



**Army Institute Of Technology (AIT),** Dighi Camp, Pune - 15.

Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186

Exch : 7249250183, 7249250184, 7249250185

Website : [www.aitpune.com](http://www.aitpune.com) Email : [ait@aitpune.edu.in](mailto:ait@aitpune.edu.in)

Recognised by AICTE and DTE Maharashtra and affiliated to Savitribai Phule Pune University

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**2.4.2 Percentage of full time teachers with NET/SET/SLET/  
Ph.D. / D.Sc. /D.Litt. /L.L.D. during the last five years**

**2022-23**

Roll No. 20

Regd. No. 98 ਯੂ.ਐੱਸੀ. (ਊ.ਐੱਸੀ.) 1306



The Senate of  
**GURU NANAK DEV UNIVERSITY**

have conferred upon

ਸ਼੍ਰੀਮਤੀ ਜ਼ਿੰਬਾਬਵੇ ਸ਼੍ਰੀਮਤੀ ਸ਼੍ਰੀਮਤੀ ਨਾਟਲ  
son/daughter of ਸ਼੍ਰੀਮਤੀ ਸ਼੍ਰੀਮਤੀ

the degree of  
**DOCTOR OF PHILOSOPHY**

in the Faculty of ਫਿਲੋਸਫੀ & ਟੀਚਰਜ਼ ਟ੍ਰੇਨਿੰਗ (ਫਿਲੋਸਫੀ ਟੀਚਰਜ਼)

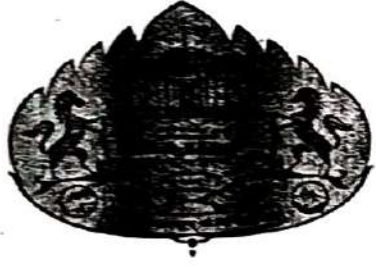
*R. Sawhney*

REGISTRAR

*M. S. Seth*  
VICE-CHANCELLOR

*H. J. Chahal*  
CHANCELLOR

Amritsar November 23, 2000.



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Surekha K.S., Mother's Name: Premalata H.K.*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

सुरेखा के. एस., आईचे नाव: प्रेमलता एच. के.

**विद्यावाचस्पती**

( इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

11th January 2019

EN18-00041



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Patil Gajanan Rangrao, Mother's Name: Vimal*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पाटील गजानन रंगराव, आईचे नाव: विमल

**विज्ञावाचस्पती**

( इलेक्ट्रॉनिक्स आणि दूरसंचार अभियांत्रिकी )

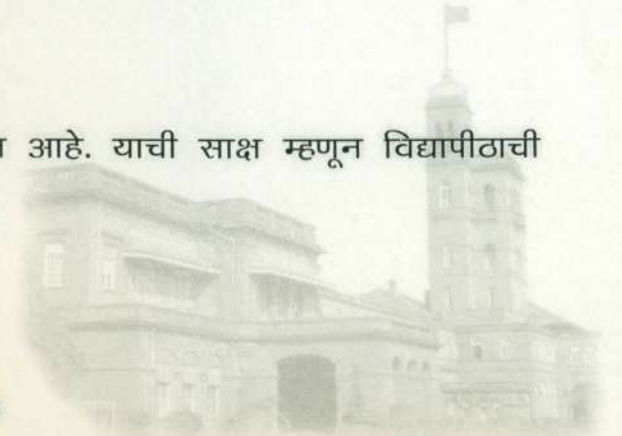
पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

22nd March 2016

EN15-00013



# Savitribai Phule Pune University

(Formerly  
University of Pune)



## सावित्रीबाई फुले पुणे विद्यापीठ

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Karandikar Parashuram Balwant*

*Mother's Name : Bhagyashree*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**  
(Electrical)

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

करंदीकर परशुराम बळवंत

आईचे नाव : भाग्यश्री

## विद्यावाचस्पति

( इलेक्ट्रिकल )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.

02nd March 2015

EN14-00009

Vice Chancellor



We,  
the Chancellor, Vice-Chancellor  
and Members of the Management Council of  
**Dr. Babasaheb Ambedkar Marathwada University,**  
Aurangabad (Maharashtra State), India

Certify that the withinsigned

*Sadhar*

----- *Sangeeta Dhamanjay Sadhar* -----  
Student of *Govt. College of Engineering, Ahalad* -----  
who has been found duly qualified for the Degree of  
Doctor of Philosophy (----- *Electronics Engineering* -----)

The Degree of

**Doctor of Philosophy**

(----- *Electronics Engineering* -----)

has been conferred on ----- *her* ----- at Aurangabad, on the  
----- *tenth* ----- day of the month of ----- *March* ----- in the year  
----- *two thousand thirteen* -----

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

Date of Notification *05<sup>th</sup> May 2012.*

Place: Aurangabad

Date of issue of the

Degree Certificate *10 MAR 2013*

*Mr. Pandharipande*

Vice-Chancellor



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Desai Rahul MeJOR**

( देसाई राहुल मेजर )

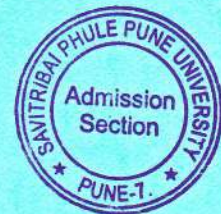
**Mother's Name : Madhuri**

( माधुरी )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Reinforcement learning algorithm for Optimized Routing for Mobile Ad Hoc Network "
- 4 Place of Research : Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 5 Name and Address of the Guide : Dr. B.P. Patil  
Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 6 Date of Registration : 18<sup>th</sup> August, 2012
- 7 Date of Re-Registration : 18<sup>th</sup> August, 2017
- 8 Date of Declaration of Result : 26<sup>th</sup> December, 2017



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 639

Date:

30 DEC 2017

for Director

Board of Examinations & Evaluation



**विज्ञान व तंत्रज्ञान आचार्य**  
**Doctor of Philosophy**  
 (Faculty of Science and Technology)

This is to certify that  
*Shri. Sunil Ramdas pant Dhore*  
 having been found to be duly qualified on  
 examination of the thesis on

*Mobile Agent Approach For Quality Based Web Services Composition*

was admitted to the degree of  
 Doctor of Philosophy in the subject Computer Science & Engg.  
 in the faculty of Science and Technology in this University in the year 2017.

*Chander*  
 Vice-Chancellor

*Amravati:*  
 23.02.2018





**NORTH MAHARASHTRA UNIVERSITY**  
Umavinagar, Post Box 80, Jalgaon - 425 001, (M.S.) INDIA

Fax : (91)-0257-2258406  
Website : [www.nmu.ac.in](http://www.nmu.ac.in)  
Email : [bcudresearch@rediffmail.com](mailto:bcudresearch@rediffmail.com)



Telephone : 0257-2257224  
0257-2258409


Grade B (2.88)  
(NAAC Re- ACCREDITED)

**NOTIFICATION**

It is hereby notified for the information of all concerned that the report of the referees appointed to examine and adjudicate the thesis "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*" submitted by the below mentioned candidate, has been accepted by this University and that the said candidate has been declared eligible for the award of Degree of:

**DOCTOR OF PHILOSOPHY (Ph. D.)**  
of the North Maharashtra University.

Name of the Candidate : *Mr. Jayadevan R.*  
Date of Registration : *29.12.2008*  
Topic of Research : "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*"  
Guide : *Prof. S. R. Kolhe*  
Co-guide : *Dr. P. M. Patil*  
Subject : *Computer Engineering*  
Faculty : *Engineering & Technology*  
Viva-Voce held on : *23.05.2013*

  
(*Prof. D. G. Hudiwale*)  
Director

Board of College and University Development

Ref. No. NMU/11/Ph. D. /Comp. Engg./ 1207 /2013

Date: 30.05.2013

Copy f.w.cs. to:-

1. The University Librarian.
2. The Heads/In-charges of the University Departments/Sections,
3. **Guide :- Prof S. R. Kolhe.** School of Computer Sci.N. M. U. Jalgaon
4. Go-Guide:- Dr. P. M. Patil, Pune
5. **Student:- Mr. Jayadevan R.,**C-201,Achal Leela Khushboo,D. P. Road,Vishal Nagar,Pune
6. **Secretary General,** AIU House,16,Com.Indrajeet Gupta Marg, (Kotla Marg),*New Delhi -02*
7. **The Director,** Information and Library Network Centre, Gujarat University Campus, P.Bo.No.,4116, Navarangpura, *Ahmadabad 380009* (India)(Please find enclosed herewith a CD of PDF soft copy of the thesis.)



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Bansode Nandkumar Krishna** ( बनसोडे नंदकुमार कृष्णा )

**Mother's Name : Yashoda** ( यशोदा )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Computer Engineering
- 3 Title of the Thesis : "Face Sketch Generation Algorithms Based on Text Description Using Evolutionary Computing Techniques "
- 4 Place of Research : Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 5 Name and Address of the Guide : Dr. P.K. Sinha  
Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 6 Date of Registration : 15<sup>th</sup> January, 2011
- 7 Date of Re-Registration : 15<sup>th</sup> January, 2016
- 8 Date of Declaration of Result : 17<sup>th</sup> January, 2018



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 41

Date: 23 JAN 2018

  
for Director

Board of Examinations & Evaluation

**महेश काकडे**

बी.ई (सिव्हिल), एम.ई. (स्ट्रक्च.),  
एफ.आय.ई (इंडिया), एम.आय.एस.टी.ई.  
परीक्षा नियंत्रक

**Mahesh Kakade**

B. E. (Civil), M. E. (Struc.)  
FIE (INDIA), MISTE

**Controller of Examinations**



Estd. 1962  
'A' Re-accredited by NAAC (2014)  
With CGPA 3.16

**शिवाजी विद्यापीठ,**

कोल्हापूर-४१६ ००४, महाराष्ट्र

**SHIVAJI UNIVERSITY,**

KOLHAPUR - 416 004, MAHARASHTRA

दूरध्वनी (थेट) : २६९३१७६,

२६०९०६७, २६०९०६८

फॅक्स : ००९१-०२३१-२६९०६५५

Phone : (Dir.) 26693176,

2609067, 2609068

Fax : 0091-0231-2690655

Website : www.unishivaji.ac.in

E-mail : coe@unishivaji.ac.in

Ref. No. :

Date :

## Declaration of Result

It is hereby declared that the thesis entitled,

**HEAT TRANSFER ENHANCEMENT USING PERMEABLE FINS**

submitted by, **Shri. Umesh Vandeorao Awasarmol** in **Mechanical Engineering** under the **Faculty of Engineering and Technology** is accepted by the University authorities for the award of the Degree of **Doctor of Philosophy in Mechanical Engineering** under the Faculty of Engineering and Technology on 28/09/2016.

**Controller of Examinations**

No. SU/PG/EXAM/Ph.D./6117

Date: 5 OCT 2016

To,

1. **Shri. Umesh Vandeorao Awasarmol,**  
2 A, Parnakuti Hsg., Soc.,  
Yerwada, Pune. 06
2. **Dr. A. T. Pise, (Guide)**  
Dy. Director & Project Ordinator,  
SPFU, TEQIP (II), Directorate of Technical,  
Education M. S. Mumbai – 400 001.
3. The Librarian, Barr. Balasaheb Khardekar Library, Shivaji University,  
Kolhapur.
4. The Head, Department of Technology, Shivaji University,  
Kolhapur.
5. Statement of Marks / Certificate Unit.
6. Convocation Unit.
7. Statistics Section.
8. UGC Notification File.

# Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and  
Members of the Management Council on  
the recommendation of the Academic Council certify that

*Jitendra Dhondiram Patil*  
*Mother's Name - Kamal*



*has passed the*

*Doctor of Philosophy*

*in Mechanical Engineering*

*in faculty of Science And Technology*

*on 31<sup>st</sup> May, 2018.*

*The said degree has been conferred on him*

*at Kolhapur in the Winter Session*

*of the year two thousand twenty.*

**In Testimony** *whereof are set the seal of the  
university and the signatures of the Registrar and the Vice-Chancellor.*

*Registrar*



*Vice-Chancellor*

Sr.No. :B- 19 : 48901



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Purohit Pritee Manoj, Mother's Name: Vaishali*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*( Metallurgy Engineering (Process Metallurgy) )*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पुरोहित प्रीती मनोज, आईचे नाव: वैशाली

**विद्यावाचस्पती**

( मेटॅलर्जी इंजिनियरिंग (प्रोसेस मेटॅलर्जी) )

पदवीस पात्र झाल्यावढल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

20th January 2018

EN17-00030



सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत (गुजरात, भारत)  
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT (GUJARAT, INDIA)

स्वाती अजय कुलकर्णी

को एतद्वारा स्थापत्य अभियांत्रिकी में

विद्या वाचस्पति

की उपाधि प्रदान करता है।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि,  
आवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा  
दिसम्बर, २०१५ में अपने शोध-निबंध के सफल पक्षपोषण के उपरांत,  
सूरत, भारतीय गणराज्य में आज बाईस जनवरी, २०१७ को दी गई है।

*Upon recommendation of the Senate*

*hereby confers the degree of*

**Doctor of Philosophy**

*in Civil Engineering*

*on*

*Swati Ajay Kulkarni*

*who has fulfilled the requirements for the degree as prescribed under the  
regulations and has successfully defended in December, 2015, the thesis entitled:*  
**Studies on Behaviour of Reduced Beam Section Moment Connections for  
Indian Profiles**

*Given this day, under the seal of the Institute at Surat  
in the Republic of India, the Twenty Second of January, 2017.*



  
Registrar

  
Chairman,  
Senate

  
Chairperson,  
Board of Governors





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Mundhe Ganesh Ashruji** ( मुंडे गणेश आश्रुजी )

**Mothers Name: Pushpa** ( पुष्पा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "On Connectivity and Graphicness of Binary Matroids under Splitting Operations."
4. Place of Research : Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
5. Name and Address of the Guide : Dr. Y. M. Borse,  
Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
6. Date of Registration : 5<sup>th</sup> August, 2013
7. Date of Re-Registration : 5<sup>th</sup> August, 2018
8. Date of Declaration of Result : 30<sup>th</sup> March, 2019



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 168

Date: - 5 APR 2019

For Director

Board of Examinations and Evaluation

# रानी दुर्गावती विश्वविद्यालय, जबलपुर

(NAAC ACCREDITED B<sup>+</sup> UNIVERSITY)



8851

## विद्यावाचस्पति

प्रमाणित किया जाता है कि

कु० सीमा दुबे

को इस विश्वविद्यालय के विज्ञान संकाय के अध्यापक रसायनशास्त्र विभाग में

विद्यावाचस्पति (डॉक्टर ऑफ फिलॉसफी)

की उपाधि से वर्ष २००५ में विभूषित किया गया।

इनकी शोध प्रबन्ध का विषय है

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

*Rani Durgavati Vishwavidyalaya, Jabalpur*

## DOCTOR OF PHILOSOPHY

*This is to certify that*

*Ms. Seema Dubey*

*has been admitted to the degree of*

## DOCTOR OF PHILOSOPHY

*in Chemistry*

*in the Faculty of Science in this University, in the year 2005.*

*The title of her thesis is -*

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

Dr. S. M. Paul Khurana

कुलपति

Vice-Chancellor

जबलपुर, दिनांक : 19 दिसम्बर, 2007

Jabalpur, Dated : 19th December, 2007

*Seyathulla*  
*Adh*





# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Ora Shraddha Dinesh, Mother's Name: Usha*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपती, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

**श्रद्धा दिनेश ओझा**, आईचे नाव: उषा

**विद्यावाचस्पती**

इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

118th Convocation (Summer)

EN20-00009



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Bhandari Renuka Gaurav** ( भंडारी रेणुका गौरव )  
**Mother's Name : Jeevanlata** ( जीवनलता )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Investigation of Blind Source Separation Approaches for MIMO Communication Systems"
- 4 Place of Research : Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 5 Name and Address of the Guide : Dr. Mrs. Sangeeta Jadhav  
Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 6 Date of Registration : 15<sup>th</sup> July, 2014
- 7 Date of Declaration of Result : 14<sup>th</sup> September, 2019

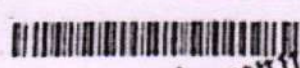


Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 486  
Date: 20 SEP 2019

*[Signature]*  
for Director

Board of Examinations & Evaluation

Sr. No. Q1- 0001088



Swami Ramanand Teerth Marathwada University, Nanded



We, the Chancellor, the Vice-Chancellor, Members of  
the Management Council and the Academic Council of the  
Swami Ramanand Teerth Marathwada University, certify that  
the degree of

**Doctor of Philosophy**

*Science & Technology*

*In the faculty of (Computer Science & Engineering)*

*has been conferred on Sapkal Ashwini Tukaram*

*on Twenty Eight September Two Thousand Nineteen*

*who has been found duly qualified for the same. In testimony  
whereof is set the seat of the said University.*

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नंदेड

सपकाळ आश्विनी तुकाराम

हे/ह्या

विद्यावाचस्पती या पदवीस पात्र ठरल्यामुळे त्यांना स्वामी रामानंद तीर्थ मराठवाडा  
विद्यापीठाचे कुलपती, कुलगुरु, व्यवस्थापन परिषद आणि विद्या परिषद सदस्य  
यांच्या अनुमतीने

विद्याशास्त्रांतर्गत

विज्ञान व तंत्रज्ञान ( संगणक शास्त्र व अभियांत्रिकी )

**विद्यावाचस्पती**

ही पदवी दिनांक

अठ्ठावीस सप्टेंबर दोन हजार एकोणीस

रोजी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा

येथे अंकित करण्यात येत आहे.

