


## 2.4.2 List of full time teachers with Ph.D. along with their degree awarding university, subject and year

Sl. No.	Name of full time teacher with Ph.D.	Qualification (Ph.D.)	Year of obtaining Ph.D.	DEGREE AWARDING OF UNIVERSITY	SUBJECT	Page No.
1	Dr. Ananda S	Ph.D	2008	BANGALORE UNIVERSITY	SERICULTURE	2
2	Dr.K.L.Shivabasappa	Ph.D	2010	VTU	APPLIED SCIENCE	3
3	Dr.Rohith K C	Ph.D	2013	VINAYAKA MISSION	BIO TECHNOLOGY	4
4	Dr. Veena S More	Ph.D	2004	KARNATAKA UNIVERSITY	BIO CHEMISTRY	5
5	Dr. T K Gunashekar	Ph.D	1997	BANGALORE UNIVERSITY	CIVIL	6
6	Dr. R.L Ramesh	Ph.D	2017	BANGALORE UNIVERSITY	CIVIL	7
7	Dr.C.M.Prashanth	Ph.D	2011	NITK,SURATKAL	COMPUTER ENGG.	8
8	Dr. Yogish.H.K	Ph.D	2015	BHARATHIAR UNIVERSITY	COMPUTER SCIENCE	9
9	Dr.Ramesh Shahabaddar	Ph.D	2016	ANNA UNIVERSITY	INFORMATION & COMMUNICATION	10
10	Dr.Kamalakshinaganna	Ph.D	2018	UNIVERSITY OF MYSORE	ELECTRONICS	11
11	Dr.Anand Babu J	Ph.D	2018	VTU	COMPUTER SCIENCE	12
12	Dr.Praveen Kumar K V	Ph.D	2018	REVA UNIVERSITY	COMPUTER SCIENCE	13
13	Dr. Puttamadappa.C	Ph.D	2004	JADHAVPUR UNIVERSITY	ELECTRONICS	14
14	Dr. Ashwath Kumar M	Ph.D	1996	IIT,KHARAGPUR	ELECTRONICS	15
15	Dr.Sasmitha Mohapatra	Ph.D	2017	SIDDARTHA UNIVERSITY	ELECTRONICS	16
16	Dr.Sateesh Kumar H C	Ph.D	2017	BANGALORE UNIVERSITY	COMPUTER SCIENCE	17
17	Dr.Dinesh K Amtekar	Ph.D	1990	IISc	ELECTRONICS	18
18	Dr.Prakash Jadav	Ph.D	2019	VTU	ELECTRICAL & ELECTRONICS	19
19	Dr.Sangeeta K Siri	Ph.D	2019	VTU	ELECTRICAL & ELECTRONICS	20
20	Dr.Ravi K N	Ph.D	1995	IISc	ELECTRICAL ENGG.	21
21	Dr.G Raghavendra	Ph.D	2019	JAIN UNIVERSITY	ELECTRICAL ENGG.	22
22	Dr. H R Ranganatha	Ph.D	2017	JAIN UNIVERSITY	ELECTRONICS & COMMUNICATION	23
23	Dr.M.S.Patel	Ph.D	2018	VTU	COMPUTER SCIENCE	24
24	Dr.Asha P N	Ph.D	2019	BHARATHIAR UNIVERSITY	COMPUTER SCIENCE	25
25	Dr. S H Manjunath	Ph.D	2010	VTU	MECHANICAL	26
26	Dr. Girish K B	Ph.D	2016	BANGALORE UNIVERSITY	MECHANICAL	27
27	Dr.P.Mahadevaswamy	Ph.D	2016	VTU	MECHANICAL	28
28	Dr.Tulsidas	Ph.D	2017	BANGALORE UNIVERSITY	MECHANICAL	29
29	Dr.Ragvendra Deshpande	Ph.D	2018	VTU	MECHANICAL	30
30	Dr.Basavaraj S	Ph.D	2018	BANGALORE UNIVERSITY	MECHANICAL	31
31	Dr.M.Elangovan	Ph.D	2012	AMRUTHA UNIVERSITY	MECHANICAL	32
32	Dr.M.H.Annaiah	Ph.D	2014	JNTU	MECHANICAL	33
33	Dr.Jagadeesh Gowda V	Ph.D	2015	BANGALORE UNIVERSITY	PHYSICS	34
34	Dr.Keshava murthy	Ph.D	2018	BANGALORE UNIVERSITY	PHYSICS	35
35	Dr.B S Krishna	Ph.D	2003	BANGALORE UNIVERSITY	CHEMISTRY	36
36	Dr.Chaitanya Lakshmi G	Ph.D	2012	UNIVERSITY OF MYSORE	CHEMISTRY	37
37	Dr.Roop K P	Ph.D	2018	BHARATHIAR UNIVERSITY	CHEMISTRY	38
38	Dr. Gurushantha K	Ph.D	2017	VTU	CHEMISTRY	39
39	Dr.Jayaprakash	Ph.D	2012	VTU	MATHEMATICS	40
40	Dr.Shripad Markandeya	Ph.D	2012	BANGALORE UNIVERSITY	MATHEMATICS	41
41	Dr.Pushpa BV	Ph.D	2018	VTU	MATHEMATICS	42
42	Dr. Kiran S	Ph.D	2018	VTU	MATHEMATICS	43



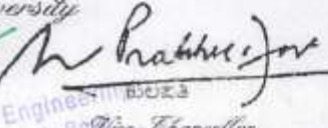


A45-P2-107

## ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ Bangalore University

  
FOR QUALITY & EXCELLENCE  
IN HIGHER EDUCATION  
★ ★ ★ ★ ★  
Accredited by NAAC

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor*  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದಾವು  
*the members of the Syndicate & Academic Council*

Certify that  
*Ananda S*  
.....ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
*has been duly admitted to the Degree of*  
**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**  
**Doctor of Philosophy**  
**(Faculty Of Science - Sericulture)**  
ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವುದನ್ನು ಪರಿಗಣಿಸಿರುವುದರಿಂದ  
*in recognition of the fulfilment of requirements*  
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
*for the said degree as indicated below*  
ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: .....2009.....  
*Year of Award:*  
ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ : "PTPN11/SH2 (Protein-Tyrosine  
*Subject:*  
Phosphatase, Nonreceptor Type11) Mutation Analysis in  
Childhood Acute Lymphoblastic Leukemia"  
ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
*Given under the seal of the University*  
ಬೆಂಗಳೂರು  
*Bangalore:*  
ದಿನಾಂಕ  
*Date:* 30.04.2010  
  
  
  
Principal  
Vice-Chancellor

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*  
**Shivabasappa K. L.**  
*has been conferred the Degree of*  
**Doctor of Philosophy**  
*in*

