

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 688185



H.T No. : 0703PH0614

*Ms. Rekha B Venkatapur*

*D/o. Venkatapur B*

having fulfilled the academic requirements in *June, 2016*

has this day been admitted by the Executive Council to the Degree of

*Doctor Of Philosophy*

*Computer Science And Engineering*

Topic : *A Robust Hierarchical Clustering Algorithm for Video Watermark*

Given under the Seal of the University

Date:09-09-2016



*CSE*

*Handwritten signature*

*Handwritten signature*

DEPUTY FOR DEPUTY REGISTRAR

REGISTRAR

VICE CHANCELLOR



402201652772

PC NO  
316000364

K.S. INSTITUTE OF TECHNOLOGY  
- BENGALURU - 560 109

क्रमांक  
Serial No. 00216



अनुक्रमांक  
Enrollment No. PU10-7085

पैसिफिक उच्चतर शिक्षा और अनुसंधान अकादमी विश्वविद्यालय, उदयपुर

यह प्रमाणित किया जाता है कि  
**दयानन्दा आर बी**

द्वारा विश्वविद्यालय के सम्बन्धित विनियमनों में विहित अपेक्षाओं को सफलतापूर्वक पूर्ण  
कर लेने पर विश्वविद्यालय प्रबन्ध मण्डल की अनुशंसा पर इन्हें वर्ष 2015 में

**अभियान्त्रिकी संकाय**

के **कम्प्युटर साइन्स** विभाग में

**विद्या-वाचस्पति**

की उपाधि प्रदान की गयी है।

शोध का विषय था **सेक्यूरिटी एंड डाटा इण्टिग्रिटी यूजिंग एट्रिब्यूट  
बेस्ड एन्क्रिप्शन ऑन क्लाउड**

Pacific Academy of Higher Education and Research University, Udaipur

This is to certify that on the recommendation of  
the Board of Management of the University

**DAYANANDA R.B.**

has been conferred the degree of

**Doctor of Philosophy**

in the Department of **Computer Science**

**In Faculty of Engineering**

on successful fulfillment of the requirements prescribed

under the relevant regulations of the University in the year of 2015.

The topic of research was **Security and data integrity using attribute  
based encryption on cloud**



निर्गमन दिनांक: 18 मार्च, 2016  
Date of Issue: 18<sup>th</sup> March, 2016

श. ५-३१८  
प्रेसिडेंट  
Pranidana

Indian Institute of Technology  
Delhi

Upon the recommendation of the Senate  
hereby confers the degree of

Doctor of Philosophy

on

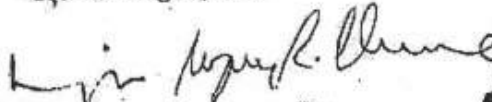
Ram Prakash Rustagi

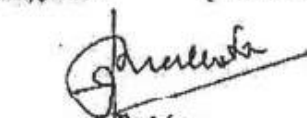
Thesis title:

Studies in Concurrency Control for Centralized,  
Distributed and Nested Transaction Systems

Given this day under the seal of the Institute at Delhi in  
the Republic of India.

The 14<sup>th</sup> August, 1999

  
Director & Chairman,  
Chairman, Senate Board of Governors

  
Registrar



13PHD1033

Sl. No. 103470



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

DEEPA S.R

the degree of

DOCTOR OF PHILOSOPHY

in recognition of the research work entitled

**BIO-INSPIRED CLUSTER OPTIMIZATION IN WIRELESS SENSOR NETWORK**

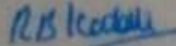
for having fulfilled the prescribed requirements.

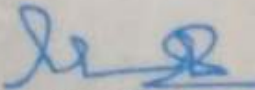
The degree has been awarded in compliance with the  
"University Grants Commission, Regulation 2009"

given this day the 14 September 2020

Given under the seal of this university



  
Vice - Chancellor

  
Chancellor

Dated : 19-Oct-2020

Vellore - 632 014, Tamil Nadu, India

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

SWATHI K

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF COMPUTER & INFORMATION SCIENCES

*for the thesis entitled*

EXPLORATION MODEL FOR SOFTWARE DEFECT PREDICTION TO  
ENHANCE QUALITY OPTIMIZATION IN SMALL AND MEDIUM LEVEL  
SOFTWARE FIRMS