Date : 28th September, 2019

Place: Nanded, Maharashtra State, India.

Dr. Vidhan V. Bhande  
Vice-Chancellor



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamilnadu, India.

Sl.No.: T 18013135

Register No. : 2013192105

Date : 04-05-2021

## PROVISIONAL CERTIFICATE - Ph.D.



This is to certify that **PATIL RAJASHRI AJITRAO** has qualified herself for the award of the Degree of Doctor of Philosophy in Faculty of **ELECTRONICS ENGINEERING** on 19th April 2021 and she having been certified by duly appointed Examiners and approved by the Board of Management of Sathyabama Institute of Science and Technology.

*Title : PERFORMANCE EVALUATION OF LARGE MIMO*

Chennai - 600 119.

Date: Tuesday, May 4, 2021

Registrar

Dr.S.S.RAO, M.B.A., Ph.D.,  
REGISTRAR

**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119.

Controller of Examinations

Dr. S. Igni Sabasti Prabu,  
Controller of Examinations,  
Sathyabama Institute of Science and Technology,  
Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119.





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Ashok Kumar Singh**

( अशोक कुमार सिंह )

**Mothers Name: Champa**

( चंपा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "Wavelets and the Uncertainty Principle."
4. Place of Research : Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
5. Name and Address of the Guide : Dr. Hemant Bhatе,  
Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
6. Date of Registration : 22<sup>nd</sup> August, 2011
7. Date of Re-Registration : 22<sup>nd</sup> August, 2016
8. Date of Declaration of Result : 31<sup>st</sup> July, 2020



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 229

Date:

17 AUG 2020

*[Signature]*  
For Director

Board of Examinations and Evaluation



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Wadar Sushma Raju** ( वडार सुषमा राजू )

**Mother's Name: Sulochana** ( सुलोचना )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics Engineering
- 3 Title of the Thesis : "Hardware Accelerators for RISC in Multimedia Applications."
- 4 Place of Research : Department of Electronics Engineering  
AISSMS's Institute of Information Technology,  
Kennedy Road, Near R.T.O., Pune- 411 001
- 5 Name and Address of the Guide : Dr. D. S. Bormane  
Department of Electronics Engineering  
AISSMS's Institute of Information Technology,  
Kennedy Road, Near R.T.O., Pune- 411 001
- 6 Date of Registration : 7<sup>th</sup> May, 2015
- 7 Date of Re-Registration : 7<sup>th</sup> May, 2020
- 8 Date of Declaration of Result : 1<sup>st</sup> July, 2021

Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 323

Date: 15 JUL 2021



*(Signature)*  
for Director

Board of Examinations & Evaluation



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Patil Avinash Subhash** ( पाटील अविनाश सुभाष )

**Mother's Name: Sulochana** ( सुलोचना )

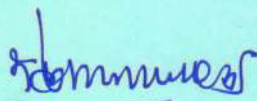
University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics Engineering
- 3 Title of the Thesis : "VEDIC Mathematics based hardware optimization for various arithmetic."
- 4 Place of Research : Department of Electronics & Telecommunication Engineering,  
JSPM's Rajarshi Shahu College of Engineering,  
Sr. No. 80, Pune-Mumbai By Pass Highway,  
Tathawade, Pune- 411 033
- 5 Name and Address of the Guide : Prof. Dr. Mrs. S. C. Patil  
Department of Electronics & Telecommunication Engineering,  
JSPM's Rajarshi Shahu College of Engineering,  
Sr. No. 80, Pune-Mumbai By Pass Highway,  
Tathawade, Pune- 411 033
- 6 Date of Registration : 7<sup>th</sup> May, 2015
- 7 Date of Re-Registration : 7<sup>th</sup> May, 2020
- 8 Date of Declaration of Result : 1<sup>st</sup> February, 2022



Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 158  
Date: 23/02/2022

  
for Director  
Board of Examinations & Evaluation



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the M.Tech-Ph.D (Integrated)**

**Rane Sagar Ramesh**

( राणे सागर रमेश )

**Mother's Name: Sangita**

( संगिता )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D. as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of M.Tech-Ph.D. (integrated) and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Computer & Information Technology
- 3 Title of the Thesis : "Techniques for forensic enabled security in cloud computing environment"
- 4 Place of Research : Department of Technology  
Savitribai Phule Pune University,  
Pune - 411 007.
- 5 Name and Address of the Guide : Dr. S. J. Wagh  
Department of Technology  
Savitribai Phule Pune University,  
Pune - 411 007.
- 6 Date of Registration : 5<sup>th</sup> August, 2017
- 7 Date of Declaration of Result : 29<sup>th</sup> March, 2022



*[Signature]*  
Director

Board of Examinations & Evaluation

Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D./242  
Date: 06/04/2022





# Vel Tech

Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University. Estd. u/s 3 of UGC Act, 1956)



Reg. No. 17RECS1041

Sl. No. 0000183

## PROVISIONAL DEGREE CERTIFICATE

This is to certify that

**WALUNJKAR GAJANAN MADHAVRAO**

Has been declared to have provisionally qualified for the award of degree in

**Doctor of Philosophy**

in

**COMPUTER SCIENCE & ENGINEERING**

Having satisfied all the requirements and viva -voce held on 30-12-2022

in accordance with the provisions of

**UGC Regulations 2016 for the award of Ph.D. Degree**

Title of the thesis:

**DISASTER RELIEF MANAGEMENT USING REINFORCEMENT LEARNING BASED ROUTING**



Date : 18 - JAN - 2023

**Controller of Examinations**



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Gurav Raviraj Bhairu**

( गुरव रविराज भैरू )

**Mother's Name: Laxmi**

( लक्ष्मी )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Mechanical Engineering
- 3 Title of the Thesis : "Experimental Investigations on Mixed Convection Heat Transfer in Cavities using Porous Medium."
- 4 Place of Research : Department of Mechanical Engineering, MAEER's Maharashtra Institute of Technology, Sr. No. 124, Paud Road, Kothrud, Pune- 411 038
- 5 Name and Address of the Guide : Dr. Mandar M. Lele  
Department of Mechanical Engineering,  
MAEER's Maharashtra Institute of Technology,  
Sr. No. 124, Paud Road, Kothrud, Pune- 411 038
- 6 Date of Registration : 31<sup>st</sup> January, 2015
- 7 Date of Re-Registration : 31<sup>st</sup> January, 2020
- 8 Date of Declaration of Result : 26<sup>th</sup> May, 2022



Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D./1439  
Date: 10/06/2022

Director

Board of Examinations & Evaluation

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
KARNATAKA, INDIA



*This is to certify that*  
SANDEEP SAKHAHARI BIDWAI

*has been conferred the Degree of*  
**Doctor of Philosophy**

*in*

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

*for the thesis entitled*

APPLICATION OF MARKOV CHAINS AND CONVOLUTIONAL NEURAL  
NETWORKS FOR COGNITIVE RADIO

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

PH  
23 00544

Given under the seal of the University

USN: 2KL12PEN02



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR



# SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under Section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A++' Grade | Awarded Category - I by UGC

*We, the Chancellor, Pro Chancellor, Vice Chancellor and Members of the Board of Management and Academic Council of Symbiosis International (Deemed University) certify that*

*Preeti Warriar*

*Mother's Name: Geetha*



*has been examined and found duly qualified for*

*Doctor of Philosophy*

*(Faculty of Engineering)*

*"Design and Analysis of a Complex Order Controller for Power Electronic Converters"*

*The said degree has been conferred upon the student at the Twentieth Convocation held on Ninth December Two Thousand & Twenty Three. In testimony whereof is set the seal of the said University.*

*O. Reman*

Vice Chancellor

*V. S. K. Rajamohan*

Chancellor





# भारतीय प्रौद्योगिकी संस्थान इंदौर

अभिषद की अनुशंसा पर

*विद्या वावस्पति*

की उपाधि



**निधि यादव**

को, जिन्होंने इस उपाधि हेतु निर्धारित आवश्यकताओं को सफलतापूर्वक पूर्ण किया है।  
भारत गणराज्य के अंतर्गत इंदौर में, तेरह अगस्त दो हजार बाईस को, संस्थान की मुद्रांकित यह उपाधि दी गई है।

**Indian Institute of Technology Indore**

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

**Doctor of Philosophy**

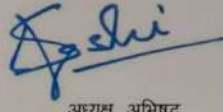
*in*

**NIDHI YADAV**

*who has successfully completed all the prescribed requirements for the award of this degree. Given under the seal of the Institute at Indore in the Republic of India on the Thirteenth August, Two Thousand and Twenty Two.*

Reg. No.: 1701202001

  
कुलसचिव  
Registrar

  
अध्यक्ष, अभिषद  
Chairperson, Senate

  
अध्यक्ष, शासी मण्डल  
Chairperson, Board of Governors

Swami Ramanand Teerth Marathwada University, Nanded



We, the Chancellor, the Vice Chancellor, Members of the Management Council and the Academic Council of the Swami Ramanand Teerth Marathwada University, certify that **Dhishik Sonali Madhkarani** of **Department Microbiology, Nanded** having been examined and found duly qualified for the degree of

## Bachelor of Science

and placed in **First Class With Distinction in March/April 2005** the said degree has been conferred on him/her. The optional subjects in which he/she was examined were **Microbiology, Computer science, Chemistry**

The testimony hereby is at the seat of the said University.

## स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

आम्ही, स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठाचे कुलपती, कुलगुरू,

व्यवस्थापन परिषद आणि विद्या परिषद सदस्य, प्रमाणित करितो की,

मोसले सोनाली माधवराव

हे / ह्या

अशवंत महाविद्यालय, नांदेड.

येथून

## विज्ञान स्नातक

पराक्षा प्रथम श्रेणीत विशेष प्रावीण्यासह मार्च/एप्रिल २००५ मध्ये उत्तीर्ण झाल्याबद्दल त्यांना ही पदवी पदान करण्यात येत आहे. वरील परीक्षेसाठी त्यांनी अभ्यासनेने निश्चित विषय **जैवतंत्रज्ञान, संगणकशास्त्र, रसायनशास्त्र** होते. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.

Vice-Chancellor

Date: 16th April 2006

पं. द्वारका प्रसाद मिश्र भारतीय सूचना प्रौद्योगिकी, अभिकल्पन एवं विनिर्माण संस्थान, जबलपुर

(संसदीय अधिनियम द्वारा स्थापित राष्ट्रीय महत्व का संस्थान)

**Pt. Dwarka Prasad Mishra Indian Institute of Information Technology,  
Design and Manufacturing, Jabalpur**

(An Institute of National Importance Established by an Act of Parliament)

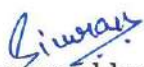
IIITDMJ/JR(Acad.)/2022/1813603



**विद्या वाचस्पति की उपाधि हेतु अनंतिम प्रमाण पत्र**  
**Provisional Certificate for the Degree of**  
**Doctor of Philosophy (Ph.D.)**

यह प्रमाणित किया जाता है कि नागरगोजे अनिकेत रामनाथ अनुक्रमांक 1813603 के द्वारा यांत्रिक अभियांत्रिकी में विद्या वाचस्पति की समस्त अर्हताएं अपने शोध-प्रबंध के सफल पक्षपोषण के उपरांत इस दिनांक को पूर्ण कर ली गयी हैं। इन्हें उपाधि श्रापी मंडल एवं अभिषद की अनुशंसा पर अगले दीक्षांत समारोह में प्रदान की जाएगी। मेरी जानकारी के अनुसार संस्थान में रहने की अवधि में इनका चरित्र एवं आचरण अच्छा रहा है।

This is to certify that **Mr. Nagargoje Aniket Ramnath** Roll Number **1813603** Mother's Name **Mrs. Sharda**, Father's Name **Mr. Ramnath** has completed all the requirements and successfully defended the thesis on **2nd June, 2022**, entitled **Development of Geometrical Feature Extraction Technology for Freeform Surfaces using DBSCAN Clustering to develop Feature-based Toolpaths in Dieless Manufacturing** for the award of the degree of **Doctor of Philosophy (Ph.D.) in Mechanical Engineering** of the Institute on this date. The degree shall be conferred at the next convocation, subject to ratification by the Senate and the Board of Governors of the Institute. To the best of our knowledge, his/her character and conduct during the period of stay at this Institute are good.

  
Prepared by:  
Date: 14-06-2022



  
संयुक्त कुलसचिव (शैक्षणिक)  
Joint Registrar (Academic)  
संयुक्त कुलसचिव (शैक्षणिक) / Joint Registrar (Academic)  
पी.डी.पी.एम.-आई.आई.टी.डी.एम., जबलपुर (म.प्र.) भारत  
PDPM-IIITDM, Jabalpur (M.P.) INDIA

# National Institute of Technology



Durgapur, India

*The Board of Governors of the Institute upon the recommendation of the Senate hereby confers the degree of*

*Doctor of Philosophy*  
*Department of Mechanical Engineering*

*on*

*Lokesha .M*

*who submitted a thesis entitled*

**AUTOMATIC FAULT DETECTION AND DIAGNOSIS IN GEARS USING  
WAVELET ANALYSIS AND NEURAL NETWORK**

*and successfully completed the requirement as prescribed  
under the regulations on April 21, 2017*

Chairman  
Senate



Chairman  
Board of Governors



क्रमांक 22957 / 2023  
Serial No.



