

# BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi, Recognized by Govt. of Karnataka.  
Affiliated to Visveswaraya Technological University Belagavi, Karnataka.  
Lands End, Innoli, Boliyar Village, Post Pavoor, Near Mangalore University,  
Mangalore-574199, T: +91 824 2235000/2235100/2235200, F: +91 824 2235775  
E-mail: principal@bitmangalore.edu.in, Website: www.bitmangalore.edu.in



Bearys  
Institute  
of Technology  
MANGALORE

Ref:BIT./Admn./NAAC/127/2022-23

Date: 27/01/2023

## Endorsement

The PhD Degree Certificates of Faculty are enclosed.

  
Principal

**PRINCIPAL**  
Bearys Institute of Technology  
BEARYS KNOWLEDGE CAMPUS  
Lands End, Boliyar Village  
Near Mangalore University, Innoli,  
MANGALORE - 574 199



Reg. No.:2003369704/RG

The Syndicate of the Anna University hereby makes known that **MANJUR BASHA S I** 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 **2012**.


Title of the thesis:

**MEASURING SYSTEM FOR d-AND q- AXES FLUX IN SYNCHRONOUS MACHINES AND MODELING USING ADAPTIVE NETWORK FUZZY INFERENCE SYSTEM**

Given under the Seal of the University



Chennai 600 025  
India  
January 2012

  
Controller of Examinations

Manjur Basha  
Sheik Ibrahim

Digitally signed by  
Manjur Basha Sheik  
Ibrahim  
Date: 2012.08.21  
16:43:34 +05'30'

  
Registrar

  
Vice-Chancellor

CE/REG/VC/IN/CONT/REG/EXAM/GEN



ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,  
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

**ಅಜೀಜ್ ಮುಸ್ತಾಫಾ ಬಿ.**

ಅವರು ೨೦೧೩ನೆಯ ವರ್ಷದ ಸೆಪ್ಟೆಂಬರ್ ತಿಂಗಳಿನಲ್ಲಿ

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**

ಪದವಿಗೆ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ.

೨೦೧೪ ರ ಫೆಬ್ರವರಿ ತಿಂಗಳ ಇಪ್ಪತ್ತನಾಲ್ಕನೇ ದಿನದಂದು ನಡೆದ ೩೨ನೆಯ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯದ ಜಿಯೋಇನ್ಫಾರ್ಮೇಟಿಕ್ಸ್

ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.

*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
and the members of the Syndicate and Academic Council of Mangalore University  
do hereby make known that*

**AZIZ MUSTAFA B.**

*has been admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*at the 32nd Convocation held on the 24th day of February 2014 on being duly certified to have  
qualified for the same in the month of September 2013*

*for the thesis / ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:*

**"WIRELESS APPLICATIONS OF GIS IN DYNAMIC PLATFORMS : A CASE STUDY IN LAPTOPS  
AND MOBILE PHONES"**

*in the Faculty of Science and Technology under the Board of Studies in Geoinformatics*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.

*Given Under the Seal of the University*



ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ, ಭಾರತ  
MANGALAGANGOTRI, KARNATAKA, INDIA  
ದಿನಾಂಕ / Date: 24.02.2014

Manjur  
Basha  
Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.07.25  
14:26:33 +05'30'

ಕುಲಪತಿ  
VICE-CHANCELLOR



ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

Accredited by NAAC with 'A' Grade

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,  
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

ಅಬ್ದೊ ಹಸನ್ ಅಲಿ ಗುರೂಬ್  
ಅವರು 2019 ನೆಯ ವರ್ಷದ ಜುಲೈ ತಿಂಗಳಿನಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ  
2020 ರ ಫೆಬ್ರವರಿ ತಿಂಗಳ ಇಪ್ಪತ್ತೇಳನೆಯ ದಿನದಂದು ನಡೆದ 38ನೆಯ ಘಟಕೋತ್ಸವದಲ್ಲಿ

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯದ ಗಣಕ ವಿಜ್ಞಾನ  
ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.

