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भारतीय प्रौद्योगिकी संस्थान गुवाहाटी

विद्या ऽऽर्चयेत् कीं ऽऽनुभवत एव  
सिद्धिं न अमिहाश्रितिः न

विद्या वाचस्पतिः न ऽऽत्तः

मुहम्मद सजीर एम्

की इस प्रवृत्ति के अन्तर्गत विद्यार्थी (उत्तरार्ध जुलाई 2021) में अन्तर्माध्यम पूर्ण करने का  
समर्थन प्राप्त है।

भारतीय प्रौद्योगिकी संस्थान गुवाहाटी में अर्ध-समय (अक्टूबर 2021) में अन्तर्माध्यम की  
एक प्रतिलिपि प्रेषित की गई।

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

in  
Civil Engineering

on  
Muhamed Sajeer M

who has successfully completed in July 2021, the requirements prescribed under the  
regulations for the award of this degree.

Given this day, under the seal of the Institution at Guwahati in the Republic of India,  
the 23<sup>rd</sup> day of October, 2021.

Thesis Title: *Effect of Rainfall Intensity on the Performance of Highway Pavement Under Heavy  
Loadings* (Correct and Fabrics) (in Hindi/English)

Director  
General Office  
Director and  
Chancellor, Guwahati

Registrar

Chairman  
Board of Studies

# Anna University



Reg.No. 16151697104/RG

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

*Title of the Thesis:*

**EXPERIMENTAL STUDY ON ALKALI MODIFIED FLY ASH COARSE AGGREGATE IN STRUCTURAL CONCRETE**

*Given under the Seal of the University*



Chennai 600 025  
India  
March 2021  
KARUNAKAR

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor



அழகப்பா பல்கலைக்கழகம்  
**ALAGAPPA UNIVERSITY**

(Accredited with A+ Grade by NAAC (CGPA: 3.84) in the Third Cycle  
Granted as Category - I University and Granted Autonomy by MHRD - UGC  
2015 QS Ranking India - 20, BRICS - 104, Asia - 218)  
KARAIKUDI - 630 003, TAMILNADU, INDIA

Reg. No.: R20090968

அறிவியற்புலம்

அழகப்பா பல்கலைக்கழக ஆட்சிக்குழு  
சாதிக்கலி எ

என்பவருக்கு

கணிதவியலில் முனைவர்

Ph.D. தலை அந்நாட்டிய தேவைகளை நிறைவு செய்தமைமூலம்

அக்டோபர் 2019 இல் அளிக்கிறது

பல்கலைக்கழக முத்திரை பெறுகிறது



FACULTY OF SCIENCE

The Syndicate of the Alagappa University

hereby confers the degree of

**DOCTOR OF PHILOSOPHY IN MATHEMATICS**

on

**SADIQUALIA**

in OCTOBER 2019 for having fulfilled the requirements for the degree

Title of the Thesis: **"A Study on Monophonic Domination Concepts and Related Parameters of Graphs"**

Given under the seal of the University



Medium of Instruction: ENGLISH

Sl. No. 054232

Date : 22-Jan-2023

பதிவாளர்  
Registrar

கூணமேந்தர்  
Vice - Chancellor



**FACULTY OF ENGINEERING AND TECHNOLOGY**

*The Senate of the University of Kerala hereby makes known that **Hema Nalini A.V.** has been admitted to the Degree of Doctor of Philosophy, she having been certified by duly appointed examiners to be qualified to receive the same.*

*Subject **Civil Engineering.***

*Title of the Thesis **Study On The Co-Composting Process Of Source Separated Organic Fraction Of Municipal Solid Waste And Brewery Sludge Using Batch - Scale In-Vessel Composting System .***

*Date of Syndicate Decision: 12/05/2017*

*Given under the seal of the University*

*University Buildings*

*Thiruvananthapuram November 21, 2017*



*Vice Chancellor*

No.: A/14 00398

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut



*Upon the recommendation of the Senate hereby confers on*

**MUBARAK. M**

*the degree of*

*Doctor of Philosophy*

*in the year 2018*

*Based on the thesis entitled:*

**INVESTIGATIONS ON THE USE OF BIODIESEL PRODUCED FROM  
CHLORELLA PYRENOIDOSA AND SALVINIA MOLESTA AS DIESEL  
ENGINE FUELS**

*Given at the National Institute of Technology Calicut*

*on 29<sup>th</sup> September, 2018*

  
Registrar

  
Director

  
Chairperson  
Board of Governors

# Anna University



Reg.No.2011112030/RG



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

**INVESTIGATIONS ON MACHINING CHARACTERISTICS AND THE TRIBOLOGICAL BEHAVIOUR OF STIR-CAST ALUMINIUM METAL MATRIX COMPOSITES**

*Given under the seal of the University*




Chennai 600025

India

June 2018

PARAG

  
Controller of Examinations

RAMESH G

  
Registrar

  
Vice-Chancellor

© Anna University 2018



# भारतीय प्रौद्योगिकी संस्थान मुंबई

दर्शना ओ.