**Faculty of Applied Sciences**

*for the thesis entitled*

**Studies on Thermo – Physical Properties of Binary Systems**

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

PH 000186  
07  
USN : 1SI03PGN01

Given under the seal of the University

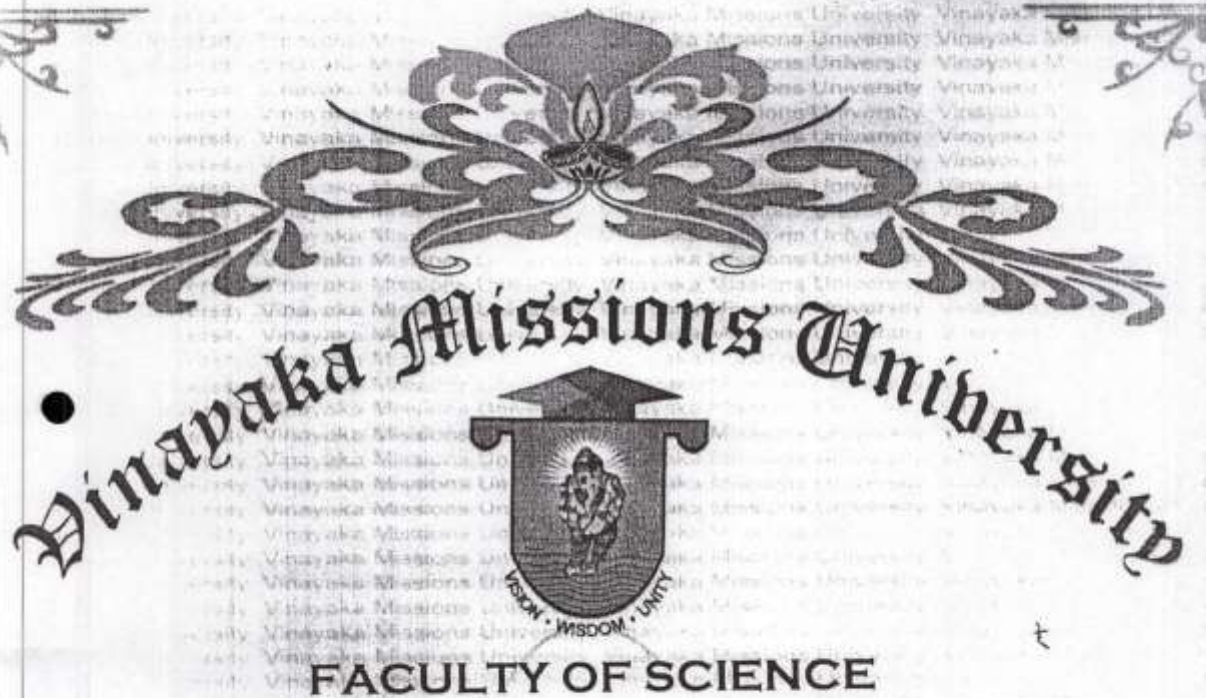


BELGAUM  
DATE : JAN 07, 2010

*H.P. Khinchu*

VICE CHANCELLOR





The Board of Management of the Vinayaka Missions University  
hereby makes known that

**Rohit K.C.**

has been admitted to the Degree of

**Doctor of Philosophy in Biotechnology**

having been certified by the duly appointed Examiners

to have qualified to receive the same in the year

**2013**

for the thesis entitled

**Fungal Microflora in Industrial Effluents and Its Impact on  
Some Crop Plants.**



*[Signature]*  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore-560 057

# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797

CON. L. No. 109



ನಾವು, ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ ಹಾಗೂ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸದಸ್ಯರು  
We, the Chancellor, Pro-Chancellor, Vice-Chancellor, Members of the  
Syndicate and Academic Council of the Karnatak University certify that  
ಮೇಗಡಿ ವೀಣಾ ಬಸವರಾಜ

ಇವರು ಸಂಬಂಧಿಸಿದ ಪದವಿ ನವೆಂಬರ್ 2004 ರಲ್ಲಿ  
ಅರ್ಹರಾದ ನಿಮಿತ್ತ ಇವರಿಗೆ  
MEGADI VEENA BASAVARAJ

for having qualified for the Degree in November 2004  
the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ  
ಜೀವ ರಸಾಯನಶಾಸ್ತ್ರ  
Doctor of Philosophy  
BIO-CHEMISTRY

ಪದವಿ ಪ್ರದಾನವನ್ನು ಧಾರವಾಡ ದಲ್ಲಿ ಎರಡು ಸಾವಿರದಾ ಐದನೆಯ ಜನವರಿ  
ಹತ್ತೊಂಬತ್ತ ರಂದು ಅಧಿಕೃತಗೊಳಿಸಿದ್ದೇವೆ.

has been conferred on him/her at Dharwad, on the nineteenth day  
of the month of January in the year Two thousand five.

ಈ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆ, ಮತ್ತು ಕುಲಪತಿಯವರ ರುಜುಗಳಿಂದ ಇದನ್ನು  
whereof are set the Seal of the said University and the Signature of the  
said Vice-Chancellor.

S No. of Certificate 109

Principal

ಕುಲಪತಿ Vice-Chancellor

Chikkasandra, Hesaraghatta  
Bengaluru- 560 057



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ  
**Bangalore University**  
certifies that

*Gunashekar T K*

ಅವರು

ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
*has been duly admitted to the Degree of*

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

(Faculty Of Engineering - Civil Engineering)

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಪರಿಗಣಿಸಲಾಗಿರುವ ಕಾರಣ

*in recognition of the fulfilment of requirements*  
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಆ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ :  
*for the said degree as follows :*

1997

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ.....  
*Year of Acceptance :*

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ .....  
*Title of the Thesis*

*"Skid Resistance Characteristics  
of Pavements"*

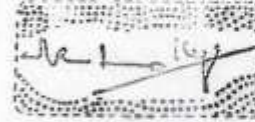


ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
*Given under the seal of the University*



ಬೆಂಗಳೂರು  
*Bangalore*

ದಿನಾಂಕ  
*Dated* 22.02.1999



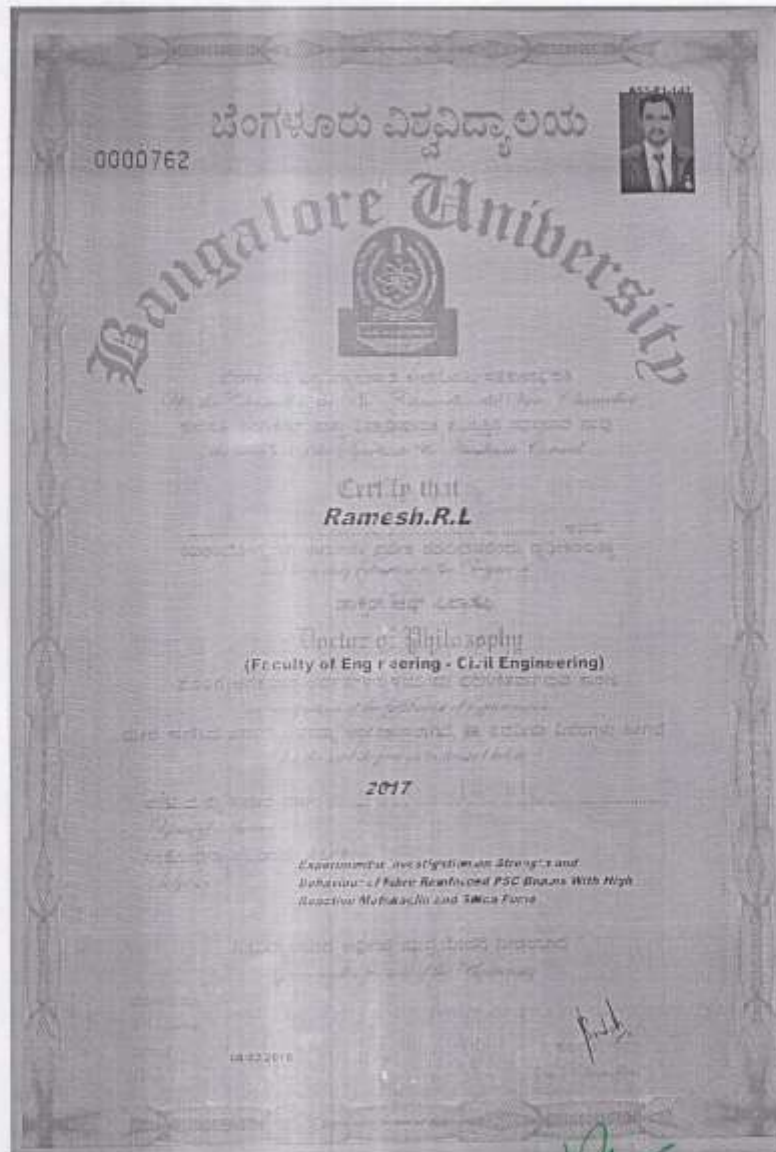
ಕುಲಪತಿ

*Vice-Chancellor*

Principal

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Main Road  
Bangalore - 560 057

5. Dr. R.L Ramesh



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru- 560 057

Registration No.



