

# Washtrasant Tukadoji Maharaj Nagpur University

" (Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1984)"



## Doctor of Philosophy (विज्ञान आचार्य) (Faculty of Science)

*This is to certify that  
Shri Amit Nathuram Gupta having been found  
to be duly qualified on examination of the thesis on  
"Synthesis, Characterization and Thermokinetic Studies  
of Polymer Resins" was admitted to the degree of  
Doctor of Philosophy (विज्ञान आचार्य) in the  
Faculty of Science in this University in the  
year 2014.*

Nagpur

Dated : 26-9-2014

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Anoop Kumar  
Vice-Chancellor





# PONDICHERRY UNIVERSITY

(A Central University)  
Pondicherry



## Provisional Certificate

46008

This is to certify that ANBURAJ, R having completed all the requirements relating to Ph.D Degree has been declared eligible for the award of the Degree of Doctor of Philosophy of the University in MECHANICAL ENGINEERING with effect from 30.04.2018.

The title of the Ph.D Thesis is "Study on Influence of Nano Additives in Minimum Quantity Lubrication System in Metal Cutting Operation".

The Degree will be awarded to him/her in due course.

Valid till the original Degree is issued.



ESTABLISHED BY ACT OF  
PARLIAMENT 53 OF 1985

Principal  
J. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Office Seal

Date: 24 MAY 2018

CONTROLLER OF EXAMINATIONS

# Rashtrasant Tukadoji Maharaj Nagpur University

Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 &  
reconstituted by State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. 51 of 2017)

Re-credited 'A' Grade by NAAC



## Doctor of Philosophy (वाणिज्य व व्यवस्थापन आचार्य) (Faculty of Commerce & Management)

*This is to certify that  
Ku. Anjali Mahendra Chandak having been found  
to be duly qualified on examination of the thesis  
entitled "An Evaluation of Credit Finance and the Funding  
Gaps for Micro, Small and Medium Enterprises Sector at  
Nagpur- A Comparative Study in Private & Public Sector  
Banks" was admitted to the degree of Doctor of  
Philosophy (वाणिज्य व व्यवस्थापन आचार्य) in the Faculty  
of Commerce & Management in the Subject of  
Business Administration and Business Management  
in this University in the year 2019.*

Nagpur

Dated : 18-1-2020



*[Signature]*  
Vice-Chancellor

J.D. College of Engineering & Management,  
Khandala, Katol Road,  
Nagpur-441501

*[Signature]*  
Principal  
J.D. College of Engineering & Management,  
Khandala, Katol Road,  
Nagpur-441501

107<sup>th</sup> Convocation 2020

# Rashtrasant Tukadoji Maharaj Nagpur University

"Established by Government of Central Provinces Education Department by Notification No. 573 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1990"



## Doctor of Philosophy (समाजविज्ञान आचार्य) (Faculty of Social Sciences)

*This is to certify that  
Smt. Asha Vyas having been found to be duly qualified  
on examination of the thesis on "Patterns and Problems of  
Health Administration in The Municipal Corporation of  
Nagpur (A Study of Nagpur City)" was admitted to the  
degree of Doctor of Philosophy (समाजविज्ञान आचार्य) in  
the Faculty of Social Sciences in this University in  
the year 2016.*

Nagpur

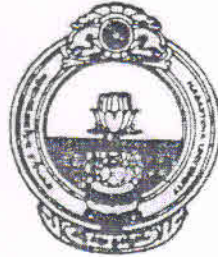
Date: 11-11-2016

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-431501

  
Vice-Chancellor

Reg. No. 96TME 219

# NAGARJUNA UNIVERSITY



## FACULTY OF ENGINEERING

This is to certify that

*Venkata Ramana Bendi*

*has been duly admitted to the  
Degree of Bachelor of Technology  
(Mechanical)*

*in this University, he/she having been declared  
to have passed in First Class with  
Distinction the Examination prescribed  
therefor held in April 192000.*

*Given under the Seal of the University*

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

NAGARJUNANAGAR

The 9 AUG 2000 199

*[Signature]*  
REGISTRAR

# Rashtrasant Tukadoji Maharaj Nagpur University

"(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)"



## Doctor of Philosophy (विज्ञान आचार्य) (Faculty of Science)

*This is to certify that  
Ku. Bhavana Haridas Meshram having been found to  
be duly qualified on examination of the thesis  
on "Development of Biosensors Based on Enzyme  
Immobilized Conducting Polymers" was admitted to the  
degree of Doctor of Philosophy (विज्ञान आचार्य) in  
the Faculty of Science in this University in the  
year 2016.*

Nagpur

Dated : 19-11-2016

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

*S. S. S. S.*  
Vice-Chancellor



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

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\*(Established by Government of Central Provinces Education Department by Notification No.513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017.)