*We, the Chancellor, the Pro-Chancellor, the Vice Chancellor, the members  
of Syndicate and Academic Council of Mangalore University  
do hereby make known that*

**Abdo Hasan Ali Guroob**  
*has been admitted to the Degree of*  
**DOCTOR OF PHILOSOPHY**

*at the 38<sup>th</sup> Convocation held on the 27<sup>th</sup> day of February 2020 on being duly  
certified to have qualified for the same in the month of July 2019  
for the thesis / ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ :*

**"EFFICIENT PERFORMANCE TECHNIQUES FOR REPLICATION AND SCHEDULING IN THE  
DISTRIBUTED DATA GRID ENVIRONMENTS"**

*in the Faculty of Science and Technology under the Board of Studies in  
Computer Science*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.  
*Given Under the Seat of the University.*

ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ  
MANGALAGANGOTRI, Karnataka State, INDIA

27.02.2020

ದಿನಾಂಕ Date



Manjur  
Basha  
Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.08.20  
16:02:32 +05'30'

*Manjur Basha*  
ಕುಲಪತಿ  
VICE CHANCELLOR

ರಿಜಿಸ್ಟ್ರ್ಡ್ ನಂ. Reg. No. ....

ಕ್ರಮ ಸಂಖ್ಯೆ : SI. No. : 0014/2020



DO NOT LAMINATE THIS CERTIFICATE

IN7180552540



مملكة اليمن جمهورية اليمن الديمقراطية الشعبية  
القسم القنصلي  
EMBASSY OF THE REPUBLIC OF YEMEN (NEW DELHI)  
CONSULAR SECTION  
It has been seen at the Embassy of R. O. Y.  
The Signature of \_\_\_\_\_  
The Seal of \_\_\_\_\_  
Date \_\_\_\_\_  
Fee received \_\_\_\_\_  
The Embassy is not responsible for Documents.  
THE CONSUL

Country: INDIA  
REPUBLIC OF INDIA  
Convention de La Haye du 5 octobre 1961  
This public document  
DEGREE  
has been signed by  
acting in the capacity of VICE CHANCELLOR  
bears the seal/stamp of VICE CHANCELLOR  
DIVISION, KARNATAKA ADDL. COMMISSIONER, MYSURU  
Certified  
at NEW DELHI, INDIA the 06-Jul-2020  
by SO (OI/Attestation) MINISTRY OF EXTERNAL AFFAIRS  
No. KABN0010224220  
Seal / Stamp  
is issued to ABDO HASAN ALI GUROOB  
Signature

AUTHENTICATED  
No: RCM/PDC 1110/19-20  
Dated: 26-05-2020

*Manjuri Basha Sheik Ibrahim*  
**K.M. Gayithri K.A.S.**  
Additional Commissioner,  
(Administration & Development)  
Regional Commissioner's Office,  
Mysuru Division, Mysuru



(सुनील चन्नाप)  
(SUNIL CHANAP)  
Section Officer (OI) Addl. Dye  
Ministry of External Affairs  
EMBASSY OF THE REPUBLIC OF YEMEN (NEW DELHI)  
CONSULAR SECTION  
It has been seen at the Embassy of R. O. Y.  
The Signature of \_\_\_\_\_  
The Seal of \_\_\_\_\_  
Date received \_\_\_\_\_  
The Embassy is not responsible for Documents.  
THE CONSUL

534

Embassy of the Republic of Yemen  
Cultural Attache  
Ref. No. 24/12/20/1187  
Student Name: ABDO HASAN ALI GUROOB  
Date: 11/08/2020

Manjur Basha Sheik Ibrahim  
Digitally signed by Manjur Basha Sheik Ibrahim  
Date: 2023.08.20 16:02:55 +05'30'

*Manjur Basha Sheik Ibrahim*  
20/8/2020





# MANGALORE UNIVERSITY



SL. No.: 28258/2016

Accredited by NAAC with 'A' Grade

OFFICE OF THE  
REGISTRAR (EVALUATION)  
MANGALAGANGOTTHRI - 574 199

Date: 02-01-2017

## STATEMENT OF MARKS

DOCTOR OF PHILOSOPHY(Ph.D) COURSE WORK

IN

COMPUTER SCIENCE EXAMINATION JULY-2016



Name : **ABDO HASAN ALI GUROOB**

Register No. : **158528240**

Subject Name	Code	Marks				Credit Calculations			Result
			Max	Min	Obtained	Cr	GP	GPW	
Research Methodology	Paper I	Theory	70	-	59	4	8.5	34	PASS
		IA	30	-	25				
		Total	100	50	84				
Review of Literature	Paper II	Review Report	150	-	140	10	9.5	95	PASS
		Viva	50	-	43				
		Total	200	100	183				
GRAND TOTAL			300	150	267	14	-	129	
Grand Total In Words :		Two Hundred Sixty Seven							
Aggregate Marks : 89.00					Grade Point Average : 9.21				

Cr = Credit

GP = Grade Point

GPW = Grade Point Weights

Transferred to Dept / College Records

Signature of the Chairman / Principal  
(With Seal)

