



# Visvesvaraya Technological University

"Jnana Sangama", Belgaum - 590 018, Karnataka state.

Dr. K. E. Prakash, B.E., M.E., Ph.D.  
Registrar

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref: VTU/Aca/2013-2014/A7/ 8294-ME

Date: 17 OCT 2013

## OFFICE ORDER

Sub: Registration of Ph.D./M.Sc.(Engg.) by Research from May 2013  
Ref: Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the direction of the Vice-Chancellor, you are hereby permitted to register for pursuing research with the following details:

- |                         |          |   |
|-------------------------|----------|---|
| 1. Name                 | :        | Chethan M R   |
| 2. Programme            | :        | Ph.D.   |
| 3. Full time /Part time | :        | Part Time   |
| 4. Research Centre      | :        | Mechanical  |
| 5. College/Institute    | :        | NCET, Bangalore   |
| 6. Supervisor           | :        | Dr. S G Gopala Krishna  |
| 7. Co-Supervisor        | :        |   |
| 8. Research Topic       | :        | "Study on Dynamic Mechanical Behaviour of Natural areca Leaf Fiber Reinforced Polymer Composites" |
| 9. Approved Course work |          |   |
| Sl.No.                  | Group    | Course work   |
| 1.                      | 11PhD-11 | Research Methodology  |
| 2.                      | 11CAE-22 | Mechanics of Composite materials and Structures   |
| 3.                      | 10MDE-21 | Composites Material Technology  |
| 4.                      | 10MDE-12 | Finite Element Methods  |

This permission for registration is subject to fulfilling the following conditions:

- Submission of a letter confirming acceptance of provisional admission to Ph.D./M.Sc.(Engg.) and an undertaking to abide by rules and regulations of the University stipulated from time to time to the Office of the undersigned, on or before 28<sup>th</sup> Oct 2013, forwarded by the Supervisor and the Head of the Institution in which the Research Centre mentioned above is located.
- Send a DD to VTU for requisite registration fee of ₹ 4000/- drawn in favour of the Finance Officer, VTU, Belgaum

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D.-2011).

Registrar

To,

The candidate

- Copy to, 1. The Research Centre /VTURRC  
2. The Supervisor/Co-Supervisor



# Visvesvaraya Technological University

"Jnana Sangama", Belgaum - 590 018, Karnataka state.

Dr. K. E. Prakash, B.E. M.L. P.R.  
Registrar

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref.: VTU/Aca/2013-2014/A71 8294-ME

Date: 17 OCT 2013

## OFFICE ORDER

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from May 2013  
Ref : Your application for the Ph.D. /M.Sc.(Engg.) by Research.

By the direction of the Vice-Chancellor, you are hereby permitted to register for pursuing research with the following details:

1. Name : Jullya Naik L
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : Mechanical
5. College/Institute : Nagarjuna College of Engineering Technology, Bangalore
6. Supervisor : Dr. N Kapilan
7. Co-Supervisor : -
8. Research Topic : Studies on Effect of Tyre Pyrolysis Oil on Diesel Engine Performance & Emissions

9. Approved Course work

Sl.No.	Group	Course work
1.	11PHD11	Research Methodology
2.	10MTP24	Theory of IC Engines
3.	11APT22	Fuels & Combustion
4.	10MTP253	Alternative Fuels for IC Engines

This permission for registration is subject to fulfilling the following conditions:

1. Submission of a letter confirming acceptance of provisional admission to Ph.D./M.Sc.(Engg.) and an undertaking to abide by rules and regulations of the University stipulated from time to time to the Office of the undersigned, on or before 28<sup>th</sup> Oct 2013, forwarded by the Supervisor and the Head of the Institution in which the Research Centre mentioned above is located.
2. Send a DD to VTU for requisite registration fee of ₹ 4000/- drawn in favour of the Finance Officer, VTU, Belgaum

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D.-2011).

Registrar

To,  
The candidate

- Copy to,
1. The Research Centre /VTURRC
  2. The Supervisor/Co-Supervisor



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. K. E. Prakash, B.E., M.E., Ph.D.  
Registrar

Phone: (0831) 2405408  
Fax : (0831) 2405407

Ref.: VTU/Aca/2013-2014/A71/866

Date: 12 Dec 2014

## OFFICE ORDER

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from May 2014  
Ref : Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : Ravi Y V
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : Mechanical Engg
5. College/Institute : NCET, Bengaluru
6. Supervisor : Dr. N Kapilan
7. Co-Supervisor :
8. Research Topic : "Studies on use of natural fibre composite materials as a replacement for conventionally used materials in few automobile applications"

### 9. Approved Course work

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDME001	Advanced Manufacturing Technology
3.	14PHDME002	Advanced Materials and Processing
4.	14PHDME006	Testing of Materials, Surface Treatment and Finishing

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 29<sup>th</sup> Dec 2014.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹ 4000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite registration fee.