060411C006F01



**National Institute of Technology Karnataka, Surathkal**

*hereby confers the degree of*



**Doctor of Philosophy**

*on*

*Prashanth C M*

*in recognition of the research work on*

*"A Framework For Detecting Safety Violations In U M L Statechart Models"*

*carried out in the Department of*

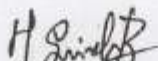
**Computer Engineering**

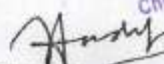
*and completed all the requirements*

*in February 2011*

*Given under the seal of the Institute,*

*on 25<sup>th</sup> September 2011*

  
Registrar

  
Director

  
Chairman, Board of Governors

Sl. No. PH10010

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore- 560 057



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Phone: 080-28 372800/1/2 Fax: 080-28 372797



பாரதியார் பல்கலைக் கழகம்  
Bharathiar University

அறிவியல் புலம்  
FACULTY OF SCIENCE



பாரதியார் பல்கலைக் கழகத்தால் முறையாக அமைக்கப்பட்ட தேர்வாளர் குழு  
யோகிஷா எச் கே, 2015ஆம் ஆண்டு, துணிவு ரீதியாக தயார் கணிப்பான் அறிவியல்  
பல்கலைப் பீர்ப்பு ஆய்வியல் அறிஞர் மல்லிகா மட்டம் பெறத் தகுதியடைந்திருப்பதாகச் சான்றிதழை  
ஏற்று அமைக்கத் தகுந்த மட்டத்தைப் பல்கலைக் கழக இலாசிகளையுடைய  
பாரதியார் பல்கலைக் கழக ஆட்சிக் குழு வழங்குகிறது.

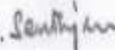
The Syndicate of the Bharathiar University hereby makes known that YOGISHA H K  
has been admitted to the Degree of DOCTOR OF PHILOSOPHY in COMPUTER SCIENCE,  
having been certified by duly appointed Examiners to be qualified to receive the same on 6th JULY 2015.



கொய்யாத்தூர்  
Coimbatore  
அமைப்பு  
தலை

Given under the Seal of the University.

  
கொய்யாத்தூர் (பெரு)

  
K. G. Senthil Kumar  
பதியாளர்

  
துணைவேந்தர்

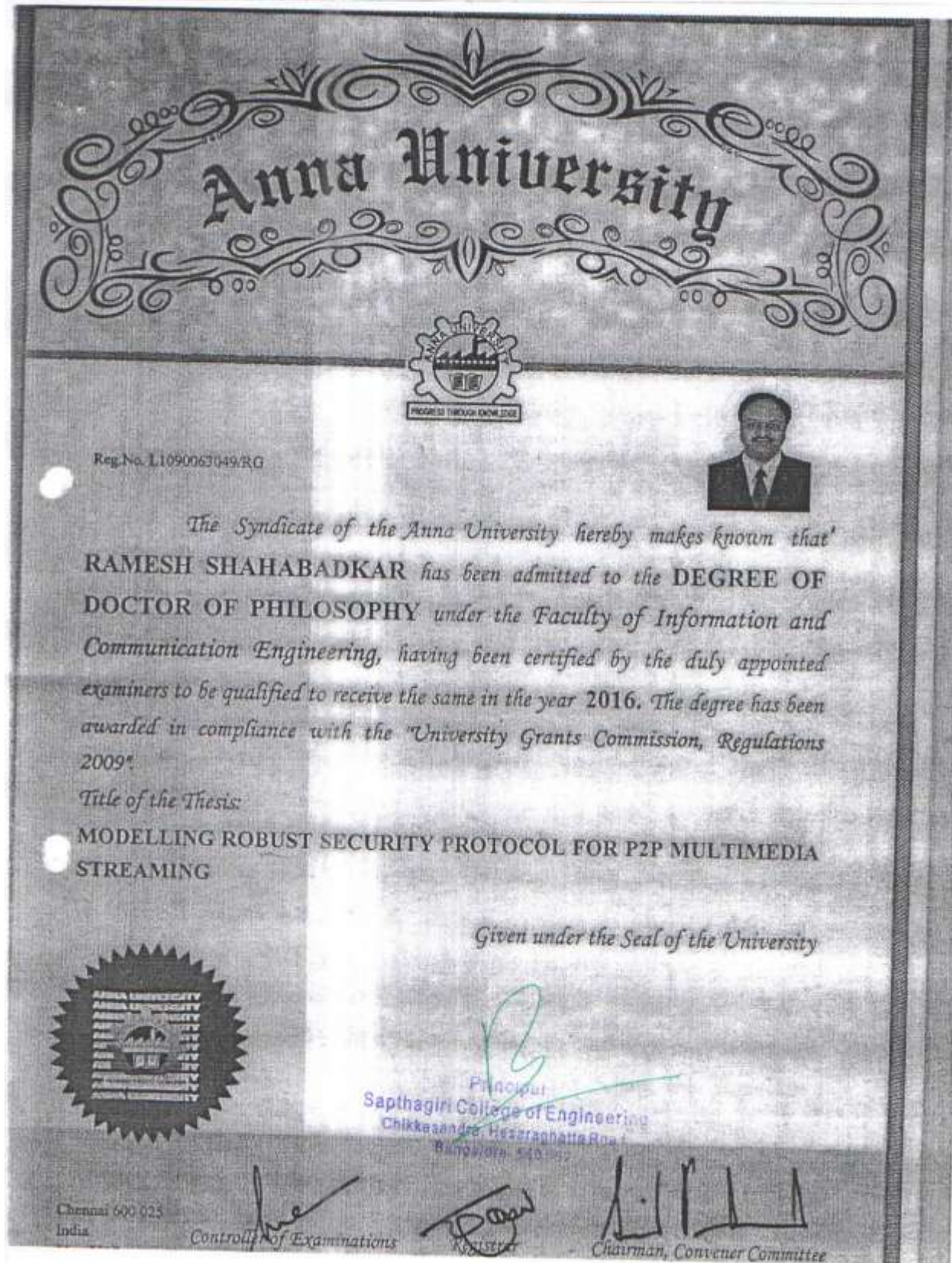
Dated: 12th September 2015 Controller of Examinations i/c

