# Indian Institute of Technology Pelhi

Roon the recommendation of the Senate hereby confers the degree of

Poetor of Philosophy

att

Ram Prakash Rustagi

Thesis fifle:

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

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

The 14th August, 1999 astara line Chairman Director & Kourd of Cabernors Chairman, Senute Registrar

Y HYDERABAL JAWAHARLAL N ECHNOLOGICAL UNIVE - 500 085, TELANGANA STATE, INDIA TS 688185 H.T No.: 0703PH0614 Ms. Rekha B Venkatapur Dlo. Venkatapur B having fulfilled the academic requirements in June, 2016 bas this day been admitted by the Executive Council to the Degree of Doctor Of Philosophy Computer Science And Engineering Topic : A Robust Hierarchical Clastering Algorithm for Video Watermark Given under the Seal of the University Date:09-09-2016 PC NO KS. INSTITUTE OF TELEVISION

क्रमांक Serial No. 00216	PREFIC	अनुक्रमांक Enrollment No. PU10-7085
पेसिफिक उच्चतर शिक्षा	और अनुसंधान अका	ादमी विश्वविद्यालय, उदयपुर
	यह प्रमाणित किया जाता है दयानन्दा आर ब	
द्वारा विश्वविद्यालय के सम्ब	न्धित विनियमनों में विहित र	अपेक्षाओं को सफलतापूर्वक पूर्ण
	ालय प्रबन्ध मण्डल की अनुष	
	- नेयान्त्रिकी र	
के क	म्प्युटर साईन्य	<b>स</b> विभाग में
	विद्या-वाचस्पति	
	की उपाधि प्रदान की गयी i	है।
	ग्यूरिटी एंड खादा इण्टि डि एन्क्रिप्शन औन क्लार	
Pacific Academy of High	er Education and Re	esearch University, Udaipur
This is to c	ertify that on the recomm	nendation of
the Boan	d of Management of the	University
	DAYANANDA R.B.	
	been conferred the degree	
Do	ctor of Philos	ophy
in the Department of	Computer	Science
	fulfillment of the require	and the second
under the relevant r	regulations of the Univer	rsity in the year of 2015.
	research was <u>Security a</u> ption on cloud	nd data integrity using attribute
CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE	निर्गमन दिनांक: 18 मार्च, 2010 Date of Issue: 18 <sup>th</sup> March, 20	

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

Vellore Institute of Technology

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

RB leader Vice - Chancellor

Dated : 19-Oct-2020 Vellore - 632 014, Tamil Nadu, India

Chancelle

St. No.

1034.70

CS Scanned with CamScanner

13PHD1033



This is to certify that

### SWATHI K

has been conferred the Degree of

# Doctor of Philosophy

### FACULTY OF COMPUTER & INFORMATION SCIENCES

in

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

Given under the seal of the University

USN: 1EW16PEJ02



de VICE CHANCELLOR

3

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BELAGAVI APRIL 03, 2021

Be



This is to certify that

VANEETA M

has been conferred the Degree of

# Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

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

in recognition of the fulfillment of requirements for the said degree

19 001635

Given under the seal of the University

USN: IKS15PEJ04



VICE CHANCELLOR

BELAGAVI DATE : MARCH 10, 2022



ANANTAPUR - 515 002, ANDHRA PRADESH, INDIA

H.T.No: 0803PH0822

CC 051364

# Pattipathi Naga Sudha

D/o Ranga Reddy B

having fulfilled the academic requirements in November, 2013 has this day been admitted by the Monitoring I. 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

12 del

Director of Evaluation

Registrar

**Vice Chancellor** 

### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Hyderabad - 500 085, telangana state, india

