

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

In the faculty of Engineering (Electronics & Computer Science Engg.) has been conferred on Patil Sandip Raosahab on Twenty Fourth March Two Thousand Twelve who has been found duly qualified for the same. In testimony whereof is set the seal of the said University.

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

पाटील संदिप रावसाहेब

हे / ह्या

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

अभियांत्रिकी (अणुविद्युत व संगणकशास्त्र अभियांत्रिकी) विद्याशाखांतर्गत

विद्यावाचस्पती

ही पदवी दिनांक चोवीस मार्च दोन हजार बारा

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

Date of issue: 24th March 2012

Vice-Chancellor



# Bharati Vidyapeeth Deemed University, Pune (India)

(U/s 3 of UGC Act, 1956 Vide Notification No. F.9-15/95-U.3 of the Govt. of India)

Hon'ble Dr. Patangrao Kadam  
M.A., LL.B., Ph.D.  
Chancellor

Prof. Dr. Shivajirao Kadam  
M.Sc., Ph.D.  
Vice Chancellor



Bharati Vidyapeeth Bhavan,  
Lal Bahadur Shastri Marg,  
Pune - 411 030 (INDIA)

Tel : +91-20-24407100, 24325701, 24331317  
Fax : +91-20-24339121, 24321910  
E-mail : bvuniversity@yahoo.co.in  
Web : www.bvuniversity.edu.in

REACCREDITED WITH 'A' GRADE BY NAAC

## NOTIFICATION

This is hereby notified that the thesis submitted by Ms. Suvarna Shankar Patil for an award of Ph.D. degree (Electronics Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Ms. Suvarna Shankar Patil has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Electronics Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. **Name of the Student** : Ms. Suvarna Shankar Patil
2. **Faculty** : Engineering & Technology
3. **Subject** : Electronics Engineering
4. **Title of the thesis** : "Investigations and analyses of Crosstalk and Interference Penalties in All Optical DWDM Systems."
5. **Name and address of the Guide** : Dr. Bharat S. Chaudhari  
International institute of Information  
Technology, Hinjawadi, Pune.
6. **Date of registration** : 07-03-2006
7. **Date of declaration of result** : 17-11-2012

Ref. No. BVDU/2305/2012-2013  
Date:- 19 November 2012

*G. Rajakumar*  
REGISTRAR



PHD-0042



the Chancellor, the Vice-Chancellor, members of the  
Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*Deemed University, Pune (India)*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Electronics Engineering)*

*has been conferred on*

*Suvarna Shankar Patil*

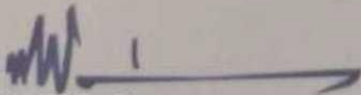
*at Pune, on the*

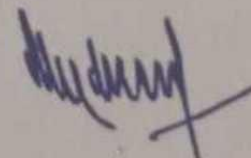
*28th day of the month of December*

*in the year Two Thousand Twelve*

*who has been found duly qualified for the same.*

*In Testimony* whereof are set the Seal of the University and the  
*Signatures of the Chancellor and the Vice-Chancellor.*

  
VICE CHANCELLOR

  
CHANCELLOR



Hon'ble Dr. Patangrao Kadam  
M.A., LL.B., Ph.D.

Chancellor

Prof. Dr. Shivajirao Kadam  
M.Sc., Ph.D.

Vice Chancellor

Bharati Vidyapeeth  
Deemed University, Pune (India)

'A' Grade University Status by MHRD, Govt. of India  
Accredited & Reaccredited with 'A' Grade by NAAC



Bharati Vidyapeeth Bhavan,  
Lal Bahadur Shastri Marg,  
Pune - 411 030 (INDIA)

Tel. : +91-20-24407100, 24325701  
Fax : +91-20-24339121, 24321910  
E-mail : bvuniversity@yahoo.co.in  
Web : www.bvuniversity.edu.in

### NOTIFICATION

This is hereby notified that the thesis submitted by Mrs. Deepali Atul Godse for an award of Ph.D. degree (Computer Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Mrs. Deepali Atul Godse has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Computer Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student : Mrs. Deepali Atul Godse
2. Faculty : Engineering & Technology
3. Subject : Computer Engineering
4. Title of the thesis : "Auto-Detection and monitoring of diabetic retinopathy using super - resolution technique on retinal images."
5. Name and address of the Guide : Dr.Dattatraya S. Bormane  
Flat No. 402 A Kakade City, S.No.  
16/18/19, Karvenagar,  
Kothrud, Pune.
7. Date of registration : 03-01-2009
8. Date of declaration of result : 24-12-2014