**: NOTIFICATION :**

No.: RTMNU/Ph.D. (Cell)/04/136

\*

Dated : 25 April, 2019

It is notified for general information that the following candidates are hereby declared eligible for the award of Ph.D. Degree in the faculty mentioned against their respective names:

Sr. No.	Name and Address of Candidate	Date of Registration	Date of Thesis/ Treatise Submission	Degree	Faculty	Subject	Title of Thesis/Treatise	Place of Research	Name and Address of Supervisor
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1.	Shri Amit Madhaorao Pant Plot No. 2 Shankar Prasad Society B/H Hotel Barrel Kachimet Area Amravati Road Nagpur	15.07.2011	13.07.2016	Ph.D.	Science & Technology	Pharmaceutical Sciences	"Design, synthesis antiviral and antimicrobial activities of some novel pyrimidine derivatives"	Dept. of Pharmaceutical Science Rashtrasant Tukadoji Maharaj Nagpur University Nagpur	Dr. P.B. Khedekar Dept. of Pharmaceutical Science Rashtrasant Tukadoji Maharaj Nagpur University Nagpur

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441503

Pyle BRM  
3/5

11.	Smt. Rohini Ashish Khaparde 61, Ashirwad Pannase Layout B/H Pannase House Cement Road Bhamti Nagpur	15.07.2011	01.03.2017	Ph.D.	Science & Technology	Physics	"Role of synthesis conditions on properties of Doped-ZnS System : View point of analysis of toxic dyes"	Dept. of Physics Rashtrasant Tukadoji Maharaj Nagpur University Nagpur	Dr. (Smt.) Smita A. Acharya Dept. of Physics Rashtrasant Tukadoji Maharaj Nagpur University Nagpur
12.	Shri Prashant B. Maheshwari C-401, Sanchayani Prestige Swawlambi Nagar Nagpur	15.01.2015	21.07.2017	Ph.D.	Science & Technology	Mechanical Engineering	"Role of cocaine - and amphetamics regulated transcript peptide in the neurobiology of central disorders"	K.D.K. College of Engineering Nagpur	Dr. C.C. Handa Prof. & Head Dept. of Mechanical Engineering K.D.K. College of Engineering Nagpur
13.	Shri Bhushan Ratnakar Mahajan Ruikar Road Wali Bhai Building Mugal Nagpur	13.07.2011	13.06.2017	Ph.D.	Science & Technology	Mechanical Engineering	"Simulation and analysis of vane engine"	B.D. College of Engineering Sewagram Wardha	Dr. S.S. Khandare Principal B.D. College of Engineering Sewagram Wardha Co-Guide Dr. A.V. Vanalkar Dept. of Mechanical Engineering K.D.K. College of Engineering Nagpur

Principal  
D. College of Engineering & Management  
Khandala, Kato Road  
Nagpur-441101





**FACULTY OF ENGINEERING**

*This is to certify that*

**Boddu Raja Sarath Kumar**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

**Computer Science and Systems Engineering**

*in this University, in the Honours being declared to be*

*qualified to receive the same in* **2013**

*Given under the Seal of the University*

Principal  
J. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

  
Vice-Chancellor

Principal, J. D. College

Date: 10<sup>th</sup> February, 2014

# Washtrasant Tukadoji Maharaj Nagpur University



## Doctor of Philosophy (वाणिज्य व व्यवस्थापन आचार्य) (Faculty of Commerce & Management)

*This is to certify that  
Deepshree Dekhane having been found to be  
duly qualified on examination of the thesis entitled  
"Study of emerging E-trends and their implementation and  
impact for the advancement of MBA education in Nagpur"  
was admitted to the degree of Doctor of Philosophy  
(वाणिज्य व व्यवस्थापन आचार्य) in the Faculty of Commerce  
& Management in the Subject of Business  
Administration & Business Management in this  
University in the year 2021.*

Nagpur

Dated: 09-07-2021

Vice-Chancellor

Principal  
P. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

108<sup>th</sup> Convocation 2021

# Rashtrasant Tukadoji Maharaj Nagpur University

"(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)"