की पददर्शा

विद्या वाचस्पति

की उपाधि प्रदान करात है ।

उपाधि की अनुगता पर संस्थान की मुद्रांकित पर उपाधि अकाश हेतु विज्ञापनो मे विहित अंशओ को पूर्ण कर लेते पर तथा करने शोध-प्रथम के सराल प्रसंगेण के उपरांत मुंबई, भारतीय गणराज्य मे सात 11 अगस्त, 2018 को दी गई है ।

## Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

**Doctor of Philosophy**

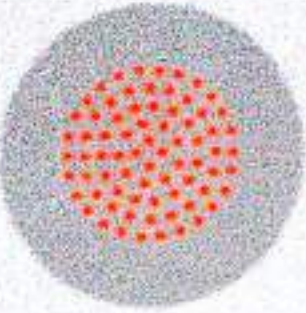
on

**Darshana O.**

who has fulfilled the requirements for the degree as prescribed under the regulations and successfully defended the thesis entitled:

**"Modeling User Perceived Level of Service and Delay at Signalized Intersection Under Heterogeneous Traffic Condition"**

Given this day, under the seal of the Institute at Mumbai in the Republic of India, the 11th day of August 2018.



राज्य, अधीन  
Chairman, Senate

ग्राहक  
Registrar

राज्य, शक्ति सचिव  
Chairman, Board of Governors



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## भारतीय प्रौद्योगिकी संस्थान गुवाहाटी

विद्या परिषद की अनुशंसा पर

सिविल अभियांत्रिकी में

विद्या वाचस्पति की उपाधि

### हरिनारायण एन एच

को इस उपाधि के प्रदान हेतु विनियम विहित अपेक्षाएँ जून 2020 में सफलतापूर्वक पूर्ण करने पर प्रदान करता है।

भारतीय गणराज्य के अंतर्गत गुवाहाटी में आज 22 सितंबर 2020 को संस्थान की यह मुद्रा अंकित उपाधि दी गई।

## INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

upon the recommendation of the Senate hereby confers the degree of

### Doctor of Philosophy

in

### Civil Engineering

on

### Harinarayan N H

who has successfully completed in June 2020, the requirements prescribed under the regulations for the award of this degree.

Given this day, under the seal of the Institute at Guwahati in the Republic of India, the 22<sup>nd</sup> day of September, 2020.

**Thesis Title :** Ground motion prediction equation for North India

निदेशक एवं  
अध्यक्ष, विद्या परिषद  
Director and  
Chairman, Senate

कुलसचिव  
Registrar

अध्यक्ष,  
शासी मंडल  
Chairman,  
Board of Governors



# 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

**HUSSAIN, J.**  
has been admitted to the Degree of

## DOCTOR OF PHILOSOPHY

having submitted a thesis entitled

"EXPERIMENTAL INVESTIGATION ON PERFORMANCE AND EMISSION CHARACTERISTICS OF EGR ADOPTED DIRECT INJECTION COMPRESSION IGNITION ENGINE WITH INSERTION OF UNBURNED HYDROCARBON RICH EXHAUST"  
and having successfully completed the prescribed requirements in

the year MARCH 2014.

Discipline : MECHANICAL ENGINEERING.

Given under the Seal of the University



M. Ramachandran  
Registrar

Puducherry

Date 4 OCT 2016

Anisabashan  
Vice-Chancellor



# Indian Institute of Technology Madras

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

**NAJEEB K**

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

**PEAK DYNAMIC POWER ISSUES IN DIGITAL CIRCUIT DESIGN**



000000



Given this day the Twenty-fifth of July, 2008  
under the seal of the Institute.