**TRUE COPY**

Ref. No. BVDU/ 3116 /2014-2015  
Date:- 26 December 2014

G. Rajeshwar  
REGISTRAR

**PRINCIPAL**

Bharati Vidyapeeth's  
College of Engineering for Women



PHD-0050

the Chancellor, the Vice-Chancellor, members of the  
Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*Deemed University, Pune (India)*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Computer Engineering)*

*has been conferred on*

*Deepali Atul Godse*

*at Pune, on the*

*5th day of the month of January*

*in the year Two Thousand Fifteen*

*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the  
Signatures of the Chancellor and the Vice-Chancellor.*

VICE CHANCELLOR



CHANCELLOR



Hon'ble Dr. Patangrao Kadam  
M.A., LL.B., Ph.D.

Chancellor

Prof. Dr. Shivajirao Kadam  
M.Sc., Ph.D.

Vice Chancellor

## Bharati Vidyapeeth Deemed University, Pune (India)

'A' Grade University Status by MHRD, Govt. of India  
Accredited & Reaccredited with 'A' Grade by NAAC



Bharati Vidyapeeth Bhavan,  
Lal Bahadur Shastri Marg,  
Pune - 411 030 (INDIA)

Tel. : +91-20-24407100, 24325701  
Fax : +91-20-24339121, 24321910  
E-mail : bvuniversity@yahoo.co.in  
Web : www.bvuniversity.edu.in

### NOTIFICATION

This is hereby notified that the thesis submitted by Ms. Sonali Popatrao Kadam for an award of Ph.D. degree (Computer Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Ms. Sonali Popatrao Kadam has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Computer Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student : Ms. Sonali Popatrao Kadam
2. Faculty : Engineering & Technology
3. Subject : Computer Engineering
4. Title of the thesis : "Measuring the impact of software design on software security".
5. Name and address of the Guide : Dr. Shashank D. Joshi  
College of Engineering,  
Pune Satara Road,  
Pune.
6. Date of registration : 16-05-2009
7. Date of declaration of result : 05-10-2015

Ref. No. BVDU/2225/2015-2016  
Date:- 6 October 2015

*G. Raghunath*  
REGISTRAR



PHD-0048



the Chancellor, the Vice-Chancellor, members of the  
Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*Deemed University, Pune (India)*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*

*Ph. D. (Computer Engineering)*

*has been conferred on*

*Sonali Popatrao Kadam*

Scanned at  
Scanner at Pune, on the

*5th day of the month of January*

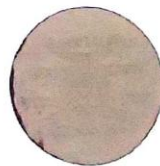
*in the year Two Thousand Sixteen*

*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the*

*Signatures of the Chancellor and the Vice-Chancellor.*

  
VICE CHANCELLOR



  
CHANCELLOR



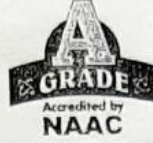
# Bharati Vidyapeeth Deemed University, Pune (India)

'A' Grade University Status by MHRD, Govt. of India  
Accredited & Reaccredited with 'A' Grade by NAAC



Hon'ble Dr. Patangrao Kadam  
M.A., LL.B., Ph.D.  
Chancellor

Prof. Dr. Shivajirao Kadam  
M.Sc., Ph.D.  
Vice Chancellor



Bharati Vidyapeeth Bhavan,  
Lal Bahadur Shastri Marg,  
Pune - 411 030 (INDIA)

Tel. : +91-20-24407100, 24325701  
Fax : +91-20-24339121, 24321910  
E-mail : bvuniversity@yahoo.co.in  
Web : www.bvuniversity.edu.in

## NOTIFICATION

This is hereby notified that the thesis submitted by Mrs. Vijaya Rahul Pawar for an award of Ph.D. degree (Electronics Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Mrs. Vijaya Rahul Pawar has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Electronics Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. **Name of the Student** : Mrs. Vijaya Rahul Pawar
2. **Faculty** : Engineering & Technology
3. **Subject** : Electronics Engineering
4. **Title of the thesis** : "Artificial Neural Network Based Handwritten Script recognition by Using Vector Quantization Method".
5. **Name and address of the Guide** : Prof. Dr. Arun N. Gaikwad  
Research Guide,  
C-302, 'Sai Sadan' Santnagar,  
Armyeshwar, Pune.
6. **Date of registration** : 09-06-2009
7. **Date of declaration of result** : 09-12-2015