## Doctor of Science (अभियांत्रिकी व तंत्रशास्त्र पंडित) (Faculty of Engineering & Technology)

*This is to certify that  
Dr. Jayant Pandurang Modak having been found to be  
duly qualified on examination of his treatise on "Human  
Powered Flywheel Motor : Concept, Design, Dynamics  
and Applications" was admitted to the degree  
of Doctor of Science (अभियांत्रिकी व तंत्रशास्त्र पंडित)  
in the Faculty of Engineering & Technology in  
this University in the year 2016.*

Nagpur

Dated : 19-11-2016

Principal

J.D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441503

Vice-Chancellor

# Rashtrasant Tukadoji Maharaj Nagpur University

"Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)"

Re-accredited 'A' Grade by NAAC



## Doctor of Philosophy (वाणिज्य व व्यवस्थापन आचार्य) (Faculty of Commerce & Management)

*This is to certify that  
Shri Jonathan S. Joseph having been found  
to be duly qualified on examination of the thesis  
entitled "A Study of Job Description and Job Analysis and its  
Impact on Productivity with Specific Reference to Industrial Workers  
of MIDC Area of Nagpur Region (2010-2016)" was  
admitted to the degree of Doctor of Philosophy  
(वाणिज्य व व्यवस्थापन आचार्य) in the Faculty of Commerce  
& Management in the Subject of Business  
Administration and Business Management in this  
University in the year 2018.*

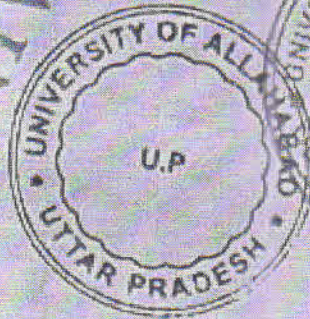
Nagpur

Dated : 19-1-2019

Vice-Chancellor

106<sup>th</sup> Convocation 2019

# UNIVERSITY OF ALLAHABAD



Encl. No. 18752/2013

Roll No. 199

## Doctor of Philosophy

This is to certify that Palla Karunakar Reddy

has been completed the Degree of Doctor of Philosophy in

Computer Science & Engineering in this University

at the Convocation of April-2018


Topic : "Providing Security For Wireless Local Area

Network With Pre Share Key Authentication

Using Advanced Encryption Standard".

Principal  
College of Engineering & Management  
Khandala, Katol Road  
Meerut-201501

University of Allahabad:

  
Controller of Examination  
University of Allahabad  
Uttar Pradesh



Vice-Chancellor.

The 04-May-2018

# Washirasant Tukadoji Maharaj Nagpur University

Established by Government of Central Provinces Education Department by Act No. 10 of 1908 and by Act No. 10 of 1956 & amended by State Government of Maharashtra Public Instruction Act, 1956 (No. 44) and Act No. 10 of 1957

Re-accredited 'A' Grade by NAAC



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

*This is to certify that  
Shri Mahendra Pandharinath Nimkar having been  
found to be duly qualified on examination of the thesis  
entitled "Parametric Studies on Heat Transfer by Natural  
Convection in Plates" was admitted to the degree of  
Doctor of Philosophy (विज्ञान व तंत्रज्ञान आचार्य) in  
the Faculty of Science and Technology in the  
Subject of Mechanical Engineering in this University  
in the year 2018.*

Nagpur

Date: 19.1.2019

Principal  
J. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

*[Signature]*  
Vice Chancellor

106<sup>th</sup> Convocation 2019

11/25/2020

# Rashtrasant Tukadoji Maharaj Nagpur University

Established by Government in 1920 under the provisions of the Government of India Act, 1919. (Amended by Government of India Act, 1956 and Government of India Act, 1957).  
Re-accredited 'A' Grade by NAAC



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

*This is to certify that  
Smt. Mamta Vinod Takarkhede having been  
found to be duly qualified on examination of the  
thesis entitled 'Influence of Synthesis Routes and  
Parameters on Dielectric Properties of Solid Solution of  
PVM, PZM & PJ' was admitted to the degree of  
Doctor of Philosophy (विज्ञान व तंत्रज्ञान आचार्य)  
in the Faculty of Science and Technology in  
the Subject of Physics in this University in the  
year 2020*