*Attested*  
*Registrar*  
INDIAN INSTITUTE OF TECHNOLOGY  
MADRAS  
GANDHIAN ENGINEERING COLLEGE  
CHENNAI

*Registrar*

*Director*

*R. Chandrasekaran*  
Chairman, Board of Governors




  
**Noorul Islam Centre for Higher Education**
  
(Deemed to be University under section 3 of the UGC Act, 1956)



Reg. No.: **1115906201**

The Board of Management of the **Noorul Islam Centre for Higher Education** hereby makes known that **JEEJA MENON** has been admitted to the **Degree of Doctor of Philosophy** in **CIVIL ENGINEERING** under the *Faculty of Civil Engineering*, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same on **16-07-2021** *(the date of viva-voce Examination)*.

*Title of the Thesis:* **EFFECT OF PLASTIC FIBERS IN COMPRESSED STABILIZED EARTH BLOCK USING LIME AND GROUND GRANULATED BLAST FURNACE SLAG**



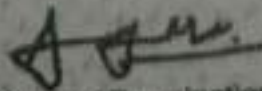
*Given under the seal of the University*

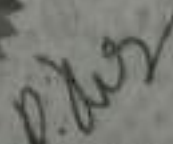
**NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE**

Dated : **23 DEC 2021**



Kumaracoli-629 180  
Kanyakumari Dist.,  
Tamil Nadu,  
India.

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor

# Anna University



Reg.No. 18194891599/RG

The Syndicate of the Anna University hereby makes known that **SREEKESH NAMBOODIRI T** has been admitted to the **D<sup>o</sup>.GREE 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 016".

*Title of the Thesis:*

**CERTAIN INVESTIGATIONS OF MELANOMA CLASSIFICATION SYSTEMS IN DERMOSCOPY IMAGES USING PATTERN RECOGNITION METHODS**

Given under the Seal of the University



0025

*P. Sathishan*  
Controller of Examinations

*T. R. S.*  
Registrar

*R. V.*  
Vice-Chancellor

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 672832



H.T No. : 0803PH0650

*Mr. Abdul Gafur M  
No. Kunhammed*

having fulfilled the academic requirements in *June, 2015*  
has this day been admitted by the Executive Council to the Degree of  
*Doctor Of Philosophy*  
*Computer Science And Engineering*

Topic : Building Up of a Threat Free High Performance Ad Hoc Network

Given under the Seal of the University

Date : 26-08-2015



*[Signature]*

DIRECTOR OF EVALUATION

*[Signature]*  
REGISTRAR



*[Signature]*

VICE CHANCELLOR



PC No  
10103518620

# NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Deemed-to-be University Under section 3 of the U.G.C. Act 1956)

Kumaracoll - 629 180, Thukalay, Kanyakumari District, Tamilnadu.

Accredited by NAAC with 'A' Grade



PROVISIONAL CERTIFICATE

Folio No., *PH0125*

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

Name : **SHANAVAS S**

Registration Number : **0114917214**

Degree : **Ph. D.**

Department : **MECHANICAL ENGINEERING**

Faculty : ***Mechanical Engineering***

Date, Month & Year of  
Viva-voce Examination  
held : **13-03-2019**

Title of the Thesis : **MODELLING AND ANALYSIS OF PROPERTIES OF FRICTION STIR WELDED ALUMINIUM ALLOY - AA 5052H32**

Place : Kumaracoll



*B. J. S. S.*  
CONTROLLER OF EXAMINATIONS

Date : 21 MAR 2019



# भारतीय प्रौद्योगिकी संस्थान मुंबई

सुरेश पि. एस.

को एतद्द्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है।

अभिषेक की अनुमति पर संस्थान की मुद्रांकित यह उपाधि, अवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा जून 2009 में अपने शोध प्रबंध के मकल पक्षोपेक्षण के उपरान्त, मुंबई, भारतीय गणराज्य में आज 7 अगस्त, 2009 को दी गई है।

## Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on


Suresh P. S.

who has fulfilled the requirements for the degree as prescribed under the regulations and successfully defended in June 2009, the thesis entitled:

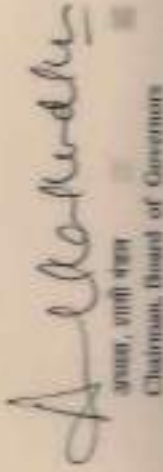
"Traffic Models for Real Time Area Traffic Control Systems in Heterogeneous Traffic Conditions".

Given this day, under the seal of the Institute at Mumbai in the Republic of India, the 7th day of August 2009.