**CHAIRMAN**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**MANGALORE UNIVERSITY, MANGALAGANGOTTHRI**  
**MANGALORE - 574 199, KARNATAKA.**



Manjur  
Basha  
Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.08.20  
16:03:05 +05'30'

Registrar (Evaluation)





سفارة الجمهورية اليمنية (نيودلهي)  
القسم القنصلي  
EMBASSY OF THE REPUBLIC OF YEMEN (NEW DELHI)  
CONSULAR SECTION  
It has been seen at the Embassy of R. O. Y.  
The Signature of: Manjur Basha  
The Seal of: Manjur Basha  
Date: 11/08/2020  
Fee received: 250  
The Embassy is not responsible for Document Contents.  
THE CONSUL

AUTHENTICATED  
No. RCM/PDC. 1110/19-20  
Dated: 11-08-2020

Manjur Basha  
21/8/20  
**K.M. Gayithri K.A.S.**  
Additional Commissioner,  
(Administration & Development)  
Regional Commissioner's Office,  
Mysuru Division, Mysuru

سفارة الجمهورية اليمنية (نيودلهي)  
القسم القنصلي  
EMBASSY OF THE REPUBLIC OF YEMEN (NEW DELHI)  
CONSULAR SECTION  
It has been seen at the Embassy of R. O. Y.  
The Signature of: Manjur Basha  
The Seal of: Manjur Basha  
Date: 11/08/2020  
Fee received: 250  
The Embassy is not responsible for Document Contents.  
THE CONSUL



भारत सरकार GOVERNMENT OF INDIA  
अपोस्टिल / APOSTILLE  
(Convention de La Haye du 5 octobre 1961)

Country: REPUBLIC OF INDIA

This public document  
MARK SHEET  
has been signed by REGISTRAR  
acting in the capacity of REGISTRAR  
bears the seal/stamp of ADDL. COMMISSIONER, MYSURU  
DIVISION, KARNATAKA

Certified  
at NEW DELHI, INDIA the 06-Jul-2020  
by SO (OI/Attestation) MINISTRY OF EXTERNAL AFFAIRS  
No. KABN0010224320

Seal / Stamp is issued to ABDO HASAN ALI GUROOB  
Signature

(सुनील चनाप)  
(SUNIL CHANAP)  
अनुभाग अधिकारी (ओ आई)  
Section Officer (OI)  
श्री. पी. पी. प्रधान / C.P.V. Div.  
विदेश मंत्रालय, नई दिल्ली  
Ministry of External Affairs, New

Embassy of the Republic of Yemen  
Cultural Attache  
Ref. No. CA/20/1187  
Student Name ABDO HASAN ALI GUROOB  
Date 11/08/2020



Manjur Basha Sheikh Ibrahim  
Digitally signed by Manjur Basha Sheikh Ibrahim  
Date: 2023.08.20 16:03:17 +05'30

Manjur Basha  
11/8/2020



ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು ಮತ್ತು ಸೆನೆಟ್ ಸದಸ್ಯರಾದ ನಾವು

*We, the Chancellor, the Vice-Chancellor and the members of the Senate of Mangalore University do hereby make known that*

ಆಂಟನಿ ಎ. ಜೆ. ಆಚರ

**ANTONY A. J.**

*has been admitted to the Degree of*

1996 ನೆಯ ವರ್ಷದ ಆಗಸ್ಟ್ ತಿಂಗಳಲ್ಲಿ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ

ಮೆಕಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್‌ನಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

**DOCTOR OF PHILOSOPHY**

**IN MECHANICAL ENGINEERING**

ಪದವಿಯನ್ನು ಪಡೆಯಲು ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ಶ್ರುತಪಡಿಸುತ್ತೇವೆ.

*on being duly certified to have qualified for the same in the month of August 1996*

ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:

*Title of the thesis:*

**"SIMULATION STUDIES ON THE CUMBSTION PROCESS IN SPARK IGNITED STRATIFIED CHARGE TWO-STROKE ENGINE WITH IN-CYLINDER PETROL INJECTION"**

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಅಂಧವಲೂದಿಗೆ ನೀಡಿದೆ.

*Given under the Seal of the University*

ಮಂಗಳೂರು, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ.