नामांकन क्रमांक  
Enrollment No. : PU18-PHD-019

**पेसिफिक उच्चतर शिक्षा और अनुसंधान अकादमी विश्वविद्यालय,  
उदयपुर**

यह प्रमाणित किया जाता है कि

**बिरारी दीपिका राजेंद्र**

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

**अभियान्त्रिकी संकाय**

के कम्प्यूटर अभियान्त्रिकी विभाग में

**विद्या-वाचस्पति**

की उपाधि वर्ष 2023 में प्रदान की गयी है।

इनके शोध का विषय 'रेखा-चित्र आधारित छवि और डेटा पुनर्प्राप्ति वर्णनकर्ता के  
माध्यम से ग्रेस्केल प्रसरण के साथ: एक परस्पर संवादात्मक' रहा है।

**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

**BIRARI DIPIKA RAJENDRA**

has been conferred the degree of

**Doctor of Philosophy**

in the Department of Computer Engineering

in the year 2023 in the

**Faculty of Engineering**

on successful fulfilment of the requirements prescribed  
under the relevant regulations of the University.

The topic of research was 'Sketch Based Image and Data Retrieval  
Through Descriptor with Grayscale Invariance: An Interactive Mining'.

निर्गमन दिनांक:  
20 मार्च, 2023

Date of Issue:  
20 March, 2023



प्रसिडेन्ट  
President



**Army Institute Of Technology (AIT), Dighi Camp, Pune - 15.**

Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186

Exch : 7249250183, 7249250184, 7249250185

Website : [www.aitpune.com](http://www.aitpune.com) Email : [ait@aitpune.edu.in](mailto:ait@aitpune.edu.in)

Recognised by AICTE and DTE Maharashtra and affiliated to Savitribai Phule Pune University

---

**2.4.2 Percentage of full time teachers with NET/SET/SLET/  
Ph.D. / D.Sc. /D.Litt. /L.L.D. during the last five years**

**2021-22**

Roll No..... 20.....

Regd. No. 98 ਭੁਗਤੀ ਸੀ. (ਊਐੱਚ). 1306



The Senate of  
**GURU NANAK DEV UNIVERSITY**

have conferred upon

ਸ਼੍ਰੀਮਤੀ ਜ਼ਿਬਾਬਾਤ ਸ਼ਾਮਲੀਆਰੀ ਨਾਟਲ  
son/daughter of ਸ਼੍ਰੀਮਤੀ ਸ਼੍ਰੀਮਤੀ

the degree of  
**DOCTOR OF PHILOSOPHY**

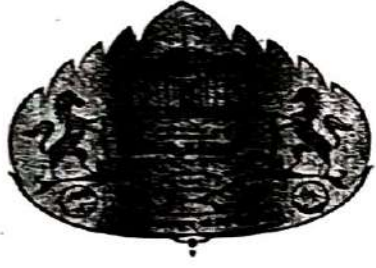
in the Faculty of ਫਿਲਾਸਫੀ & ਟੀਚਰਜ਼ ਟ੍ਰੇਨਿੰਗ (ਫਿਲੋਸਫੀ ਟੀਚਰਜ਼)

*R. Sawan*  
REGISTRAR

*M. S. Seth*  
VICE-CHANCELLOR

*Hardeep*  
CHANCELLOR

Amritsar November 23, 2000.



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Surekha K.S., Mother's Name: Premalata H.K.*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

सुरेखा के. एस., आईचे नाव: प्रेमलता एच. के.

**विद्यावाचस्पती**

( इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

11th January 2019

EN18-00041



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Patil Gajanan Rangrao, Mother's Name: Vimal*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पाटील गजानन रंगराव, आईचे नाव: विमल

**विज्ञावाचस्पती**

( इलेक्ट्रॉनिक्स आणि दूरसंचार अभियांत्रिकी )

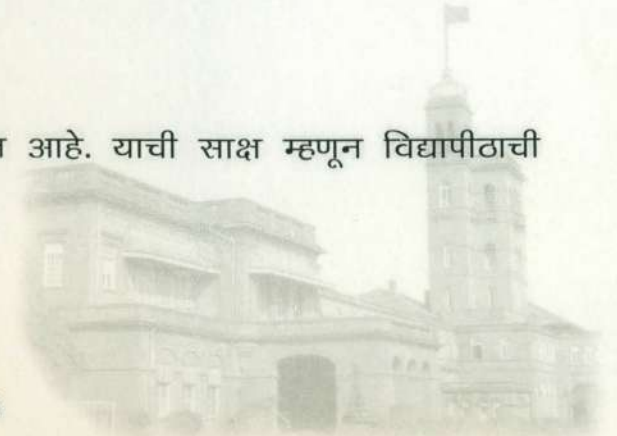
पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

22nd March 2016

EN15-00013



# Savitribai Phule Pune University

(Formerly  
University of Pune)



# सावित्रीबाई फुले पुणे विद्यापीठ

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Karandikar Parashuram Balwant*

*Mother's Name : Bhagyashree*

*having been examined and found duly qualified for the degree of*

## Doctor of Philosophy (Electrical)

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

करंदीकर परशुराम बळवंत

आईचे नाव : भाग्यश्री

## विद्यावाचस्पति

( इलेक्ट्रिकल )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.

02nd March 2015

EN14-00009

Vice Chancellor



We,  
the Chancellor, Vice-Chancellor  
and Members of the Management Council of  
**Dr. Babasaheb Ambedkar Marathwada University,**  
Aurangabad (Maharashtra State), India

Certify that the withinsigned

*Sadhar*

----- *Sangeeta Dhamanjay Sadhar* -----  
Student of *Govt. College of Engineering, Ahalad* -----  
who has been found duly qualified for the Degree of  
Doctor of Philosophy (----- *Electronics Engineering* -----)

The Degree of

**Doctor of Philosophy**

(----- *Electronics Engineering* -----)

has been conferred on ----- *her* ----- at Aurangabad, on the  
----- *tenth* ----- day of the month of ----- *March* ----- in the year  
----- *two thousand thirteen* -----

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

Date of Notification *05<sup>th</sup> May 2012.*

Place: Aurangabad

Date of issue of the

Degree Certificate *10 MAR 2013*

*Mr. Pandharipande*

Vice-Chancellor



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Desai Rahul Mejor**

( देसाई राहुल मेजर )

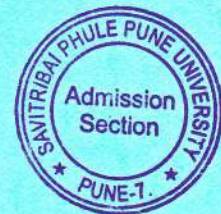
**Mother's Name : Madhuri**

( माधुरी )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Reinforcement learning algorithm for Optimized Routing for Mobile Ad Hoc Network "
- 4 Place of Research : Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 5 Name and Address of the Guide : Dr. B.P. Patil  
Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 6 Date of Registration : 18<sup>th</sup> August, 2012
- 7 Date of Re-Registration : 18<sup>th</sup> August, 2017
- 8 Date of Declaration of Result : 26<sup>th</sup> December, 2017



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 639

Date:

30 DEC 2017

for Director

Board of Examinations & Evaluation





**विज्ञान व तंत्रज्ञान आचार्य**  
**Doctor of Philosophy**  
(Faculty of Science and Technology)

This is to certify that  
*Shri. Sunil Ramdas pant Dhore*  
having been found to be duly qualified on  
examination of the thesis on

*Mobile Agent Approach For Quality Based Web Services Composition*

was admitted to the degree of  
Doctor of Philosophy in the subject Computer Science & Engg.  
in the faculty of Science and Technology in this University in the year 2017.

*Chander*  
Vice-Chancellor

*Amravati:*  
23.02.2018



**NORTH MAHARASHTRA UNIVERSITY**  
Umavinagar, Post Box 80, Jalgaon - 425 001, (M.S.) INDIA

Fax : (91)-0257-2258406  
Website : [www.nmu.ac.in](http://www.nmu.ac.in)  
Email : [bcudresearch@rediffmail.com](mailto:bcudresearch@rediffmail.com)



Telephone :0257-2257224  
0257-2258409

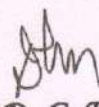
Grade B (2.88)  
(NAAC Re- ACCREDITED)

**NOTIFICATION**

It is hereby notified for the information of all concerned that the report of the referees appointed to examine and adjudicate the thesis "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*" submitted by the below mentioned candidate, has been accepted by this University and that the said candidate has been declared eligible for the award of Degree of:

**DOCTOR OF PHILOSOPHY (Ph. D.)**  
of the North Maharashtra University.

Name of the Candidate : *Mr. Jayadevan R.*  
Date of Registration : *29.12.2008*  
Topic of Research : "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*"  
Guide : *Prof. S. R. Kolhe*  
Co-guide : *Dr. P. M. Patil*  
Subject : *Computer Engineering*  
Faculty : *Engineering & Technology*  
Viva-Voce held on : *23.05.2013*

  
(*Prof. D. G. Hudiwale*)  
Director

Board of College and University Development

Ref. No. NMU/11/Ph. D. /Comp. Engg./ 1207 /2013

Date: 30.05.2013

Copy f.w.cs. to:-

1. The University Librarian.
2. The Heads/In-charges of the University Departments/Sections,
3. **Guide :- Prof S. R. Kolhe.** School of Computer Sci.N. M. U. Jalgaon
4. Go-Guide:- Dr. P. M. Patil, Pune
5. **Student:- Mr. Jayadevan R.,**C-201,Achal Leela Khushboo,D. P. Road,Vishal Nagar,Pune
6. **Secretary General,** AIU House,16,Com.Indrajeet Gupta Marg, (Kotla Marg),*New Delhi* -02
7. **The Director,** Information and Library Network Centre, Gujarat University Campus, P.Bo.No.,4116, Navarangpura, *Ahmadabad* 380009 (India)(Please find enclosed herewith a CD of PDF soft copy of the thesis.)



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Bansode Nandkumar Krishna** ( बनसोडे नंदकुमार कृष्णा )

**Mother's Name : Yashoda** ( यशोदा )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Computer Engineering
- 3 Title of the Thesis : "Face Sketch Generation Algorithms Based on Text Description Using Evolutionary Computing Techniques "
- 4 Place of Research : Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 5 Name and Address of the Guide : Dr. P.K. Sinha  
Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 6 Date of Registration : 15<sup>th</sup> January, 2011
- 7 Date of Re-Registration : 15<sup>th</sup> January, 2016
- 8 Date of Declaration of Result : 17<sup>th</sup> January, 2018



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 41

Date: 23 JAN 2018

  
for Director

Board of Examinations & Evaluation

# The University of Akron

## The Graduate School

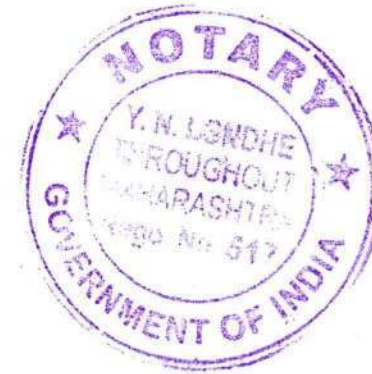
By authority of the Board of Trustees and on recommendation  
of the Faculty hereby confers upon

**Sanjiv Manohar Sansgiri**

The Degree of

**Doctor of Philosophy**

Together with all the rights and privileges pertaining thereto.  
Witness the seal of the University and the signatures of its officers.  
Given at Akron, in the State of Ohio, this fifteenth day of December, 2001.



**CERTIFIED TRUE COPY  
ATTESTED**

*[Signature]*  
**Y. N. LONDHE  
NOTARY  
GOVT. OF INDIA**

*[Signature]*  
Chairman of the Board of Trustees

*[Signature]*  
Secretary of the Board



*[Signature]*  
President of the University

*[Signature]*  
Vice President for Research and Dean

**महेश काकडे**

बी.ई (सिविल), एम.ई. (स्ट्रक्च.),  
एफ.आय.ई (इंडिया), एम.आय.एस.टी.ई.  
**परीक्षा नियंत्रक**

**Mahesh Kakade**

B. E. (Civil), M. E. (Struc.)  
FIE (INDIA), MISTE

**Controller of Examinations**



Estd. 1962  
'A' Re-accredited by NAAC (2014)  
With CGPA 3.16

**शिवाजी विद्यापीठ,**

कोल्हापूर-४१६ ००४, महाराष्ट्र

**SHIVAJI UNIVERSITY,**

KOLHAPUR - 416 004, MAHARASHTRA

दूरध्वनी (थेट) : २६९३१७६,

२६०९०६७, २६०९०६८

फॅक्स : ००९१-०२३१-२६९०६५५

Phone : (Dir.) 26693176,

2609067, 2609068

Fax : 0091-0231-2690655

Website : www.unishivaji.ac.in

E-mail : coe@unishivaji.ac.in

Ref. No. :

Date :

## Declaration of Result

It is hereby declared that the thesis entitled,

**HEAT TRANSFER ENHANCEMENT USING PERMEABLE FINS**

submitted by, **Shri. Umesh Vandeorao Awasarmol** in **Mechanical Engineering** under the **Faculty of Engineering and Technology** is accepted by the University authorities for the award of the Degree of **Doctor of Philosophy in Mechanical Engineering** under the Faculty of Engineering and Technology on 28/09/2016.

**Controller of Examinations**

No. SU/PG/EXAM/Ph.D./6117

Date: 5 OCT 2016

To,

1. **Shri. Umesh Vandeorao Awasarmol,**  
2 A, Parnakuti Hsg., Soc.,  
Yerwada, Pune. 06
2. **Dr. A. T. Pise, (Guide)**  
Dy. Director & Project Ordinator,  
SPFU, TEQIP (II), Directorate of Technical,  
Education M. S. Mumbai – 400 001.
3. The Librarian, Barr. Balasaheb Khardekar Library, Shivaji University,  
Kolhapur.
4. The Head, Department of Technology, Shivaji University,  
Kolhapur.
5. Statement of Marks / Certificate Unit.
6. Convocation Unit.
7. Statistics Section.
8. UGC Notification File.

# Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and  
Members of the Management Council on  
the recommendation of the Academic Council certify that

*Jitendra Dhondiram Patil*  
*Mother's Name - Kamal*



*has passed the*

*Doctor of Philosophy*

*in Mechanical Engineering*

*in faculty of Science And Technology*

*on 31<sup>st</sup> May, 2018.*

*The said degree has been conferred on him*

*at Kolhapur in the Winter Session*

*of the year two thousand twenty.*

**In Testimony** *whereof are set the seal of the  
university and the signatures of the Registrar and the Vice-Chancellor.*

*Registrar*



*Vice-Chancellor*

Sr.No. :B- 19 : 48901



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Purohit Pritee Manoj, Mother's Name: Vaishali*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*( Metallurgy Engineering (Process Metallurgy) )*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पुरोहित प्रीती मनोज, आईचे नाव: वैशाली

**विद्यावाचस्पती**

( मेटॅलर्जी इंजिनिअरिंग (प्रोसेस मेटॅलर्जी) )

पदवीस पात्र झाल्यावढल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

20th January 2018

EN17-00030



सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत (गुजरात, भारत)  
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT (GUJARAT, INDIA)

स्वाती अजय कुलकर्णी

को एतद्वारा स्थापत्य अभियांत्रिकी में

विद्या वाचस्पति

की उपाधि प्रदान करता है।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि,  
आवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा  
दिसम्बर, २०१५ में अपने शोध-निबंध के सफल पक्षपोषण के उपरांत,  
सूरत, भारतीय गणराज्य में आज बाईस जनवरी, २०१७ को दी गई है।

*Upon recommendation of the Senate*

*hereby confers the degree of*

**Doctor of Philosophy**

*in Civil Engineering*

*on*

*Swati Ajay Kulkarni*

*who has fulfilled the requirements for the degree as prescribed under the  
regulations and has successfully defended in December, 2015, the thesis entitled:*  
**Studies on Behaviour of Reduced Beam Section Moment Connections for  
Indian Profiles**

*Given this day, under the seal of the Institute at Surat  
in the Republic of India, the Twenty Second of January, 2017.*



  
Registrar

  
Chairman,  
Senate

  
Chairperson,  
Board of Governors







**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Mundhe Ganesh Ashruji** ( मुंढे गणेश आश्रुजी )

**Mothers Name: Pushpa** ( पुष्पा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "On Connectivity and Graphicalness of Binary Matroids under Splitting Operations."
4. Place of Research : Department of Mathematics, Savitribai Phule Pune University Pune-411007.
5. Name and Address of the Guide : Dr. Y. M. Borse, Department of Mathematics, Savitribai Phule Pune University Pune-411007.
6. Date of Registration : 5<sup>th</sup> August, 2013
7. Date of Re-Registration : 5<sup>th</sup> August, 2018
8. Date of Declaration of Result : 30<sup>th</sup> March, 2019



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 168

Date: - 5 APR 2019

For Director

Board of Examinations and Evaluation

# रानी दुर्गावती विश्वविद्यालय, जबलपुर

(NAAC ACCREDITED B<sup>+</sup> UNIVERSITY)



8851

## विद्यावाचस्पति

प्रमाणित किया जाता है कि

कु० सीमा दुबे

को इस विश्वविद्यालय के विज्ञान संकाय के अध्यापक रसायनशास्त्र विभाग में

विद्यावाचस्पति (डॉक्टर ऑफ फिलासफी)

की उपाधि से वर्ष २००५ में विभूषित किया गया।

इनकी शोध प्रबन्ध का विषय है

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

*Rani Durgavati Vishwavidyalaya, Jabalpur*

## DOCTOR OF PHILOSOPHY

*This is to certify that*

*Ms. Seema Dubey*

*has been admitted to the degree of*

## DOCTOR OF PHILOSOPHY

*in Chemistry*

*in the Faculty of Science in this University, in the year 2005.*

*The title of her thesis is -*

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

Dr. S. M. Paul Khurana

कुलपति

Vice-Chancellor

जबलपुर, दिनांक : 19 दिसम्बर, 2007

Jabalpur, Dated : 19th December, 2007

*Seemadubey*  
*Adm*



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Ora Shraddha Dinesh, Mother's Name : Usha*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपती, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

**श्रद्धा दिनेश बोझा**, आईचे नाव: उषा

**विद्यावाचस्पती**

इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

118th Convocation (Summer)

EN20-00009



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Bhandari Renuka Gaurav** ( भंडारी रेणुका गौरव )  
**Mother's Name : Jeevanlata** ( जीवनलता )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Investigation of Blind Source Separation Approaches for MIMO Communication Systems"
- 4 Place of Research : Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 5 Name and Address of the Guide : Dr. Mrs. Sangeeta Jadhav  
Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 6 Date of Registration : 15<sup>th</sup> July, 2014
- 7 Date of Declaration of Result : 14<sup>th</sup> September, 2019

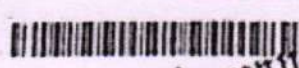


Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 486  
Date: 20 SEP 2019

*[Signature]*  
for Director

Board of Examinations & Evaluation

Sr. No. Q1- 0001088



Swami Ramanand Teerth Marathwada University, Nanded



We, the Chancellor, the Vice-Chancellor, Members of  
the Management Council and the Academic Council of the  
Swami Ramanand Teerth Marathwada University, certify that  
the degree of

**Doctor of Philosophy**

*Science & Technology*

*In the faculty of (Computer Science & Engineering)*

*has been conferred on Saphal Ashwini Tukaram*

*on Twenty Eight September Two Thousand Nineteen*

*who has been found duly qualified for the same. In testimony  
whereof is set the seat of the said University.*

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नंदेड

सपकाळ आश्वीनी तुकाराम

हे/ह्या

विद्यावाचस्पती या पदवीस पात्र ठरल्यामुळे त्यांना स्वामी रामानंद तीर्थ मराठवाडा  
विद्यापीठाचे कुलपती, कुलगुरु, व्यवस्थापन परिषद आणि विद्या परिषद सदस्य  
यांच्या अनुमतीने

विद्याशास्त्रांतर्गत

विज्ञान व तंत्रज्ञान ( संगणक शास्त्र व अभियांत्रिकी )

**विद्यावाचस्पती**

ही पदवी दिनांक

अठ्ठावीस सप्टेंबर दोन हजार एकोणीस

रोजी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा

येथे अंकित करण्यात येत आहे.

Date : 28th September, 2019

Place: Nanded, Maharashtra State, India.

Dr. Vidhan V. Bhande  
Vice-Chancellor



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamilnadu, India.

Sl.No.: T 18013135

Register No. : 2013192105

Date : 04-05-2021

## PROVISIONAL CERTIFICATE - Ph.D.



This is to certify that **PATIL RAJASHRI AJITRAO** has qualified herself for the award of the Degree of Doctor of Philosophy in Faculty of **ELECTRONICS ENGINEERING** on 19th April 2021 and she having been certified by duly appointed Examiners and approved by the Board of Management of Sathyabama Institute of Science and Technology.

*Title* : PERFORMANCE EVALUATION OF LARGE MIMO

Chennai - 600 119.

Date: Tuesday, May 4, 2021

Registrar

Dr.S.S.RAO, M.B.A.,Ph.D.,  
REGISTRAR

**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119.

Controller of Examinations

Dr. S. Igni Sabasti Prabu,  
Controller of Examinations,  
Sathyabama Institute of Science and Technology,  
Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119.





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Ashok Kumar Singh**

( अशोक कुमार सिंह )

**Mothers Name: Champa**

( चंपा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "Wavelets and the Uncertainty Principle."
4. Place of Research : Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
5. Name and Address of the Guide : Dr. Hemant Bhatе,  
Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
6. Date of Registration : 22<sup>nd</sup> August, 2011
7. Date of Re-Registration : 22<sup>nd</sup> August, 2016
8. Date of Declaration of Result : 31<sup>st</sup> July, 2020



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 229

Date:

17 AUG 2020

*[Signature]*  
For Director

Board of Examinations and Evaluation

EDP S. No.: 600000297

Regn. cum Roll No.

1205030

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ  
**I.K. Gujral Punjab Technical University Jalandhar**  
Formerly Punjab Technical University Jalandhar



**Doctor of Philosophy**

*The Board of Governors of I.K.Gujral Punjab Technical University, Jalandhar upon the recommendation of the Academic council hereby confers on Mr./Ms Harjeet Kaur Son/Daughter of Sh. Karnail Singh Degree of Doctor of Philosophy in the faculty of ENGINEERING (ELECTRONICS AND COMMUNICATION ENGINEERING) IN JANUARY-2018. The subject on which He/She presented the thesis for the Degree was " PERFORMANCE ANALYSIS OF VARIOUS ALGORITHMS FOR SPEECH ENHANCEMENT. "*

*Given under the seal of the University*

ਰਜਿਸਟਰਾਰ  
Registrar  
Jalandhar, 18-04-2018

ਵਾਈਸ-ਚਾਂਸਲਰ  
Vice-Chancellor

ਚਾਂਸਲਰ  
Chancellor





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Wadar Sushma Raju** ( वडार सुषमा राजू )

**Mother's Name: Sulochana** ( सुलोचना )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics Engineering
- 3 Title of the Thesis : "Hardware Accelerators for RISC in Multimedia Applications."
- 4 Place of Research : Department of Electronics Engineering  
AISSMS's Institute of Information Technology,  
Kennedy Road, Near R.T.O., Pune- 411 001
- 5 Name and Address of the Guide : Dr. D. S. Bormane  
Department of Electronics Engineering  
AISSMS's Institute of Information Technology,  
Kennedy Road, Near R.T.O., Pune- 411 001
- 6 Date of Registration : 7<sup>th</sup> May, 2015
- 7 Date of Re-Registration : 7<sup>th</sup> May, 2020
- 8 Date of Declaration of Result : 1<sup>st</sup> July, 2021

Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 323

Date: 15 JUL 2021



*(Signature)*  
for Director

Board of Examinations & Evaluation



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Patil Avinash Subhash** ( पाटील अविनाश सुभाष )

**Mother's Name: Sulochana** ( सुलोचना )

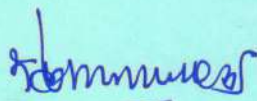
University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics Engineering
- 3 Title of the Thesis : "VEDIC Mathematics based hardware optimization for various arithmetic."
- 4 Place of Research : Department of Electronics & Telecommunication Engineering,  
JSPM's Rajarshi Shahu College of Engineering,  
Sr. No. 80, Pune-Mumbai By Pass Highway,  
Tathawade, Pune- 411 033
- 5 Name and Address of the Guide : Prof. Dr. Mrs. S. C. Patil  
Department of Electronics & Telecommunication Engineering,  
JSPM's Rajarshi Shahu College of Engineering,  
Sr. No. 80, Pune-Mumbai By Pass Highway,  
Tathawade, Pune- 411 033
- 6 Date of Registration : 7<sup>th</sup> May, 2015
- 7 Date of Re-Registration : 7<sup>th</sup> May, 2020
- 8 Date of Declaration of Result : 1<sup>st</sup> February, 2022



Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 158  
Date: 23/02/2022

  
for Director  
Board of Examinations & Evaluation



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the M.Tech-Ph.D (Integrated)**

**Rane Sagar Ramesh**

( राणे सागर रमेश )

**Mother's Name: Sangita**

( संगिता )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D. as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of M.Tech-Ph.D. (integrated) and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty** : Science & Technology
- 2 Subject** : Computer & Information Technology
- 3 Title of the Thesis** : "Techniques for forensic enabled security in cloud computing environment"
- 4 Place of Research** : Department of Technology  
Savitribai Phule Pune University,  
Pune - 411 007.
- 5 Name and Address of the Guide** : Dr. S. J. Wagh  
Department of Technology  
Savitribai Phule Pune University,  
Pune - 411 007.
- 6 Date of Registration** : 5<sup>th</sup> August, 2017
- 7 Date of Declaration of Result** : 29<sup>th</sup> March, 2022



Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D./242  
Date: 06/04/2022

Director

Board of Examinations & Evaluation



## भारतीय प्रौद्योगिकी संस्थान मुंबई

शैलेश केवलदास ढोके

को एतद्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है ।

अभिषेक की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि, अवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा फरवरी 2009 में अपने शोध-प्रबंध के सफल पक्षपोषण के उपरान्त मुंबई, भारतीय गणराज्य में आज 7 अगस्त, 2009 को दी गई है ।

## Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

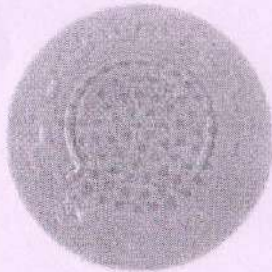
on

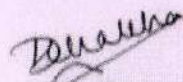
Shailesh Kewaldas Dhoke

who has fulfilled the requirements for the degree as prescribed under the regulations and successfully defended in February 2009, the thesis entitled:

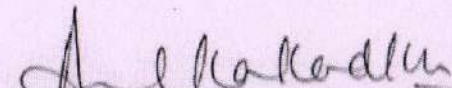
“Effect of Nano-Particles on the Performance of Waterborne Anticorrosive Coatings”.

Given this day, under the seal of the Institute at Mumbai in the Republic of India, the 7th day of August 2009.



  
अध्यक्ष, अभिषेक  
Chairman, Senate

  
कुलसचिव  
Registrar

  
अध्यक्ष, शासी मंडल  
Chairman, Board of Governors



**Army Institute Of Technology (AIT),** Dighi Camp, Pune - 15.

Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186

Exch : 7249250183, 7249250184, 7249250185

Website : [www.aitpune.com](http://www.aitpune.com) Email : [ait@aitpune.edu.in](mailto:ait@aitpune.edu.in)

Recognised by AICTE and DTE Maharashtra and affiliated to Savitribai Phule Pune University

---

## **2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph.D. / D.Sc. /D.Litt. /L.L.D. during the last five years**

# **2020-21**

Roll No..... 20.....

Regd. No. 98 ਭੁਗਤੀ ਸੀ. (ਊਐੱਚ). 1306



The Senate of  
**GURU NANAK DEV UNIVERSITY**

have conferred upon

ਸ਼੍ਰੀਮਤੀ ਜ਼ਿਬਾਬਾਤ ਸ਼ਾਮਲੀਬਾਰੀ ਨਾਟਲ  
son/daughter of ਸ਼੍ਰੀਮਤੀ ਸ਼੍ਰੀਮਤੀ

the degree of  
**DOCTOR OF PHILOSOPHY**

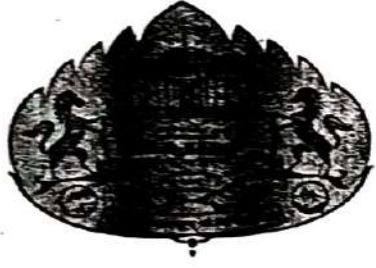
in the Faculty of ਫਿਲਾਸਫੀ & ਟੀਚਰਜ਼ ਐਜੂਕੇਸ਼ਨ (ਫਿਲੋਸੋਫੀ ਟੀਚਰਜ਼)

*R. Sawan*  
REGISTRAR

*M. S. Seth*  
VICE-CHANCELLOR

*Hardeep*  
CHANCELLOR

Amritsar 23 November 2000.



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Surekha K.S., Mother's Name: Premalata H.K.*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

सुरेखा के. एस., आईचे नाव: प्रेमलता एच. के.

**विद्यावाचस्पती**

( इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

11th January 2019

EN18-00041



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Patil Gajanan Rangrao, Mother's Name: Vimal*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पाटील गजानन रंगराव, आईचे नाव: विमल

**विज्ञावाचस्पती**

( इलेक्ट्रॉनिक्स आणि दूरसंचार अभियांत्रिकी )

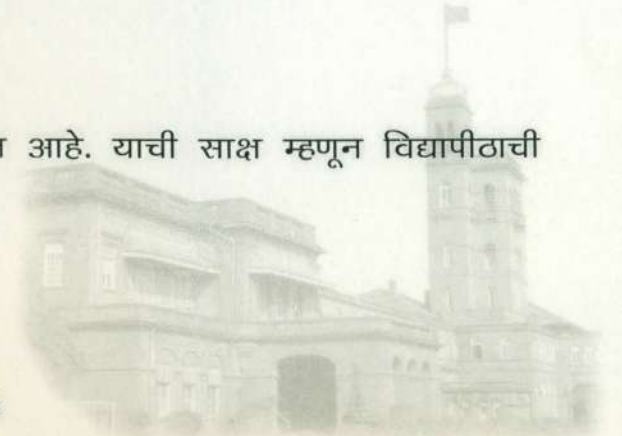
पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

22nd March 2016

EN15-00013





# Savitribai Phule Pune University

(Formerly  
University of Pune)



# सावित्रीबाई फुले पुणे विद्यापीठ

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Karandikar Parashuram Balwant*

*Mother's Name : Bhagyashree*

*having been examined and found duly qualified for the degree of*

## Doctor of Philosophy (Electrical)

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

करंदीकर परशुराम बळवंत

आईचे नाव : भाग्यश्री

## विद्यावाचस्पति

( इलेक्ट्रिकल )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.