Registrar

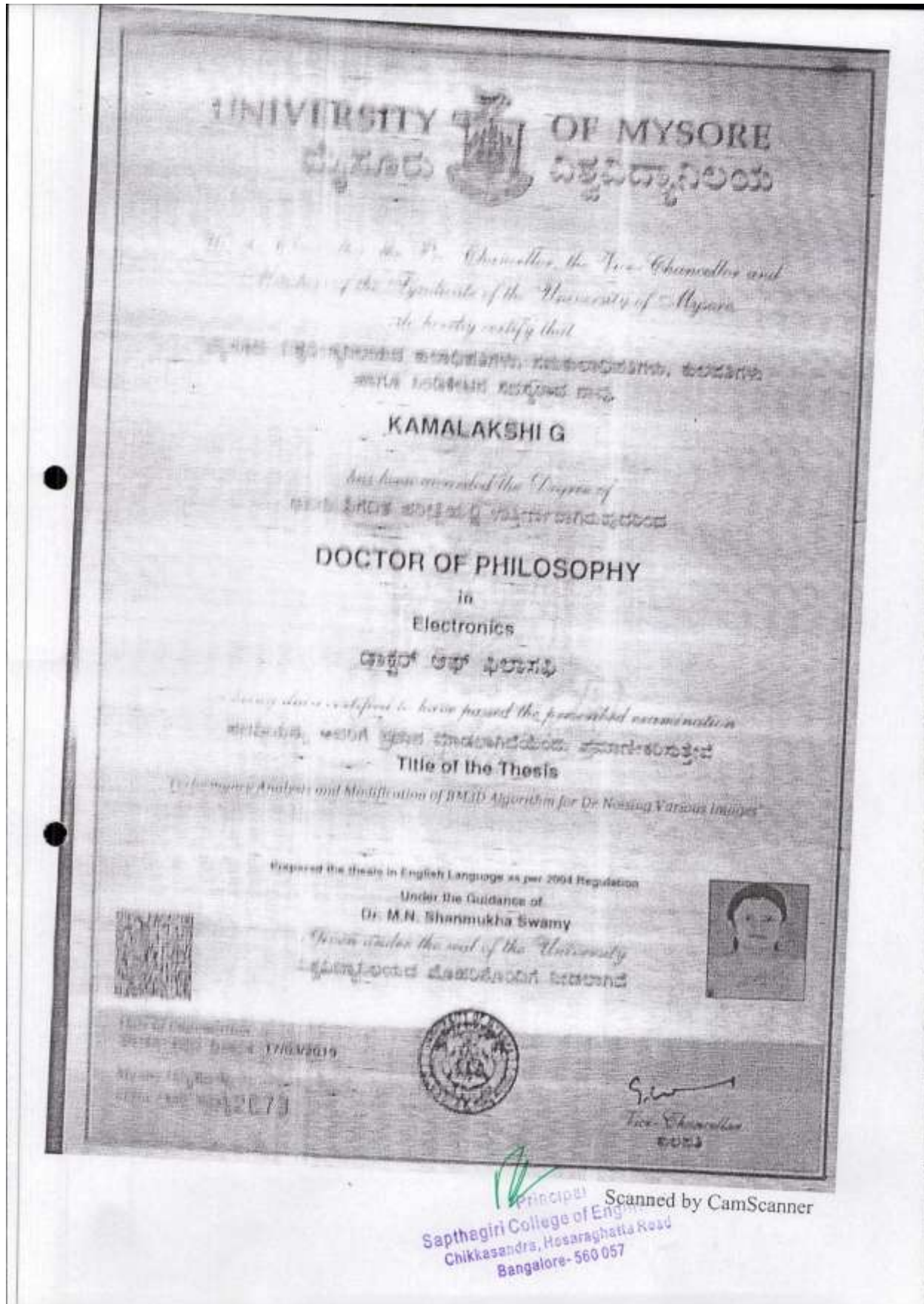
Vice-Chancellor

B 011272

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Main Road  
Bengaluru- 560 057







# SAPTHAGIRI COLLEGE OF ENGINEERING

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Phone: 080-28 372800/1/2 Fax: 080-28 372797

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

PH 18 000088

**Provisional Degree Certificate**

This is to certify that Mr./Ms. Ananda Babu J

is qualified for the award of the degree of  
Doctor of Philosophy Faculty of Computer and Information Sciences (w.e.f. 11.07.2018)


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

"Effective Power Optimization Techniques in Wireless Sensor  
Networks"

with University Seat No. 1DA12PEN03

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

Belagavi  
Date : 18.07.2018

  
Registrar (Evaluation)

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru-560057



3

# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

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Phone: 080-28 372800/1/2 Fax: 080-28 372797

20040072



*Certifies that*

**Sri Puttannadappa C.**

was admitted to the Degree of Doctor of Philosophy in Engineering of the University on 07/04/2004 and that the degree was conferred on him / her at the Convocation held on December 2004 with all the Rights and Privileges thereto appertaining.

In Witness whereof the Signatures of the Chancellor and the Vice Chancellor of Jadavpur University are herewith affixed.

  
Vice-Chancellor  
The 24th December, 2004

  
Chancellor

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru- 560 057



## Indian Institute of Technology Kharagpur

*Upon the recommendation of the Senate  
hereby confers the degree of*

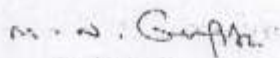
### Doctor of Philosophy

*on*

**Aswathia Kumar M**

*who has successfully completed the prescribed requirement in  
the Dept. of Electronics & Electrical Communication Engineering*

*Given under the seal of the Institute at Kharagpur in the  
Republic of India on the Twentyfirst day of June, One thousand  
nine hundred and ninetyseven.*

  
Registrar

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta  
Bengaluru-560 057 Director

## Sri Siddhartha Academy Of Higher Education

6814



**Sri Siddhartha University**

(DEEMED TO BE UNIVERSITY)

Declared as 3 of the UGC Act, 1956, MHRD GOI No. F.9-31/2006-L3 (A) dated: 30/05/2008

KARNATAKA

Accredited 'A' Grade by NAAC

*We, the Chancellor, the Vice - Chancellor and the members  
of the Board of Management and Academic council confer*

**DOCTOR OF PHILOSOPHY  
(ELECTRONICS AND COMMUNICATION ENGINEERING)**

*On*

**SASMITA MOHAPATRA**

*In recognition of fulfillment of the requirements for the said  
Doctoral Degree in the examination held during August 2017*

*Given under the seal of the University, in the*

*6<sup>th</sup> Convocation held on 16<sup>th</sup> September 2017*

Title of Thesis : "Study of the Packet Transfer Between Peer to Peer in Energy  
Efficient Mobile AD HOC Networks"



Vice-Chancellor



Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta road  
Bengaluru- 560 057



# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797

0000780

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

A53-P1-149

**Bangalore University**

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor*  
 ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
*the members of the Syndicate & Academic Council*

**Certify that**

**Sateesh Kumar.H.C** ಅವರು  
 ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
*has been duly admitted to the Degree of*

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**  
**Doctor of Philosophy**  
**(Faculty of Engineering - Computer Science & Engineering)**  
 ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಪಂಗಡಿತವಾಗಿರುವ ಕಾರಣ  
*in recognition of the fulfillment of requirements*  
 ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
*for the said degree as indicated below*

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2017**  
*Year of Award:*

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:  
*Subject:* **Efficient Bimodal Authentication Algorithms using Iris and Face Biometric Traits**

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
*Given under the seal of the University*

ಬೆಂಗಳೂರು  
 08/02/2018  
 ವಿವರಣೆ  
 ಕುಲಪತಿ

Principal  
 College of Engineering  
 Chikkasandra, Hesaraghatta Road  
 Bangalore-560 057

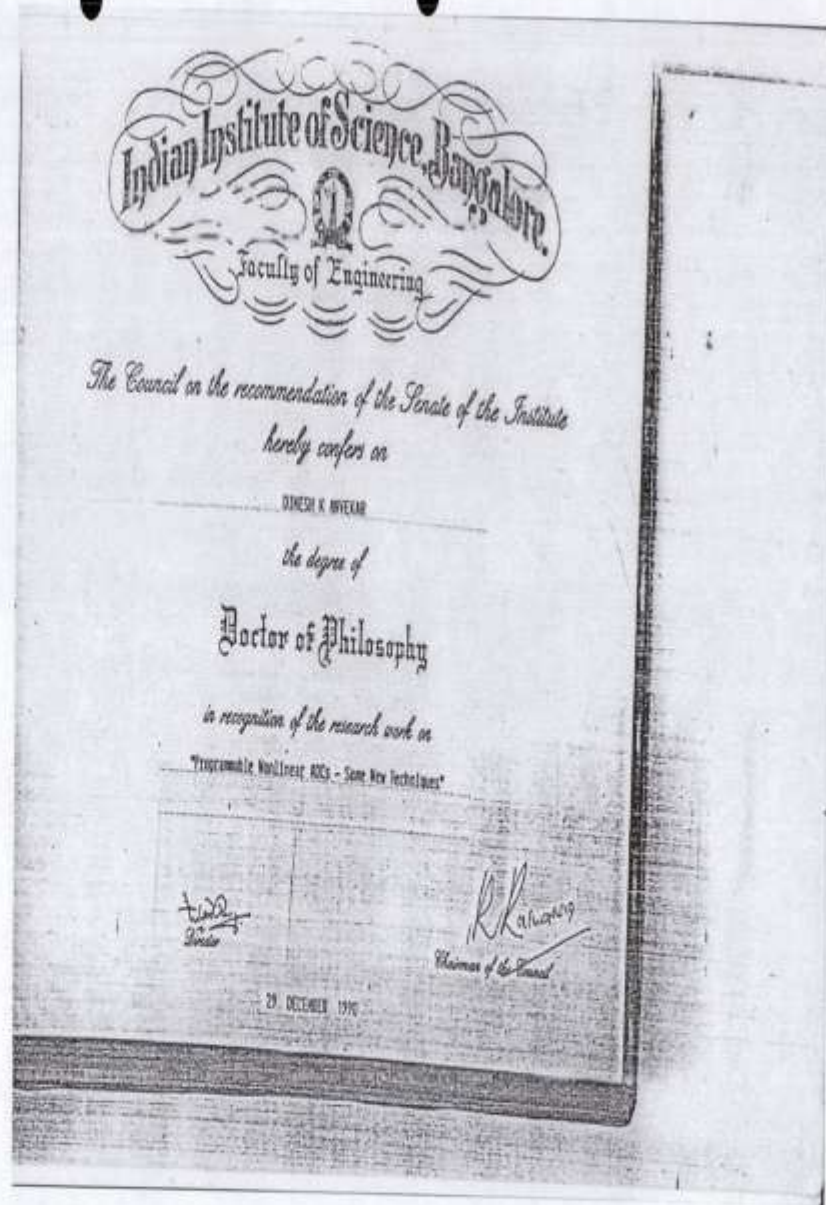
# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