TS 688303







H.T No.: 0803PH08A42

Ms. Surekha Borra Dlo. 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



PC No 21777026418

ENROLMENT NO.: AU14178

Vice-Chanchlior

# SECT L Raisen, (M.P.)

Hereby confers the degree of

DOCTOR OF PHILOSOPH

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

फ्तद द्वारा प्रदान करता है

# डॉक्टर ऑफ फिलॉसफी

की उपादि

इलेक्ट्रॉनिक्स एण्ड कम्प्युनिकेशन इंजीनियरिंग 渊

संगण्पा

Chan R

stra

को उनके द्वारा अवापनी हेतु विनियम विग्रिन सभी आहर्ताओं को पूर्णकर अपने शोव प्रबंध को

14 जुलाई 2017 में

सकलतापूर्वक प्रस्तुत करने पर, जिसका शीर्षक है :

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

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

> > Date: 20/02/2018

ManuerLife.P.) Budie





### **International Institute of Information Technology Bangalore**

The Governing Body upon the recommendation of the Senate of the Institute hereby confers upon

# Joy Prabhakaran P

the degree of

# Doctor of Philosophy

given this Eighth day of July Two Thousand and Eighteen at Bangalore.

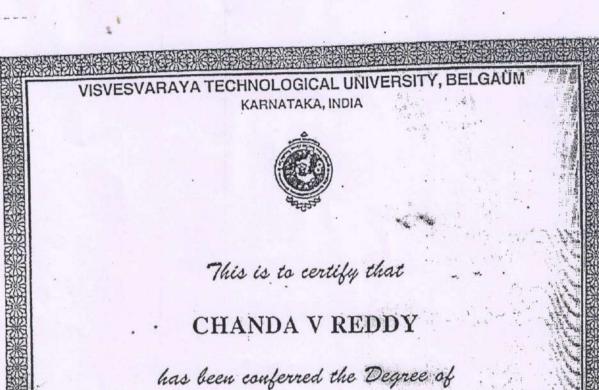
S. Sadagopan Director

S.R. Sridhar Registrar

S. Gopalakrishnan

Chairman

ternational Institute of Information Technology Bangalore | 26/C, Electronics City, Hosur Road, Bengaluru 560 100 INDIA | http://www.liitb.ac.in



Doctor of Philosophy

Faculty of Electrical & Electronics Engineering Sciences

in

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 001433

Given under the seal of the University

ICE CHANCEL

USN: 1RV10PEN01



BELGAUM DATE : March 18, 2019



This is to certify that

REKHA N

has been conferred the Degree of

# Boctor 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 000746 Given under the seal of the University

USN: 1KS14PEM01





BELAGAVI APRIL 03, 2021 DATE



# This is to certify that

DEVIKA B

has been conferred the Degree of

# **Boctor of Philosophy**

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

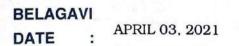
OPTIMIZING POWER IN AD HOC NETWORKS

in recognition of the fulfillment of requirements for the said degree

PH 000811 Given under the seal of the University

USN: 1KS14PEM03





VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI KARNATAKA, INDIA This is to certify that DINESH KUMAR D S has been conferred the Degree of Moctor 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 001061 Given under the seal of the University USN: 1TJ12PEN04 BELAGAVI APRIL 03, 2021 VICE CHANCELLOR DATE :



