



**KARPAGAM
UNIVERSITY**
Karpagam Academy of Higher Education
(Established Under Section 3 of UGC Act 1956)

KARPAGAM UNIVERSITY

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

PROVISIONAL CERTIFICATE

This is to certify that the undermentioned candidate has qualified for the award of Degree as detailed below:

Name : **MANOJ KUMAR.B**

Register No : **09ADRPME001**

Degree : **DOCTOR OF PHILOSOPHY**

Branch / Specialization : **MECHANICAL ENGINEERING**

Month & Year of Passing : **15th June 2016**

Title: **MANUFACTURING OPTIMIZATION FOR REVERSE LOGISTICS**

Coimbatore

Dated : **04.07.2016**



CONTROLLER OF EXAMINATIONS

Cochin University of Science and Technology



000047



FACULTY OF ENGINEERING

The Academic Council of the Cochin University of Science and Technology hereby makes known that.....
is admitted to the Degree of

Anitha G Pillai

DOCTOR OF PHILOSOPHY

under the Faculty of Engineering, he/she having been certified by duly appointed examiners to be qualified to receive the same.

Given under the Seal of the University, this day, the..... 16th February, 2015

University Buildings

Kochi - 682 022

Issued on 13/03/2015



[Signature]

Vice-Chancellor.



भारतीय प्रौद्योगिकी संस्थान मुंबई

रतीश एम.

को एतद्द्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है ।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि
अवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर
तथा अपने शोध-प्रबंध के सफल पक्षपोषण के उपरांत
मुंबई, भारतीय गणराज्य में आज 9 अगस्त, 2014 को दी गई है ।

Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

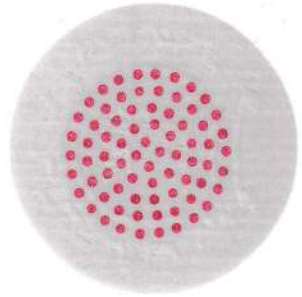
on

Ratish M.

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

“Multi Sensory Analysis of Aerosol Properties and Patterns Over India.”

Given this day, under the seal of the Institute at Mumbai in the
Republic of India, the 9th day of August 2014.




अध्यक्ष, अभिषद
Chairman, Senate


कुलसचिव
Registrar



अध्यक्ष, शासी मंडल
Chairman, Board of Governors

भारतीय प्रौद्योगिकी संस्थान रुड़की

अभिषद् की अनुशंसा पर

विद्या वाचस्पति

की उपाधि

निषा एल

को, जिन्होंने इस उपाधि की अवाप्ति हेतु विनियम विहित अपेक्षाओं को सन् 2015 में सफलतापूर्वक पूरा कर लिया है, एतद्वारा प्रदान करता है।

शोध प्रबन्ध शीर्षक: रिमूवल ऑफ डिजोल्व्ड ऑर्गेनिक कार्बन (डीओसी) डूरिंग रिवरबैंक फिल्ट्रेशन

भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक 3 अक्टूबर 2015, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

On the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

upon

NISHA L

who has successfully completed in the year 2015 the requirements prescribed under the regulations for the award of this degree

Thesis Title: REMOVAL OF DISSOLVED ORGANIC CARBON (DOC) DURING RIVERBANK FILTRATION

Given this day, the 3rd of October 2015, under the seal of the Institute at Roorkee in the Republic of India.

Abhishek

अध्यक्ष, अभिशासक परिषद्

Chairman, Board of Governors

Rajiv

निदेशक एवं अध्यक्ष, अभिषद्

Director & Chairman, Senate

प्रशांत गार्ग
कुलसचिव
Registrar



राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट
National Institute of Technology Calicut



Upon the recommendation of the Senate hereby confers on

AKHILA M

the degree of

Doctor of Philosophy

in the year 2019

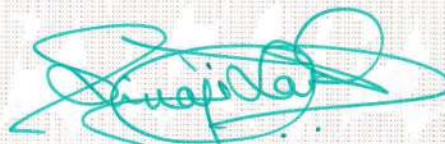
Based on the thesis entitled:

LIQUEFACTION OF SILTS AND LOW PLASTIC CLAYS

Given at the National Institute of Technology Calicut

on 21st September, 2019


Registrar


Director


Chairman
Board of Governors

मलवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर

अभिषद् की अनुशंसा पर

विनोद पी.