Nagpur

Dated: 18.1.2020

*S. Mani*  
Vice-Chancellor

107<sup>th</sup> Convocation 2020

Science &amp; Technology (01) - 18112020029

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441503

Waghtrasant Tukadoji Maharaj  
Nagpur University



Doctor of Philosophy  
(वाणिज्य आचार्य)  
(Faculty of Commerce)

*This is to certify that  
Shri. Manoj Kumar Rao having been found to be  
duly qualified on examination of the thesis on  
"Credit Appraisal and Risk Management System  
Adopted By Bank of India To Finance Small and  
Medium Enterprises" was admitted to the degree of  
Doctor of Philosophy (वाणिज्य आचार्य) in the  
Faculty of Commerce in this University in the  
year 2016.*

Nagpur

Dated : 19-11-2016

*[Signature]*  
Vice-Chancellor

Principal

J. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501



No. 257833



அண்ணாமலைப் பல்கலைக்கழகம்

ANNAMALAI UNIVERSITY

பொறியியற்புலம்

FACULTY OF ENGINEERING & TECHNOLOGY

அக்டோபர், 2018 இல்

இயந்திரப் பொறியியல்

பிரிவில் நடந்திய தேர்வுகளில்

செல்வம் மெ

தேர்ச்சியைந்து ஆய்வேளை மதிப்பீடு முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவின் சான்றிதழ். ஆய்வியல் அறிஞர் மட்டம் பெறுவதற்கு சரியவர் ஆக்ஷரா என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக் குழு இணவழி அறிவிக்கின்றது.

The Syndicate of the ANNAMALAI UNIVERSITY hereby makes known that SELVAM M has been admitted to the Degree of DOCTOR OF PHILOSOPHY in MECHANICAL ENGINEERING, he/she having been certified by duly appointed Board of Examiners who valued his/her thesis to be qualified to receive the same in OCTOBER, 2018.

TITLE OF THE THESIS

"PERFORMANCE AND EMISSION ANALYSIS STUDY ON VARIOUS ANIMAL FAT OIL AS BIO-DIESEL"

பல்கலைக்கழக முத்தியை பெறுகின்றது  
Given under the seal of the University



அண்ணாமலைநகரம்  
Annamalainagar

நாள்  
Dated 25/11/2018

Dr. V. Arumugam  
பதிவாளர் (பொறுப்பு)  
Registrar (c)

Principal  
J. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Dr. V. Murugesan  
அண்ணாமலைநகரம்  
Vice-Chancellor

PhD Certificate

# Washtrasant Tukadoji Maharaj Nagpur University

Established by Government of Central Provinces Education Department by Notification No. 513 dated the 17th of August 1921 & provided a State University governed by Maharashtra Public Universities Act, 2010 (Mah. Act No. VI of 2010)

Re-accredited 'A' Grade by NAAC



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

*This is to certify that  
Ku. Namrata Vijay Pradnyakar having been found  
to be duly qualified on examination of the thesis  
entitled "Effect of dopants on dielectric optical and domain studies of  
ferroelectric Ba<sub>5</sub>Ti<sub>2</sub>O<sub>12</sub>Cl<sub>4</sub>" was admitted to the degree of  
Doctor of Philosophy (विज्ञान व तंत्रज्ञान आचार्य) in  
the Faculty of Science and Technology in the  
Subject of Physics in this University in the  
year 2018.*

Nagpur

Dated : 19-1-2019

Self Attested  
[Signature]

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur - 441101

[Signature]  
Vice-Chancellor

106<sup>th</sup> Convocation 2019

# Rashtrasant Tukadoji Maharaj Nagpur University

\* Established by Government of Central Provinces Education Department by Notification No. 1111 of 1917  
presently a State University governed by Maharashtra Public Universities Act, No. 15 of 1956

Re-accredited 'A' Grade by NAAC



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

*This is to certify that  
Smt. Nishigandha Jagdish Gawande having been found  
to be duly qualified on examination of the  
thesis entitled "Multicomponent Sorptive Removal of  
Metal Content from Aqueous Solution by Granular  
Activated Carbon" was admitted to the degree of  
Doctor of Philosophy (विज्ञान व तंत्रज्ञान आचार्य) in  
the Faculty of Science and Technology in the  
Subject of Chemistry in this University in the  
year 2017.*