*in recognition of the fulfillment of requirements  
for the said degree*

PH 000793

Given under the seal of the University

USN: 1EW16PEJ02



BELAGAVI  
DATE

APRIL 03, 2021

*De*  
en/21

  
VICE CHANCELLOR



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ  
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA

PH  
18 001970

**Provisional Degree Certificate**

*This is to certify that Mr./Ms. VANEETA M*

*is qualified for the award of the degree of*

DOCTOR OF PHILOSOPHY IN FACULTY OF COMPUTER & INFORMATION SCIENCES W.E.F. 29.6.2021

*of this University for having fulfilled the requirements for the award  
of the said Degree by submitting the thesis titled :*

NOVEL KEY DISTRIBUTION AND SECURITY FRAMEWORK FOR NODE LEVEL COMMUNICATION FOR  
WIRELESS SENSOR NETWORKS

*with University Seat No. 1KS15PEJ04*

*The degree will be conferred on him / her at the next  
convocation or thereafter.*

Belagavi  
Date : 00.07.2021



*Rang* B.E  
Registrar (Evaluation)



# Indian Institute of Technology, Madras

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

**VENKATESWARA ALIAS BALAJI K**

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

**A STUDY OF SOME PSYCHOLOGICAL ANTECEDENTS  
IN INDUSTRIAL ACCIDENTS**

*Given this day the Twentysixth of July, 1996*  
*under the seal of the Institute.*

*[Signature]*  
PRINCIPAL  
K.S. INSTITUTE OF TECHNOLOGY  
BENGALURU - 560 109.



*[Signature]*  
Registrar

*[Signature]*  
Director

*[Signature]*  
Chairman, Board of Governors

Registration No.



03221012A



**National Institute of Technology Karnataka, Surathkal**

hereby confers the degree of

**Doctor of Philosophy**



on

Dilip Kumar K

in recognition of the research work on

*"Computer Aided Prediction Of Forming Severity In L-Bending Of Aluminium Sheet Metal"*

carried out in the Department of

**Mechanical Engineering**

and completed all the requirements

in May 2009

Given under the seal of the Institute,

on 5<sup>th</sup> May 2010



*H. Prakash*  
Registrar

*A. S. S. S.*  
Director

*E. M. S.*

Chairman, Board of Governors

Sl. No. PH09036





# VIT<sup>®</sup>

**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

## *Office of Academic Research*

**Dr. Kalyani Desikan**  
*Dean Academic Research*

Ref. No:VIT/Dean(AR)/SMEC/13PHD1135/ 20211100  
July 06, 2021

### **Provisional Certificate**

This is to certify that the thesis titled **“TRIBOLOGICAL STUDIES ON ZINC-ALUMINIUM CAST ALLOYS”**, submitted by **Mr.Umashankar M (13PHD1135)** registered under the **School of Mechanical Engineering** has been recommended for the award of the degree of **Doctor of Philosophy (Ph.D.)** by the duly appointed examiners. He has successfully defended his thesis in the oral examination conducted on Wednesday, June 16, 2021.

He is eligible for the award of **Doctor of Philosophy (Ph.D) degree** of VIT Chennai in accordance with the provisions of the UGC Regulations 2009, after due approvals by the appropriate authorities at the next convocation.

  
Dr. Kalyani Desikan



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

**NAGAPRASAD K S**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Mechanical Engineering Sciences*

*for the thesis entitled*

*A Study on Effect of Fluid Injection on Diesel Engine  
Performance and Emissions*

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
19 000332

Given under the seal of the University

USN: 1DA08PMN03



BELAGAVI

DATE : Feb 08, 2020

VICE CHANCELLOR



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ  
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA  
PH 18 000102

**Provisional Degree Certificate**

*This is to certify that Mr./Ms. Girish T. R*

*is qualified for the award of the degree of  
Doctor of Philosophy Faculty of Mechanical Engineering Sciences w.e.f. 27.11.2018  
of this University for having fulfilled the requirements for the award  
of the said Degree by submitting the thesis titled :*

*"DEVELOPMENT AND CHARACTERIZATION OF HYBRID COMPOSITE USING FIBRE AND GLASS FIBRE"*

*with University Seat No. 5VX12PMN37*

*The degree will be conferred on him / her at the next  
convocation or thereafter.*

