



# Institute of Chemical Technology

(University under Section 3 of UGC Act 1956)

## रसायन तंत्रज्ञान संस्था

Elite Status and Centre of Excellence, Government of Maharashtra



Dr.

The Chancellor, Vice Chancellor

and

Members of the Board of Management

confer the Degree of

Doctor of Philosophy

(Technology)

upon

Dipak Karbhari Hirabai Chandre

in the subject of Chemical Engineering

at the Seventh Convocation

held on 23<sup>rd</sup> February, 2018.

Vice Chancellor कुलगुरु

आम्ही.

कुलगुरी, कुलगुरु

आणि

व्यवस्थापन मंडळाचे सदस्य

डॉक्टर ऑफ फिलॉसॉफी

(टेक्नॉलॉजी)

ही पदवी

दिपक कारभारी हिराबाई चंदे

यांना केमिकल इंजिनिअरिंग या विषयात

२३ फेब्रुवारी २०१८ रोजी आयोजित

७ व्या दीक्षांत समारंभाला प्रदान करीत आहोत.



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**INSTITUTE OF CHEMICAL TECHNOLOGY**

**रसायन तंत्रज्ञान संस्था**

University under Section-3 of UGC Act 1956 [Estd. 1933] [NBA Accredited] Grade 'A' by MHRD University For Excellence

**Elite Status & Centre of Excellence - Government of Maharashtra**

Ref.: ICT/ACAD/THR/PH.D./10844

Date : 11<sup>th</sup> March, 2015

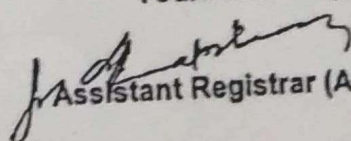
Mr. Dipak Karbhari Chandre  
Department of Chemical Engineering,  
I.C.T., Matunga,  
Mumbai - 400 019.

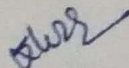
Subject :- Topic Approval for Ph.D.(Tech.) degree in Chemical Engineering

Dear Mr. Chandre,

With reference to your application dated December 05, 2014 about approval of the topic of the thesis for registration to the Ph.D.(Tech.) degree course in Chemical Engineering under the relevant provisions of R.19 of ICT, I am to inform you that the Research Committee for Chemical Engineering and Applied Mathematics, ICT at its meeting held on February 21, 2015 has noted the topic of thesis as "Wastewater Treatment using Novel Approaches". You are now permitted to register for the Ph.D.(Tech.) degree in Chemical Engineering with the said topic. You are requested to submit exact title of your research along with brief summary before the submission of synopsis.

Yours sincerely,

  
Assistant Registrar (Acad.)

  
PRINCIPAL

Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik- 422102





P12 accept for  
24/4/15

**INSTITUTE OF CHEMICAL TECHNOLOGY**  
(University Under Section-3 of UGC Act 1956)  
Elite Status & Centre of Excellence - Government of Maharashtra  
N.M. Parekh Marg., Matunga, Mumbai - 400 019

## REGISTRATION FORM

**MASTER'S/DOCTORAL DEGREE**

FOR OFFICE USE ONLY  
Registration Date \_\_\_\_\_  
Registration No. \_\_\_\_\_

Name of Student (in CAPITAL)		CHANDRE		DIPAK		KARBHARI	
		Surname		First Name		Father/Husband's Name	
Address for Correspondence		S.V.T. Chincholi Sinner Nashik					
City :-		Nashik		State :-		Maharashtra	
E mail :-		dipakchandre@gmail.com		Pin		422102	
				Mob.		9423068548	

Degree (✓ the appropriate box) : Ph.D (Sci) ☐ Ph.D (Tech) ☒ M.Tech ☐ M.Chem.Engg. ☐ M.Pharm ☐ M.E. ☐  
Subject Area: Chemical Technology DepU/Centre: Chemical Engg.


Date of Admission with receipt no. 04/09/2013 : Rec.No:- 13/C9/10764

Qualification on which student has registered for the said course	Examination Passed	Month & Year of Passing	Class	University	Optional Subject
	M.Tech	Sep. 2007	First	Amravati	Chem. Engg.