Ref. No. BVDU/3227/2015-2016  
Date:- 10 December 2015

*G. N. N. N.*  
REGISTRAR





PHD-0061



the Chancellor, the Vice-Chancellor, members of the  
Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*Deemed University, Pune (India)*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Electronics Engineering)*

*has been conferred on*

*Vijaya Rahul Pawar*

*at Pune, on the*

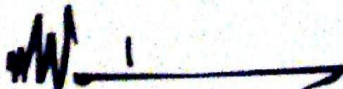
*5th day of the month of January*

*in the year Two Thousand Sixteen*

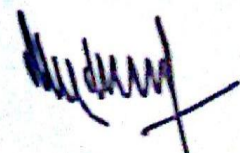
*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the*

*Signatures of the Chancellor and the Vice-Chancellor.*

  
VICE CHANCELLOR



  
CHANCELLOR



# Bharati Vidyapeeth Deemed University, Pune (India)

'A' Grade University Status by MHRD, Govt. of India  
Accredited & Reaccredited with 'A' Grade by NAAC



Hon'ble Dr. Patangrao Kadam  
M.A., LL.B., Ph.D.

Chancellor

Prof. Dr. Shivajirao Kadam  
M.Sc., Ph.D.

Vice Chancellor



Bharati Vidyapeeth Bhavan,  
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Fax : +91-20-24339121, 24321910  
E-mail : bvuniversity@yahoo.co.in  
Web : www.bvuniversity.edu.in

## NOTIFICATION

This is hereby notified that the thesis submitted by Mr. Sushilkumar Mahadeo Rajbhoj for an award of Ph.D. degree (Electronics Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Mr. Sushilkumar Mahadeo Rajbhoj has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Electronics Engineering. This degree will be conferred on him in the next convocation of this University. The relevant details are as follows: -

1. **Name of the Student** : **Mr. Sushilkumar Mahadeo Rajbhoj**
2. **Faculty** : **Engineering & Technology**
3. **Subject** : **Electronics Engineering**
4. **Title of the thesis** : **"An approach of combining fingerprint and IRIS biometric for personal recognition."**
5. **Name and address of the Guide** : **Prof. Dr. Pradeep B. Mane  
Principal,  
AISSMS Institute of Information  
Technology, Near RTO, Shivajinagar,  
Kenady Road, Pune - 411001.**
6. **Date of registration** : **05-06-2009**
7. **Date of declaration of result** : **31-03-2016**

Ref. No. BVDU/ 4843/2015-2016  
Date:- 31 March 2016

*G. Rajkumar*  
REGISTRAR



PHD-0071



We,  
the Chancellor, the Vice-Chancellor, members of the  
Board of Management and the Academic Council of the



*Bharati Vidyapeeth  
Deemed University, Pune (India)*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy  
Ph. D. (Electronics Engineering)*

*has been conferred on*

*Sushilkumar Mahadeo Rajbhoj*

*at Pune, on the*

*4th day of the month of April*

*in the year Two Thousand Seventeen*

*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the  
Signatures of the Chancellor and the Vice-Chancellor.*

VICE CHANCELLOR



CHANCELLOR



# Bharati Vidyapeeth Deemed University, Pune (India)

'A' Grade University Status by MHRD, Govt. of India  
Accredited & Reaccredited with 'A' Grade by NAAC



Hon'ble Dr. Patangrao Kadam  
M.A., LL.B., Ph.D.

Chancellor

Prof. Dr. Shivajirao Kadam  
M.Sc., Ph.D.