# Indian Institute of Technology, Madras

hereby confers the degree of Doctor of Philosophy

of the Institute

### VENKATESWARA ALIAS BALAJI K

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

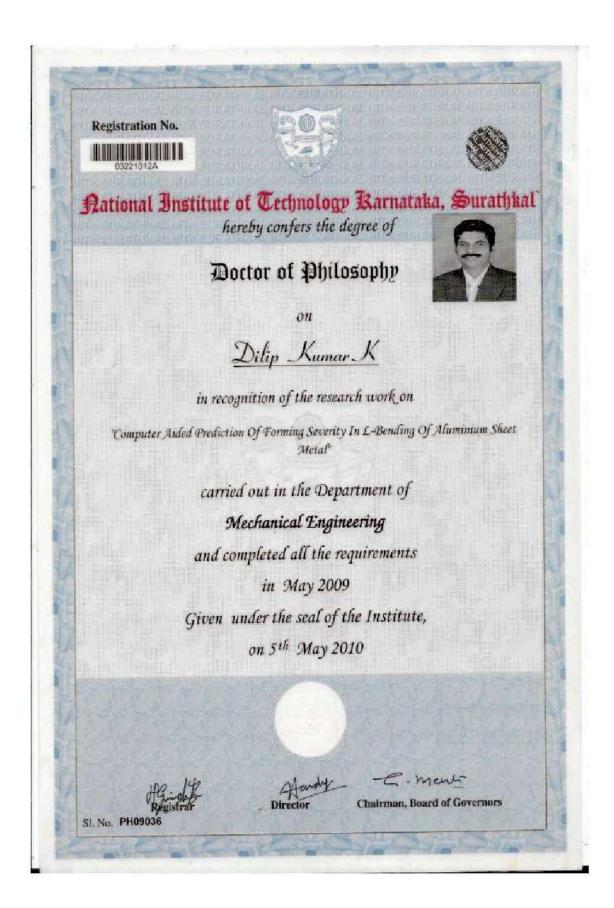
> A STUDY OF SOME PSYCHOLOGICAL ANTECEDENTS IN INDUSTRIAL ACCIDENTS

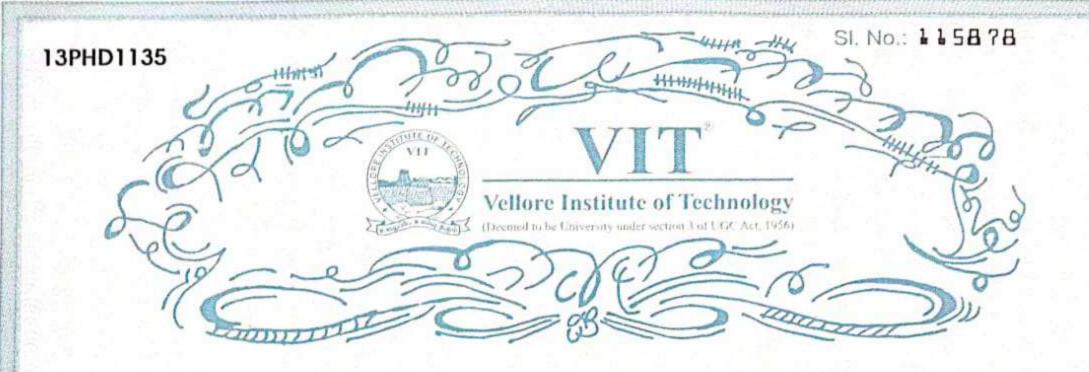
Given this day the Twentysixth of July, 1996 K.S. INSTITUTE OF TECHNOLO under the seal of the Institute. BENGALURU - 560 109.