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Phone: 080-28 372800/1/2 Fax: 080-28 372797



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru- 560 057



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Phone: 080-28 372800/1/2 Fax: 080-28 372797

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*  
**PRAKASH JADHAV**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Electrical & Electronics Engineering Sciences*

*for the thesis entitled*

*Bandwidth Reduction Of Virtual Multimedia Payload Using  
Self-Modifying Wavelets And Implementation Of Tree-Based  
Streaming Protocol Over Multimedia Networks*

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

PH  
13 001966

Given under the seal of the University

USN: 1JS11PEN01



BELGAUM  
DATE

March 18, 2019

*Principal*  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Main Road  
Bengaluru-560 057

VICE CHANCELLOR

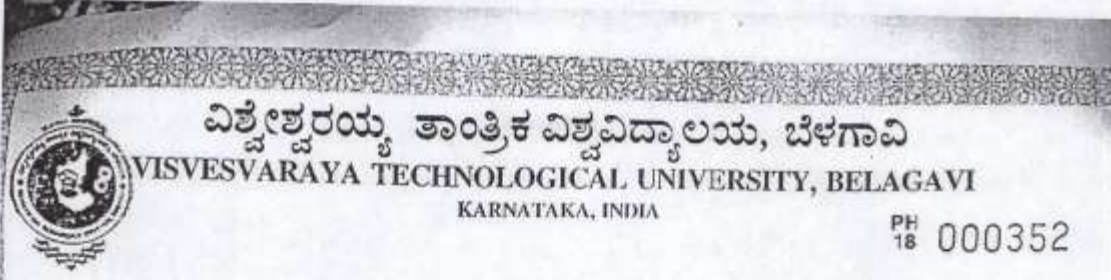
# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797



## Provisional Degree Certificate

*This is to certify that Mr./Ms. SANGEETA K SIRI*

*is qualified for the award of the degree of  
Doctor of Philosophy Faculty of Electrical & Electronics Engineering Sciences w.e.f. 30.05.2019  
of this University for having fulfilled the requirements for the award  
of the said Degree by submitting the thesis titled :*

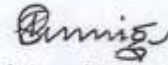
STUDY AND ANALYSIS OF SEGMENTATION ALGORITHMS FOR LIVER IMAGES

*with University Seat No. 5VX13PEN110*

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

Belagavi

Date : 13.06.2019



Registrar (Evaluation)

*Principal*  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore-560 057





*The Council on the recommendation of the Senate of the Institute  
hereby confers on*

K H DAVI

*the degree of*

**Doctor of Philosophy**

*in recognition of the research work on*

*' Pollution Ageing Studies of Insulators Under DC Voltages '*

ATTESTED  
Dr. J. S. Srinivas Kumar  
Vice-Chancellor

*S. Srinivasan*  
Director

*Raja Ramana*  
Chairman of the Council

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore-560 057



No. JU/13PPEE0001/2C18-19/024

Date : 12<sup>th</sup> January 2019

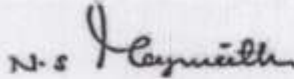
## NOTIFICATION

**Subject : Award of Ph.D. Degree to G. Raghavendra**

**Reference: Meeting held on 22.12.2018**

G. Raghavendra., Department of Electrical Engineering, is provisionally awarded the degree of Doctor of Philosophy (Ph.D.) in Electrical Engineering, Faculty of Engineering and Technology, for his thesis titled "**Cost Function Optimization for Maintaining the quality of service in a distributed power system.**" – under the guidance Dr. Manjunath. Ramachandra.

By Order,



Controller of Examinations

To

The above candidate.

Copy to :

- Office of the Vice Chancellor - JU
- Pro. Vice Chancellor – Research, JU
- Registrar, JU
- Guide : Manjunath. Ramachandra
- Dr. J.S. Kadadevarmath, Professor and Coordinator – Department of Electronics, Karnataka University, Dharwad.
- Dr. Ch. Himabindu, Professor and Dean – R and D – Department of ECE, QIS College of Engineering and Technology, Ongole, AP.
- Dean, Engineering and Technology.
- Joint Registrar, JU
- Guard file.



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore- 560 057



JUC 70015





## JAIN UNIVERSITY

Declared as Deemed-to-be University up to 3 of the UGC Act, 1956  
with MHRD Notification No. F-9-57(2007-USIA)

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

**H R Ranganatha**

*having been examined in September-2017  
with Reg. No. 13PPECE006  
has been conferred with the Degree of*

**DOCTOR OF PHILOSOPHY**

*in Electronics and Communication 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*





**N. Sundar**  
Vice Chancellor

Date : 06.01.2018

## जैन विश्वविद्यालय

विश्वविद्यालय अद्वैत जैन विश्वविद्यालय, 1956 के अनुच्छेद 3 के अन्तर्गत मान्यता प्राप्त विश्वविद्यालय की  
जीएनयू संख्या एच. 9-57(2007-यू.सी.ए.) के द्वारा सम्बन्धित विद्यालय के रूप में घोषित

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

एच. आर. रंगनाथ

जिनकी पंजीयन संख्या 13PPECE006 है,  
सितंबर - २०१७ के परीक्षापरान्त

पीएच. डी.  
विद्युत्प्रमाण एवं रासायनिक अभियांत्रिकी

की उपाधि में उत्तीर्ण हुए।  
जैन विश्वविद्यालय, बंगलूरु 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।





**कुलपति**

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

**M S Patel**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

Faculty of Computer and Information Sciences

*for the thesis entitled*

**InHaWoR: Intelligent Handwritten Word Recognition**

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

PH<sub>13</sub> 001081

Given under the seal of the University

USN: 5VX12PEN6E



*[Signature]*  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru - 560 057


BELGAUM

DATE : January 09, 2018

*[Signature]*  
VICE CHANCELLOR



Folio : D 05889




## BHARATHIAR UNIVERSITY

COIMBATORE - 641 046

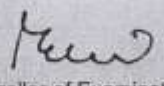
### Ph.D. PROVISIONAL CERTIFICATE

This is to certify that **ASHA P N** has qualified for  
the award of the Degree of **DOCTOR OF PHILOSOPHY** of this University in  
**COMPUTER SCIENCE** on **18/02/2019** after having  
completed the requirements prescribed for the award of the Degree.\*