02nd March 2015

EN14-00009

Vice Chancellor



We,  
the Chancellor, Vice-Chancellor  
and Members of the Management Council of  
**Dr. Babasaheb Ambedkar Marathwada University,**  
Aurangabad (Maharashtra State), India

Certify that the withinsigned

*Sadhar*

----- *Sangeeta Dhamanjay Sadhar* -----  
Student of *Govt. College of Engineering, Ahalad* -----  
who has been found duly qualified for the Degree of  
Doctor of Philosophy (----- *Electronics Engineering* -----)

The Degree of

**Doctor of Philosophy**

(----- *Electronics Engineering* -----)

has been conferred on ----- *her* ----- at Aurangabad, on the  
----- *tenth* ----- day of the month of ----- *March* ----- in the year  
----- *two thousand thirteen* -----

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

Date of Notification *05<sup>th</sup> May 2012*.

Place: Aurangabad

Date of issue of the

Degree Certificate *10 MAR 2013*

*Mr. Pandharipande*

Vice-Chancellor



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Desai Rahul MeJOR**

( देसाई राहुल मेजर )

**Mother's Name : Madhuri**

( माधुरी )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Reinforcement learning algorithm for Optimized Routing for Mobile Ad Hoc Network "
- 4 Place of Research : Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 5 Name and Address of the Guide : Dr. B.P. Patil  
Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 6 Date of Registration : 18<sup>th</sup> August, 2012
- 7 Date of Re-Registration : 18<sup>th</sup> August, 2017
- 8 Date of Declaration of Result : 26<sup>th</sup> December, 2017



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 639

Date:

30 DEC 2017

for Director

Board of Examinations & Evaluation



**विज्ञान व तंत्रज्ञान आचार्य**  
**Doctor of Philosophy**  
 (Faculty of Science and Technology)

This is to certify that  
*Shri. Sunil Ramdas pant Dhore*  
 having been found to be duly qualified on  
 examination of the thesis on

*Mobile Agent Approach For Quality Based Web Services Composition*

was admitted to the degree of  
 Doctor of Philosophy in the subject Computer Science & Engg.  
 in the faculty of Science and Technology in this University in the year 2017.

*Chander*  
 Vice-Chancellor

*Amravati:*  
 23.02.2018



**NORTH MAHARASHTRA UNIVERSITY**  
Umavinagar, Post Box 80, Jalgaon - 425 001, (M.S.) INDIA

Fax : (91)-0257-2258406  
Website : [www.nmu.ac.in](http://www.nmu.ac.in)  
Email : [bcudresearch@rediffmail.com](mailto:bcudresearch@rediffmail.com)



Telephone : 0257-2257224  
0257-2258409

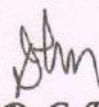
Grade B (2.88)  
(NAAC Re- ACCREDITED)

**NOTIFICATION**

It is hereby notified for the information of all concerned that the report of the referees appointed to examine and adjudicate the thesis "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*" submitted by the below mentioned candidate, has been accepted by this University and that the said candidate has been declared eligible for the award of Degree of:

**DOCTOR OF PHILOSOPHY (Ph. D.)**  
of the North Maharashtra University.

Name of the Candidate : *Mr. Jayadevan R.*  
Date of Registration : *29.12.2008*  
Topic of Research : "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*"  
Guide : *Prof. S. R. Kolhe*  
Co-guide : *Dr. P. M. Patil*  
Subject : *Computer Engineering*  
Faculty : *Engineering & Technology*  
Viva-Voce held on : *23.05.2013*

  
(*Prof. D. G. Hudiwale*)  
Director

Board of College and University Development

Ref. No. NMU/11/Ph. D. /Comp. Engg./ 1207 /2013

Date: 30.05.2013

Copy f.w.cs. to:-

1. The University Librarian.
2. The Heads/In-charges of the University Departments/Sections,
3. **Guide :- Prof S. R. Kolhe.** School of Computer Sci.N. M. U. Jalgaon
4. Go-Guide:- Dr. P. M. Patil, Pune
5. **Student:- Mr. Jayadevan R.,**C-201,Achal Leela Khushboo,D. P. Road,Vishal Nagar,Pune
6. **Secretary General,** AIU House,16,Com.Indrajeet Gupta Marg, (Kotla Marg),*New Delhi -02*
7. **The Director,** Information and Library Network Centre, Gujarat University Campus, P.Bo.No.,4116, Navarangpura, *Ahmadabad 380009* (India)(Please find enclosed herewith a CD of PDF soft copy of the thesis.)



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Bansode Nandkumar Krishna** ( बनसोडे नंदकुमार कृष्णा )

**Mother's Name : Yashoda** ( यशोदा )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Computer Engineering
- 3 Title of the Thesis : "Face Sketch Generation Algorithms Based on Text Description Using Evolutionary Computing Techniques "
- 4 Place of Research : Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 5 Name and Address of the Guide : Dr. P.K. Sinha  
Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 6 Date of Registration : 15<sup>th</sup> January, 2011
- 7 Date of Re-Registration : 15<sup>th</sup> January, 2016
- 8 Date of Declaration of Result : 17<sup>th</sup> January, 2018



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 41

Date: 23 JAN 2018

  
for Director

Board of Examinations & Evaluation

# The University of Akron

## The Graduate School

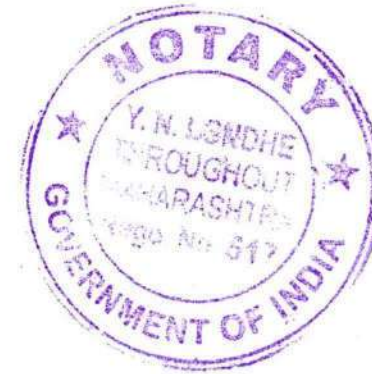
By authority of the Board of Trustees and on recommendation  
of the Faculty hereby confers upon

**Sanju Manohar Sansgiri**

The Degree of

**Doctor of Philosophy**

Together with all the rights and privileges pertaining thereto.  
Witness the seal of the University and the signatures of its officers.  
Given at Akron, in the State of Ohio, this fifteenth day of December, 2001.



**CERTIFIED TRUE COPY  
ATTESTED**

*[Signature]*  
**Y. N. LONDHE  
NOTARY  
GOVT. OF INDIA**

*[Signature]*  
Chairman of the Board of Trustees

*[Signature]*  
Secretary of the Board



*[Signature]*  
President of the University

*[Signature]*  
Vice President for Research and Dean

**महेश काकडे**

बी.ई (सिविल), एम.ई. (स्ट्रक्च.),  
एफ.आय.ई (इंडिया), एम.आय.एस.टी.ई.  
परीक्षा नियंत्रक

**Mahesh Kakade**

B. E. (Civil), M. E. (Struc.)  
FIE (INDIA), MISTE

**Controller of Examinations**



Estd. 1962  
'A' Re-accredited by NAAC (2014)  
With CGPA 3.16

**शिवाजी विद्यापीठ,**

कोल्हापूर-४१६ ००४, महाराष्ट्र

**SHIVAJI UNIVERSITY,**

KOLHAPUR - 416 004, MAHARASHTRA

दूरध्वनी (थेट) : २६९३१७६,

२६०९०६७, २६०९०६८

फॅक्स : ००९१-०२३१-२६९०६५५

Phone : (Dir.) 26693176,

2609067, 2609068

Fax : 0091-0231-2690655

Website : www.unishivaji.ac.in

E-mail : coe@unishivaji.ac.in

Ref. No. :

Date :

## Declaration of Result

It is hereby declared that the thesis entitled,

**HEAT TRANSFER ENHANCEMENT USING PERMEABLE FINS**

submitted by, **Shri. Umesh Vandeorao Awasarmol** in **Mechanical Engineering** under the **Faculty of Engineering and Technology** is accepted by the University authorities for the award of the Degree of **Doctor of Philosophy in Mechanical Engineering** under the Faculty of Engineering and Technology on 28/09/2016.

**Controller of Examinations**

No. SU/PG/EXAM/Ph.D./6117

Date: 5 OCT 2016

To,

1. **Shri. Umesh Vandeorao Awasarmol,**  
2 A, Parnakuti Hsg., Soc.,  
Yerwada, Pune. 06
2. **Dr. A. T. Pise, (Guide)**  
Dy. Director & Project Ordinator,  
SPFU, TEQIP (II), Directorate of Technical,  
Education M. S. Mumbai – 400 001.
3. The Librarian, Barr. Balasaheb Khardekar Library, Shivaji University,  
Kolhapur.
4. The Head, Department of Technology, Shivaji University,  
Kolhapur.
5. Statement of Marks / Certificate Unit.
6. Convocation Unit.
7. Statistics Section.
8. UGC Notification File.



# Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and  
Members of the Management Council on  
the recommendation of the Academic Council certify that

*Jitendra Dhondiram Patil*  
*Mother's Name - Kamal*



*has passed the*

*Doctor of Philosophy*

*in Mechanical Engineering*

*in faculty of Science And Technology*

*on 31<sup>st</sup> May, 2018.*

*The said degree has been conferred on him*

*at Kolhapur in the Winter Session*

*of the year two thousand twenty.*

**In Testimony** *whereof are set the seal of the  
university and the signatures of the Registrar and the Vice-Chancellor.*

*Registrar*



*Vice-Chancellor*

Sr.No. :B- 19 : 48901



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Purohit Pritee Manoj, Mother's Name: Vaishali*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*( Metallurgy Engineering (Process Metallurgy) )*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पुरोहित प्रीती मनोज, आईचे नाव: वैशाली

**विद्यावाचस्पती**

( मेटॅलर्जी इंजिनिअरिंग (प्रोसेस मेटॅलर्जी) )

पदवीस पात्र झाल्यावढल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

20th January 2018

EN17-00030



सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत (गुजरात, भारत)  
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT (GUJARAT, INDIA)

स्वाती अजय कुलकर्णी

को एतद्वारा स्थापत्य अभियांत्रिकी में

विद्या वाचस्पति

की उपाधि प्रदान करता है।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि,  
आवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा  
दिसम्बर, २०१५ में अपने शोध-निबंध के सफल पक्षपोषण के उपरांत,  
सूरत, भारतीय गणराज्य में आज बाईस जनवरी, २०१७ को दी गई है।

*Upon recommendation of the Senate*

*hereby confers the degree of*

**Doctor of Philosophy**

*in Civil Engineering*

*on*

*Swati Ajay Kulkarni*

*who has fulfilled the requirements for the degree as prescribed under the  
regulations and has successfully defended in December, 2015, the thesis entitled:*  
**Studies on Behaviour of Reduced Beam Section Moment Connections for  
Indian Profiles**

*Given this day, under the seal of the Institute at Surat  
in the Republic of India, the Twenty Second of January, 2017.*



  
Registrar

  
Chairman,  
Senate

  
Chairperson,  
Board of Governors





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Mundhe Ganesh Ashruji** ( मुंढे गणेश आश्रुजी )

**Mothers Name: Pushpa** ( पुष्पा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "On Connectivity and Graphicness of Binary Matroids under Splitting Operations."
4. Place of Research : Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
5. Name and Address of the Guide : Dr. Y. M. Borse,  
Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
6. Date of Registration : 5<sup>th</sup> August, 2013
7. Date of Re-Registration : 5<sup>th</sup> August, 2018
8. Date of Declaration of Result : 30<sup>th</sup> March, 2019



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 168

Date: - 5 APR 2019

For Director

Board of Examinations and Evaluation

# रानी दुर्गावती विश्वविद्यालय, जबलपुर

(NAAC ACCREDITED B<sup>+</sup> UNIVERSITY)



8851

## विद्यावाचस्पति

प्रमाणित किया जाता है कि

कु० सीमा दुबे

को इस विश्वविद्यालय के विज्ञान संकाय के अध्यापक रसायनशास्त्र विभाग में

विद्यावाचस्पति (डॉक्टर ऑफ फिलॉसफी)

की उपाधि से वर्ष २००७ में विभूषित किया गया।

इनकी शोध प्रबन्ध का विषय है

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

*Rani Durgavati Vishwavidyalaya, Jabalpur*

## DOCTOR OF PHILOSOPHY

*This is to certify that*

*Ms. Seema Dubey*

*has been admitted to the degree of*

## DOCTOR OF PHILOSOPHY

*in Chemistry*

*in the Faculty of Science in this University, in the year 2007.*

*The title of her thesis is -*

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

Dr. S. M. Paul Khurana

कुलपति

Vice-Chancellor

जबलपुर, दिनांक : 19 दिसम्बर, 2007

Jabalpur, Dated : 19th December, 2007

*Seyathulla*  
*Asst*



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Ora Shraddha Dinesh, Mother's Name : Usha*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपती, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

**श्रद्धा दिनेश बोझा**, आईचे नाव: उषा

**विद्यावाचस्पती**

इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

118th Convocation (Summer)

EN20-00009



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Bhandari Renuka Gaurav** ( भंडारी रेणुका गौरव )  
**Mother's Name : Jeevanlata** ( जीवनलता )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Investigation of Blind Source Separation Approaches for MIMO Communication Systems"
- 4 Place of Research : Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 5 Name and Address of the Guide : Dr. Mrs. Sangeeta Jadhav  
Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 6 Date of Registration : 15<sup>th</sup> July, 2014
- 7 Date of Declaration of Result : 14<sup>th</sup> September, 2019

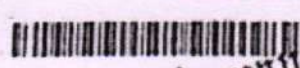


Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 486  
Date: 20 SEP 2019

*[Signature]*  
for Director

Board of Examinations & Evaluation

Sr. No. Q1- 0001088



Swami Ramanand Teerth Marathwada University, Nanded



We, the Chancellor, the Vice-Chancellor, Members of  
the Management Council and the Academic Council of the  
Swami Ramanand Teerth Marathwada University, certify that  
the degree of

**Doctor of Philosophy**

*Science & Technology*

*In the faculty of (Computer Science & Engineering)*

*has been conferred on Sapkal Ashwini Tukaram*

*on Twenty Eight September Two Thousand Nineteen*

*who has been found duly qualified for the same. In testimony  
whereof is set the seat of the said University.*

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नंदेड

सपकाळ आश्विनी तुकाराम

हे/ह्या

विद्यावाचस्पती या पदवीस पात्र ठरल्यामुळे त्यांना स्वामी रामानंद तीर्थ मराठवाडा  
विद्यापीठाचे कुलपती, कुलगुरु, व्यवस्थापन परिषद आणि विद्या परिषद सदस्य  
यांच्या अनुमतीने

विद्याशास्त्रांतर्गत

विज्ञान व तंत्रज्ञान ( संगणक शास्त्र व अभियांत्रिकी )

**विद्यावाचस्पती**

ही पदवी दिनांक

अठ्ठावीस सप्टेंबर दोन हजार एकोणीस

रोजी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा

येथे अंकित करण्यात येत आहे.