MANGALAGANGOTRI, Karnataka State, INDIA

ಘೋಷಣೆಯ ದಿನಾಂಕ  
Date of Convocation

1st February, 1997



Manjur  
Basha  
Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2025.08.20  
16:03:00 +05'30'

ಕುಲಪತಿ  
VICE-CHANCELLOR



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

**VIVEKANAND B HUDDAR**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Mechanical Engineering Sciences*

*for the thesis entitled*

*Experimental Investigations On Performance Or Solar Dryers  
For Drying Cashew Kernels*

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

PH  
13 001621

Given under the seal of the University

USN: 2KL10PMN02



BELGAUM  
DATE *annod* March 18, 2019

Manjur Basha  
Sheik Ibrahim  
Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.08.20  
16:04:24 +05'30'

VICE CHANCELLOR



ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ

000878

KARNATAK UNIVERSITY



DHARWAD



ಇವರು ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಕಾರಿ, ಸಹಕುಲಾಧಿಕಾರಿ, ಕುಲಪತಿ, ಸಿಂಹೇಟಾ ಹಾಗೂ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸದಸ್ಯರು  
The Chancellor, Pro-Chancellor, Vice-Chancellor, Members of the  
Syndicate and Academic Council of the Karnatak University certify that

ರಾಜು ಬಿ. ಜುಮ್ಮಿನ್ವರ್

ಇವರು ಸಂಭಾಷಿಸಿದ ವರದಿ ಫೆಬ್ರವರಿ ೨೦೧೮ ರಲ್ಲಿ  
ಆರ್ಥಿಕ ನಿರೀಕ್ಷೆ ಇವರಿಗೆ

RAJU B. JUMMANAVER

for having qualified for the Degree in February 2018  
the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ  
ಗಣಿತ

Doctor of Philosophy

MATHEMATICS

ಫದವಿ ಪ್ರದಾನವನ್ನು ಧಾರವಾಡ ದಲ್ಲಿ ಎರಡು ಸಾವಿರದ ಹದಿನೆಂಟನೆಯ ಮೇ  
ಐದ ರಂದು ಅಧಿಕೃತಗೊಳಿಸಿದ್ದೇವೆ.

has been conferred on him / her at Dharwad, on the Fifth day  
of the month of May in the year Two thousand eighteen.

ಈ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆ ಮತ್ತು ಕುಲಪತಿಯವರ ರಾಜುಗಳಿಂದ ಇದನ್ನು ಪ್ರಮಾಣೀಕರಿಸಲಾಗಿದೆ.

In Testimony, whereof are set the Seal of said University and the Signature  
of the said Vice-Chancellor.

P.G. Degree : Mathematics

Thesis Title : "A Study on Advances in Graphs"

Manjur Basha Sheik Ibrahim  
Digitally signed by Manjur Basha Sheik Ibrahim Date: 2023.08.20 16:01:36 +05'30'



ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

Accredited by NAAC with 'A' Grade

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,  
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

ಸಂದೀಪ್ ಕೆ ಎಂ

ಆವರು 2018ನೆಯ ವರ್ಷದ ಫೆಬ್ರವರಿ ತಿಂಗಳಿನಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ  
2018ರ ಫೆಬ್ರವರಿ ತಿಂಗಳ ಇಪ್ಪತ್ತಾರನೇ ದಿನದಂದು ನಡೆದ 36ನೆಯ ಘಟಕೋತ್ಸವದಲ್ಲಿ  
ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯದ ಭೌತಶಾಸ್ತ್ರ

ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.

*We, the Chancellor, the Pro-Chancellor, the Vice Chancellor, the members  
of Syndicate and Academic Council of Mangalore University  
do hereby make known that*

• **Sandeep K. M.**

*has been admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*at the 36<sup>th</sup> Convocation held on the 26<sup>th</sup> day of February 2018 on being duly  
certified to have qualified for the same in the month of February 2018  
for the thesis / ಮಹಾನ್ವುಂಧದ ತೀರ್ಪಿಗೆ :*

**"STUDIES ON OPTOELECTRONIC PROPERTIES OF UNDOPED AND DOPED ZnO THIN  
FILMS PROCESSED BY SOL - GEL SPIN COATING TECHNIQUE"**

*in the Faculty of Science and Technology under the Board of Studies in Physics*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.

*Given Under the Seal of the University.*

ಮಂಗಳೂರು, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ  
MANGALAGANGOTRI, Karnataka State, INDIA  
26.02.2018

Manjur  
Basha  
Sheik  
Ibrahim  
Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.08.20  
16:05:09 +05'30'

ರಜಿಸ್ಟ್ರ್ ನಂ. Reg. No. 124500121  
0072/2018  
ಕ್ರಮ ಸಂಖ್ಯೆ : Sl. No. :



ವಿ.ಕೆ.ಸಿ  
VICE CHANCELLOR



Registration No.