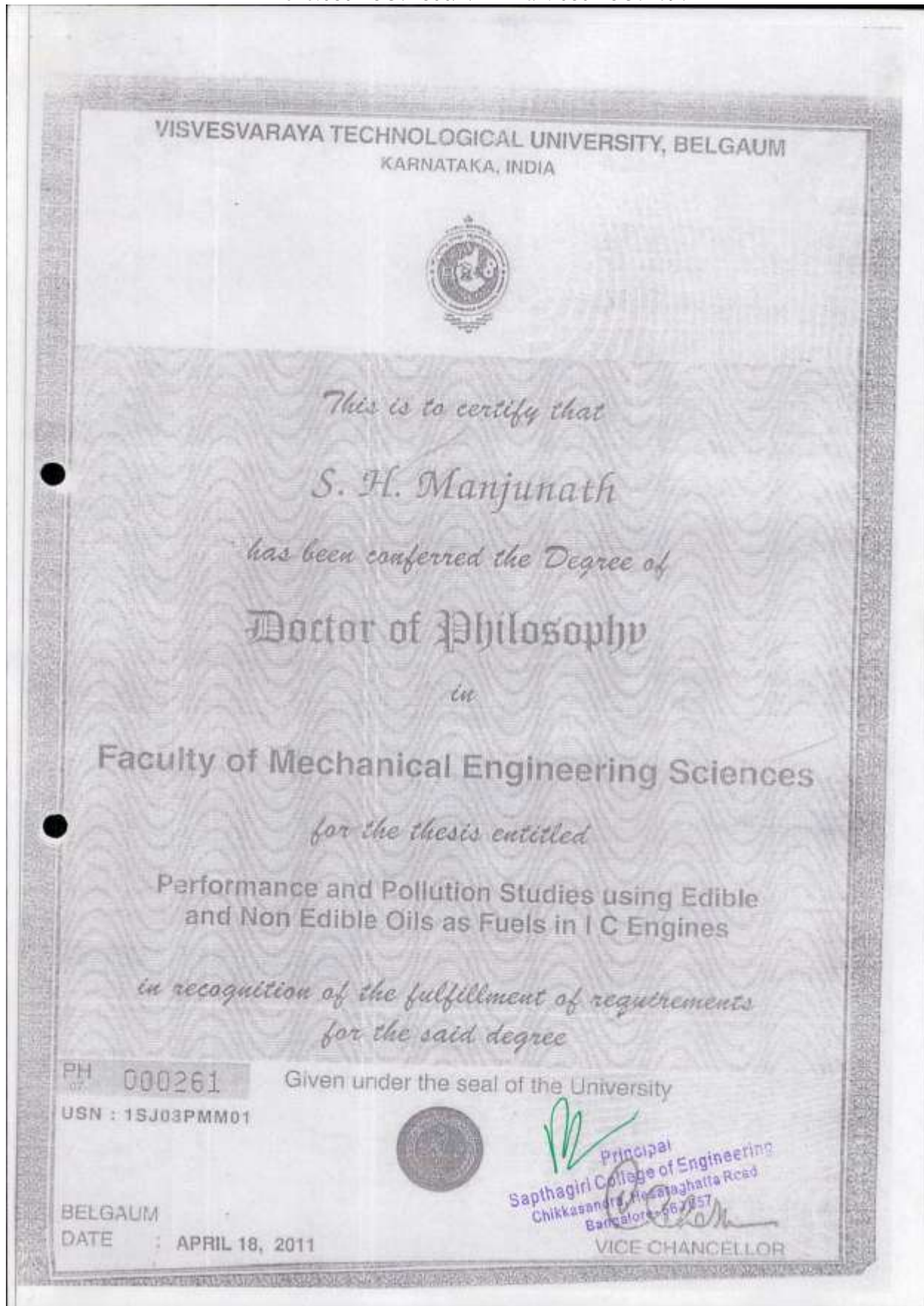
\* under external part time mode



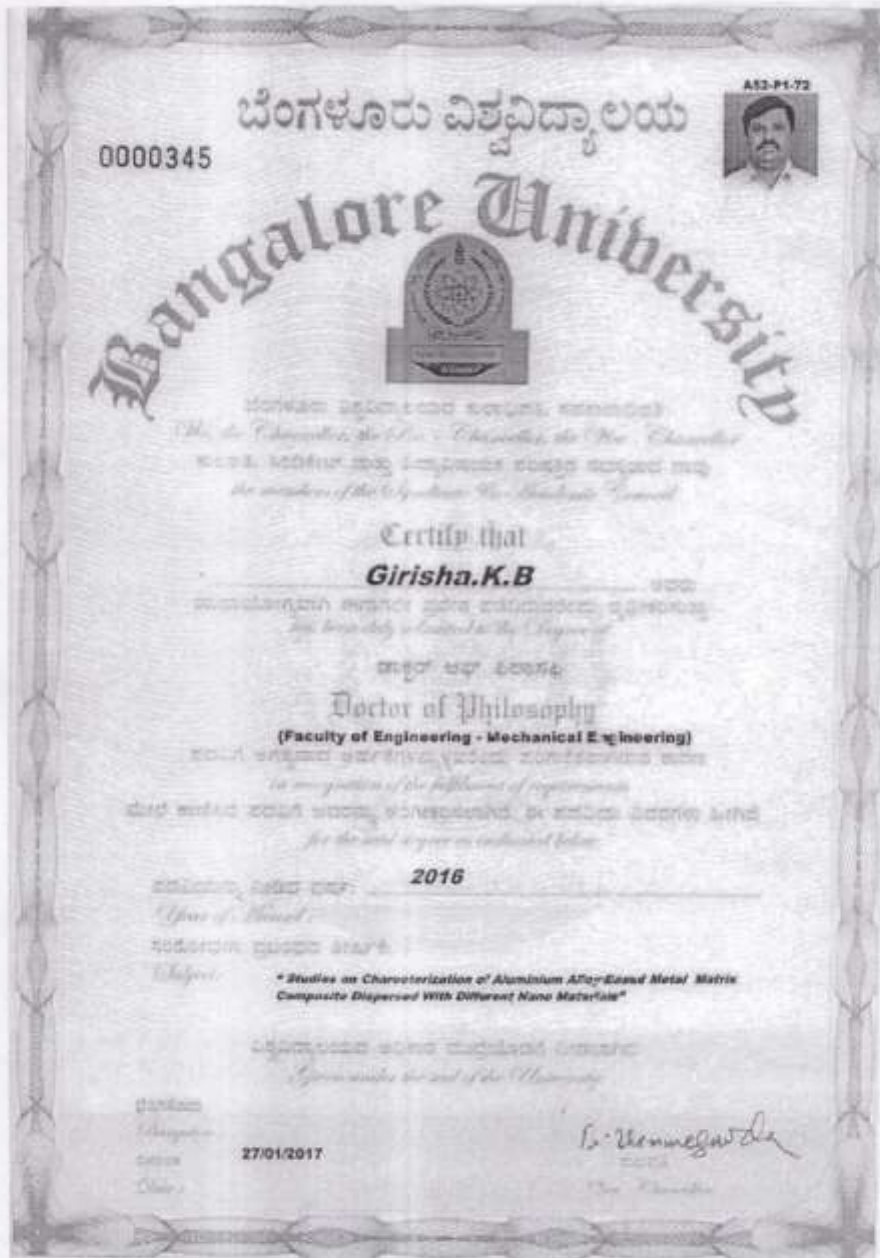
Coimbatore - 641 046  
Date: 21 MAR 2019