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

Registrar

To,

The candidate

- Copy to.
1. The Research Centre /VTURRC
  2. The Supervisor/Co-Supervisor



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. H. N. Jagannatha Reddy., B.E.M.E., Ph.D.  
Registrar

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref.: VTU/Aca/2016-2017/A7/ME 1118/108

Date: 19 MAY 2017

## OFFICE ORDER

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from June 2016.  
Ref : Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

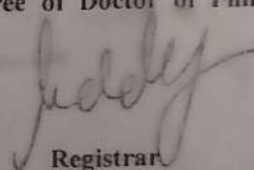
1. Name : **Vijaykumar M Patil**
2. Programme : **Ph.D.**
3. Full time /Part time : **Part Time**
4. Research Centre : **ME**
5. College/Institute : **NCET, Bengaluru**
6. Supervisor : **Dr. N Kapilan**
7. Co-Supervisor : **--**
8. Research Topic : **"Development, Evaluation and Optimisation of Solar Powered Adsorption Refrigerent System with Activated Carbon and Methanol"**
9. Approved Course work  

Sl.No.	Group	Course work
1.	<b>14PHDRM</b>	<b>Research Methodology</b>
2.	<b>14PHDME002</b>	<b>Advanced Materials and Processing</b>
3.	<b>14PHDME004</b>	<b>Elements of Thermal Sciences and Engineering</b>
4.	<b>14PHDAE002</b>	<b>Computational Fluid Dynamics, Combustion &amp; Heat Transfer</b>

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before **29th May 2017**.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹6000/- drawn in favour of the Finance Officer VTU, Belagavi towards requisite registration fee.

**Note:** This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

  
Registrar

To,

The candidate

Copy to: 1. The Research Centre /VTURRC

Sl No	Name of the teacher	Name of the PhD students registered	Dept	Month and Year of registration	Academic Year	Year	Title of the thesis
1	Dr Venkatesh Babu <i>JL</i>	Mr Karthikeyan	CV	2013	2012-13	2013	Study on properties of high volume flyash concrete with polypropylene fibre
2	Dr. K Kumar	Mr. Sudeep Y H	CV	2014	2013-14	2014	Effect of Corrosion on Tall Buildings response to Lateral loads
3	D Rajendra S	Mr. Ramesh S Mr. Arun Kumar C. J.	CV	2015	2015-16	2015	Experimental Investigation of Ultra High strength concrete(UHSC)Incorporating Supplementary Cementing Materials(Meta-kaolin silica fume)and steel fibres
4	D Rajendra S		CV	2015	2015-16	2015	An Experimental study on Steel Fibre Reinforced Concrete Deep Beams with and without Web openings
5	Dr. K Kumar	Ms.S. Jegatha	CV	2016	2015-16	2016	Effect of Climate Change on the Durability of Concrete Infrastructure
6	Dr. K Kumar	Mr. Vinay Kumar S	CV	2016	2016-17	2016	Sustainable Development of Ecofriendly Green concrete by using modified and Activated flyash
7	D Rajendra S	Mrs. Preethi A V	CV	2016	2016-17	2016	Feasibility Studies on the usage of Quarry Dust, Marble Waste, Recycled aggregates, GGBS and Gold Mine Tailings fine aggregates in concrete
8	Dr Venkatesh Babu <i>JL</i>	Mr Sunil RK	CV	2016	2016-17	2016	Investigation of the behaviour of RC column and beam strength with advanced composite system
9	Dr. K Kumar	Mr. Sujith S.K	CV	2017	2017-18	2017	Study on the Effect of Corrosion at the Interface between Steel and Concrete for structural Behaviour
10	Dr. K Kumar	Mr. Ravithel N	CV	2017	2017-18	2017	Study on the Relation between Crack width and Corrosion of Steel in Concrete
11	Dr Chummayi	Ms Malini SP	CV	2017	2017-18	2017	Study on the response of Reinforced Concrete Tall Buildings subjected to Lateral Loads
12	D Rajendra S	Mrs. Chaitra D M	CV	2017	2017-18	2017	Experimental Investigation on Durability properties of HPC using Silica fume and flyash
13	Dr Venkatesh Babu <i>JL</i>	Mr Mahesh HM	CV	2018	2018-19	2018	Optimization of SCC mix proportion with flyash and alccofine using central composite design (CCD)
14	Dr. Nagendra V	NIL	CV				
15	Dr. L Pinky Devi	NIL	CV				
16	Dr TM Mohan Kumar	NIL	CV				