Date : 28th September, 2019

Place: Nanded, Maharashtra State, India.

Dr. Vidhan V. Bhande  
Vice-Chancellor





# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, Tamilnadu, India.

Sl.No.: T 18013135

Register No. : 2013192105

Date : 04-05-2021

## PROVISIONAL CERTIFICATE - Ph.D.



This is to certify that **PATIL RAJASHRI AJITRAO** has qualified herself for the award of the Degree of Doctor of Philosophy in Faculty of **ELECTRONICS ENGINEERING** on 19th April 2021 and she having been certified by duly appointed Examiners and approved by the Board of Management of Sathyabama Institute of Science and Technology.

*Title* : PERFORMANCE EVALUATION OF LARGE MIMO

Chennai - 600 119.

Date: Tuesday, May 4, 2021

Registrar

Dr.S.S.RAO, M.B.A., Ph.D.,  
REGISTRAR

**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119.

Controller of Examinations

Dr. S. Igni Sabasti Prabu,  
Controller of Examinations,  
Sathyabama Institute of Science and Technology,  
Jeppiaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119.





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Ashok Kumar Singh**

( अशोक कुमार सिंह )

**Mothers Name: Champa**

( चंपा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "Wavelets and the Uncertainty Principle."
4. Place of Research : Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
5. Name and Address of the Guide : Dr. Hemant Bhatе,  
Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
6. Date of Registration : 22<sup>nd</sup> August, 2011
7. Date of Re-Registration : 22<sup>nd</sup> August, 2016
8. Date of Declaration of Result : 31<sup>st</sup> July, 2020



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 229

Date:

17 AUG 2020

*[Signature]*  
For Director

Board of Examinations and Evaluation



**Army Institute Of Technology (AIT), Dighi Camp, Pune - 15.**

Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186

Exch : 7249250183, 7249250184, 7249250185

Website : [www.aitpune.com](http://www.aitpune.com) Email : [ait@aitpune.edu.in](mailto:ait@aitpune.edu.in)

Recognised by AICTE and DTE Maharashtra and affiliated to Savitribai Phule Pune University

---

**2.4.2 Percentage of full time teachers with NET/SET/SLET/  
Ph.D. / D.Sc. /D.Litt. /L.L.D. during the last five years**

**2019-20**

Roll No..... 20.....

Regd. No. 98 ਭੁਗਤੀ ਸੀ. (ਊਐੱਚ). 1306



The Senate of  
**GURU NANAK DEV UNIVERSITY**

have conferred upon

ਸ਼੍ਰੀਮਤੀ ਜ਼ਿਬਾਬਾਤ ਸ਼ਾਮਲੀ ਕੌਰ ਨਾਟਲ  
son/daughter of ਸ਼੍ਰੀਮਤੀ ਸ਼੍ਰੀਮਤੀ

the degree of  
**DOCTOR OF PHILOSOPHY**

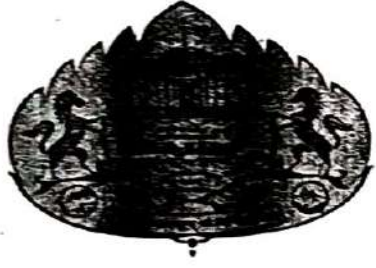
in the Faculty of ਭਾਸ਼ਾ, ਸਾਹਿਤ ਅਤੇ ਪੜ੍ਹਾਈ (ਫਿਲੋਸੋਫੀ)

*R. Sawan*  
REGISTRAR

*M. S. Seth*  
VICE-CHANCELLOR

*Hardeep*  
CHANCELLOR

Amritsar November 23, 2000.



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Surekha K.S., Mother's Name: Premalata H.K.*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

सुरेखा के. एस., आईचे नाव: प्रेमलता एच. के.

**विद्यावाचस्पती**

( इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

11th January 2019

EN18-00041



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Patil Gajanan Rangrao, Mother's Name: Vimal*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पाटील गजानन रंगराव, आईचे नाव: विमल

**विज्ञावाचस्पती**

( इलेक्ट्रॉनिक्स आणि दूरसंचार अभियांत्रिकी )

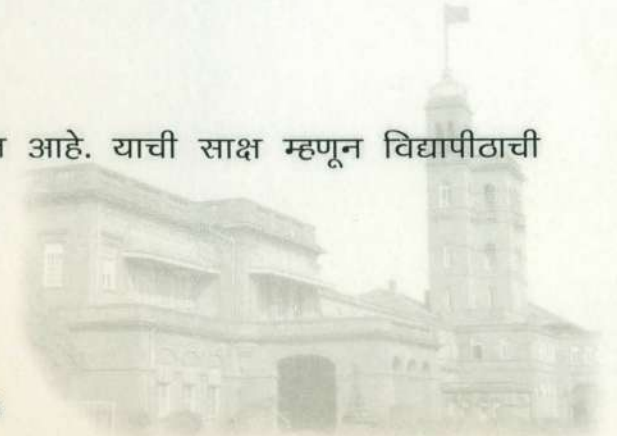
पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

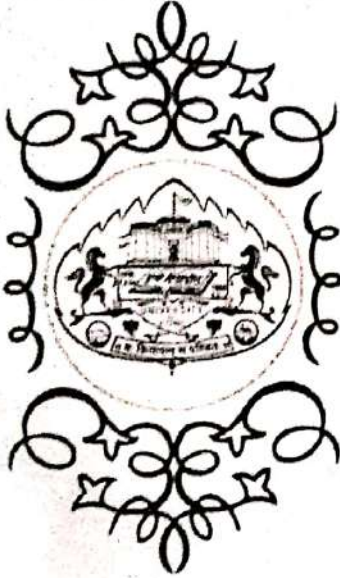
22nd March 2016

EN15-00013



# Savitribai Phule Pune University

(Formerly  
University of Pune)



## सावित्रीबाई फुले पुणे विद्यापीठ

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Karandikar Parashuram Balwant*

*Mother's Name : Bhagyashree*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**  
(Electrical)

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

करंदीकर परशुराम बळवंत

आईचे नाव : भाग्यश्री

## विद्यावाचस्पति

( इलेक्ट्रिकल )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.

02nd March 2015

EN14-00009

Vice Chancellor

EDP S. No.: 600000297

Regn. cum Roll No.

1205030

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ  
**I.K. Gujral Punjab Technical University Jalandhar**  
Formerly Punjab Technical University Jalandhar



**Doctor of Philosophy**

*The Board of Governors of I.K. Gujral Punjab Technical University, Jalandhar upon the recommendation of the Academic council hereby confers on Mr./Ms Harjeet Kaur Son/Daughter of Sh. Karnail Singh Degree of Doctor of Philosophy in the faculty of ENGINEERING (ELECTRONICS AND COMMUNICATION ENGINEERING) IN JANUARY-2018. The subject on which He/She presented the thesis for the Degree was " PERFORMANCE ANALYSIS OF VARIOUS ALGORITHMS FOR SPEECH ENHANCEMENT. "*

*Given under the seal of the University*

ਰਜਿਸਟਰਾਰ  
Registrar  
Jalandhar, 18-04-2018

ਵਾਈਸ-ਚਾਂਸਲਰ  
Vice-Chancellor

ਚਾਂਸਲਰ  
Chancellor





We,  
the Chancellor, Vice-Chancellor  
and Members of the Management Council of  
**Dr. Babasaheb Ambedkar Marathwada University,**  
Aurangabad (Maharashtra State), India

Certify that the withinsigned

*Sadhar*

----- *Sangeeta Dhamanjay Sadhar* -----  
Student of *Govt. College of Engineering, Ahd.* -----  
who has been found duly qualified for the Degree of  
Doctor of Philosophy (----- *Electronics Engineering* -----)

The Degree of

**Doctor of Philosophy**

(----- *Electronics Engineering* -----)

has been conferred on ----- *her* ----- at Aurangabad, on the  
----- *tenth* ----- day of the month of ----- *March* ----- in the year  
----- *two thousand thirteen* -----

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

Date of Notification *05<sup>th</sup> May 2012.*

Place: Aurangabad

Date of issue of the

Degree Certificate *10 MAR 2013*

*Mr. Pandharipande*

Vice-Chancellor



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Desai Rahul Mejor**

( देसाई राहुल मेजर )

**Mother's Name : Madhuri**

( माधुरी )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Reinforcement learning algorithm for Optimized Routing for Mobile Ad Hoc Network "
- 4 Place of Research : Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 5 Name and Address of the Guide : Dr. B.P. Patil  
Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 6 Date of Registration : 18<sup>th</sup> August, 2012
- 7 Date of Re-Registration : 18<sup>th</sup> August, 2017
- 8 Date of Declaration of Result : 26<sup>th</sup> December, 2017



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 639

Date:

30 DEC 2017

for Director

Board of Examinations & Evaluation



**विज्ञान व तंत्रज्ञान आचार्य**  
**Doctor of Philosophy**  
(Faculty of Science and Technology)

This is to certify that  
*Shri. Sunil Ramdas pant Dhore*  
having been found to be duly qualified on  
examination of the thesis on

*Mobile Agent Approach For Quality Based Web Services Composition*

was admitted to the degree of  
Doctor of Philosophy in the subject Computer Science & Engg.  
in the faculty of Science and Technology in this University in the year 2017.

*Chander*  
Vice-Chancellor

*Amravati:*  
23.02.2018



**NORTH MAHARASHTRA UNIVERSITY**  
Umavinagar, Post Box 80, Jalgaon - 425 001, (M.S.) INDIA

Fax : (91)-0257-2258406  
Website : [www.nmu.ac.in](http://www.nmu.ac.in)  
Email : [bcudresearch@rediffmail.com](mailto:bcudresearch@rediffmail.com)



Telephone : 0257-2257224  
0257-2258409


Grade B (2.88)  
(NAAC Re- ACCREDITED)

**NOTIFICATION**

It is hereby notified for the information of all concerned that the report of the referees appointed to examine and adjudicate the thesis "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*" submitted by the below mentioned candidate, has been accepted by this University and that the said candidate has been declared eligible for the award of Degree of:

**DOCTOR OF PHILOSOPHY (Ph. D.)**  
of the North Maharashtra University.

Name of the Candidate : *Mr. Jayadevan R.*  
Date of Registration : *29.12.2008*  
Topic of Research : "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*"  
Guide : *Prof. S. R. Kolhe*  
Co-guide : *Dr. P. M. Patil*  
Subject : *Computer Engineering*  
Faculty : *Engineering & Technology*  
Viva-Voce held on : *23.05.2013*

  
(*Prof. D. G. Hudiwale*)  
Director

Board of College and University Development

Ref. No. NMU/11/Ph. D. /Comp. Engg./ 1207 /2013

Date: 30.05.2013

Copy f.w.cs. to:-

1. The University Librarian.
2. The Heads/In-charges of the University Departments/Sections,
3. **Guide :- Prof S. R. Kolhe.** School of Computer Sci.N. M. U. Jalgaon
4. Go-Guide:- Dr. P. M. Patil, Pune
5. **Student:- Mr. Jayadevan R.,**C-201,Achal Leela Khushboo,D. P. Road,Vishal Nagar,Pune
6. **Secretary General,** AIU House,16,Com.Indrajeet Gupta Marg, (Kotla Marg),*New Delhi -02*
7. **The Director,** Information and Library Network Centre, Gujarat University Campus, P.Bo.No.,4116, Navarangpura, *Ahmadabad 380009* (India)(Please find enclosed herewith a CD of PDF soft copy of the thesis.)



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Bansode Nandkumar Krishna** ( बनसोडे नंदकुमार कृष्णा )

**Mother's Name : Yashoda** ( यशोदा )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Computer Engineering
- 3 Title of the Thesis : "Face Sketch Generation Algorithms Based on Text Description Using Evolutionary Computing Techniques "
- 4 Place of Research : Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 5 Name and Address of the Guide : Dr. P.K. Sinha  
Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 6 Date of Registration : 15<sup>th</sup> January, 2011
- 7 Date of Re-Registration : 15<sup>th</sup> January, 2016
- 8 Date of Declaration of Result : 17<sup>th</sup> January, 2018



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 41

Date: 23 JAN 2018

  
for Director

Board of Examinations & Evaluation

# The University of Akron

## The Graduate School

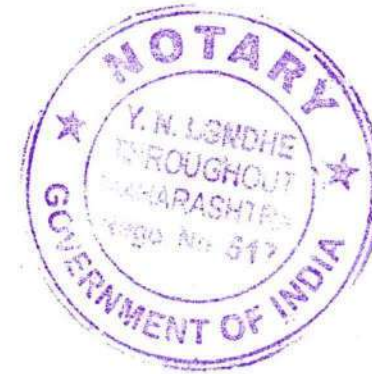
By authority of the Board of Trustees and on recommendation  
of the Faculty hereby confers upon

**Sanju Manohar Sansgiri**

The Degree of

**Doctor of Philosophy**

Together with all the rights and privileges pertaining thereto.  
Witness the seal of the University and the signatures of its officers.  
Given at Akron, in the State of Ohio, this fifteenth day of December, 2001.



**CERTIFIED TRUE COPY  
ATTESTED**

*[Signature]*  
**Y. N. LONDHE  
NOTARY  
GOVT. OF INDIA**

*[Signature]*  
Chairman of the Board of Trustees

*[Signature]*  
Secretary of the Board



*[Signature]*  
President of the University

*[Signature]*  
Vice President for Research and Dean

**महेश काकडे**

बी.ई (सिविल), एम.ई. (स्ट्रक्च.),  
एफ.आय.ई (इंडिया), एम.आय.एस.टी.ई.  
**परीक्षा नियंत्रक**

**Mahesh Kakade**

B. E. (Civil), M. E. (Struc.)  
FIE (INDIA), MISTE

**Controller of Examinations**



Estd. 1962  
'A' Re-accredited by NAAC (2014)  
With CGPA 3.16

**शिवाजी विद्यापीठ,**

कोल्हापूर-४१६ ००४, महाराष्ट्र

**SHIVAJI UNIVERSITY,**

KOLHAPUR - 416 004, MAHARASHTRA

दूरध्वनी (थेट) : २६९३१७६,

२६०९०६७, २६०९०६८

फॅक्स : ००९१-०२३१-२६९०६५५

Phone : (Dir.) 26693176,

2609067, 2609068

Fax : 0091-0231-2690655

Website : www.unishivaji.ac.in

E-mail : coe@unishivaji.ac.in

Ref. No. :

Date :

## Declaration of Result

It is hereby declared that the thesis entitled,

**HEAT TRANSFER ENHANCEMENT USING PERMEABLE FINS**

submitted by, **Shri. Umesh Vandeorao Awasarmol** in **Mechanical Engineering** under the **Faculty of Engineering and Technology** is accepted by the University authorities for the award of the Degree of **Doctor of Philosophy in Mechanical Engineering** under the Faculty of Engineering and Technology on 28/09/2016.