Vice Chancellor



Bharati Vidyapeeth Bhavan,  
Lal Bahadur Shastri Marg,  
Pune - 411 030 (INDIA)

Tel. : +91-20-24407100, 24325701

Fax : +91-20-24339121, 24321910

E-mail : bvuniversity@yahoo.co.in

Web : www.bvuniversity.edu.in

## NOTIFICATION

This is hereby notified that the thesis submitted by Ms. Kore Sharada Laxman for an award of Ph.D. degree (Electronics & Telecommunication Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Ms. Kore Sharada Laxman has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Electronics & Telecommunication Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student : Ms. Kore Sharada Laxman
2. Faculty : Engineering & Technology
3. Subject : Electronics & Telecommunication Engineering
4. Title of the thesis : "A Generalized model based approach for writer verification."
5. Name and address of the Guide : Prof. Dr. Shaila D. Apte  
Research Guide,  
A-7, Whispering wind,  
Pashan Baner link Road,  
Near Athashree, Pashan, Pune.
6. Date of registration : 27-02-2009
7. Date of declaration of result : 29-05-2017

Ref. No. BVDU/5327/2016-2017  
Date:- 30 May 2017

*G. Rajkumar*  
REGISTRAR

PHD-0070



the Chancellor, the Vice-Chancellor, the Pro Vice-Chancellor, members  
of the Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*(Deemed to be University) Pune, India*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Electronics & Telecommunication Engineering)*

*has been conferred on*

*Kore Sharada Laxman*

*at Pune, on the*

*22nd day of the month of June*

*in the year Two Thousand Eighteen*

*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the  
Signatures of the Chancellor and the Vice-Chancellor.*



  
VICE CHANCELLOR

  
CHANCELLOR



# Bharati Vidyapeeth Deemed University, Pune (India)

Accredited with 'A' Grade (2017) by NAAC  
'A' Grade University Status by MHRD, Govt. of India  
Accredited (2004) & Reaccredited (2011) with 'A' Grade by NAAC



Hon'ble Dr. Patangrao Kadam  
M.A., LL.B., Ph.D.  
Chancellor

Prof. Dr. Shriyajirao Kadam  
M.A., Ph.D.  
Pro Chancellor

Prof. M. M. Safunkhe  
M.B.A., Ph.D., Ph.D.  
Vice Chancellor



Bharati Vidyapeeth Bhavan,  
Laxmi Nagar, Shriwari Marg,  
Pune - 411 030 (INDIA)


Tel: +91-20-24407100, 24325701  
Fax: +91-20-24339121, 24321910  
E-mail: [bvuniversity@pune.vsnl.net.in](mailto:bvuniversity@pune.vsnl.net.in)  
Web: [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in)

## NOTIFICATION

This is hereby notified that the thesis submitted by Mrs. Dhole Sampada Abhijit for an award of Ph.D. degree (Electronics Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Mrs. Dhole Sampada Abhijit has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Electronics Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student : Mrs. Dhole Sampada Abhijit
2. Faculty : Engineering & Technology
3. Subject : Electronics Engineering
4. Title of the thesis : "Multimodal Biometric identification System using Fusion of Random Subset of Biometrics".
5. Name and address of the Guide : Prof. Dr. Varsha Patil  
Research Guide,  
17, Shreerang, NDCC Bank colony,  
Laxmi Nagar, Patil Lane -1, Vanda corner,  
College Road, Nashik - 422005.
6. Date of registration : 05-08-2010
7. Date of declaration of result : 19-09-2017

Ref. No. BVDU/1659 /2017-2018  
Date:- 19 September 2017

  
REGISTRAR



the Chancellor, the Vice-Chancellor, the Pro Vice-Chancellor, members  
of the Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*(Deemed to be University) Pune, India*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Electronics Engineering)*

*has been conferred on*

*Dhole Sampada Abhijit*

*at Pune, on the*

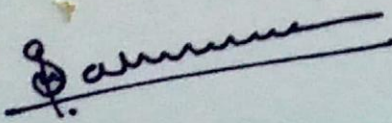
*22nd day of the month of June*

*in the year Two Thousand Eighteen*

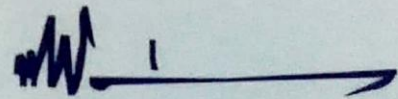
*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the  
Signatures of the Chancellor and the Vice-Chancellor.*





VICE CHANCELLOR



CHANCELLOR



# Bharati Vidyapeeth (Deemed to be University) Pune, India.



**Prof. Dr. Shivajirao Kadam**  
M.Sc., Ph.D.  
Chancellor

**Prof. Dr. M. M. Salunkhe**  
M.Sc., Ph.D., F.R.S.C.  
Vice Chancellor

**Founder Chancellor : Dr. Patangrao Kadam**

- ★ Accredited with 'A+' Grade (2017) by NAAC ★
- ★ Category-I University Status by UGC ★
- ★ NIRF Ranking - 66 ★