  
Controller of Examinations

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bengaluru- 560 057







VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

*Mahadevaswamy P*

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

Faculty of Mechanical Engineering Sciences

*for the thesis entitled*

Optimization of Vibratory flap for Vibration Control of  
Isotropic Plates

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

PH  
13 000621

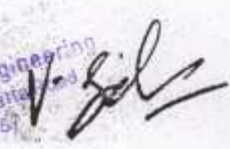
USN: 1BM06PMN01

BELGAUM

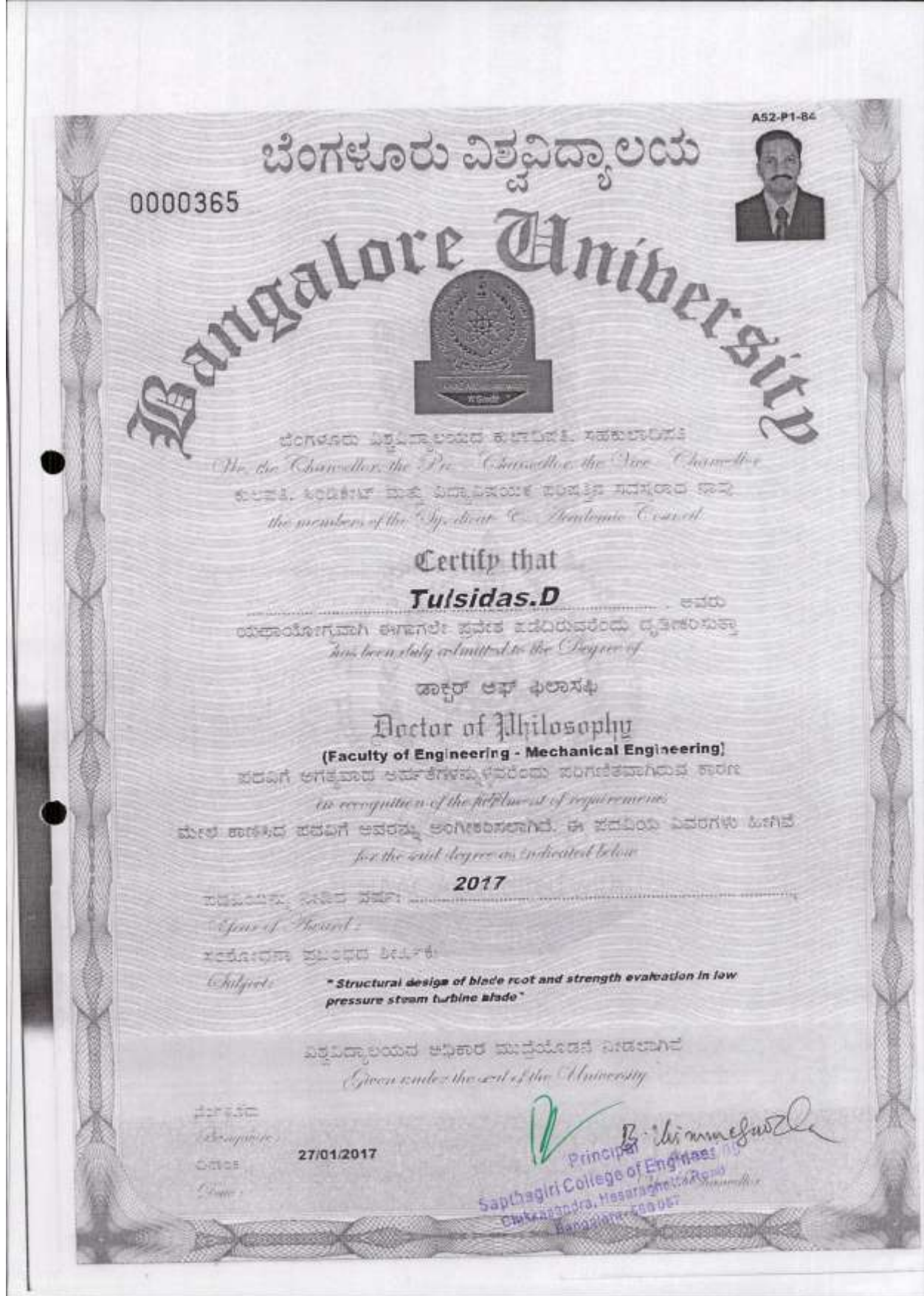
Given under the seal of the University



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta  
Bangalore- 560 057







VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

**RAGHAVENDRA G DESHPANDE**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

*Faculty of Mechanical Engineering Sciences*

*for the thesis entitled*

*Studies On Role of Cryogenic Treatment On Tungsten Carbide  
Cutting Tool Inserts In Improving Resistance To Flank Wear  
In Machining C-45 Steel*

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

PH  
13 001500

Given under the seal of the University

USN: 4MC06PMN04



Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru- 560 057

BELGAUM

DATE : March 18, 2019

VICE CHANCELLOR



# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)


#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

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Phone: 080-28 372800/1/2 Fax: 080-28 372797

0001166 ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ A54-P1-111

**Bangalore University**



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council

**Certify that**

**Basavaraju.S** ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
has been duly admitted to the Degree of

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**  
**Doctor of Philosophy**  
(Faculty of Engineering - Mechanical Engineering)


ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಕಾರಣ  
in recognition of the fulfillment of requirements  
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
for the said degree as indicated below


ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2018**  
Year of Award:

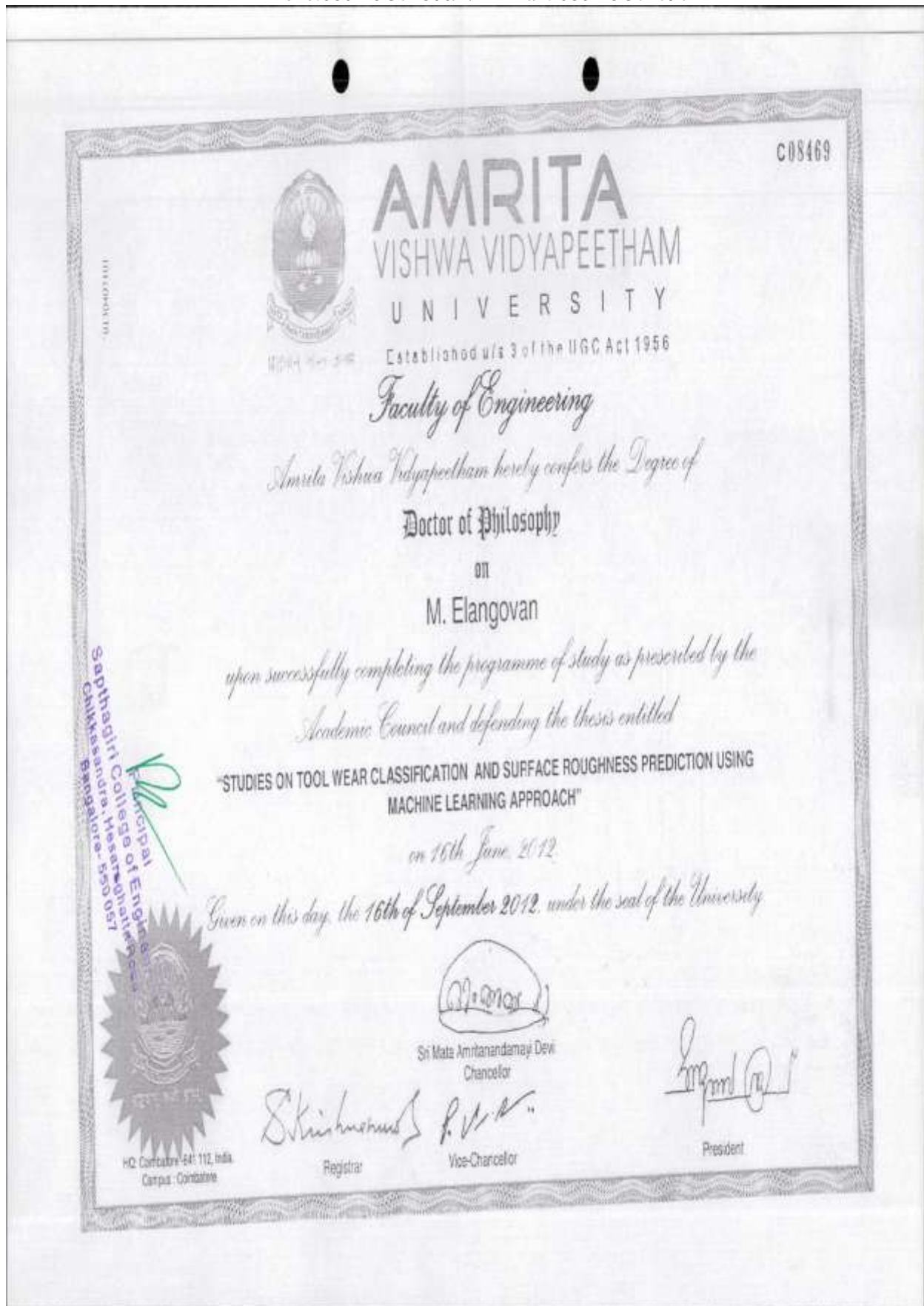
ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ :  
Title of the Thesis: **Studies on Mechanical and Magnetic Properties of Nickel Nano Particles in Polymer Matrix Composites**

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
Given under the seal of the University

ಬೆಂಗಳೂರು  
Bengaluru:  
ದಿನಾಂಕ  
Date: **22 APR 2019**

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru-560057

  
Chancellor





## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 500033



H.T No.: 0803PH1590

*Mr. Annaiah*  
*S/o. Hanumaiah*

having fulfilled the academic requirements in *January, 2014*  
has this day been admitted by the Executive Council to the Degree of

*Doctor of Philosophy*  
*Mechanical Engineering*

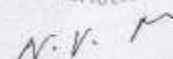
Topic : Effect of Heat Treatment Variables on the Mechanical Properties, Wear and Corrosion Characteristics of Aluminium -Silicon-Magnesium Alloy'

Given under the Seal of the University

Date: 04-09-2014



  
DIRECTOR OF EVALUATION

  
REGISTRAR

  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru-560 057  
VICE CHANCELLOR



PC No  
27584578914

0000623

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

**Bangalore University**

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council.