Provisional Statement of Eligibility issued by ICT (for students with admission qualifications obtained from Other University)	Eligibility Case Number	Date of issue	Name of the course for which issued

Additional Qualifications if any : P.G. Diploma in Piping Design Technology  
The full title of the problem of research : "Wastewater Treatment using Novel Approaches"

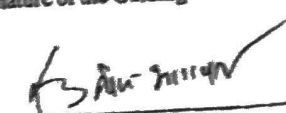
Enclosed herewith is D.D./Pay Order No. 500686 dated 31/3/2015 drawn on Bank SBI, Sinner towards Registration fee and cost of form (Rs.5/-) Total Rs. 825/- for Master's and Rs.1025/- for Ph.D.


Yours faithfully,  
  
(Student's Signature)


### DETAILS OF GUIDING TEACHER

Name of the Guiding Teacher & Department/Centre: Dr. D.V. Pinjari  
Recognition as research supervisor: by way of post \_\_\_\_\_ / additional ; Date of superannuation : \_\_\_\_\_  
Tel No/Mobile: \_\_\_\_\_ Email ID: \_\_\_\_\_  
No. of students at present enrolled for : Master's degree \_\_\_\_\_ Ph. D. \_\_\_\_\_  
I agree to supervise this student for the above thesis project.  
Place: Mumbai  
Date: 23/4/2015

  
Signature of the Guiding teacher

  
Name & Signature with Date  
Head of the Department/Centre Coordinator

  
**PRINCIPAL**  
Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik - 422102

  
Dean (Academic Programme)

24/4/15



**अभियांत्रिकी आचार्य**  
**Doctor of Philosophy**  
(Faculty of Engg. & Tech.)

This is to certify that

*Shri. Bhausaheb Lahanu Pangarkar*

having been found to be duly qualified on  
examination of the thesis on

*Design And Development Of Multi-Effect  
Membrane Distillation Process For  
Wastewater Treatment*


was admitted to the degree of  
**Doctor of Philosophy** in the subject **Chemical Tech.**  
in the faculty of **Engg. & Tech.** in this University in the year **2017**  
**TRUE COPY**

  
**Principal**

**Sir Visvesvaraya Institute of Technology**  
Chincholi, Nashik-422102

*Amravati:*  
**23 FEB 2017**



  
**Vice-Chancellor**



**Sir Visvesvaraya Institute of Technology**  
Chincholi, Nashik-422102

# SANT GADGE BABA AMRAVATI UNIVERSITY

Tele (O) : 0721-2552520  
Email :- drphdcell@sgbau.ac.in

No.SGBAU/Ph.D/864/2014  
Dated : 10/12/2014.

To,

✓ Shri. Bhausaheb L. Pangarkar  
06, Shiv Pratik Apartment,  
Shivram Nagar, Takali Road,  
Jail Road, Nashik - 422101  
(Nasik-Road)

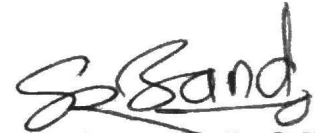
It is to inform you that the topic of your research proposal under the supervisor as mentioned below has been accepted by the Research and Recognition Committee under Section 36-A(6)(i) of M.U.Act,1994 for the Subject **Chemical Technology** in the faculty of **Engineering & Technology** on dt. 14.11.2014

Topic	Supervisor	Registration No. & Remark
DESIGN AND DEVELOPMENT OF MULTI-EFFECT MEMBRANE DISTILLATION PROCESS FOR WASTEWATER TREATMENT	Dr. S. K. Deshmukh	SGBAU/Ph.D./CHE.TECH/6730/2014 w.e.f. 15.1.2014 File No. 6730

The provisions of the Ordinance No.19 of 2009 as amended by the University from time to time, shall be applicable.

Your registration is subject to compliance with following conditions:-


- 1) Verification of all documents of qualification/eligibility at any time during the period of registration.
- 2) Regular Yearly Retention Fee of Rs.1000/- due on 15<sup>th</sup> January / July will have to pay on or before 31<sup>st</sup> January / July of every year, otherwise Late Fee of Rs.100/- per month will be charged.
- 3) Submission of Yearly Progress Report of your research work duly signed by your supervisor along with Retention Fee receipt.
- 4) You will have to submit the Ph.D. Thesis within SIX years from the date of registration (i.e. on or before 15.1.2020). After expiry of the stipulated period, your registration shall stand cancelled.