"Social Transformation Through Dynamic Education"

**Dr. Vishwajeet Kadam**  
B.Tech., M.B.A., Ph.D.  
Pro Vice Chancellor

**G. Jayakumar**  
M.Com., Dip.Pub.Admn.  
Registrar

## NOTIFICATION

This is hereby notified that the thesis submitted by Mr. Pawar Avinash Manohar for an award of Ph.D. degree (Mechanical Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Mr. Pawar Avinash Manohar has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Mechanical Engineering. This degree will be conferred on his in the next convocation of this University. The relevant details are as follows: -

1. **Name of the Student** : **Mr. Pawar Avinash Manohar**  
+
2. **Faculty** : Engineering & Technology
3. **Subject** : Mechanical Engineering
4. **Title of the thesis** : "An Innovative Approach to Improve the Electrochemical Machining Performance."
5. **Name and address of the Guide** : Prof. Dr. Sachin Chavan  
Research Guide  
College of Engineering,  
Pune -Satara Road,  
Pune.
6. **Date of registration** : 21-11-2011
7. **Date of declaration of result** : 29-03-2019

No. BVDU/5680/2018-2019  
Date: 30 March 2019

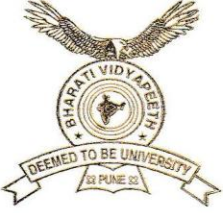
*G. Jayakumar*  
REGISTRAR





PHD-0061

the Chancellor, the Vice-Chancellor, the Pro Vice-Chancellor, members  
of the Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*(Deemed to be University) Pune, India*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Mechanical Engineering)*

*has been conferred on*

*Pawar Avinash Manohar*

*at Pune, on the*

*7th day of the month of April*

*in the year Two Thousand Twenty*

*who has been found duly qualified for the same.*

**In Testimony** whereof are set the Seal of the University and the

**Signatures of the Chancellor and the Vice-Chancellor.**



**VICE CHANCELLOR**





**CHANCELLOR**



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

[www.sathyabama.ac.in](http://www.sathyabama.ac.in)

CENTRE FOR RESEARCH

Date : 16/09/2020

Ref:Sathyabama/Ph.D/Research/Public On-line Viva-Voce/057/2020

## NOTIFICATION

Ph.D Public On-line Viva-Voce Examination

Name of the Candidate : Ms. Naik Ketaki Bhalchandra  
Registration Number : 2013791106  
Category of Registration : Part Time (External)  
Faculty : Computer Science & Engineering  
Title of the Thesis : Self Adaptive Scheduling for Resource Selection in Cloud Environment  
Date and Time : 17/09/2020 & 10.30 AM  
Venue : As per UGC Guidelines on Examination, (D.O.No.F.1-1/2020(Secy), Dt.29<sup>th</sup> April, 2020) Through Official On-line Channel of Sathyabama University -Zoom Platform,  
Meeting ID : 938 9728 0321 Password : 532829  
Meeting Link:<https://zoom.us/j/93897280321?pwd=dzV3cUVtSnpTZ1NOeVhLVkRwZTFkZz09>  
Name of the Supervisor : Dr.G.Meera Gandhi (Supervisor) Dr.Suhas H.Patil, (Joint Supervisor)

*B. Sheela Rani*  
Dr.B.Sheela Rani 6/9/2020  
Director (Research)

CC:

1. Chancellor, Sathyabama Institute of Science and Technology.
2. President, Sathyabama Institute of Science and Technology.
3. Vice Chancellor, Sathyabama Institute of Science and Technology.
4. Pro Vice Chancellors, Sathyabama Institute of Science and Technology.
5. Registrar, Sathyabama Institute of Science and Technology.
6. Director (Administration), Sathyabama Institute of Science and Technology.
7. Controller of Examinations, Sathyabama Institute of Science and Technology.
8. All Deans/Heads of All Schools, Research Centres, Sathyabama Institute of Science and Technology.
9. All Staff Members of Sathyabama Institute of Science and Technology.
10. All Universities in Tamilnadu.
11. Dr.G.Meera Gandhi, Professor, Dept. of CSE, Sathyabama Institute of Science and Technology, Chennai. (Supervisor).
12. Dr.Suhas H.Patil, Professor, Dept. of CSE, Bharati Vidyapeeth College of Engg., Pune-411043.(Joint Supervisor)
13. Dr.Annappa, Professor, Dept. of Computer Science & Engineering, NIT Surathkal, Mangalore .(Indian Examiner).
14. Dr.S.Sudha, Professor, Dept. of Electrical & Electronics Engg., NIT Trichy, Tiruchirappalli.(Foreign Examiner Nominee).
15. Ms. Naik Ketaki Bhalchandra, Research Scholar.
16. Candidate file.