138019MT13F06

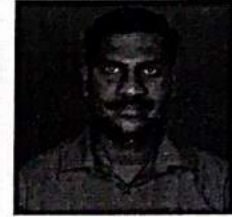


**National Institute of Technology Karnataka, Surathkal**  
hereby confers the degree of

**Doctor of Philosophy**

on

**Sharath PC**



in recognition of the research work on

**"MECHANICAL PROPERTIES AND MICROSTRUCTURAL CHARACTERISATION OF  
MULTI DIRECTIONAL FORGED AND HEAT TREATED Zn-24Al-2Cu ALLOY"**

carried out in the Department of  
**Metallurgical And Materials Engineering**

and completed all the requirements

in January 2018

Given under the seal of the Institute,

on 10<sup>th</sup> November 2018



Manjur  
Basha  
Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.08.20  
16:05:38 +05'30'

Registrar

Director

Chairperson, Board of Governors

Sl. No. PH18079



Enrollment No.

S.No. 14005

JNU13(W)ET101011

जोधपुर राष्ट्रीय विश्वविद्यालय, जोधपुर  
Jodhpur National University, Jodhpur



The Chairman and Members

of

The Board of Management confer on

**SHOAIB KAMAL**

the degree of

**DOCTOR OF PHILOSOPHY**

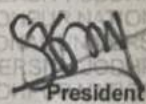
IN

**FACULTY OF ENGINEERING & TECHNOLOGY**

**(ELECTRONICS AND COMMUNICATION ENGINEERING)**

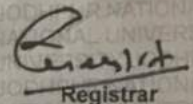
in the year 2018.

**Topic: "FACIAL EMOTION RECOGNITION USING SOFT COMPUTING."**

  
President



Jodhpur

  
Registrar

Printed On: 01-NOVEMBER-2018





الجامعة الإسلامية العالمية ماليزيا  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
يُونِيسَيْتِي إِسْلَامًا، إِنْتَارَا بَعْشَا مَلِيسِيَا

*By the authority of the Senate  
it is hereby certified that*

**Mohammed Asadullah Thakur**

*having fulfilled all the requirements and  
having passed all the prescribed examinations  
has been conferred the degree of*

**Doctor of Philosophy  
(Engineering)**

  
Rector

  
Dean

Manjur  
Basha Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.08.21  
16:42:48 +05'30'

10 July 2019



PG350718  
Mohammed Asadullah Thakur  
0124999



WAN ZAINUDDIN BIN ALI ASPAR  
Assistant Director  
Academic Development Management  
Division  
Department Of Higher Education  
Ministry Of Higher Education  
19 JUL 2019

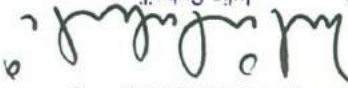


Manjur  
Basha Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.08.21  
16:42:59 +05'30'

This is to certify that the signature  
appears on this document/Certificate/ Marriage  
Certificate/Birth/Death. Certificate is that of  
Wan Zainuddin Bin Ali Aspar who  
is  
Ministry of Higher Education.....  
The Ministry of Foreign Affairs, Malaysia is not  
responsible of the accuracy of the information  
contained therein.

Julia Suhaili  
Consular Officer  
Consular Division  
Ministry of Foreign Affairs  
Putrajaya Malaysia  
19 JUL 2019







भारतीय विश्वविद्यालय संघ  
ASSOCIATION OF INDIAN UNIVERSITIES

AIU HOUSE, 16, Comrade Indrajit Gupta Marg, New Delhi- 110 002

EPABX : 91-011 23230059 (6 lines) / FAX : 91-011 - 23232131

<http://www.aiu.ac.in> E-mail: [evaluation@aiu.ac.in](mailto:evaluation@aiu.ac.in)

E.C : MOHA03213163

Date : 26/05/2021

**EQUIVALENCE CERTIFICATE**

NAME MR./MS. : MOHAMMED ASADULLAH THAKUR  
UNIVERSITY LEVEL : Ph.D.  
DEGREE/DIPLOMA : Doctor of Philosophy (Engineering)  
AWARDING UNIVERSITY/INSTITUTION : International Islamic University Malaysia, Malaysia  
SCORE/GRADE : As Shown on the Academic Transcript

**EVALUATION OF EDUCATIONAL CREDENTIALS**

**MOHAMMED ASADULLAH THAKUR** has obtained **Doctor of Philosophy (Engineering) - "Performance of Active and Passive Cylinder in Controlling Base Flows"** from **International Islamic University of Malaysia ( Universiti Islam Antarabangsa Malaysia)**, Kuala Lumpur is an accredited University in Malaysia - this qualification is **EQUATED** with **Doctor of Philosophy Degree** in the corresponding field of an Indian University.