को

विद्या वाचस्पति

की उपाधि प्रदान करता है।

शोधप्रबंध शीर्षक:

मालवेअर अनैलिसिस एण्ड डिटेक्शन मैथडोलोजीज्

आज भारतीय गणराज्य के अन्तर्गत जयपुर में यह उपाधि दी गई है।

दिनांक ४ नवम्बर २०१२

Malaviya National Institute of Technology Jaipur

upon the recommendation of the Senate confers on

Vinod P.

the degree of

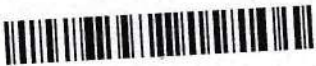
Doctor of Philosophy

Thesis title:

Malware Analysis and Detection Methodologies

Given this day at Jaipur in the Republic of India

The 4th November 2012

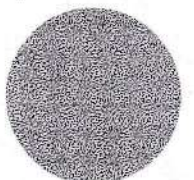


[Signature]
निदेशक एवं अध्यक्ष अभिषद्
Director & Chairman Senate

[Signature]
अध्यक्ष शासी परिषद्
Chairman Board of Governors

Verified by

[Signature]





SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with "A" grade by NAAC

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119



Phone: 044-2450 3150 / 3151 / 3152 / 3154 / 3155 Fax: 044-2450 2344

www.sathyabama.ac.in

Register Number : 2013191119

Date : 05-12-2017

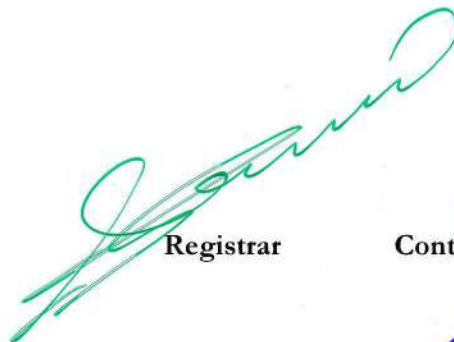
PROVISIONAL CERTIFICATE - Ph.D.

This is to certify that **VARUN. G. MENON** has qualified himself/herself for the award of the Degree of Doctor of Philosophy in Faculty of **COMPUTER SCIENCE AND ENGINEERING** on **DECEMBER 02, 2017** and he/she having been certified by duly appointed Examiners and approved by the Board of Management of Sathyabama Institute of Science and Technology.

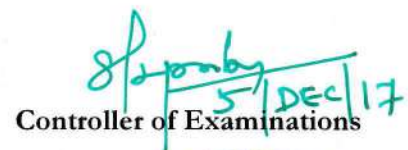
Title : ANALYSING THE BEHAVIOUR AND PERFORMANCE OF RELIABLE OPPORTUNISTIC ROUTING PROTOCOLS IN HIGHLY DYNAMIC AD HOC NETWORKS

Chennai - 600 119

Date : December 05, 2017



Registrar



Controller of Examinations



Mahatma Gandhi University

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



FACULTY OF ENGINEERING AND TECHNOLOGY

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

Smt. ANU V.R.

has been admitted to the Degree of

**DOCTOR OF PHILOSOPHY
in
Computer Science**

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

**Title of the Thesis : Performance Optimization Techniques for Virtual
Machines in Cloud Environment**

Given under the seal of the University

Date of Syndicate Decision: 30-04-2019

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



Vice-Chancellor



Folio : C04206

BHARATHIAR UNIVERSITY

COIMBATORE - 641 046

Ph. D. PROVISIONAL CERTIFICATE

This is to certify that

has qualified for

..... SUNIL JACOB

the award of the Degree of

DOCTOR OF PHILOSOPHY

of this University in

..... ELECTRONICS

on 23/02/2015

after having

completed the requirements prescribed for the award of the Degree.

Coimbatore-641 046

Date : 6 MAR 2015


Controller of Examinations i/c

Cochin University of Science and Technology

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



Register Number : 3975

*The Academic Council of the Cochin University of Science and Technology
hereby makes known that*

SAIRA JOSEPH

is admitted to the Degree of

DOCTOR OF PHILOSOPHY

under the

FACULTY OF ENGINEERING

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

Title of the thesis :

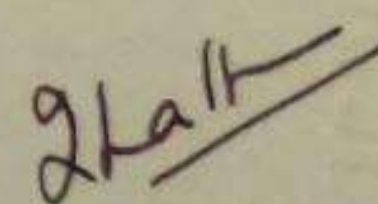
**"Design and Analysis of Compact, CPW-fed Multiband Antennas Incorporating
UWB Applications"**

This award is effective from 10/07/2017.

Given under the seal of the University this day, 02 August, 2017.

Kochi -682 022
Kerala, India.