# SATHYABAMA

## INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University Under Section 3 of UGC Act, 1956)



The Board of Management of Sathyabama Institute of Science and Technology hereby makes known that **NAIK KETAKI BHALCHANDRA** has been conferred the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **FACULTY OF COMPUTER SCIENCE AND ENGINEERING**, having been certified by duly appointed examiners to be qualified to receive the same on **SEPTEMBER 2020** for the thesis entitled **SELF ADAPTIVE SCHEDULING FOR RESOURCE SELECTION IN CLOUD ENVIRONMENT** given under the seal of the institution, at Chennai this **EIGHTEENTH** day of **SEPTEMBER 2020**

Given under the seal of the Institution

Vice Chancellor

Chancellor



Dated : September 18, 2020



Jeppiaar Nagar, Chennai-600119,  
Tamil Nadu, INDIA.



# SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re-Accredited by NAAC with 'A' grade (3.58/4) | Awarded Category - I by UGC

Founder : Prof. Dr. S. B. Mujumdar M.Sc. Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

SIU/SCRI/ 2013 / 6.7 / S-018 /


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

Symbiosis International (Deemed University) has accepted the thesis submitted by the mentioned below candidate for award of Ph.D. degree, as per the reports of referees and examiners of the open defense of the thesis.

Accordingly, it is hereby notified that the said candidate is declared to have passed the Ph.D. Degree Examination and has become eligible for the award of the Ph.D. Degree in the ensuing convocation as per UGC regulation on minimum standards and procedure for the award of Ph. D Degree, regulation 2009

1. Faculty : Engineering
2. Sub-stream : Chemistry
3. PRN No : 13079001018
4. Name : Smita Sadanand Jadhav
5. Mother's Name : Shobha
6. Title of the Thesis : Removal of Azo Dyes using Polyaniline and Substituted Polyaniline from Aqueous Solutions
7. Place of Research : Symbiosis International (Deemed University), Pune
8. Name of Research Supervisor : Dr. Dipika Jaspal
9. Designation of Research Supervisor : Professor, Symbiosis Institute of Technology, Pune
10. Date of Confirmation : Thursday, 19 June, 2014
11. Date of Viva-voce : Saturday, 29 January, 2022

Date of Declaration of Result: 15/02/2022  
Place: Pune

  
Registrar  
Symbiosis International (Deemed University)





॥वसुधैव कुटुम्बकम्॥

# SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

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

Re-accredited by NAAC with 'A' Grade (3.58/4) | 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*

*Smita Sadanand Jadhav*

*Mother's Name: Shobha*

*has been examined and found duly qualified for*

*Doctor of Philosophy*

*(Faculty of Engineering)*

*" Removal of Azo Dyes using Polyaniline and Substituted Polyaniline from Aqueous Solutions "*

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

*Vice Chancellor*



*Chancellor*





PHD-0052



the Chancellor, the Vice-Chancellor, the Pro Vice-Chancellor, members  
of the Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*(Deemed to be University) Pune, India*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Information Technology)*

*has been conferred on*

*Thite Sandip Shripati*

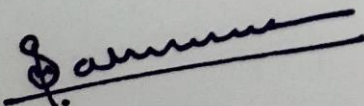
*at Pune, on the*

*16th day of the month of May*

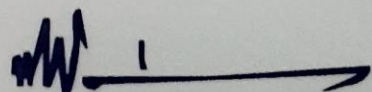
*in the year Two Thousand Twenty Two*

*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the  
Signatures of the Chancellor and the Vice-Chancellor.*



VICE CHANCELLOR



CHANCELLOR



# Bharati Vidyapeeth (Deemed to be University) Pune, India.



**Prof. Dr. Shivajirao Kadam**  
M.Sc., Ph.D.  
Chancellor

**Prof. Dr. M. M. Salunkhe**  
M.Sc., Ph.D., F.R.S.C.  
Vice Chancellor

**Founder Chancellor : Dr. Patangrao Kadam**

- ★ Accredited with 'A+' Grade (2017) by NAAC ★
- ★ Category-I University Status by UGC ★
- ★ NIRF Ranking - 63 ★

