

(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 ஆட்சிக் குழு அக்டோபர் 2018
ஆம் ஆண்டு தீபா இரா என்பவர்
கணிதவியல் பிரிவில் முனைவர்
என்னும் பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள்
சான்றளித்தபடி முனைவர் என்னும் பட்டத்தை அவருக்குப்
பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes
known that **DEEPA R** 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 **OCTOBER 2018**.

Place of Study : TRANQUEBAR BISHOP MANICKAM LUTHERAN COLLEGE PORAYAR.

Title of the Thesis

"AN OVERVIEW ON THE DEVELOPMENT OF FUZZY RANDOM VARIABLES"



Given under the seal of the University.



திருச்சிரப்பள்ளி
Tiruchirappalli
23rd October 2018

நாள்: 12-11-2018
Date :
ISSUED ON :

முனைவர் Registrar

தமணவேந்தர் Vice - Chancellor

ATTESTED

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

Centre Code : 13 Reg.No. 6533-Ph.D-MAT



Code no. 7FF59 : 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)



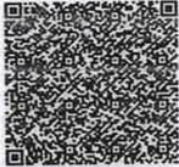
அறிவியல் புலம் FACULTY OF SCIENCE

பாரதிதாசன் பல்கலைக்கழக ஆட்சிக் குழு ஆகஸ்ட் 2021
ஆம் ஆண்டு தீபாரா 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 **DEEPA R** 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 **AUGUST 2021.**

Place of Study : A.D.M. COLLEGE FOR WOMEN(Autonomous), NAGAPPATTINAM.

"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
"CONTRIBUTION TO THE STUDY ON FUZZY SOFT GRAPHS"

ATTESTED

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

Given under the seal of the University



திருச்சிராப்பள்ளி
Tiruchirappalli

பதிவாளர் Registrar

துணைவேந்தர் Vice - Chancellor

O 102121

நாள் : 9th December 2021
Date :

ISSUED ON : 09-12-2021

Centre Code : 15 Reg.No. 49521-Ph.D-MAT



Code no. 4E071 : 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 ஆட்சிக் குழு ஜூன் 2019
ஆம் ஆண்டு கமலநாதன் சா என்பவர்
கணிதவியல் பிரிவில் முனைவர்
என்னும் பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள்
சான்றளித்தபடி முனைவர் என்னும் பட்டத்தை அவருக்குப்
பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes
known that **KAMALANATHAN S** 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 **JUNE 2019.**

Place of Study : TRANQUEBAR BISHOP MANICKAM LUTHERAN COLLEGE PORAYAR.

Title of the Thesis

"CONTRIBUTION TO THE STUDY ON RANKING METHODS ON FUZZY
NUMBERS"



Given under the seal of the University.



திருச்சிராப்பள்ளி
Truchirappalli

நாள் :
Date : 1st October 2019

ISSUED ON : 01-10-2019

பதிவாளர் Registrar

ATTESTED

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

துணைவேந்தர் Vice - Chancellor

0 000678



Centre Code : 13 Reg.No. 58860-Ph.D-MAT



Code no. 802CC : 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 ஆட்சிக் குழு மே 2019
ஆம் ஆண்டு கவிதா த என்பவர்
கணிதவியல் பிரிவில் முனைவர்
என்னும் பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள்
சான்றளித்தபடி முனைவர் என்னும் பட்டத்தை அவருக்குப்
பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes
known that **KAVITHA T** 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 **MAY 2019.**

Place of Study: A.D.M. COLLEGE FOR WOMEN(Autonomous), NAGAPPATTINAM.

Title of the Thesis

"A STUDY ON DOMINATION IN FUZZY GRAPHS"



ATTESTED

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

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

Given under the seal of the University.



திருச்சிராப்பள்ளி
Tiruchirappalli

நாள் :
Date : 1st October 2019

ISSUED ON : 24-08-2021

பதிவாளர் Registrar

துணைவேந்தர் Vice - Chancellor

O 095153



Bharathidasan University

(Re-accredited with 'A' Grade by NAAC) A+ in 3rd Cycle

Tiruchirappalli



FOLIO NO: 6193

434

PROVISIONAL CERTIFICATE

This to certify that **MANJU K**

has qualified for the Degree of DOCTOR OF PHILOSOPHY IN MATHEMATICS

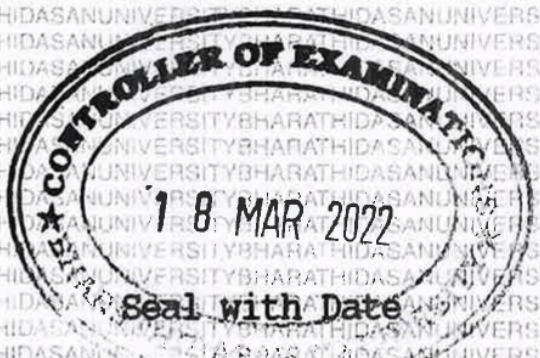
he/she having been declared eligible for the same from 5th JANUARY 2022 onwards.

[Handwritten signature]

ATTESTED
[Handwritten signature]

HIGHLY COMMENDED

Dr. S. RAMABALAN, M.E., Ph.D.,
PRINCIPAL
E.G.S. Pillay Engineering College,
Thethi, Nagore - 611-602,
Nagapattinam (Dt) Tamil Nadu.



[Handwritten signature]
M. Seetha
Section Head

[Handwritten signature]
Controller of Examinations

Seal with Date



Code No. 008CE S.No. 69032

பாரதிதாசன் பல்கலைக்கழகம் BHARATHIDASAN UNIVERSITY

Re-accredited with 'A' Grade by NAAC

(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 ஆட்சிக் குழு டிசம்பர் 2017

ஆம் ஆண்டு ந. மூர்த்தி என்பவர்
இயற்பியல் பிரிவில் முனைவர் என்னும்
பட்டத்திற்குத் தகுதி பெற்றவர் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி
முனைவர் என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக
இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the BHARATHIDASAN UNIVERSITY hereby makes
known that **N. MOORTHY** has been admitted
to the Degree of DOCTOR OF PHILOSOPHY, in the subject
PHYSICS, having been certified by duly
appointed Examiners to be qualified to receive the same in
DECEMBER 2017.

Thesis Title

"QUANTUM CHEMICAL CALCULATIONS AND SPECTRAL ANALYSIS OF SOME
ORGANIC NON LINEAR OPTICAL CRYSTALS"

Given under the seal of the University.



திருச்சிராப்பள்ளி
Tiruchirappalli

நாள்: 21st February 2018

Date: 21-02-2018

ISSUED ON: 21-02-2018

L 056252

R. Kamel
முனைவர் Registrar

P. Manisankar
துணைவேந்தர் Vice-Chancellor

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



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

FOLIO NO: 6057

PROVISIONAL CERTIFICATE

This to certify that **PRINCE RICHARD J**

has qualified for the Degree of **DOCTOR OF PHILOSOPHY IN PHYSICS**

he/she having been declared eligible for the same from **24th NOVEMBER 2021 onwards**

HIGHLY COMMENDED



Alade
Section Head

[Signature]
Controller of Examinations

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