Nagpur

Dated : 3-12-2017

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Vice-Chancellor

104<sup>th</sup> Convocation 2017

*Self assessed*



Sl. No.: 01494

Reg.No.: 09RECS1017

The Board of Management of this University  
hereby makes known that

**Visu .P**

has been admitted to the Degree of  
Doctor of Philosophy

in

**Computer Science and Engineering**

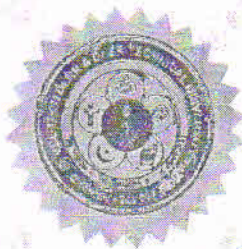
having been certified by duly appointed examiners to be qualified  
to receive the same in the year **Aug - 2013**  
in accordance with the provisions of  
UGC Regulations, 2009 (for award of Ph.D.Degree)

Title of the Thesis:

**Vast Intelligence Swarm Usage Routing Protocol for  
Wireless Ad hoc Network**

Given under the seal of the University

Dated: 09-11-2013



Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Registrar

Vice Chancellor

Chancellor

# Rashtrasant Tukadoji Maharaj Nagpur University

Established by Government of Madhya Pradesh Education Department by Resolution No. 100 dated 19th Feb 1959  
Recognized as State University governed by Maharashtra Public Universities Act 2019 (Mah. Act No. VI of 2019)

Re-accredited 'A' Grade by NAAC



## Doctor of Philosophy (वाणिज्य व व्यवस्थापन आचार्य) (Faculty of Commerce & Management)

*This is to certify that  
Ku. Parvin Tabassum Mohd. Harif Bahma having  
been found to be duly qualified on examination  
of the thesis entitled "Work Life Balance and its Impact  
on Job Satisfaction and Motivation of Health Care,  
Professionals with Respect to Public and Private Hospitals  
in Nagpur District" was admitted to the degree of  
Doctor of Philosophy (वाणिज्य व व्यवस्थापन आचार्य)  
in the Faculty of Commerce & Management in the  
Subject of Business Administration & Business  
Management in this University in the year 2019.*

Nagpur

Dated: 18-1-2020

Principal

Vice-Chancellor

107<sup>th</sup> Convocation 2020

College of Engineering & Management  
Khandala, Katol Road  
Nagpur - 441503

# Rashtrasant Tukadoji Maharaj Nagpur University

Established by Government of Central Provinces Education Department by Notification No. 313 dated the 1<sup>st</sup> of August, 1923 &  
presently a State University governed by Maharashtra Public Universities Act, 2010 (Mah. Act No. VI of 2017)

Re-accredited 'A' Grade by NAAC



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

*This is to certify that  
Shri Prashant Brajmohan Maheshwary having  
been found to be duly qualified on examination of the  
thesis entitled "Experimental optimization of heat transfer  
performance in heat exchanger by using nanofluid" was  
admitted to the degree of Doctor of Philosophy  
(विज्ञान व तंत्रज्ञान आचार्य) in the Faculty of Science and  
Technology in the Subject of Mechanical Engineering  
in this University in the year 2019.*

Nagpur

Dated : 18-1-2020

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441503

*Shri...*  
Vice-Chancellor

107<sup>th</sup> Convocation 2020

Science & Technology/107-1812020/0128

# GONDWANA UNIVERSITY GADCHIROLI

गोंडवाना विद्यापीठ गडचिरोली

M.T.D.C. Road Complex, Gadchiroli - 442 605 (Maharashtra)

(Established by Government of Maharashtra by Notification No. MISC-2007/(322/07) UNI-4 dated the 27th of September 2011  
and a State University presently governed by Maharashtra Universities Act, 1994)

033569



## Doctor of Philosophy

( Faculty of Science & Technology )

( विज्ञान व तंत्रज्ञान आचार्य )

*This is to certify that*  
*Mr. Pravin Ramdas Kshirsagar* having pursued a  
*course of study prescribed by this University and having*  
*passed the requirements by Examination and by thesis*  
*has been admitted to the degree of Doctor of Philosophy*  
*in the Subject Electronics Engineering in the Faculty of*  
*Science & Technology for the Thesis entitled*

*"Prediction of Chaotic Behaviour In Biomedical Signals Using Soft  
Computing Techniques."*

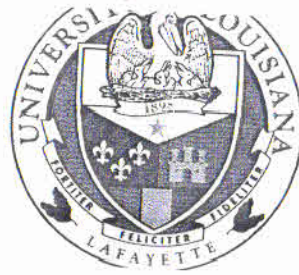
*The Candidate has been declared for the award of the  
Degree of Ph. D. in the year 2018*

Gadchiroli: 31<sup>st</sup> March, 2018

Vice-Chancellor

Principal

D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501



UNIVERSITY OF LOUISIANA AT LAFAYETTE

# Certificate of Completion

presented to

**Dr. Pravin Ramdas Kshirsagar**

**Topic : Explainable artificial intelligence for commercial applications**

Guide - Dr. Martin Margala Co-guide -Dr. Prasun Chakrabarti

Duration - September 01 ,2022 - August 31 , 2023

In recognition of your completed research accomplishments as a post-doctoral fellow at our school for the academic year 2022-2023.