Belagavi

Date : 05.11.2018



*Amig*

Registrar (Evaluation)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

CC 067139

H.T.No:10PH0340

Aadhaar No:890764913798



*L Nirmala*

*D/o. L Rangaiah*

*&*

*Lingulla Ramathulasi*

*having fulfilled the academic requirements in August, 2019 has this day*

*been admitted by the Executive Council to the Degree of*

*\*\*\* Doctor of Philosophy \*\*\**

**(Mechanical Engineering)**

for the Thesis entitled,

**"STUDIES ON ABRASIVE WEAR, CORROSION RESISTANCE AND MICROSTRUCTURAL PROPERTIES OF ZA27 NICKEL ALLOY"**

*Date of Viva Voce : 24.08.2019* Given under the Seal of the University

Saturday, 24 April, 2021.

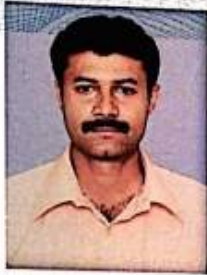


DIRECTOR OF EVALUATION

REGISTRAR

VICE CHANCELLOR

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



320001720

SI. No. PC 01146069

**PROVISIONAL CERTIFICATE**



Hall Ticket No.: 0903PH1526

This is to certify that Mr. SALEEM KHAN

son of Mr. GULAM HUSSAIN

has satisfied all the requirements for the award of Doctor of Philosophy

in the faculty of MECHANICAL ENGINEERING

of this University, held in November, 2020 for the thesis entitled,

"Development of Hybrid Al6061-Si<sub>3</sub>N<sub>4</sub>-C<sub>f</sub> Metal Matrix Composite".

*Nlll*  
Verified by  
Hyderabad - T.S.

*Upprasanna*  
Director of Evaluation

*[Signature]*  
REGISTRAR

Date: 18 February 2021

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

DINESH KUMAR D S

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

*for the thesis entitled*

A NOVEL MULTI ALGORITHM BASED SPEECH & FACE RECOGNITION  
(MULTI MODAL) SYSTEM FOR THE ANALYSIS OF FAR & FRR

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
19

001061

Given under the seal of the University

USN: 1TJ12PEN04



BELAGAVI

DATE :

APRIL 03, 2021

VICE CHANCELLOR

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ  
ಕರ್ನಾಟಕ, ಭಾರತ



ಶ್ರೀ/ಶ್ರೀಮತಿ

DINESH KUMAR D S

ಇವರು

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES ವಿಭಾಗದಲ್ಲಿ

A NOVEL MULTI ALGORITHM BASED SPEECH & FACE RECOGNITION  
(MULTI MODAL) SYSTEM FOR THE ANALYSIS OF FAR & FRR

ಎಂಬ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ  
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

PH  
19 001061

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆಯೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ

USN: 1TJ12PEN04



ಬೆಳಗಾವಿ

ದಿನಾಂಕ : APRIL 03, 2021

ಕುಲಪತಿ

051364

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR



ANANTAPUR - 515 002, ANDHRA PRADESH, INDIA

H.T.No: 0803PH0822

*Pattipathi Naga Sudha*

*D/o Ranga Reddy B*

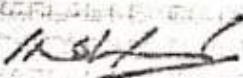
*having fulfilled the academic requirements in November, 2013 has this day been admitted by the Monitoring & Development Committee to the Degree of*

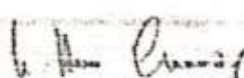
*Doctor of Philosophy*  
(Electronics & Communication Engineering)

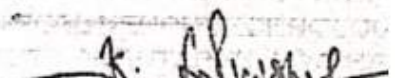
for the Thesis entitled,  
"SPEECH COMPRESSION AND ERROR CORRECTION FOR MOBILE  
COMMUNICATION"

Monday, 16 December, 2013.