Regulstrar - Director

D. S Bronwathen

Chairman Board of Governors







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

## **M UMASHANKAR**

the degree of

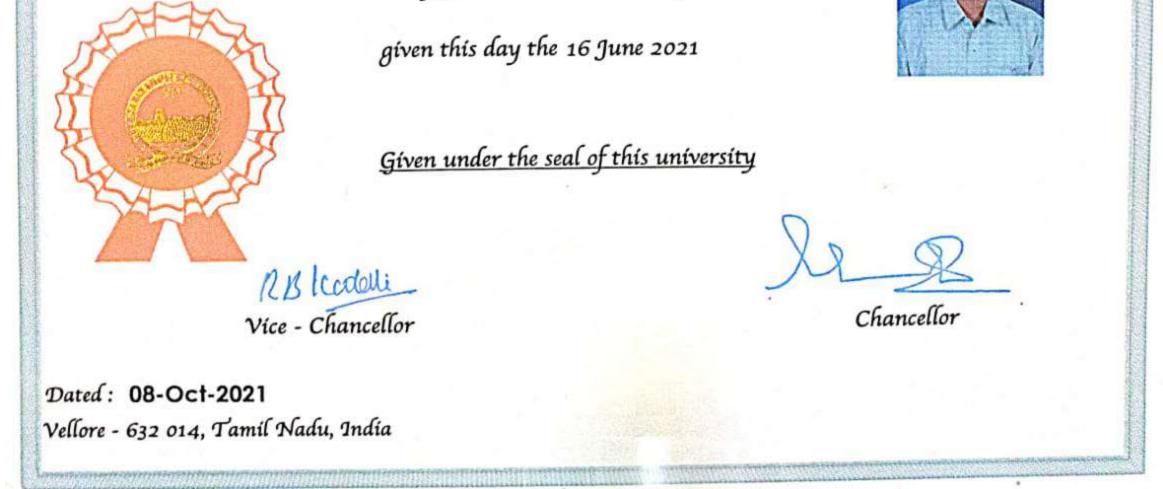
# DOCTOR OF PHILOSOPHY

in recognition of the research work entitled

# TRIBOLOGICAL STUDIES ON ZINC-ALUMINIUM CAST ALLOYS

for having fulfilled the prescribed requirements.

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







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

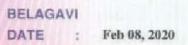
A Study on Effect of Fluid Injection on Diesel Engine Performance and Emissions

in recognition of the fulfillment of requirements for the said degree

000332 Given under the seal of the University

USN: 1DA08PMN03

PH





This is to certify that

GIRISH T R

has been conferred the Degree of

Bontor of Malosuphy

in

Faculty of Mechanical Engineering Sciences

for the thesis entitled

Development And Characterization of Hybrid Composite Using Jute And Glass Fiber

in recognition of the fulfillment of requirements for the said degree

PH 001511

BELGAUM

DATE

Given under the seal of the University

USN: 5VX12PMN37



March 18, 2019

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VICE CHANCELLOR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

CC 067139



Aadhaar No: 890764913798

H.T.No:10PH0340

L Nirmala

D/o. L Rangaiah G Lingutla Ramathulasi

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

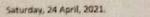
been admitted by the Executive Council to the Degree of

... Doctor of Philosophy ...

(Mechanical Engineering)

for the Thesis entitled, "STUDIES ON ABRASIVE WEAR, CORROSION RESISTANCE AND MICROSTRUCTURAL PROPERTIES OF ZA27 NICKEL ALLOY"

Date of Viou Voce : 24.08.2019 Given under the Seal of the University





ISTRAH

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DIRECTOR OF EVALUATION

VICE CHANCEDLOR

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HARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Hyderabad - 500 085, TELANGANA STATE, INDIA

s 1503275

P-020



T No.: 0903PH1526



Mr. Saleem Khan

Slo. Gulam Aussain

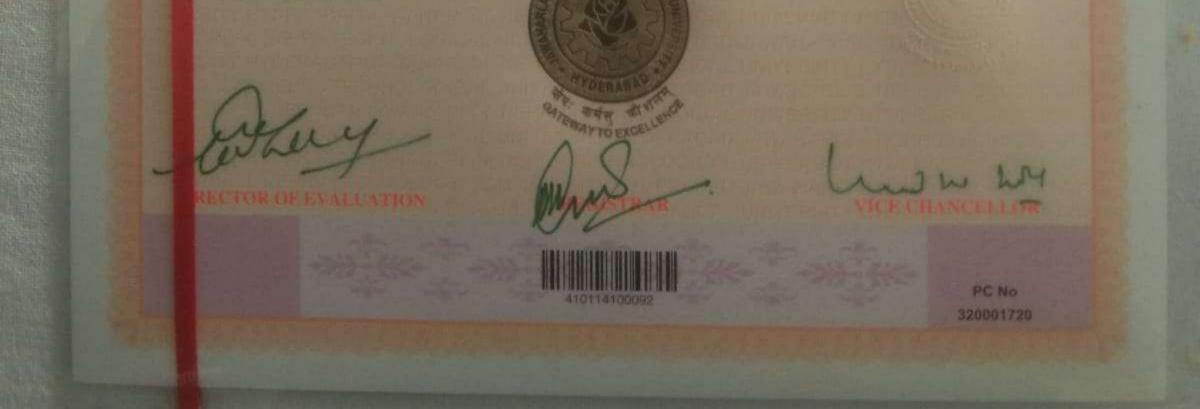
calfilled the academic requirements in November - 2020 cen admitted by the Executive Council to the Degree of