Assistant Registrar (Ph.D. Cell)  
S.G.B. Amravati University, Amravati.

Copy to :-

Dr. S.K. Deshmukh  
Associate Professor,  
Dept. of Chem. Tech.  
Jawaharlal Darda  
Inst. Of Engg. & Tech. Yavatmal.

  
PRINCIPAL  
Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik-422102

Dr. Babasaheb Ambedkar Technological University

We,

the Chancellor, Vice-Chancellor  
and Members of the Executive Council  
Certify that

Talnikar Vivek Digambar  
having been examined and found duly qualified  
for the degree of

Doctor of Philosophy

in the Faculty of Engineering & Technology of this University  
in November-2016. The said Degree has been conferred on him at  
Lonere in the State of Maharashtra, in the Republic of India  
on Friday, November 25, 2016.

In testimony whereof we set seal of the said  
University and signature of the Vice-Chancellor.



*[Signature]*

Vice-Chancellor

डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ

आम्ही,

कुलपती, कुलगुरू  
आणि कार्यकारी परिषदेचे सदस्य  
प्रमाणित करतां की.

तळणीकर विवेक दिगंबर  
हा नोव्हेंबर - २०१६ मध्ये  
आचार्य

ही अभियांत्रिकी आणि तंत्रज्ञान या विद्याशाखेतील पदवी मिळण्यास पात्र आहे.  
ही पदवी भारतीय गणराज्यातील महाराष्ट्र राज्यामधील लोणेरे येथे  
शुक्रवार, भारतीय सौर कार्तिक कृष्ण ११, शके १९३८ रोजी प्रदान करण्यात येत आहे.  
ह्याची साक्ष म्हणून

विद्यापीठाच्या कुलगुरूंची स्वाक्षरी आणि  
विद्यापीठाची मुद्रा येथे अंकित करण्यात येत आहे.



*[Signature]*  
कुलगुरू

PRINCIPAL

Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik-422102



# 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

Bora Abhay Rameshbal, Mother's Name: Vanita

having been examined and found duly qualified for the degree of

Doctor of Philosophy

(Marketing Management)

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)

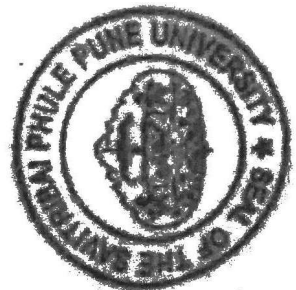
आम्ही, सावित्रीबाई फुले पुणे विद्यापीठाचे कुलपति, कुलगुरु आणि व्यवस्थापन परिषद व विद्या परिषद सदस्य, प्रमाणित करितो की,

बोर अभय रमेशलाल, आईचे नाव: वनीता

विद्यावाचस्पती

( विपणन व्यवस्थापन )

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

MG15-00006

From: Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik- 422102



સરદાર વલ્લભભાઈ રાષ્ટ્રીય પ્રૌદ્યોગિકી સંસ્થાન, સુરત  
**SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT**  
 સરદાર વલ્લભભાઈ રાષ્ટ્રીય પ્રૌદ્યોગિકી સંસ્થા, સુરત

SVNIT

No. Acad/Ph.D./223

Date: 16/09/2015

**PH.D. NOTIFICATION NO.223**

Ref: As per Ph.D. Viva-Voce Examination Report of Chairman dtd: 04/09/2015

It is hereby notified that on recommendation of the Board of Examiners appointed to adjudicate on the thesis entitled **Noise Analysis of Non-Linear Dynamic Circuits Using Stochastic Differential Equations** submitted by **Gawalwad Balaji Ganpatrao (DS10EL704)** of **Electrical Engineering Department** is received. The Director is pleased to accept the reports of the Board of Examiners and declare him eligible for the award of **Degree of Doctor of Philosophy (Ph.D.)** in the Subject / Faculty / Department shown again his name as hereunder:

Name of the Candidate	Faculty	Subject	Name of the Guide
Gawalwad Balaji Ganpatrao	Engineering	Electrical	Dr. S.N. Sharma