**Dr. Prasun Chakrabarti**, Deputy Provost  
ITM (SLS) Baroda University , INDIA



**Dr. Martin Margala**, Director  
School of Computing and Informatics  
University of Louisiana at Lafayette , USA

**Principal**  
J. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501



# Rashtrasant Tukadoji Maharaj Nagpur University

“(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)”



## Doctor of Philosophy (अभियांत्रिकी आणि तंत्रज्ञान आचार्य) (Faculty of Engineering & Technology)

*This is to certify that  
Shri Sanjay Laxmikant Haridas having been found  
to be duly qualified on examination of the thesis  
on “Power Optimization of Viterbi Decoder for  
Wireless Applications” was admitted to the degree of  
Doctor of Philosophy (अभियांत्रिकी आणि तंत्रज्ञान आचार्य)  
in the Faculty of Engineering & Technology in this  
University in the year 2012.*

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Nagpur

Dated : 1-10-2012

Vice-Chancellor

# Washtrasant Tukadoji Maharaj Nagpur University

Established by Government of Central Provinces Education Department by Notification No. 312 dated the 1<sup>st</sup> of August, 1928 & presently a State University governed by Maharashtra's Universities Act, 1957



## Doctor of Philosophy (अभियांत्रिकी आणि तंत्रज्ञान आचार्य) (Faculty of Engineering & Technology)

*This is to certify that  
Shri Satish Ramratan Vaishnav having been found to  
be duly qualified on examination of the thesis on  
"Some Aspects of Tuning of PID Controller" was  
admitted to the degree of Doctor of Philosophy  
(अभियांत्रिकी आणि तंत्रज्ञान आचार्य) in the Faculty of  
Engineering & Technology in this University in  
the year 2008.*

Principal

College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Nagpur

# Washtrasant Tukadoji Maharaj Nagpur University

"(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)"



## Doctor of Philosophy (अभियांत्रिकी आणि तंत्रशास्त्र आचार्य) (Faculty of Engineering & Technology)

*This is to certify that  
Smt. Shakti Sanjay Awaghad having been found  
to be duly qualified on examination of the thesis  
on "Designing Approach for Transcoding Multimedia  
Over Wireless Channels and It's Applicability for  
Mobile Devices" was admitted to the degree of  
Doctor of Philosophy (अभियांत्रिकी आणि तंत्रशास्त्र आचार्य)  
in the Faculty of Engineering & Technology in this  
University in the year 2015.*

Nagpur

Dated : 29-8-2015

Principal  
P. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

*S. Manoj*  
Vice-Chancellor

# Washirasant Tukadoji Maharaj Nagpur University

Re-accredited 'A' Grade by NAAC



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

*This is to certify that  
Shri Shrikant Vijayram Sonarkar having been found  
to be duly qualified on examination of the thesis  
entitled "Development of an intelligent approach for  
Intrusion Detection in Ad-hoc wireless network" was  
admitted to the degree of Doctor of Philosophy  
(विज्ञान व तंत्रज्ञान आचार्य) in the Faculty of Science and  
Technology in the Subject of Computer Science &  
Technology in this University in the year 2017.*

Nagpur

Dated : 3-12-2017

*S. W. S.*  
Vice-Chancellor

104<sup>th</sup> Convocation 2017

Principal  
C.E.M.S. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441503

# Washtrasant Tukadoji Maharaj Nagpur University

"(Established by Government of Central Provinces Education Department by Notification No. 511 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1956)"



## Doctor of Philosophy (अभियांत्रिकी आणि तंत्रज्ञान आचार्य) (Faculty of Engineering & Technology)

*This is to certify that  
Shri Subhash Rambhau Choudhari having been found  
to be duly qualified on examination of the thesis on  
"Evaluation of Fly Ash & Lime of Vidarbha As  
Alternative Cementing Material in Civil Engineering-  
Constructions" was admitted to the degree of  
Doctor of Philosophy (अभियांत्रिकी आणि तंत्रज्ञान आचार्य)  
in the Faculty of Engineering & Technology  
in this University in the year 2010.*