SI No: 0095516


Vice - Chancellor

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

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

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

Accredited by NAAC with 'A' Grade



PROVISIONAL CERTIFICATE

Folio No.: PH0146

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 : **PARVATHY M**
Registration Number : **0113910208**
Degree : **Ph. D.**
Department : **Electronics and Communication Engineering**
Faculty : **Electrical and Electronics Engineering**
Date, Month & Year of
Viva-voce Examination
held : **16-08-2019**
Title of the Thesis : **ENHANCEMENT OF FULLY PARALLEL TURBO
DECODER USING DIFFERENT ALGORITHMS
FOR COMMUNICATION APPLICATIONS**

Place : Kumaracoil

Date :

29 AUG 2019



B. S. S. S.

CONTROLLER OF EXAMINATIONS

Indian Institute of Technology Madras

hereby confers the degree of
Doctor of Philosophy
of the Institute

on

NANDA KUMAR M

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

CONTROL OF GRID INTERACTIVE INVERTER SYSTEMS

Given this day the Twentieth of July, 2006
under the seal of the Institute.



AE Mudiyarajan

M. I.

Yashu Titu



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



DIVYA NATH .K

the degree of

DOCTOR OF PHILOSOPHY

in recognition of the research work entitled

NON-DESTRUCTIVE METHOD TO MEASURE MOISTURE CONTENTS IN FOOD ITEMS

for having fulfilled the prescribed requirements.

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

given this day the 05 November 2019



Given under the seal of this university




Vice - Chancellor


Chancellor

Dated : 10-Sep-2020

Vellore - 632 014, Tamil Nadu, India



Indian Institute of Technology, Madras

hereby confers the degree of

Doctor of Philosophy
of the Institute

on

SOMASEKHARAN NAIR E M

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

**INVESTIGATIONS ON FRACTURE AND FATIGUE OF STRUCTURAL
COMPONENTS**

*Given this day the Thirtieth of July, 1994
under the seal of the Institute.*



V. Sam.
Registrar

M. S. Srinivasan
Director

M. S. Srinivasan
Chairman Board of Governors

Cochin University of Science and Technology



000040



FACULTY OF ENGINEERING

The Academic Council of the Cochin University of Science and Technology hereby makes known that.....
is admitted to the Degree of

Praveensal C J

DOCTOR OF PHILOSOPHY

under the Faculty of Engineering, he/she having been certified by duly appointed examiners to be qualified to receive the same.

Given under the Seal of the University, this day, the..... **23rd November, 2013**



University Buildings

Kochi - 682 022

Issued on 16/12/2013

R Chandra

Vice-Chancellor.



Indian Institute of Technology Madras

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

SHEEJA JANARDHANAN

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

**NUMERICAL ESTIMATION OF HYDRODYNAMIC DERIVATIVES
IN SURFACE SHIP MANEUVERING**

Given this day the Thirtieth of July, 2010
under the seal of the Institute.



OE06D005

R. Chidambaram
Registrar

R. Chidambaram
Chairman, Board of Governors

Register No : 09JLDRPME003

Folio No : 00730



**KARPAGAM
UNIVERSITY**

Karpagam Academy of Higher Education
(Established Under Section 3 of UGC Act, 1956)

KARPAGAM UNIVERSITY

Karpagam Academy of Higher Education

(Established Under Section 3 of UGC Act 1956)

Coimbatore - 641 021, India

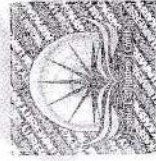
venu . P

The Board of Management of the KARPAGAM UNIVERSITY hereby makes known that

has been admitted to the DEGREE OF DOCTOR OF PHILOSOPHY in MECHANICAL ENGINEERING

under the FACULTY OF ENGINEERING

having been certified by the duly appointed examiners to be qualified to receive the same on 6th October 2015



Coimbatore

Dated : 19.12.2015

CONTROLLER OF EXAMINATIONS

P. P. P. P.

REGISTRAR

THE SEAL OF UNIVERSITY



VICE-CHANCELLOR

Cochin University of Science and Technology

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



Register Number : 3537

*The Academic Council of the Cochin University of Science and Technology
hereby makes known that*

MAHESA RENGARAJ R

is admitted to the Degree of

DOCTOR OF PHILOSOPHY

under the

FACULTY OF ENGINEERING

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

Title of the thesis :

**"INFLUENCE OF PERSONAL ATTRIBUTES AND EMPLOYMENT AND WORK
FACTORS ON WORK INJURIES AMONG WELDERS"**

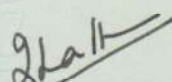
This award is effective from 17/07/2017.