**Dr. Vishwajeet Kadam**  
B.Tech., M.B.A., Ph.D.  
Pro Vice Chancellor

**G. Jayakumar**  
M.Com., Dip. Pub. Adm.  
Registrar

"Social Transformation Through Dynamic Education"

## NOTIFICATION

This is hereby notified that the thesis submitted by Mrs. Sumati Manoj Jagdale for an award of Ph.D. degree (Electronics Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Mrs. Sumati Manoj Jagdale has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Electronics Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student : Mrs. Sumati Manoj Jagdale
2. Faculty : Engineering & Technology
3. Subject : Electronics Engineering
4. Title of the thesis : "Robust Speaker Recognition Using Fusion of Low Level and High Level Features Such as Prosodic, Lexical Details."
5. Name and address of the Guide : Dr. Arundhati Shinde  
Research Guide  
College of Engineering,  
Pune -Satara Road,  
Pune.
6. Date of registration : 21-11-2011
7. Date of declaration of result : 12-05-2022

No. BVDU/5815/2021-2022  
Date: 12 May 2022

  
REGISTRAR



PHD-0057

We,

the Chancellor, the Vice-Chancellor, the Pro Vice-Chancellor, members  
of the Board of Management and the Academic Council of the



*Bharati Vidyapeeth*  
*(Deemed to be University) Pune, India*

(Established u/s. 3 of the UGC Act 1956)

*Certify that the Degree of*

*Doctor of Philosophy*  
*Ph. D. (Electronics Engineering)*

*has been conferred on*

*Sumati Manoj Jagdale*

*at Pune, on the*

*16th day of the month of May*

*in the year Two Thousand Twenty Two*

*who has been found duly qualified for the same.*

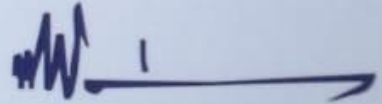
*In Testimony whereof are set the Seal of the University and the*

*Signatures of the Chancellor and the Vice-Chancellor.*



VICE CHANCELLOR





CHANCELLOR





**Prof. Dr. Shivajirao Kadam**  
M.Sc., Ph.D.  
**Chancellor**

**Prof. Dr. Vivek A. Saoji**  
M.B.B.S., M.S.(Surg.)  
**Vice Chancellor**

# **Bharati Vidyapeeth**

(Deemed to be University)  
Pune, India.

**Founder Chancellor : Dr. Patangrao Kadam**

★ Accredited with 'A+' Grade (2017) by NAAC ★  
★ Category-I University Status by UGC ★  
★ NIRF Ranking - 76 ★

"Social Transformation Through Dynamic Education"



**Dr. Vishwajeet Kadam**  
B.Tech., M.B.A., Ph.D.  
**Pro Vice Chancellor**

**G. Jayakumar**  
M.Com., Dip. Pub. Adm.  
**Registrar**

## **NOTIFICATION**

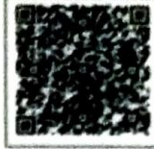
This is hereby notified that the thesis submitted by Ms. Shweta Sadanand Salunkhe for an award of Ph.D. degree (Electronics Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Ms. Shweta Sadanand Salunkhe has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Electronics Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student : **Ms. Shweta Sadanand Salunkhe**
2. Faculty : Engineering & Technology
3. Subject : Electronics Engineering
4. Title of the thesis : "Content Based Image Retrieval: A Hybrid Model Approach."
5. Name and address of the Guide : Dr. Mrs. Shilpa Gaikwad  
Research Guide  
College of Engineering,  
Pune -Satara Road,  
Pune.
6. Date of registration : 01-11-2012
7. Date of declaration of result : 03-12-2022

No. BVDU/3464/2022-2023  
Date: 5 December 2022

*G. Jayakumar*  
REGISTRAR

the Chancellor, the Vice-Chancellor, the Pro Vice-Chancellor, members  
of the Board of Management and the Academic Council of the



**Bharati Vidyapeeth**  
(Deemed to be University),  
Pune, India

*Certify that the Degree of*

***Doctor of Philosophy***  
***Ph.D. (Electronics Engineering)***

*has been conferred on*

***Shweta Sadanand Salunkhe***

*at Pune, on the*

*25th day of the month of May*

*in the year Two Thousand Twenty Three.*

*who has been found duly qualified for the same.*

***In Testimony*** whereof are set the Seal of the University and the  
***Signatures of the Chancellor and the Vice-Chancellor.***