**Certify that**

**Jagadeesha Gowda G.V** ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
has been duly admitted to the Degree of

**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**  
**Doctor of Philosophy**  
(Faculty of Science - Physics)  
ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ  
in recognition of the fulfillment of requirements  
ಮೇಲೆ ಕಾನೂನುಬಾಹಿರ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
for the said degree as indicated below

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2015**  
Year of Award:

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:  
Subject: **"Preparation, Properties and Structural Studies of Silver Borate Glasses Doped with Rare Earth Oxide"**

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
Given under the seal of the University

ಬೆಂಗಳೂರು  
Bengaluru - 30/05/2015  
ದಿನಾಂಕ  
Date

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru- 560 057  
Vice-Chancellor



0001104 ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ A54-P1-64

**Bangalore University**

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council  
**Certify that**

**Keshavamurthy.K** ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
has been duly admitted to the Degree of  
**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**  
**Doctor of Philosophy**  
(Faculty of Science - Physics)  
ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಕಾರಣ  
in recognition of the fulfilment of requirement.  
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
for the said degree as indicated below  
ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2018**  
Year of Award :  
ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ :  
Title of the Thesis : **Synthesis, Characterization and Structural Properties of  
Rare-Earth Doped Bismuth Tellurite Glasses**  
ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
Given under the seal of the University  
ಬೆಂಗಳೂರು  
Bengaluru :  
ದಿನಾಂಕ  
Date : **22 APR 2019**  
Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru-560 057  
Vice-Chancellor

Scanned by CamScanner

Dr. B.S. Krishna  
Professor & HOD  
Department of Chemistry  
Sapthagiri College of Engineering  
Bengaluru - 560 057

A39-P3-131

## ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ Bangalore University



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
the members of the Syndicate & Academic Council

Certify that

*B. S. Krishna*

ಅವರು  
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ  
has been duly admitted to the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

(Faculty Of Science - Chemistry)

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿ ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ  
in recognition of the fulfilment of requirements  
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
for the said degree as indicated below

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: 2003

Year of Award:

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ : "Chemically Modified Clays  
Subject: as Inorganic Absorbents for Removing Toxic  
Materials from Aqueous Environment"

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ

Given under the seal of the University

ಸಹಕುಲಾಧಿಪತಿ  
Pro-Chancellor

ದಿನಾಂಕ

Date: 31.01.2004

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru - 560 057



## UNIVERSITY OF MYSORE

ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and  
Members of the Syndicate of the University of Mysore  
do hereby certify that*

ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಮಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು  
ಹಾಗೂ ಸಿಂಡಿಕೇಟಿನ ಸದಸ್ಯರಾದ ನಾವು

**CHAITANYALAKSHMI G**

*has been awarded the Degree of*

ಅವರು ನಿಗದಿತ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಉತ್ತೀರ್ಣರಾಗಿರುವುದರಿಂದ

**DOCTOR OF PHILOSOPHY**

in

**CHEMISTRY**

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ



*on being duly certified to have passed the prescribed examination*

ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನ ಮಾಡಲಾಗಿದೆಯೆಂದು ಪ್ರಮಾಣೀಕರಿಸುತ್ತೇವೆ

*Given under the seal of the University*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ

Date of Concoction 07/04/2012

ಭವಿಷ್ಯೋತ್ತರವಾದ ದಿನಾಂಕ

Mysore/ಮೈಸೂರು

SLNo/ಕ್ರಮ ಸಂಖ್ಯೆ No 480



*Principal*  
Vice-Chancellor  
ಕುಲಪತಿ

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore- 560 057

Principal  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru-560 057



பாரதியார் பல்கலைக் கழகம்  
*Bharathiar University*

அறிவியல் புலம்  
FACULTY OF SCIENCE

பாரதியார் பல்கலைக் கழகத்தால்	முதுமணி	அமரகங்குடி, சேலம்	1994
மார்ச் 16, 2018	ஆம்	மே 17	தமிழ் வேதியியல்
ஆய்விப்பல் அறிஞர்	சென்னை	ம.க.ம. சென்னை	சென்னை
சென்னை	ம.க.ம. சென்னை	ம.க.ம. சென்னை	ம.க.ம. சென்னை

பாரதியார் பல்கலைக் கழக ஆய்விப்பல் அறிஞர்

The Signature of the Bharathiar University hereby states that **ROOPA K P** has been admitted to the Degree of **DOCTOR OF PHILOSOPHY** in **CHEMISTRY**, having been certified by duly appointed Examiners to be qualified to receive the same on **17th MAY 2018**.



Under external part time mode  
Given under the Seal of the University.

  
 Controller of Examinations  
 Dated 16th February 2019

  
 Registrar  
 ISSUED ON 26 APR 2019

  
 Vice-Chancellor







KARNATAKA, INDIA

PH  
09 001056

## Provisional Degree Certificate

*This is to certify that Mr./Ms. Jayaprakash M. C.*

*is qualified for the award of the degree of  
Doctor of Philosophy (Faculty of Applied Sciences) w.e.f. 21-09-2012  
of this University for having fulfilled the requirements for the award  
of the said Degree by submitting the thesis titled :*

*Viscous Flow of Newtonian and Non-Newtonian Fluids in Doubly Connected Region*

*with University Seat No. 1EP06PGM01*


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

Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta  
Bengaluru- 560 057  
Principal



A33-P3-138

**ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ**  
**Bangalore University**

  
FOR QUALITY ASSURANCE  
IN HIGHER EDUCATION  
★★★★★  
Accredited by NAAC

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ  
*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor*  
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು  
*the members of the Syndicate & Academic Council*

Certify that  
***Shripad Markande*** ಅವರು  
ಯಥಾವೇಗವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವುದು ವೃತ್ತೀಕರಿಸುತ್ತಾ  
*has been duly admitted to the Degree of*  
**ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ**  
**Doctor of Philosophy**  
**(Faculty Of Science - Mathematics)**

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವುದು ಪರಿಗಣಿಸಲಾಗಿರುವ ಕಾರಣ  
*in recognition of the fulfilment of requirements*  
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅನುಗ್ರಹಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ  
*for the said degree as indicated below*

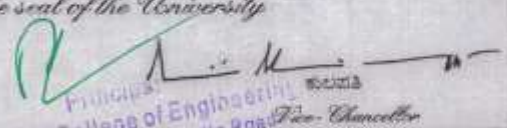
ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2002**  
*Year of Award:*

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ವಿಷಯ: **"Shear Dispersion of Solute**  
*Subject in Non-Newtonian Fluid Flows through*  
**conduits of Uniform Cross-Section"**

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ  
*Given under the seal of the University*

ಬೆಂಗಳೂರು  
*Bangalore:*

ದಿನಾಂಕ  
*Date:* 31.01.2004

  
Vice-Chancellor  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bangalore- 560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM  
KARNATAKA, INDIA



*This is to certify that*

**Pushpa B.V**

*has been conferred the Degree of*

**Doctor of Philosophy**

*in*

Faculty of Applied Sciences (Mathematics)

*for the thesis entitled*

**Numerical Modeling of Natural Convection in a Cylindrical  
Annular Cavity with thin Heated Plate**

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

PH  
13 001167

USN: 1SI09PGN01

Given under the seal of the University



*Principal*  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road  
Bengaluru - 560 057

BELGAUM

DATE : January 09, 2018

*VICE CHANCELLOR*



# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057.

Web: [www.sapthagiri.edu.in](http://www.sapthagiri.edu.in), Email: [principal@sapthagiri.edu.in](mailto:principal@sapthagiri.edu.in)

Phone: 080-28 372800/1/2 Fax: 080-28 372797



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