Given under the seal of the University this day, 02 August, 2017.

Kochi - 682 022
Kerala, India.

SI No: 0095514




Vice - Chancellor



राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट
National Institute of Technology Calicut

Sl.No.: B/17 001639

NIT Campus (PO), Kozhikode, Kerala, India, PIN - 673 601

PROVISIONAL CERTIFICATE

Doctor of Philosophy

Certified that **Ms. ANJANA VISWANATH** (Roll No. **P130016ME**) has completed all the requirements of the Institute for the award of the degree of Doctor of Philosophy. Her oral examination was held on **26-02-2019** by a duly appointed Board of Examiners.

Title of the thesis : **METAHEURISTICS FOR THE MULTI-OBJECTIVE SCHEDULING OF A FLOW SHOP WITH SEQUENCE DEPENDENT SETUP TIME: DEVELOPMENT AND ANALYSIS**

Department : **Mechanical Engineering**

She will be awarded Ph.D. degree of the Institute in the next convocation subject to the approval of Senate and Board of Governors.



Date : **06 MAR 2019**


Deputy Registrar (Academic)

Valid for twelve months from the date of issue

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट
National Institute of Technology Calicut



Upon the recommendation of the Senate hereby confers on

MINI TOM

the degree of

Doctor of Philosophy

in the year 2015

Based on the thesis entitled:

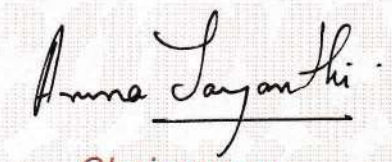
**"CONNECTIVITY, SUM DISTANCE, BOUNDARY AND INTERIOR NODES IN
FUZZY GRAPHS"**

Given at the National Institute of Technology Calicut

on 5th December, 2015


Registrar


Director


Chairperson
Board of Governors



அறிவியற் புலம்

FACULTY OF SCIENCE

மதுரை காமராசர் பல்கலைக்கழக

ஆட்சிப்பேரவை

ஸ்ரீலேகா. பர.

கணிதவியல் பிரிவில் ஏமப்பொருளியல் நிறைஞர் பட்டம்

புத்தகுத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற தேர்வினோர் நவம்பர் 2008 இல் நடைபெற்ற

பரீட்சையில் சான்றளித்தவாறு, இரண்டாம் வகுப்பு

பற்றி இச்சான்றிதழ் பெறுதற்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக இலச்சினையுடன் இது வழங்கப்படுகின்றது.

The Senate of the MADURAI KAMARAJ UNIVERSITY

by makes known that SREELEKHA B has been admitted to the

DEGREE OF MASTER OF PHILOSOPHY IN MATHEMATICS

she having been certified by duly appointed Examiners to be qualified to receive the same, and having been placed in the

SECOND CLASS

in the at the Examination held in NOVEMBER 2008

Register No. : A5A6610002

Centre Code : 844

Given under the seal of the University

ISSUED ON
18 NOV 2010

UNIVERSITY OF CALICUT

Calicut University P. O.
673 635



Folio No 126

Dated 2-11-1995

PROVISIONAL CERTIFICATE

Issued to.....Sunny George.....
Certified that the above candidate has been awarded the Degree of Doctor
of Philosophy (Ph. D.) in.....Zoology.....
under the faculty of.....Science.....



Deputy Registrar
Controller of Examinations Calicut

10022947



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

(A State Government University)

Thiruvananthapuram, Kerala, India - 695 016

PROVISIONAL DEGREE CERTIFICATE

This is to certify that the candidate has provisionally qualified for the award of degree of Doctor of Philosophy of the University

Name : JAYADEVAN P C
Register No : D-TCR15JUL005
Degree : Ph. D.
Date of Viva-voce Exam : 27/02/2020
Title of thesis : Analysis of fluid flow through microchannels with manufactured roughness level

Place: Thiruvananthapuram

Date: 22/06/2020

File No: 20/12/00001



Dean (Research)



Cochin University of Science and Technology

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



Register Number : 4449

*The Academic Council of the Cochin University of Science and Technology
hereby makes known that*

SANTHOSH G

is admitted to the Degree of

DOCTOR OF PHILOSOPHY

under the

FACULTY OF ENGINEERING

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

Title of the thesis :

"A Study on Utilization of Jarofix in Construction Application"

This award is effective from 13 August, 2021.

Given under the seal of the University this day, 13 September, 2021.