**(THE ORIGINAL CERTIFICATES AND SUBJECTWISE ELIGIBILITY WILL BE VERIFIED BY THE ADMISSION GIVING UNIVERSITY / INSTITUTE)**

**Sreedevi S Nair**  
Digitally signed by Sreedevi S Nair  
Date: 2021.05.26 18:38:09 +05'30'

**Kuldeep Dagar**  
Digitally signed by Kuldeep Dagar  
Date: 2021.05.26 18:10:00 +05'30'

**AUTHORITY: Ministry of Education, Government of India, New Delhi, Gazette Notification No. F15-17/94-TS-IV dt 13th March 1995.**

Manjur Basha Sheikh Ibrahim  
Digitally signed by Manjur Basha Sheikh Ibrahim  
Date: 2023.08.21 16:44:14 +05'30'



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*  
**Abdullah Gubbi**  
*has been conferred the Degree of*  
**Doctor of Philosophy**

*in*

Faculty of Electrical and Electronics Engineering Sciences

*for the thesis entitled*

Soft Computing Applications to Face Recognition

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

PH  
13

000710

Given under the seal of the University

USN: 4PA09PEM03



BELGAUM

DATE : JANUARY 21, 2017

Manjur Basha  
Sheik Ibrahim

Digitally signed by  
Manjur Basha Sheik  
Ibrahim  
Date: 20.23.07.25  
14:26:53 +05'30'

VICE CHANCELLOR



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

**VINUTHA P R**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Applied Sciences (Physics )*

*for the thesis entitled*

*Synthesis, Growth And Characterization Of Conjugated  
Chalcone Crystals*

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

PH  
13 001600

Given under the seal of the University

USN: 4DM13PGN02



BELGAUM  
DATE :

March 18, 2019

Manjur  
Basha Sheik  
Ibrahim  
Digitally signed by  
Manjur Basha Sheik  
Ibrahim  
Date: 2023.07.25  
14:27:06 +05'30'

VICE CHANCELLOR



ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

Accredited by NAAC with 'A' Grade

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,  
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

**ಅಂಜುಂ ಖಾನ್**

ಅವರು ೨೦೧೪ನೆಯ ವರ್ಷದ ಎಪ್ರಿಲ್ ತಿಂಗಳಲ್ಲಿ

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**

ಪದವಿಗಿಂತ ಹೆಚ್ಚಿನ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವುದರಿಂದ ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ  
೨೦೧೫ ರ ಜೂನ್ ತಿಂಗಳ ಹದಿನೇಳನೇ ದಿನದಂದು ನಡೆದ ೩೩ನೆಯ ಘಟಕೋತ್ಸವದಲ್ಲಿ

**ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಶಾಯದ ಸಂಖ್ಯಾಶಾಸ್ತ್ರ**

ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವುದರಿಂದ ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.

*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor, the members  
of Syndicate and Academic Council of Mangalore University  
do hereby make known that*

**Anjum Khan**

*has been admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*at the 33<sup>rd</sup> Convocation held on the 17<sup>th</sup> day of June 2015 on being duly  
certified to have qualified for the same in the month of April 2014*

*for the thesis / ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ :*

**"SOME CONTRIBUTIONS TO NONPARAMETRIC REGRESSION BY WAVELET  
THRESHOLDING"**

*in the Faculty of Science and Technology under the Board of Studies in Statistics*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.  
*Given Under the Seal of the University.*





# BANGALORE UNIVERSITY

PAREEKSHA BHAVANA, JNANA BHARATHI, BENGALURU - 560 056

No.Ex II/Ph.D.-Sci-Maths/E/SAB/2016  
Ph.D. Tabulation Register Sl. No:54 Page No. 08 & 09

Dated: 18.05.2022

## NOTIFICATION

Sub: Award of Ph.D. Degree to Shaikh Ameer Basha in Mathematics - reg.  
Ref: Approval of the Vice-Chancellor in the file Dt.10.05.2022.

\*\*\*\*\*

## DECLARATION OF RESULT

## DOCTOR OF PHILOSOPHY

The Vice-Chancellor on behalf of the Syndicate has accepted the recommendation of the Board of Examiners for the award of the Degree of Doctor of Philosophy to the following candidate in the subject and faculty shown below. He/She is accordingly declared qualified to receive the degree of DOCTOR OF PHILOSOPHY.