Given under the Seal of the University

  
Director of Evaluation

  
Registrar

  
Vice Chancellor



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

**CHANDA V REDDY**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Electrical & Electronics Engineering Sciences*

*for the thesis entitled*

*Bit Loading Algorithm With Optimised Bitrate And Power  
Allocation In Wireless Communication System*

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
13 001433

Given under the seal of the University;

USN: 1RV10PEN01



BELGAUM

DATE : March 18, 2019

VICE CHANCELLOR

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 688303



H.T No.: 0803PH08A42

*Ms. Surekha Borra*  
*D/o. Venkata Narayana*

having fulfilled the academic requirements in *February, 2015*  
has this day been admitted by the Executive Council to the Degree of

*Doctor Of Philosophy*  
*Electronics & Communication Engineering*

Topic : Image Data Hiding for Copyright Protection based on Visual  
Cryptography Schemes

Given under the Seal of the University

Date:17-09-2016



*[Signature]*

DIRECTOR OF EVALUATION

*[Signature]*

REGISTRAR

*[Signature]*

VICE CHANCELLOR



460201552863

PC No  
21777026418



ENROLMENT NO.: AU141787

# AISECT UNIVERSITY™

A STATUTORY UNIVERSITY UNDER SECTION 2(F) OF THE UGC ACT

Raisen, (M.P.)

Hereby confers the degree of

## DOCTOR OF PHILOSOPHY



In

Electronics & Communication Engineering

on

Sangappa

who has fulfilled all the requirements prescribed  
under the regulations and successfully defended the thesis on

14th, July 2017

entitled

A Cross Layer Architecture Based Robust Routing Protocol for  
Inter-Vehicular Communication in VASNET

एतद द्वारा प्रदान करता है

**डॉक्टर ऑफ फिलॉसफी**

की उपाधि

इलेक्ट्रॉनिक्स एण्ड कम्युनिकेशन इंजीनियरिंग  
में

**संगप्पा**

को उनके द्वारा अवाप्ती हेतु विनियम विहित सभी आहर्ताओं को पूर्णकर अपने शोध प्रबंध को

14 जुलाई 2017 में

सफलतापूर्वक प्रस्तुत करने पर, जिसका शीर्षक है :

अ क्रॉस लेयर आर्किटेक्चर बेस्ड रोबस्ट राऊटिंग प्रोटोकॉल फॉर इन्टर-व्हीकूलर  
कम्युनिकेशन इन वासनेट

Given this day under the seal of the University at Raisen  
(Madhya Pradesh) in the Republic of India

Registrar

Date : 20/02/2018  
Raisen (M.P.) India

Vice-Chancellor



**International Institute of  
Information Technology  
Bangalore**

(Formerly Indian Institute of Information Technology)

F.No. PH2012003/Term2/IIITB/2017-18/Term2

Date: March 19, 2018

**PROVISIONAL CERTIFICATE**

This is to certify that **Mr. Joy Prabhakaran** student enrolment No. PH2012003, Research Scholar in the Institute has successfully completed the Doctor of Philosophy program of the institute and has successfully defended his thesis titled "Novel Techniques in Image Zooming and Hierarchical Multi-Resolution Image Representation" under the supervision of **Prof. P G Poonacha** and **Prof. Jaya Sreevalsan Nair** on **January 24, 2018**. He has thus completed all the requirements for the award of the Doctor of Philosophy Degree. The Senate of the institute, in its 60<sup>th</sup> meeting held on February 21, 2018 has recommended the award of Doctor of Philosophy of the institute to **Mr. Joy Prabhakaran**. The degree will be conferred on him after its due consideration by the Governing Body of the Institute at the next annual convocation of the institute to be held on **July 8, 2018**.



**SR Sridhar**  
Commodore (Retd.)  
Registrar

**S R Sridhar**  
Commodore (Retd.)  
Registrar  
International Institute of Information Technology, Bangalore  
26/C, Electronics City,  
Hosur Road, Bangalore - 560100  
Ph : 080-41407777, Fax : 080-28527636

26/C,

Ph : 91-80-41407777,  
Fax : 080-28527636

JUC 70029

JGU



## JAIN UNIVERSITY

Declared as Deemed-to-be University u/s 3 of the UGC Act, 1956  
vide MHRD Notification No. F-9-57/2007-U3(A)

*We, the Chancellor, Vice Chancellor,  
Members of the Board of Management &  
Academic Council of Jain University certify that*

**B Sudarshan**

*having been examined in February-2017  
with Reg. No. 10PPECE146  
has been conferred with the Degree of*