Kochi -682 022
Kerala, India.

Sl.No:0122170

Vice - Chancellor



Indian Institute of Technology, Madras

hereby confers the degree of

Doctor of Philosophy
of the Institute

on

JAYANAND B

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

**SIMULATION STUDIES ON SPEED SENSORLESS OPERATION OF VECTOR
CONTROLLED INDUCTION MOTOR DRIVES USING NEURAL NETWORKS**

*Given this day the Thirtyfirst of July, 1998
under the seal of the Institute.*

[Signature]
Registrar

[Signature]
Director

[Signature]
Chairman Board of Governors

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट
National Institute of Technology Calicut



Upon the recommendation of the Senate hereby confers on

RAG R L

the degree of

Doctor of Philosophy

in the year 2010

Based on the thesis entitled:

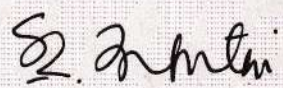
*"Investigations on an Array of Wire-Bonded Micro
Heat Pipes"*

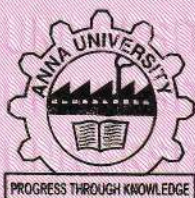
Given at the National Institute of Technology Calicut

on 16th October, 2010


Registrar


Director


Chairman
Board of Governors



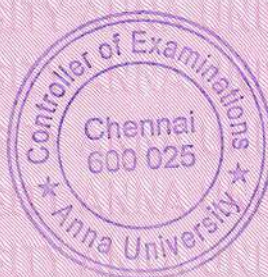
ANNA UNIVERSITY CHENNAI - 600 025

PROVISIONAL CERTIFICATE

Folio No.: RAR015014

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 : RAGHAV G R
Registration Number : 1515579739
Degree : Ph.D.
Department/Centre/Subject : MECHANICAL ENGINEERING
Faculty : TECHNOLOGY
Date, Month & Year of Viva-Voce Examination held : 06.01.2020
Title of the Thesis : DRY SLIDING WEAR AND CORROSION STUDIES OF COBALT BASED NANOCOMPOSITES BY POWDER METALLURGY PROCESS



[Signature]

Chennai - 600 025

Controller of Examinations

Date: 06-FEB-2020

UNIVERSITY OF CALICUT

Folio No. 610



Calicut University P. O.
673 635

Dated 01.03.2021

PROVISIONAL CERTIFICATE

Issued to SAM JOSHY

Certified that the above candidate has been awarded the Degree of Doctor of Philosophy

(Ph. D.) in MECHANICAL ENGINEERING

under the faculty of ENGINEERING


Controller of Examinations

Registration No.



110675MT11F02



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

Doctor of Philosophy



on

Gibin George

in recognition of the research work on

"INFLUENCE OF POLYMERIC BINDERS ON THE PHYSICO-CHEMICAL
PROPERTIES OF SOL-GEL ELECTROSPUN NICKEL OXIDE AND COBALT
OXIDE NANOFIBERS"

carried out in the Department of
Metallurgical And Materials Engineering
and completed all the requirements
in November 2015

Given under the seal of the Institute,
on 14th November 2015

Registrar

Director

Chairperson, Board of Governors

Sl. No. PH15079

The Birla Institute of Technology & Science

Upon the Recommendation of the Senate hereby confers on

Manikandan H

The Degree of

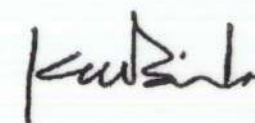
Doctor of Philosophy

having been found duly qualified. The thesis presented for the Degree was entitled "*Investigations on Characterization of Surface Errors in Turning of Thin-Walled Components*".

Given this fourth day of May, two thousand twentyone under the Seal of the Birla Institute of Technology & Science at Pilani in the State of Rajasthan, India.



DIRECTOR


REGISTRAR
CHANCELLOR
VICE-CHANCELLOR

Cochin University of Science and Technology

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



Register Number : 4309

*The Academic Council of the Cochin University of Science and Technology
hereby makes known that*

GEETHU R

is admitted to the Degree of

DOCTOR OF PHILOSOPHY

under the

FACULTY OF SCIENCE

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

Title of the thesis :

**"Hybrid thin film solar cell fabrication using sprayed electron collective ZnO
layer and spin or spray coated organic layer"**

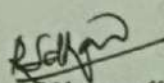
This award is effective from 25 February, 2019.

Given under the seal of the University this day, 19 March, 2019.

Kochi - 682 022
Kerala, India.

SI No: 0109890




Vice - Chancellor