**Controller of Examinations**

No. SU/PG/EXAM/Ph.D./6117

Date: 5 OCT 2016

To,

1. **Shri. Umesh Vandeorao Awasarmol,**  
2 A, Parnakuti Hsg., Soc.,  
Yerwada, Pune. 06
2. **Dr. A. T. Pise, (Guide)**  
Dy. Director & Project Ordinator,  
SPFU, TEQIP (II), Directorate of Technical,  
Education M. S. Mumbai – 400 001.
3. The Librarian, Barr. Balasaheb Khardekar Library, Shivaji University,  
Kolhapur.
4. The Head, Department of Technology, Shivaji University,  
Kolhapur.
5. Statement of Marks / Certificate Unit.
6. Convocation Unit.
7. Statistics Section.
8. UGC Notification File.

# Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and  
Members of the Management Council on  
the recommendation of the Academic Council certify that

*Jitendra Dhondiram Patil*  
*Mother's Name - Kamal*



*has passed the*

*Doctor of Philosophy*

*in Mechanical Engineering*

*in faculty of Science And Technology*

*on 31<sup>st</sup> May, 2018.*

*The said degree has been conferred on him*

*at Kolhapur in the Winter Session*

*of the year two thousand twenty.*

**In Testimony** *whereof are set the seal of the  
university and the signatures of the Registrar and the Vice-Chancellor.*

*Registrar*



*Vice-Chancellor*

Sr.No. :B- 19 : 48901

Scanned with CamScanner





# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Purohit Pritee Manoj, Mother's Name: Vaishali*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*( Metallurgy Engineering (Process Metallurgy) )*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पुरोहित प्रीती मनोज, आईचे नाव: वैशाली

**विद्यावाचस्पती**

( मेटॅलर्जी इंजिनियरिंग (प्रोसेस मेटॅलर्जी) )

पदवीस पात्र झाल्यावढल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

20th January 2018

EN17-00030

*We, the Chancellor,  
the Vice Chancellor and  
the Members of the Management Council  
and the Academic Council of the  
University of Pune certify that*

*Marathe Sujata Vinayak  
Mother's Name :*

*having been examined and found duly  
qualified for the degree of*

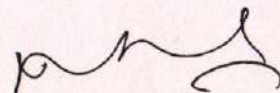
**Doctor of Philosophy**  
(Chemistry)

*The said degree has been conferred on her.*

*In testimony whereof is set  
the seal of the said University.*

14th January 2012

S-SC-00562



Vice Chancellor



**University  
Of  
Pune**

(Formerly  
University of Poona)



**पुणे  
विद्यापीठ**

आम्ही, पुणे विद्यापीठाचे कुलपति,  
कुलगुरु आणि  
व्यवस्थापन परिषद  
व विद्या परिषद सदस्य,  
प्रमाणित करितो की,  
मराठे सुजाता विनायक  
आईचे नाव :

**विद्यावाचस्पति**  
( रसायनशास्त्र )

पदवीस पात्र झाल्याबद्दल त्यांना  
ही पदवी प्रदान करण्यात येत आहे.  
याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा  
येथे अंकित करण्यात येत आहे.



Principal  
Army Institute of Technology  
Tata Hills Pune-411 004



सुभाष चव्हाण

कुलगुरु



सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत (गुजरात, भारत)  
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT (GUJARAT, INDIA)

स्वाती अजय कुलकर्णी

को एतद्वारा स्थापत्य अभियांत्रिकी में

विद्या वाचस्पति

की उपाधि प्रदान करता है।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि,  
आवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा  
दिसम्बर, २०१५ में अपने शोध-निबंध के सफल पक्षपोषण के उपरांत,  
सूरत, भारतीय गणराज्य में आज बाईस जनवरी, २०१७ को दी गई है।

*Upon recommendation of the Senate*

*hereby confers the degree of*

**Doctor of Philosophy**

*in Civil Engineering*

*on*

*Swati Ajay Kulkarni*

*who has fulfilled the requirements for the degree as prescribed under the  
regulations and has successfully defended in December, 2015, the thesis entitled:*  
**Studies on Behaviour of Reduced Beam Section Moment Connections for  
Indian Profiles**

*Given this day, under the seal of the Institute at Surat  
in the Republic of India, the Twenty Second of January, 2017.*



  
Registrar

  
Chairman,  
Senate

  
Chairperson,  
Board of Governors





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Mundhe Ganesh Ashruji** ( मुंढे गणेश आश्रुजी )

**Mothers Name: Pushpa** ( पुष्पा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "On Connectivity and Graphicness of Binary Matroids under Splitting Operations."
4. Place of Research : Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
5. Name and Address of the Guide : Dr. Y. M. Borse,  
Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
6. Date of Registration : 5<sup>th</sup> August, 2013
7. Date of Re-Registration : 5<sup>th</sup> August, 2018
8. Date of Declaration of Result : 30<sup>th</sup> March, 2019



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 168

Date: - 5 APR 2019

For Director

Board of Examinations and Evaluation

# रानी दुर्गावती विश्वविद्यालय, जबलपुर

(NAAC ACCREDITED B<sup>+</sup> UNIVERSITY)



8851

## विद्यावाचस्पति

प्रमाणित किया जाता है कि

कु० सीमा दुबे

को इस विश्वविद्यालय के विज्ञान संकाय के अध्यापक रसायनशास्त्र विभाग में

विद्यावाचस्पति (डॉक्टर ऑफ फिलॉसफी)

की उपाधि से वर्ष २००५ में विभूषित किया गया।

इनकी शोध प्रबन्ध का विषय है

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

*Rani Durgavati Vishwavidyalaya, Jabalpur*

## DOCTOR OF PHILOSOPHY

*This is to certify that*

*Ms. Seema Dubey*

*has been admitted to the degree of*

## DOCTOR OF PHILOSOPHY

*in Chemistry*

*in the Faculty of Science in this University, in the year 2005.*

*The title of her thesis is -*

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

Dr. S. M. Paul Khurana

कुलपति

Vice-Chancellor

जबलपुर, दिनांक : 19 दिसम्बर, 2007

Jabalpur, Dated : 19th December, 2007

*Seyathulla*  
*Adh*



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Ora Shraddha Dinesh, Mother's Name: Usha*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपती, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

**श्रद्धा दिनेश बोझा**, आईचे नाव: उषा

**विद्यावाचस्पती**

इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

118th Convocation (Summer)

EN20-00009



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Bhandari Renuka Gaurav** ( भंडारी रेणुका गौरव )  
**Mother's Name : Jeevanlata** ( जीवनलता )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

- 1 Faculty : Science & Technology
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Investigation of Blind Source Separation Approaches for MIMO Communication Systems"
- 4 Place of Research : Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 5 Name and Address of the Guide : Dr. Mrs. Sangeeta Jadhav  
Department of Electronics & Telecommunication Engineering , ,  
Dr. D.Y. Patil Institute of Technology,  
Pimpri, Pune- 411 018.
- 6 Date of Registration : 15<sup>th</sup> July, 2014
- 7 Date of Declaration of Result : 14<sup>th</sup> September, 2019

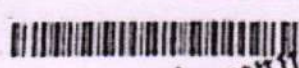


Ganeshkhind, Pune 411007  
Ref. No. PGS/Ph .D. / 486  
Date: 20 SEP 2019

*[Signature]*  
for Director

Board of Examinations & Evaluation

Sr. No. Q1- 0001088



Swami Ramanand Teerth Marathwada University, Nanded



We, the Chancellor, the Vice-Chancellor, Members of  
the Management Council and the Academic Council of the  
Swami Ramanand Teerth Marathwada University, certify that  
the degree of

**Doctor of Philosophy**

*Science & Technology*

*In the faculty of (Computer Science & Engineering)*

*has been conferred on Saphal Ashwini Tukaram*

*on Twenty Eight September Two Thousand Nineteen*

*who has been found duly qualified for the same. In testimony  
whereof is set the seat of the said University.*

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नंदेड

सपकाळ आश्वीनी तुकाराम

हे/ह्या

विद्यावाचस्पती या पदवीस पात्र ठरल्यामुळे त्यांना स्वामी रामानंद तीर्थ मराठवाडा  
विद्यापीठाचे कुलपती, कुलगुरु, व्यवस्थापन परिषद आणि विद्या परिषद सदस्य  
यांच्या अनुमतीने

विद्याशास्त्रांतर्गत

विज्ञान व तंत्रज्ञान ( संगणक शास्त्र व अभियांत्रिकी )

**विद्यावाचस्पती**

ही पदवी दिनांक

अठ्ठावीस सप्टेंबर दोन हजार एकोणीस

रोजी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा

येथे अंकित करण्यात येत आहे.

Date : 28th September, 2019

Place: Nanded, Maharashtra State, India.

Dr. Vidhan V. Bhande  
Vice-Chancellor





**Army Institute Of Technology (AIT),** Dighi Camp, Pune - 15.

Director : 7249250115, Joint Director : 7249250117, Principal : 7249250186

Exch : 7249250183, 7249250184, 7249250185

Website : [www.aitpune.com](http://www.aitpune.com) Email : [ait@aitpune.edu.in](mailto:ait@aitpune.edu.in)

Recognised by AICTE and DTE Maharashtra and affiliated to Savitribai Phule Pune University

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**2.4.2 Percentage of full time teachers with NET/SET/SLET/  
Ph.D. / D.Sc. /D.Litt. /L.L.D. during the last five years**

**2018-19**

Roll No..... 20.....

Regd. No. 98 ਭੁਗਤੀ ਸੀ. (ਊਐੱਚ). 1306



The Senate of  
**GURU NANAK DEV UNIVERSITY**

have conferred upon

ਸ਼੍ਰੀਮਤੀ ਜ਼ਿੰਬਾਬਵੇ ਸ਼੍ਰੀਮਤੀ ਸ਼੍ਰੀਮਤੀ ਨਾਟਲ  
son/daughter of ਸ਼੍ਰੀਮਤੀ ਸ਼੍ਰੀਮਤੀ

the degree of  
**DOCTOR OF PHILOSOPHY**

in the Faculty of ਭਾਸ਼ਾ, ਸਾਹਿਤ ਅਤੇ ਪੜ੍ਹਾਈ (ਫਿਲੋਸੋਫੀ)

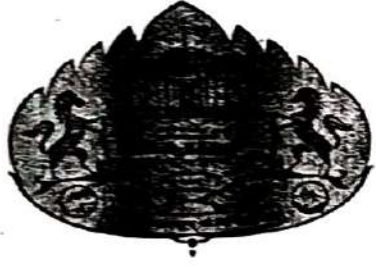
*R. Sawan*

REGISTRAR

*M. S. Seth*  
VICE-CHANCELLOR

*Hardeep*  
CHANCELLOR

Amritsar November 23, 2000.



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Surekha K.S., Mother's Name: Premalata H.K.*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

सुरेखा के. एस., आईचे नाव: प्रेमलता एच. के.

**विद्यावाचस्पती**

( इलेक्ट्रॉनिक्स अँड टेलिकम्युनिकेशन इंजिनिअरिंग )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

11th January 2019

EN18-00041



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Patil Gajanan Rangrao, Mother's Name: Vimal*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*(Electronics & Telecommunication Engineering)*

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पाटील गजानन रंगराव, आईचे नाव: विमल

**विज्ञावाचस्पती**

( इलेक्ट्रॉनिक्स आणि दूरसंचार अभियांत्रिकी )

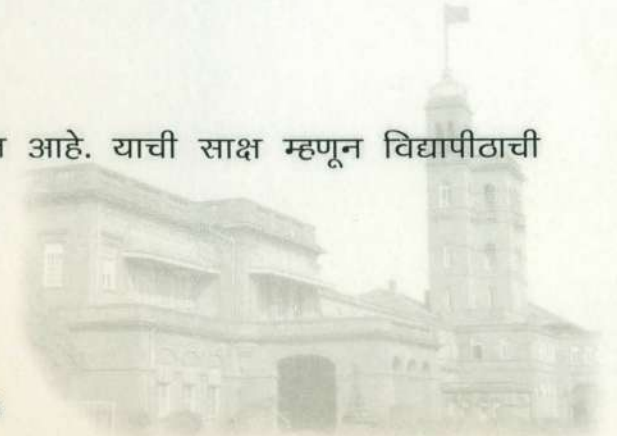
पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

22nd March 2016

EN15-00013



# Savitribai Phule Pune University

(Formerly  
University of Pune)



## सावित्रीबाई फुले पुणे विद्यापीठ

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Karandikar Parashuram Balwant*

*Mother's Name : Bhagyashree*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**  
(Electrical)

*The said degree has been conferred on him. In testimony whereof is set the seal of the said University.*

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

करंदीकर परशुराम बळवंत

आईचे नाव : भाग्यश्री

## विद्यावाचस्पति

( इलेक्ट्रिकल )

पदवीस पात्र झाल्याबद्दल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.

02nd March 2015

EN14-00009

Vice Chancellor

EDP S. No.: 600000297

Regn. cum Roll No.

1205030

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ  
**I.K. Gujral Punjab Technical University Jalandhar**  
Formerly Punjab Technical University Jalandhar



**Doctor of Philosophy**

*The Board of Governors of I.K. Gujral Punjab Technical University, Jalandhar upon the recommendation of the Academic council hereby confers on Mr./Ms Harjeet Kaur Son/Daughter of Sh. Karnail Singh Degree of Doctor of Philosophy in the faculty of ENGINEERING (ELECTRONICS AND COMMUNICATION ENGINEERING) IN JANUARY-2018. The subject on which He/She presented the thesis for the Degree was " PERFORMANCE ANALYSIS OF VARIOUS ALGORITHMS FOR SPEECH ENHANCEMENT. "*

*Given under the seal of the University*

ਰਜਿਸਟਰਾਰ  
Registrar  
Jalandhar, 18-04-2018

ਵਾਈਸ-ਚਾਂਸਲਰ  
Vice-Chancellor

ਚਾਂਸਲਰ  
Chancellor



We,  
the Chancellor, Vice-Chancellor  
and Members of the Management Council of  
**Dr. Babasaheb Ambedkar Marathwada University,**  
Aurangabad (Maharashtra State), India

Certify that the withinsigned

*Sadhar*

----- *Sangeeta Dhamanjay Sadhar* -----  
Student of *Govt. College of Engineering, Ahalad* -----  
who has been found duly qualified for the Degree of  
Doctor of Philosophy (----- *Electronics Engineering* -----)

The Degree of

**Doctor of Philosophy**

(----- *Electronics Engineering* -----)

has been conferred on ----- *her* ----- at Aurangabad, on the  
----- *tenth* ----- day of the month of ----- *March* ----- in the year  
----- *two thousand thirteen* -----

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

Date of Notification *05<sup>th</sup> May 2012.*

Place: Aurangabad

Date of issue of the

Degree Certificate *10 MAR 2013*

*Mr. Pandharipande*

Vice-Chancellor



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Desai Rahul MeJOR**

( देसाई राहुल मेजर )

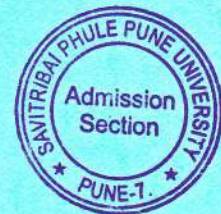
**Mother's Name : Madhuri**

( माधुरी )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Electronics & Telecommunication Engineering
- 3 Title of the Thesis : "Reinforcement learning algorithm for Optimized Routing for Mobile Ad Hoc Network "
- 4 Place of Research : Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 5 Name and Address of the Guide : Dr. B.P. Patil  
Department of Electronics & Telecommunication Engineering,  
STES's Sinhgad College of Engineering  
Vadgaon, Pune – 411 041.
- 6 Date of Registration : 18<sup>th</sup> August, 2012
- 7 Date of Re-Registration : 18<sup>th</sup> August, 2017
- 8 Date of Declaration of Result : 26<sup>th</sup> December, 2017



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 639

Date:

30 DEC 2017

for Director

Board of Examinations & Evaluation





**विज्ञान व तंत्रज्ञान आचार्य**  
**Doctor of Philosophy**  
(Faculty of Science and Technology)

This is to certify that  
*Shri. Sunil Ramdas pant Dhore*  
having been found to be duly qualified on  
examination of the thesis on

*Mobile Agent Approach For Quality Based Web Services Composition*

was admitted to the degree of  
Doctor of Philosophy in the subject Computer Science & Engg.  
in the faculty of Science and Technology in this University in the year 2017.