ATTESTED

*[Signature]*  
Principal (officiating)

J. D. College of Engineering & Management  
Khandala, Katol Road,  
Nagpur-441 501.

Nagpur

Dated : 26-11-2011

*[Signature]*  
Vice-Chancellor

Principal  
J. D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

# Rashtrasant Tukadoji Maharaj Nagpur University

Established by Government of Central Provinces Education Department by Notification No. 613 dated the 1<sup>st</sup> of August 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)

Re-accredited 'A' Grade by NAAC



## Doctor of Philosophy (वाणिज्य व व्यवस्थापन आचार्य) (Faculty of Commerce & Management)

*This is to certify that Surendra Sitaram Jogi having been found to be duly qualified on examination of the thesis entitled "Study of Human resource management in Microfinance institutions with special reference to Maharashtra State (2012 - 2017)" was admitted to the degree of Doctor of Philosophy (वाणिज्य व व्यवस्थापन आचार्य) in the Faculty of Commerce & Management in the Subject of Business Management and Business Administration in this University in the year 2021.*

Nagpur

Dated : 25-05-2022

Principal

D. College of Engineering & Management

Khandala, Arol Road

Nagpur - 441156

Vice-Chancellor

# Rashtrasant Tukadoji Maharaj Nagpur University

(Established by Government of Central Province Education Department by Notification No. 514 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)



## Doctor of Philosophy (वाणिज्य आचार्य) (Faculty of Commerce)

*This is to certify that  
Smt. Swarnalata John Philip having been found  
to be duly qualified on examination of the thesis  
on "A Study of the Impact on the Growth of Banks  
Deposits in Nagpur City Due to Growth in Equity-  
Linked Investments From the Year 2000 to 2007" was  
admitted to the degree of Doctor of Philosophy  
(वाणिज्य आचार्य) in the Faculty of Commerce in  
this University in the year 2012.*

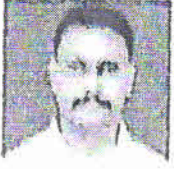
Nagpur

Dated : 26/9/2014

*Anoop Kumar*  
Principal  
College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441503

Vice Chancellor





பொறியியற்பலம்  
FACULTY OF ENGINEERING & TECHNOLOGY

ஜூன் 2016 இல் குடிமுறைபணி பொறியியல் பிரிவில்  
நடத்திய தேர்வுகளில் திருமலை ராஜா இரா தேர்ச்சியடைந்து  
ஆய்வேட்டை மதிப்பிட முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினார்சான்றளித்தபடி  
ஆய்வியல் அறிஞர் பட்டம் பெறுதற்கு உரியவர் ஆகின்றார்  
என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக்குழு இதுன்வழி அறிவிக்கின்றது

The Syndicate of the Annamalai University hereby makes known  
that **THIRUMALAI RAJA R** has been admitted to the  
Degree of **DOCTOR OF PHILOSOPHY** in **CIVIL ENGINEERING**  
he/she having been certified by duly appointed examiners Who Valued  
his/her thests to be qualified to receive the same in **JUNE 2016**.

TITLE OF THE THESIS

EARTH QUAKE RESISTANT DESIGN REINFORCED CONCRETE STRUCTURES

பல்கலைக்கழக முத்திரை பெறுகின்றது  
Given under the seal of the University



Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

Annamalai Nagar - 608002

Dated :- 12/01/2018

Dy. Controller of Examinations (Academic)

Registrar

Vice-Chancellor



Sr. No. 000476



# भारतीय सूचना प्रौद्योगिकी संस्थान, नागपुर

मुरतकर तुषार सुरेश

को एतद् द्वारा अभिषद की अनुशंसा पर आज दि. २८ अक्टूबर २०२२ को  
संस्थान की मुद्रांकित  
आचार्य

उपाधि प्रदान करता है।

इन्होंने विनियमों के अंतरगत आवश्यकताओं को जुलाई २०२२ में पूर्ण  
किया एवं अपने शोधप्रबंध का सफलतापूर्वक पक्षपोषण किया।

## INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, NAGPUR

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

on

**Muratkar Tushar Suresh**

who has fulfilled the requirements as prescribed  
under the regulations and has successfully defended  
the thesis in July 2022 titled

**"Analysis of Ambient Backscatter Communication System Under Time-  
Selective Fading"**

Given this day, 28<sup>th</sup> October 2022

Given under the seal of the Institute.