**VICE CHANCELLOR**



**CHANCELLOR**



Prof. Dr. Shivajirao Kadam  
Chancellor

Prof. Dr. Vivek A. Saeji  
Vice Chancellor

# Bharati Vidyapeeth (Deemed to be University) Pune, India.

Founder Chancellor : Dr. Patangrao Kadam

Accredited with 'A' Grade (2017) by NAAC  
Category I University Status by UGC  
NIRF Ranking - 10

"Social Transformation Through Dynamic Education"

Celebrating



and Beyond  
BHARATI VIDYAPEETH

Dr. Vishwajoi Kadam  
B.Tech. MBA. Ph.D.  
Pro Vice Chancellor  
G. Jayakumar  
M.Com. Dip. P. Admin.  
Registrar

## NOTIFICATION

This is hereby notified that the thesis submitted by Ms. Pawar Shital Ashok for an award of Ph.D. degree (Computer Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Ms. Pawar Shital Ashok has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Computer Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student : Ms. Pawar Shital Ashok
2. Faculty : Engineering & Technology
3. Subject : Computer Engineering
4. Title of the thesis : "Evaluation of Quality of Service Parameters for Security Enhancement of IoT Application."
5. Name and address of the Guide : Dr. Suhas H. Patil  
Research Guide  
College of Engineering,  
Pune -Satara Road,  
Pune.
6. Date of registration : 27-09-2017
7. Date of declaration of result : 24-12-2022

No. BVDU/3973/2022-2023  
Date: 28 December 2022

*G. Jayakumar*  
REGISTRAR

the Chancellor, the Vice-Chancellor, the Pro Vice-Chancellor, members  
of the Board of Management and the Academic Council of the



**Bharati Vidyapeeth**  
(Deemed to be University),  
Pune, India

*Certify that the Degree of*

***Doctor of Philosophy***  
***Ph.D. (Computer Engineering)***

*has been conferred on*

***Pawar Shital Ashok***

*at Pune, on the*

*25th day of the month of May*

*in the year Two Thousand Twenty Three.*

*who has been found duly qualified for the same.*

*In Testimony whereof are set the Seal of the University and the  
Signatures of the Chancellor and the Vice-Chancellor.*

VICE CHANCELLOR



CHANCELLOR



# Bharati Vidyapeeth

(Deemed to be University)  
Pune, India.



Prof. Dr. Shivajirao Kadam  
Chancellor M. Ph.D.

Prof. Dr. Vivek A. Saoji  
M.B.B.S., M.S.(Surg.)  
Vice Chancellor

Founder Chancellor: Dr. Patangrao Kadam

A Accredited with 'A\*' Grade (2017) by NAAC  
M Category-I University Status by UGC  
6 NIRF Ranking - 766

Dr. Vishwajeet Kadam  
B.Tech., M.B.A.  
Pro Vice Chancellor

G. Jayakumar  
M.Com., Dip.Pub.Admn  
Registrar

"Social Transformation Through Dynamic Education"

## NOTIFICATION

This is hereby notified that the thesis submitted by Ms. Sayalee Pratap Deshmukh for an award of Ph.D. degree (Computer Engineering) has been accepted by the University on the recommendations made by the referees in their report. The University has also accepted favourable recommendations of examiners of the open defence of the thesis and viva-voce examination of the candidate. It is hereby declared that Ms. Sayalee Pratap Deshmukh has passed the Ph.D. examination and has become eligible for an award of Ph.D. degree in Computer Engineering. This degree will be conferred on her in the next convocation of this University. The relevant details are as follows: -

1. Name of the Student Ms. Sayalee Pratap Deshmukh
2. Faculty Engineering 8s Technology
3. Subject Computer Engineering
4. Title of the thesis "Development of IoT Broker Architecture Algorithm with Protocol Support for Multimodal Communication."
5. Name and address of the Guide Dr. Sandip Vanjale  
Research Guide  
College of Engineering,  
Pune —Satara Road,  
Pune.
6. Date of registration 27-09-2017
7. Date of declaration of result 16-03-2023

No. BVDU/ T/2022-2023  
Date: 20 Mrch 2023

  
REGISTRAR