*Chander*  
Vice-Chancellor

*Amravati:*  
23.02.2018



**NORTH MAHARASHTRA UNIVERSITY**  
Umavinagar, Post Box 80, Jalgaon - 425 001, (M.S.) INDIA

Fax : (91)-0257-2258406  
Website : [www.nmu.ac.in](http://www.nmu.ac.in)  
Email : [bcudresearch@rediffmail.com](mailto:bcudresearch@rediffmail.com)



Telephone : 0257-2257224  
0257-2258409


Grade B (2.88)  
(NAAC Re- ACCREDITED)

**NOTIFICATION**

It is hereby notified for the information of all concerned that the report of the referees appointed to examine and adjudicate the thesis "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*" submitted by the below mentioned candidate, has been accepted by this University and that the said candidate has been declared eligible for the award of Degree of:

**DOCTOR OF PHILOSOPHY (Ph. D.)**  
of the North Maharashtra University.

Name of the Candidate : *Mr. Jayadevan R.*  
Date of Registration : *29.12.2008*  
Topic of Research : "*Development of an Image Processing System for Verification of Hand Printed Signatures and Recognition of Handwritten Information (English, Hindi & Marathi) Present on Indian Bank Cheques*"  
Guide : *Prof. S. R. Kolhe*  
Co-guide : *Dr. P. M. Patil*  
Subject : *Computer Engineering*  
Faculty : *Engineering & Technology*  
Viva-Voce held on : *23.05.2013*

  
(*Prof. D. G. Hudiwale*)  
Director

Board of College and University Development

Ref. No. NMU/11/Ph. D. /Comp. Engg./ 1207 /2013

Date: 30.05.2013

Copy f.w.cs. to:-

1. The University Librarian.
2. The Heads/In-charges of the University Departments/Sections,
3. **Guide :- Prof S. R. Kolhe.** School of Computer Sci.N. M. U. Jalgaon
4. Go-Guide:- Dr. P. M. Patil, Pune
5. **Student:- Mr. Jayadevan R.,**C-201,Achal Leela Khushboo,D. P. Road,Vishal Nagar,Pune
6. **Secretary General,** AIU House,16,Com.Indrajeet Gupta Marg, (Kotla Marg),*New Delhi -02*
7. **The Director,** Information and Library Network Centre, Gujarat University Campus, P.Bo.No.,4116, Navarangpura, *Ahmadabad 380009* (India)(Please find enclosed herewith a CD of PDF soft copy of the thesis.)



# Savitribai Phule Pune University

(formerly University of Pune)

## Declaration of Result of the Doctor of Philosophy (Ph.D.)

**Bansode Nandkumar Krishna** ( बनसोडे नंदकुमार कृष्णा )

**Mother's Name : Yashoda** ( यशोदा )

University has accepted the thesis submitted by the above-mentioned candidate for the award of Ph.D., as per reports of referees and examiners of open defense of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

### RELEVANT DETAILS ARE AS UNDER:

- 1 Faculty : Engineering
- 2 Subject : Computer Engineering
- 3 Title of the Thesis : "Face Sketch Generation Algorithms Based on Text Description Using Evolutionary Computing Techniques "
- 4 Place of Research : Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 5 Name and Address of the Guide : Dr. P.K. Sinha  
Department of Computer Engineering,  
College of Engineering Pune, Shivajinagar,  
Pune - 411 005.
- 6 Date of Registration : 15<sup>th</sup> January, 2011
- 7 Date of Re-Registration : 15<sup>th</sup> January, 2016
- 8 Date of Declaration of Result : 17<sup>th</sup> January, 2018



Ganeshkhind, Pune 411007

Ref. No. PGS/Ph .D. / 41

Date: 23 JAN 2018

for Director

Board of Examinations & Evaluation

# The University of Akron

## The Graduate School

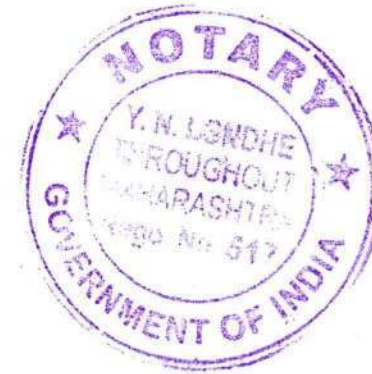
By authority of the Board of Trustees and on recommendation  
of the Faculty hereby confers upon

**Sanju Manohar Sansgiri**

The Degree of

**Doctor of Philosophy**

Together with all the rights and privileges pertaining thereto.  
Witness the seal of the University and the signatures of its officers.  
Given at Akron, in the State of Ohio, this fifteenth day of December, 2001.



**CERTIFIED TRUE COPY  
ATTESTED**

*[Signature]*  
**Y. N. LONDHE  
NOTARY  
GOVT. OF INDIA**

*[Signature]*  
Chairman of the Board of Trustees

*[Signature]*  
Secretary of the Board



*[Signature]*  
President of the University

*[Signature]*  
Vice President for Research and Dean

**महेश काकडे**

बी.ई (सिविल), एम.ई. (स्ट्रक्च.),  
एफ.आय.ई (इंडिया), एम.आय.एस.टी.ई.  
**परीक्षा नियंत्रक**

**Mahesh Kakade**

B. E. (Civil), M. E. (Struc.)  
FIE (INDIA), MISTE

**Controller of Examinations**



Estd. 1962  
'A' Re-accredited by NAAC (2014)  
With CGPA 3.16

**शिवाजी विद्यापीठ,**

कोल्हापूर-४१६ ००४, महाराष्ट्र

**SHIVAJI UNIVERSITY,**

KOLHAPUR - 416 004, MAHARASHTRA

दूरध्वनी (थेट) : २६९३१७६,

२६०९०६७, २६०९०६८

फॅक्स : ००९१-०२३१-२६९०६५५

Phone : (Dir.) 26693176,

2609067, 2609068

Fax : 0091-0231-2690655

Website : www.unishivaji.ac.in

E-mail : coe@unishivaji.ac.in

Ref. No. :

Date :

## Declaration of Result

It is hereby declared that the thesis entitled,

**HEAT TRANSFER ENHANCEMENT USING PERMEABLE FINS**

submitted by, **Shri. Umesh Vandeorao Awasarmol** in **Mechanical Engineering** under the **Faculty of Engineering and Technology** is accepted by the University authorities for the award of the Degree of **Doctor of Philosophy in Mechanical Engineering** under the Faculty of Engineering and Technology on 28/09/2016.

**Controller of Examinations**

No. SU/PG/EXAM/Ph.D./6117

Date: 5 OCT 2016

To,

1. **Shri. Umesh Vandeorao Awasarmol,**  
2 A, Parnakuti Hsg., Soc.,  
Yerwada, Pune. 06
2. **Dr. A. T. Pise, (Guide)**  
Dy. Director & Project Ordinator,  
SPFU, TEQIP (II), Directorate of Technical,  
Education M. S. Mumbai – 400 001.
3. The Librarian, Barr. Balasaheb Khardekar Library, Shivaji University,  
Kolhapur.
4. The Head, Department of Technology, Shivaji University,  
Kolhapur.
5. Statement of Marks / Certificate Unit.
6. Convocation Unit.
7. Statistics Section.
8. UGC Notification File.

# Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and  
Members of the Management Council on  
the recommendation of the Academic Council certify that

*Jitendra Dhondiram Patil*  
*Mother's Name - Kamal*



*has passed the*

*Doctor of Philosophy*

*in Mechanical Engineering*

*in faculty of Science And Technology*

*on 31<sup>st</sup> May, 2018.*

*The said degree has been conferred on him*

*at Kolhapur in the Winter Session*

*of the year two thousand twenty.*

**In Testimony** *whereof are set the seal of the  
university and the signatures of the Registrar and the Vice-Chancellor.*

*Registrar*



*Vice-Chancellor*

Sr.No. :B- 19 : 48901



# Savitribai Phule Pune University

(formerly University of Pune)

*We, the Chancellor, the Vice Chancellor and the Members of the Management Council and the Academic Council of the Savitribai Phule Pune University certify that*

*Purohit Pritee Manoj, Mother's Name: Vaishali*

*having been examined and found duly qualified for the degree of*

**Doctor of Philosophy**

*( Metallurgy Engineering (Process Metallurgy) )*

*The said degree has been conferred on her. In testimony whereof is set the seal of the said University.*

## सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)

आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

पुरोहित प्रीती मनोज, आईचे नाव: वैशाली

**विद्यावाचस्पती**

( मेटॅलर्जी इंजिनिअरिंग (प्रोसेस मेटॅलर्जी) )

पदवीस पात्र झाल्यावढल त्यांना ही पदवी प्रदान करण्यात येत आहे. याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा येथे अंकित करण्यात येत आहे.



Vice Chancellor

20th January 2018

EN17-00030



सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत (गुजरात, भारत)  
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT (GUJARAT, INDIA)

**गडदे आप्पासो मचिंद्र**

को एतद्वारा यांत्रिकी अभियांत्रिकी में

**विद्या वाचस्पति**

की उपाधि प्रदान करता है।

अभिषेद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि, आवृत्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण करने पर तथा अक्टूबर, २०१६ में अपने शोध-निबंध के सफल पक्षपोषण के उपरांत, सूरत, भारतीय गणराज्य में आज ब्राईस जनवरी, २०१७ को दी गई है।

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

**Doctor of Philosophy**

*in Mechanical Engineering*

*on*

**Gadade Appaso Machindra**

*who has fulfilled the requirements for the degree as prescribed under the regulations and has successfully defended in October, 2016, the thesis entitled:*  
**Stochastic Failure Analysis of Laminated Composite Plate Subjected to Different Loading Conditions**

*Given this day, under the seal of the Institute at Surat,  
in the Republic of India, the Twenty Second of January, 2017.*



  
Registrar

  
Chairman,  
Senate

  
Chairperson,  
Board of Governors





*We, the Chancellor,  
the Vice Chancellor and  
the Members of the Management Council  
and the Academic Council of the  
University of Pune certify that*

*Marathe Sujata Vinayak  
Mother's Name :*

*having been examined and found duly  
qualified for the degree of*

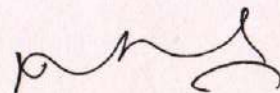
**Doctor of Philosophy**  
(Chemistry)

*The said degree has been conferred on her.*

*In testimony whereof is set  
the seal of the said University.*

14th January 2012

S-SC-00562



Vice Chancellor



**University  
Of  
Pune**

(Formerly  
University of Poona)



**पुणे  
विद्यापीठ**

आम्ही, पुणे विद्यापीठाचे कुलपति,  
कुलगुरु आणि  
व्यवस्थापन परिषद  
व विद्या परिषद सदस्य,  
प्रमाणित करितो की,  
मराठे सुजाता विनायक  
आईचे नाव :

**विद्यावाचस्पति**  
( रसायनशास्त्र )

पदवीस पात्र झाल्याबद्दल त्यांना  
ही पदवी प्रदान करण्यात येत आहे.  
याची साक्ष म्हणून विद्यापीठाची अधिकृत मुद्रा  
येथे अंकित करण्यात येत आहे.



Principal  
Army Institute of Technology  
Tata Hills Pune-411 004



सुनील चव्हाण

कुलगुरु



सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत (गुजरात, भारत)  
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT (GUJARAT, INDIA)

स्वाती अजय कुलकर्णी

को एतद्वारा स्थापत्य अभियांत्रिकी में

विद्या वाचस्पति

की उपाधि प्रदान करता है।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि,  
आवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा  
दिसम्बर, २०१५ में अपने शोध-निबंध के सफल पक्षपोषण के उपरांत,  
सूरत, भारतीय गणराज्य में आज बाईस जनवरी, २०१७ को दी गई है।

*Upon recommendation of the Senate*

*hereby confers the degree of*

**Doctor of Philosophy**

*in Civil Engineering*

*on*

*Swati Ajay Kulkarni*

*who has fulfilled the requirements for the degree as prescribed under the  
regulations and has successfully defended in December, 2015, the thesis entitled:*  
**Studies on Behaviour of Reduced Beam Section Moment Connections for  
Indian Profiles**

*Given this day, under the seal of the Institute at Surat  
in the Republic of India, the Twenty Second of January, 2017.*



  
Registrar

  
Chairman,  
Senate

  
Chairperson,  
Board of Governors





**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph.D.)**

**Mundhe Ganesh Ashruji** ( मुंढे गणेश आश्रुजी )

**Mothers Name: Pushpa** ( पुष्पा )

University has accepted thesis submitted by the above-mentioned candidate for award of Ph. D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above-mentioned candidate is declared to have passed the examination of Ph. D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science and Technology
2. Subject : Mathematics
3. Title of the Thesis : "On Connectivity and Graphicalness of Binary Matroids under Splitting Operations."
4. Place of Research : Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
5. Name and Address of the Guide : Dr. Y. M. Borse,  
Department of Mathematics,  
Savitribai Phule Pune University  
Pune-411007.
6. Date of Registration : 5<sup>th</sup> August, 2013
7. Date of Re-Registration : 5<sup>th</sup> August, 2018
8. Date of Declaration of Result : 30<sup>th</sup> March, 2019



Ganeshkhind, Pune - 411007.

Ref. No. PGS/Ph.D./ 168

Date: - 5 APR 2019

For Director

Board of Examinations and Evaluation

# रानी दुर्गावती विश्वविद्यालय, जबलपुर

(NAAC ACCREDITED B<sup>+</sup> UNIVERSITY)



8851

## विद्यावाचस्पति

प्रमाणित किया जाता है कि

कु० सीमा दुबे

को इस विश्वविद्यालय के विज्ञान संकाय के अध्यापक रसायनशास्त्र विभाग में

विद्यावाचस्पति (डॉक्टर ऑफ फिलॉसफी)

की उपाधि से वर्ष २००५ में विभूषित किया गया।

इनकी शोध प्रबन्ध का विषय है

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

*Rani Durgavati Vishwavidyalaya, Jabalpur*

## DOCTOR OF PHILOSOPHY

*This is to certify that*

*Ms. Seema Dubey*

*has been admitted to the degree of*

## DOCTOR OF PHILOSOPHY

*in Chemistry*

*in the Faculty of Science in this University, in the year 2005.*

*The title of her thesis is -*

"STUDIES ON pH - SENSITIVE POLYMERIC HYDROGELS FOR SITE SPECIFIC DRUG DELIVERY TO THE GASTROINTESTINAL TRACT"

Dr. S. M. Paul Khurana

कुलपति

Vice-Chancellor

जबलपुर, दिनांक : 19 दिसम्बर, 2007

Jabalpur, Dated : 19th December, 2007

*Seyathulla*  
*Adh*