Doctor of Philosophy

Mechanical Engineering

Topic: "Development of Hybrid Al6061-Si3N4-Cf Metal Matrix Composite".

Given under the Seal of the University





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

PH 001156

Given under the seal of the University

USN: 1EW15PGJ04



VICE CHANCELLOR

BELAGAVI

DATE : APRIL 03, 2021



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 ೩೦ನೇ 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 ವೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ. Given under the seal of the University.



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

Date of Issue : 29/07/2020



Vice-Chancellor



# பாரதியார் பல்கலைக் கழகம் Bharathiar University

el (10 e) (10

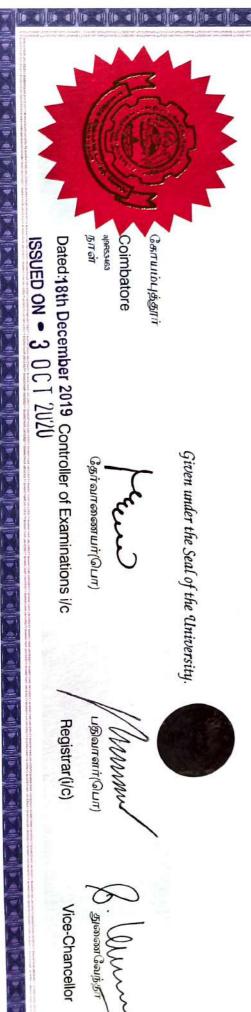
-

அறிவியல் புலம்

# FACULTY OF SCIENCE

பாரதியார்	ஏற்று,	ஆய்வியல் அறிஞர்	ரேணுகா ச,	பாரதியார்
பாரதியார் பல்கலைக்	அவருக்கு	அறிஞர்		பாரதியார் பல்கலைக் கழகத்தால்
ቌሇ፟ቌ	அந்தப்	என்னும்	ஆண்டு,	ழகத்தா
<b>الا بالا</b>	5Ú	ju	2018ஆம் ஆண்டு, நவம்பர் 22ஆம்	<b>ຍ</b> .
கழக ஆட்சிக் குழு வழங்குகள்றது	பட்டத்தைப்	ىرت	<b>22</b> ஆம்	முறையாக
வழங்குகின்ற	Ŀ	பெறத்	நாளில்	9
0দ্র্যু।	பல்கலைக்	தகுதியடைந்த	இயற்பியல்	அமைக்கப்பட்ட
	சுரிச	ியடைந்திருப்பதாகச்	ல் என்னும்	தேர்வாளர்
	இலச்சினையுடன்,	சான்றளித்ததை	ம் பிரிவில்	ர் குழு.

The has having been certified by duly appointed Examiners to be qualified to receive the same on 22nd NOVEMBER 2018. been Syndicate of admitted the to Bharathiar the Degree University f DOCTOR OF PHILOSOPHY hereby makes known that H. **RENUKA C** PHYSICS,





This is to certify that

VENKATARAMANA B S

has been conferred the Degree of

# Doctor of Philosophy

FACULTY OF APPLIED SCIENCES (MATHEMATICS)

in

for the thesis entitled

STUDIES ON POWER EXPONENTIAL MEAN IN SEVERAL VARIABLE AND ITS APPLICATIONS

in recognition of the fulfillment of requirements for the said degree

PH 001822

Given under the seal of the University

USN: 1JS15PGJ05



BELAGAVI DATE : MARCH 10, 2022

VICE CHANCELLOR