*[Signature]*  
 DY. REGISTRAR (ACAD) 16/9

c.c.to:

- ✓(1) Conc. Candidate : Gawalwad Balaji Ganpatrao
- (2) Conc. Supervisor : Dr. S.N. Sharma, Asso.Professor,  
Supervisor, EED, SVNIT, Surat.
- (3) Conc. Department: Electrical Engineering Department

*[Signature]*  
 PRINCIPAL

Sir Visvesvaraya Institute of Technology  
 Chincholi, Nashik-422102





**अभियांत्रिकी आचार्य**  
**Doctor of Philosophy**  
(Faculty of Engineering and Technology)

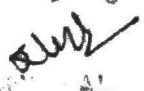
This is to certify that

*Shri. Ganesh Bhausaheb Shinde*

having been found to be duly qualified on  
examination of the thesis on

*Transesterification By Reactive Distillation For  
Synthesis And Characterization Of Biodiesel*

was admitted to the degree of  
**Doctor of Philosophy** in the Faculty of Engineering and Technology  
in this University in the year 2013

  
Principal  
Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik-422102

# National Institute of Technology, Warangal

upon the recommendation of the Senate  
hereby confers the degree of

*Doctor of Philosophy*

on

Shelke Santosh Nivrutti

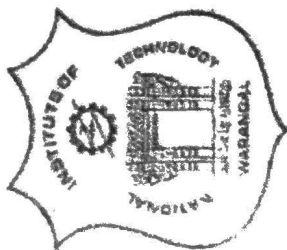
(Roll No: 700304)

who has successfully completed the prescribed requirements for the award of the  
degree and passed the examination in March, 2013 in the Department of

*Mechanical Engineering*

Given under the seal of the Institute at Warangal  
in the Republic of India on the Fifteenth day of October Two Thousand Thirteen

Title of the Thesis: Identification and loss optimization in radial magnetic bearing using  
genetic algorithms.



Principal

Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik - 422102



ATTESTED

*[Signature]*

PRINCIPAL

GES R H Sarat College of Engg  
Mgt Studies & Research  
Pun T A Kurkum Vidya Nagar Nashik

CHAIRMAN  
BOARD OF GOVERNORS

*[Signature]*

*[Signature]*

DIRECTOR &  
CHAIRMAN, SENATE

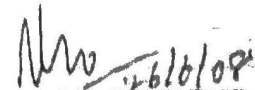


**NATIONAL INSTITUTE OF TECHNOLOGY**  
**WARANGAL - 506 004 (A.P)**

**ENROLMENT SLIP (P.H.D. COURSES 2008-09)**

Date: 26.06.2008.

1	Name of the Candidate	Shelke Santosh Nivrutti
2	Registration Number	SC361
3	Admission No. allotted	200804
4	Course into which admitted	Ph.D (Mechanical) Part-time
5	Registration of course work	17 <sup>th</sup> & 18 <sup>th</sup> July, 2008
6	Commencement of class work	21 July, 2008

  
SUPERINTENDENT  
ACADEMIC SECTION

To be submitted in duplicate (02 copies)

D B C FORM



**NATIONAL INSTITUTE OF TECHNOLOGY  
WARANGAL - 506 004**

DEPARTMENT Mechanical Engineering

Ref No \_\_\_\_\_ Dated 5<sup>th</sup> August 2008

1. Name of the Scholar: SHEELKE SANTOSH NIVRUTTI

2. Date of Joining: 17<sup>th</sup> July 2008

3. Department: Mechanical Engineering

4. Category under which admitted: Scholar under Sponsorship

(Indicate whether an Institute Scholar or Scholar under Sponsorship / Scheme / UGC / CSIR / QIP / GOI Scholarship, as the case may be)

5.i) If working in a Scheme / Project, name of the Scheme and Tenure of assignment given to the Scholar \_\_\_\_\_ Tenure \_\_\_\_\_ Year(s) \_\_\_\_\_

ii) If Sponsored, Name of the Sponsoring Agency: Sri Visvesvaraya Memorial College, Nashik

iii) Proposed duration of stay in the Institute From 17<sup>th</sup> July 2008 To 1<sup>st</sup> Dec 2008

iv) Countersignature of the Investigator-in-charge in token of his consent to allow the candidate to supplicate for Ph.D. Degree