Name of the Candidate	: Shaikh Ameer Basha
Title of the Thesis	: <i>"Some results towards the combinatorial graph theory and their applications"</i>
Faculty & Subject	: Science - Mathematics
Name of the Guide	: Dr. B. Chaluvvaraju



BY ORDER

*[Signature]*  
REGISTRAR (EVALUATION)

To  
Shaikh Ameer Basha,  
Research Scholar, Department of Mathematics, Bangalore University, Bengaluru - 560 056.

Copy:-

01. Dr. B. Chaluvvaraju, Professor, Department of Mathematics, Bangalore University, Bengaluru - 560 056.
02. Dr. Anil Kumar, V, Professor & Head, Department of Mathematics, University of Calicut, Malappuram, Kerala-673 635.
03. Dr. U. S. Mahabaleshwar, Professor, Department of Mathematics, Davangere University, Davangere - 577 007.
04. The Dean, Faculty of Science, BUB.
05. The Director of Prasaraanga, BUB - with a request to publish in University Gazette.
06. PS to V.C/Registrar/Reg (Ev), PA to FO, BUB.
07. The Secretary, University Grant Commission, Bahadur Shah Zafar Marg, New Delhi-110 002.
08. The Secretary, Association of Indian Universities, Deendayal Upadhyay Marg, New Delhi-110 002.
09. Dr. Youd Vir Singh, Library & Documentation Division, Associate of Indian Universities (AIU), AIU House, 16-Comrade Indrajit Gupta (Kotla) Marg, New Delhi - 110 002.
10. The Assistant Director, Statistical Cell, BUB.
11. Office Copy.

Manjur  
Basha Sheikh  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.07.25  
14:27:32 +05'30'



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

**VASANTHA KUMAR**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Mechanical Engineering Sciences*

*for the thesis entitled*

*Study Evaluation and Analysis on Stent Materials Used As  
Cardiovascular Implants*

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

PR 000132 Given under the seal of the University

ISSN: TMSOPMNDI



BELAGAVI

DATE Feb 08, 2020

VICE CHANCELLOR

Manjur Basha Sheikh Ibrahim  
Digitally signed by Manjur Basha Sheikh Ibrahim  
Date: 2023.07.25 14:28:04 +05:30





الجامعة الإسلامية العالمية ماليزيا  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
يونيڤرسيتي ايسلام انتارا بيشيا ملديسيا

By the authority of the Senate  
it is hereby certified that

**Mokashi Imran**

having fulfilled all the requirements and  
having passed all the prescribed examinations  
has been conferred the degree of

**Doctor of Philosophy (Engineering)**

  
Rector

  
Dean



PG380017

11 February 2022



विद्या परिषद की अनुशंसा पर  
भारतीय प्रौद्योगिकी संस्थान कानपुर  
के संचालक मण्डल द्वारा  
शेर अफगन खान

को

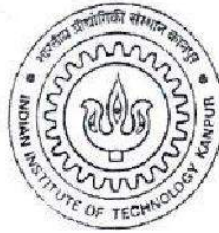
डॉक्टर ऑफ फिलॉसफी

की उपाधि

समस्त सम्मानों विशेषाधिकारों व दायित्वों के साथ

अट्टाईस मई दो हजार दो को

प्रदान की गयी।



THE BOARD OF GOVERNORS  
OF THE

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**

UPON THE RECOMMENDATION OF THE SENATE

HEREBY CONFERS ON

**SHER AFGHAN KHAN**

THE DEGREE OF

**DOCTOR OF PHILOSOPHY**

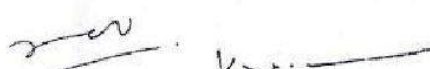
WITH ALL HONOURS PRIVILEGES AND OBLIGATIONS


THEREUNTO PERTAINING

GIVEN AT KANPUR ON THIS TWENTYEIGHTH DAY OF MAY

**ATTESTED** TWO THOUSAND TWO

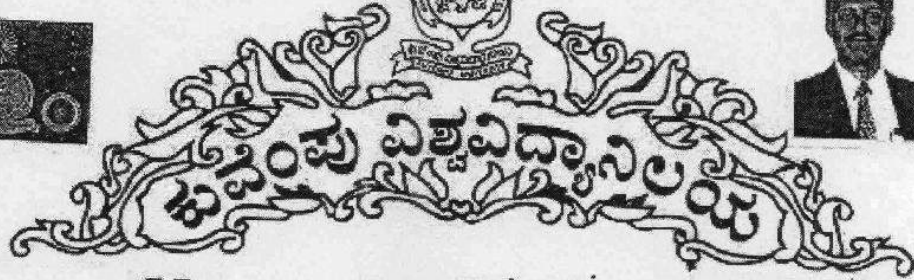
  
Principal  
Bearys Institute of Technology  
Land End, Innoli, Bolyar Village  
Near Mangalore University  
MANGALORE-574 153