  
Chairman, Senate

  
Chairman, Board of Governors

  
Chairman, Board of Governors

No.  $\frac{A}{12}$  12883

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut



*Upon the recommendation of the Senate hereby confers on*

**FEBINA BEEVI P**

*the degree of*

*Doctor of Philosophy*

*in the year 2019*

*Based on the thesis entitled:*

**MODEL MATCHING TWO DEGREE OF FREEDOM CONTROLLERS FOR  
SINGLE INPUT SINGLE OUTPUT AND MULTI INPUT MULTI OUTPUT  
SYSTEMS**

*Given at the National Institute of Technology Calicut*

*on 21<sup>st</sup> September, 2019*

  
Registrar

  
Director

  
Chairman  
Board of Governors



Register No : **11JLDRPECE009**

Folio No : **000346**



## KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

Pollachi Main Road, Eachanari Post, Coimbatore – 641 021.  
Tamil Nadu - India

The Board of Management of the **KARPAGAM ACADEMY OF HIGHER EDUCATION** (Deemed to be University)

hereby makes known that **RENJITH V RAVI**

has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY in ELECTRONICS AND COMMUNICATION**

**ENGINEERING** under the **FACULTY OF ENGINEERING**

having been certified by the duly appointed examiners to be qualified to receive the same on **13<sup>th</sup> MARCH 2019**

Coimbatore

Date: **14.09.2019**



SEAL



  
CONTROLLER OF EXAMINATIONS

  
REGISTRAR

  
VICE-CHANCELLOR

# Karunya

INSTITUTE OF TECHNOLOGY AND SCIENCES

(Deemed-to-be-University)

Accredited by NAAC

KARUNYA NAGAR, COIMBATORE - 641 114, TAMIL NADU, INDIA.

Reg. No. : RP12ME001

Mode of Study : Part Time



*The Board of Management  
of  
Karunya Institute of Technology and Sciences,  
a Deemed-to-be-University  
hereby makes known that*

**SHAHIR V.K.**

*has been admitted to the Degree of*

**Doctor of Philosophy  
in  
Mechanical Engineering**

**under the Faculty of Engineering**

*having been certified by duly appointed examiners to be  
qualified to receive the same in October 2018*

*Title of the Thesis :*


*Experimental investigation on performance and emission characteristics of a common rail direct  
injection engine using biodiesel blends*



*Given under the seal of the Deemed-to-be-University*

*Dated: 6<sup>th</sup> July 2019*

  
CHANCELLOR

  
VICE CHANCELLOR

  
REGISTRAR



Reg. No.: **1117908221**

The Board of Management of the **Noorul Islam Centre for Higher Education** hereby makes known that **SHANID MALAYIL** 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 on **17-09-2022** (the date of *viva-voce Examination*).

**Title of the Thesis:** **AMALGAMATION OF OPTIMIZATION ALGORITHMS WITH DRIVEN DEEP LEARNING FOR SEVERITY LEVEL CLASSIFICATION OF LUNG CANCER AND SURVIVAL TIMELINE PREDICTION OF LUNG CANCER**



Given under the seal of the University

MICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE

Dated : **20 NOV 2022**

Kumaratoli-629 160  
Kanyakumari Dist.  
Tamil Nadu  
INDIA

Controller of Examinations



Registrar

Vice-Chancellor



राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut

*upon the recommendation of the Senate, hereby confers on*

**SIVAKUMAR B**

*the degree of*

**Doctor of Philosophy**

in the year 2022

Based on the thesis entitled:

**PRIORITISATION OF ACCIDENT BLACKSPOTS FOR IMPROVEMENT  
BASED ON ECONOMIC CRITERIA**

*Given at the National Institute of Technology Calicut*

on September 03, 2022



Registrar

Director & Chairman Senate

Chairperson Board of Governors



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்  
Manonmaniam Sundaranar University



பொறியியற் புலம்  
Faculty of Engineering



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு  
ராஜி சி கி

கணினி அறிவியல் மற்றும் பொறியியல் பாடப்பிரிவில்

அறிஞர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற  
தேர்வினோர் சான்றளித்தவாறு மே 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 **RAJI C G**  
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 **MAY 2017**

Given under the seal of the University.



திருநெல்வேலி, இந்தியா  
Tirunelveli, India

நாள் / Dated 06.12.2017

*Shihara*  
(Dr.S.Prabahar)

தேர்வாளன்  
Controller of Examinations

*P. Govindaraju*  
(Dr.P.Govindaraju)

பதிவாளர்  
Registrar

*Dr.K.Baskar*  
(Dr.K.Baskar)

துணைவேந்தர்  
Vice-Chancellor