P.V. Chalam

At the suggestion of the supervisor for the Research Scholar / Project Assistant / Project Fellow named above the DOCTORAL SCRUTINY COMMITTEE for the scholar is hereby proposed to consist of the following members

The composition of the Doctoral Scrutiny Committee (DSC):

(A) Prof K MADHU MURTHY  
(Head of the Department: Chairman)

(B) Supervisor (s)

1) Prof Dr. P.V. CHALAM MED Professor P.V. Chalam  
Name Dept. Design

2) \_\_\_\_\_  
Name Dept. Design

(C) 01 faculty member from the Department and 1 faculty members from other Departments having expert knowledge of the same / allied area.

Name	Department	Designation
1) <u>Dr. A.V.N. Rao</u>	<u>MED</u>	<u>Professor</u>
2) <u>Dr. M. Sydul</u>	<u>MED</u>	<u>Professor</u>
3) _____	_____	_____

Principal  
PRINCIPAL

(Signature of the Head of the Department)





## MANAV BHARTI UNIVERSITY

(Estd. Under H.P. Govt. Univ. Act No. 22 of 2009 vide Notification No. LLR-D (6)-12/2009-LEG, dated 25th Sept. 2009  
With the right to confer degrees as per Section 2 (f) & 22 (f) of the UGC Act, 1956 vide F.No. 8-6/2010(CPP-1/PU) Govt. of India)

Ref MBU/Acad/Research/ RIOPHME0149  
To,

Date: 25/06/2010

MR AMBAPAS DONGARE  
S/O - DNYANOBA

### Subject : Registration for Ph.D. Degree

In Response to your application dated 10/12/2009 for enrolment as a Research Scholar for the Degree of Ph.D. in this University. I am to inform you that this matter was placed before the Research Degree Committee of Mech Enng. department held on 13/05/2010.

The committee has taken the following decision.

Synopsis approved under the Supervision of Dr G.J. Vixhe patil

Topic: An Evaluation And Investigation Of Tribological Properties of Various Lubricating oils By Using Four Ball Extreme Pressure Oil Testing Machine

You have been registered since 25/06/2010 and your Registration No. is MBU-1010-16001

Please note that your registration as Research Scholar is to be governed as per rules, regulation and ordinances of the University and after every expiry of six month, you will have to submit a report through supervisor, to the Registrar of the University indicating the Progress made in your research.

Registrar (Academic)

Copy to 1 Dr. G. J. Vixhe patil  
2

Note: You have to submit the following at the time of submission of the Thesis.

- Five typed copies of the thesis along with the soft copy.
- Three copies of approved Synopsis.
- Two papers to be published compulsory in reputed International Journals, copy need to be enclosed.

Registrar (Academic)

Laddo, P.O. Sultanpur, Kumarhatti, Solan, HP 173 229

Telefax : 01792-268279, 268280, Mob.: 098050 32938/39/40/41/42  
manavbhartiuniversity@gmail.com ; www.manavbhartiuniversity.edu.in

Principal  
Sir Visvesvaraya Institute of Technology  
Chincholi, Nashik-422102

Reg. No. MBU-1010 -16001

Sr. No. 00003071

(Estd. by State Legislature Act 22 of 2009 and Section 2(f) & 22 of the UGC Act, 1956 Govt. of India)

SOLAN (H.P.)



*We, the Chancellor, the Vice-Chancellor and Member of  
R.D.C. of the Manav Bharti University  
Certify That*

**AMBADAS DNYANOBA DONGARE**

*Having been Examined and found duly qualified for  
the degree of*

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

*Under the faculty and Subject*  
**ENGINEERING - MECHANICAL**

*in the Academic year* **2013-14**

*The said Degree has been conferred on him / her  
by the University as per UGC Regulation 2009.*

*In testimony whereof are set the seal and signature  
of said university and officers.*



*Vice - Chancellor*



*Registrar*

Date : 20/03/2014

MBU-1010-16001

*Principal*  
**PRINCIPAL**  
Sir Visvesvaraya Institute of Technology  
Chincholi, Phone X-422102