**DOCTOR OF PHILOSOPHY**  
*in Electronics Engineering*

*by Jain University, Bengaluru  
on the 6<sup>th</sup> day of January 2018.  
In Testimony whereof are set the seal of the  
said University and the signature of the  
said Vice Chancellor*

Date : 06.01.2018

*N. Sundarshan*  
Vice Chancellor

## जैन विश्वविद्यालय

विश्वविद्यालय अधिनियम, 1956 के अनुच्छेद 3 के अन्तर्गत मान्य संसदपत्र विद्यालय प्रमाणित की  
अधिकृत संख्या एन. 9-57/2007-उ3(अ) के द्वारा मान्य विश्वविद्यालय के रूप में घोषित

हम, जैन विश्वविद्यालय के कुलाधिपति, कुलपति,  
प्रबन्धन परिषद् के सदस्य एवं  
शिक्षा समिति, प्रमाणित करते हैं कि

**बि. सुदर्शन**

जिनकी पंजीयन संख्या 10PPECE146 है,  
फरवरी - २०१७ के परीक्षोपरांत

पीएच. डी.  
विद्युन्मान अभियांत्रिकी

की उपाधि में उत्तीर्ण हुए।  
जैन विश्वविद्यालय, बेंगलूरु की ओर से  
दिनांक ६ जनवरी २०१८ को इन्हें यह उपाधि  
प्रदान की गई है, जिसके प्रमाण स्वरूप उक्त  
विश्वविद्यालय की मोहर एवं  
उक्त कुलपति के हस्ताक्षर अंकित हैं।

*एन. सुदर्शन*  
कुलपति

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

DEVIKA B

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

*for the thesis entitled*

OPTIMIZING POWER IN AD HOC NETWORKS

*in recognition of the fulfillment of requirements  
for the said degree*

PH 000811 Given under the seal of the University  
19

USN: 1KS14PEM03



BELAGAVI  
DATE : APRIL 03, 2021

  
VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

REKHA N

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

*for the thesis entitled*

NOISE CANCELLATION IN GSM LOGICAL CHANNEL USING SEARCH  
ALGORITHM

*in recognition of the fulfillment of requirements  
for the said degree*

PH  
19 000746

Given under the seal of the University

USN: 1KS14PEM01



BELAGAVI

DATE : APRIL 03, 2021

  
VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

JALAJA P

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

FACULTY OF APPLIED SCIENCES (MATHEMATICS)

*for the thesis entitled*

A NUMERICAL STUDY OF UNSTEADY INCOMPRESSIBLE BOUNDARY  
LAYER THROUGH DOUBLE CHOKING SUPERSONIC EJECTORS

*in recognition of the fulfillment of requirements  
for the said degree*

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USN: 1EW15PGJ04



BELAGAVI

DATE : APRIL 03, 2021

VICE CHANCELLOR



KA 103010



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ,  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor,*  
ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು  
*the members of the Academic Council and the Syndicate*

**Certify that**

**KIRAN KUMAR S R**

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ,  
*on the recommendation of the Board of Examiners, admitted to the degree of*

**Doctor of Philosophy**  
**(Chemistry)**

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ  
*in recognition of the fulfilment of requirements*  
ಒಂನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.  
*for the said Degree at the THIRTIETH Convocation*

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 12/06/2019  
ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ / Date of Convocation : 29th July 2020

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ.

*Given under the seal of the University.*



Jnana Sahyadri, Shankaraghatta-577451  
Shivamogga District,  
Karnataka, India

Date of Issue : 29/07/2020

KUS



*Dr. Venakshadappa*

ಕುಲಪತಿ  
Vice-Chancellor

Folio :D 03678



# BHARATHIAR UNIVERSITY

COIMBATORE - 641 046

## Ph.D. PROVISIONAL CERTIFICATE

This is to certify that

**RENUKA C**

has qualified for

the award of the Degree of

**DOCTOR OF PHILOSOPHY**

of this University in

**PHYSICS**

on **22/11/2018**

after having

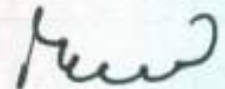
completed the requirements prescribed for the award of the Degree.\*

\* under external part time mode.



Coimbatore - 641 046

Date : 06 DEC 2018

  
Controller of Examinations i/c