  
कुलसचिव  
REGISTRAR

  
अध्यक्ष, विद्या परिषद  
CHAIRMAN  
SENATE

Digitally signed by  
Manjur Basha Sheik  
Ibrahim  
Date: 2023.07.25  
14:28:52 +05'30'





# Kuvempu University

ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಕಾರಿ, ಸಹಕುಲಾಧಿಕಾರಿ, ಕುಲಸಚಿ, ವಿದ್ಯಾವಿಷಯಕ ಪಂಚಪು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ  
ನಾವು ಶ್ರೀ / ಕ್ರಿಯಾತಿ ಪಿ ಮಹಾಬಾಲೇಶ್ವರಪ್ಪ ಇವರು

2011 ನೇ ವರ್ಷದಲ್ಲಿ ಪರೀಕ್ಷಕರಿಂದ ಪರಿಗ್ರಹಿಸಲ್ಪಟ್ಟ ಪಿಎಚ್ .ಡಿ

ಪದವಿಗಾಗಿ ಅರ್ಹರಾಗಿರುವುದನ್ನು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ ದಿನಾಂಕ 09 ನೇ ಮಾರ್ಚ್ 2011 ರಂದು ನಡೆದ

ಇನ್ನಿತರಾದ ನೇ ಘಟನೋತ್ಸವದಲ್ಲಿ ಇವರನ್ನು

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**

(ಮೆಕ್ಯಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್)  
ಪದವಿಗೆ ಅಂಗೀಕರಿಸಲಾಗಿದೆ.

We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor, the members of the Academic Council and Syndicate of kuvempu University, certify that, On the recommendation of the Board of Examiners, Sri / Smt. P MAHABALESWARAPPA has been admitted to the degree of


**DOCTOR OF PHILOSOPHY**  
(MECHANICAL ENGINEERING)

at the .....Twenty First..... Convocation held on 09<sup>th</sup> March 2011

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಿದೆ.  
*Given under the seal of the University*

ಜ್ಞಾನ ಸಹ್ಯಾದ್ರಿ - ಶಂಕರಘಟ್ಟ  
Jnana Sahyadri-Shankaraghatta  
Pin Code : 577 451  
ಕರ್ನಾಟಕ : Karnataka  
ಭಾರತ - India  
ದಿನಾಂಕ - Date 9 MAR 2011  
SL. No. 032143



  
ಕುಲಸಚಿ  
Vice-Chancellor

Manjur Basha Sheik Ibrahim  
Digitally signed by Manjur Basha Sheik Ibrahim Date: 2023.07.25 14:29:09 +05'30



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

*Mahendra Motilal Dhongadi*

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

Faculty of Mechanical Engineering Sciences

*for the thesis entitled*

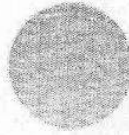
Effect of inlet distortion and obstruction in flows into a gas turbine and the model studies using a ducted fan setup for performance characteristics

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

PH 000696

Given under the seal of the University

USN: 1SI11PMM03



BELGAUM

DATE : JANUARY 21, 2017

Manjur  
Basha  
Sheik  
Ibrahim

Digitally signed  
by Manjur Basha  
Sheik Ibrahim  
Date: 2023.07.25  
14:29:23 +0530

VICE CHANCELLOR



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*

**VASANTHA KUMAR**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Mechanical Engineering Sciences*

*for the thesis entitled*

*Study Evaluation and Analysis on Stent Materials Used As  
Cardiovascular Implants*

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

PH  
19 000132

Given under the seal of the University

USN: 1MS13PMN01



BELAGAVI

DATE : Feb 08, 2020

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Date: 2023.07.25  
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الجامعة الإسلامية العالمية  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
بوتربريستي انتارابجستا ملديسيا


By the authority of the Senate  
it is hereby certified that

**Nabeel Nubila**

having fulfilled all the requirements and  
having passed all the prescribed examinations  
has been conferred the degree of

**Doctor of Philosophy  
(Engineering)**

  
Rector

  
Dean



PG380856

21 October 2022



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Manjur Basha Sheikh Ibrahim  
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Birjit Singh Pukhrambam  
Assistant Consular Officer  
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Mahathir Mohd Yasin  
Consular Officer  
Consular Division  
Ministry of Foreign Affairs  
Putrajaya, Malaysia  
10 JAN 2023

*Nor Nadiya Binti Manjur*  
NOR NADIYA BINTI MANJURI  
Assistant Director  
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