Principal

J. D. College of Engineering & Management  
Ichandala, Katol Road  
Nagpur-481501



कुलसचिव  
REGISTRAR

अध्यक्ष, अभिषद  
CHAIRMAN, SENATE

अध्यक्ष, शासी मंडल  
CHAIRMAN, BOARD OF GOVERNORS

*Washtrasant Tukadoji Maharaj*  
**Nagpur University**

"Established by Government of Central Provinces Education Department by Notification No. 611 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1956"



**Doctor of Philosophy**  
(*वादिज्य आचार्य*)  
(Faculty of Commerce)

*This is to certify that  
Smt. Ujwala Sanjay Dange having been found to  
be duly qualified on examination of the thesis  
on "The Study of Job Satisfaction of Faculty  
in Engineering College in Vidarbha Region" was admitted  
to the degree of Doctor of Philosophy  
(*वादिज्य आचार्य*) in the Faculty of Commerce in  
this University in the year 2010.*

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441501

*Nagpur*

*Dated : 5-6-2010*

*Vice-Chancellor*

# Bashtrasant Tukadoji Maharaj Nagpur University

"Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)"

Re-accredited 'A' Grade by NAAC in Third Cycle



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

*This is to certify that  
Mr. Umashankarsingh Vikramsingh Rathod  
having been found to be duly qualified on examination of  
the thesis entitled "Electrical, Magnetic and Morphological  
Behavior of  $me_2$ (Me = Al, Ti, In) Substitution on Ba/Sr/  
Ca/Co Hexaferrites at Different Temperatures" was  
admitted to the degree of Doctor of Philosophy  
(विज्ञान व तंत्रज्ञान आचार्य) in the Faculty of Science and  
Technology in the Subject of Physics in this  
University in the year 2020.*

Nagpur

Dated : 09-07-2021

Principal  
J.D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-441503

Vice-Chancellor

108<sup>th</sup> Convocation 2021

# Washtrasant Tukadoji Maharaj Nagpur University

"Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)"

Re-accredited 'A' Grade by NAAC in Third Cycle



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

*This is to certify that  
Ku. Vaishnavi Pralhad Deshpande having been  
found to be duly qualified on examination of the thesis  
entitled "Performance Enhancement of Photovoltaic Array  
by Maximum Power Point Tracking (MPPT) using  
Array Reconfiguration and AI Based Methods" was  
admitted to the degree of Doctor of Philosophy  
(विज्ञान व तंत्रज्ञान आचार्य) in the Faculty of Science and  
Technology in the Electrical Engineering in this  
University in the year 2020.*

Nagpur

Dated : 09-07-2021

Principal  
D. College of Engineering & Management  
Khandala, Katol Road  
Nagpur-471005

Vice-Chancellor

108<sup>th</sup> Convocation 2021

# KARUNYA UNIVERSITY

(Karnataka Institute of Technology and Sciences)  
Karnataka Institute of Technology and Sciences, Karur Road, Nagpur-441501



The Board of Management  
of  
Karunya University  
hereby makes known that

**VENKATESAN S**

has been admitted to the degree of  
**Doctor of philosophy**

in

**COMPUTER SCIENCE AND ENGINEERING**

*Faculty of Engineering*

having been certified by duly appointed examiners to be  
qualified to receive the same in February 2012

*Title of the Thesis:*

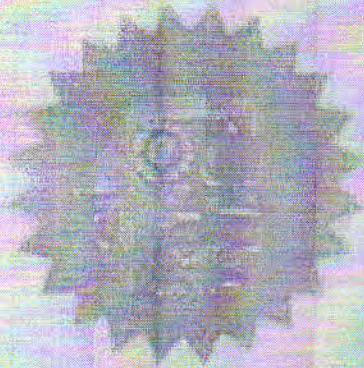
*An High Efficiency Lung Cancer System With 3D-CNN Algorithm*

Given under the seal of the University

Dated: 20<sup>th</sup> June 2012

Principal

D. College of Engineering & Management,  
Khandala, Katol Road  
Nagpur-441501\*



*Chandrasekhar*  
Chancellor

*Srinivasulu*  
Vice-Chancellor

*D. D. Chavan*  
Registrar