*85 88*  
*ADP/aw*



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. H. N. Jagannatha Reddy, **BE, M.E., Ph.D.**  
Registrar

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref.: VTU/Aca/2016-2017/A7/CV/ 1057/11

Date: 18 MAY 2017

## OFFICE ORDER

Sub : Registration of Ph.D/M.Sc.(Engg.) by Research from June 2016.  
Ref : Your application for the Ph.D /M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : Chaitra D M
2. Programme : Ph.D
3. Full time /Part time : Part Time
4. Research Centre : Civil Engineering
5. College/Institute : NCET, Bengaluru
6. Supervisor : Dr. S Rajendra
7. Co-Supervisor :
8. Research Topic : "Study on Effect of Curing Temperature on Durability Characteristics of High Performance Concrete Incorporating Fly Ash and Silica Fume"
9. Approved Course work  

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDCV002	Structural Engineering
3.	14PHDCV005	Construction Material & Technology
4.	14PHDCV006	Environmental Engineering and Management

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 20th May 2017.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹'6000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite registration fee.

**Note:** This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D 2014)

  
Registrar

To,  
The candidate

- Copy to, 1. The Research Centre /VTURRC  
2. The Supervisor/Co-Supervisor



# Visvesvaraya Technological University

"Jnana Sangama" Belgaum - 590 018, Karnataka state.

Dr. K. E. Prakash, B.E., M.E., Ph.D.  
Registrar

Phone: (0831) 2405468  
Fax : (0831) 2405467

Ref: VTU/Acc/2013-2014/AT/ 10350

Date:

## OFFICE ORDER

12 DEC 2013

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from May 2013  
Ref : Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the direction of the Vice-Chancellor, you are hereby permitted to register for pursuing research with the following details:

1. Name : R M Karthikeyan
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : Civil Engg.
5. College/Institute : VTU-RRC
6. Supervisor : Dr. D L Venkatesh Babu
7. Co-Supervisor :
8. Research Topic : Study on Properties of High Volume Fly Ash Concrete (HVFC) with Polypropylene Fiber
9. Approved Course work  

Sl.No.	Group	Course work
1.	10CCT-13	Advance in Construction Materials
2.	10CCS-31	Earthquake Resistant Design Structures
3.	10CSE-153	Rehabilitation of Structures
4.	10CCS-253	Computer Aided Analysis and Earth Retaining

This permission for registration is subject to fulfilling the following conditions

1. Submission of a letter confirming acceptance of provisional admission to Ph.D./M.Sc.(Engg.) and an undertaking to abide by rules and regulations of the University stipulated from time to time to the Office of the undersigned, on or before 20<sup>th</sup> Dec 2013, forwarded by the Supervisor and the Head of the Institution in which the Research Centre mentioned above is located.
2. Send a DD to VTU for requisite registration fee of ₹ 4000/- drawn in favour of the Finance Officer, VTU, Belgaum

**Note:** This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D.-2011).

Registrar

To,

The candidate

- Copy to, 1. The Research Centre /VTURRC  
2. The Supervisor/Co-Supervisor



# Visvesvaraya Technological University

"Jnana Nangama", Belagavi - 590 018, Karnataka state.

Dr. R. E. Prakash, B.E., M.E., Ph.D.  
Registrar

Phone: (0851) 2405468

Fax : (0851) 2405467

Ref: VTU/Adm/2014-2015/A7/GV/12269

Date:

13 MAR 2015

## OFFICE ORDER

Sub: Registration of Ph.D./M.Sc.(Engg.) by Research from May 2014

Ref: Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : Ramesh S
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : Civil Engg.
5. College/Institute : NCET, Bengaluru
6. Supervisor : Dr. S Rajendra
7. Co-Supervisor :
8. Research Topic : "Experimental Investigations Of Ultra High Strength Concrete (UHSC) Incorporating Supplementary Cementing Materials (Meta- Kaolin Silica Fume) And Steel Fibres"
9. Approved Course work  

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDCV002	Structural Engineering
3.	14PHDCV005	Construction Material And Technology
4.	14PHDCV006	Environmental Engineering And Management

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 25<sup>th</sup> March 2015.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹ 4000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite registration fee.

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHDI4.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2015)

Registrar

To,

The candidate

- Copy to,
1. The Research Centre /V TURRC
  2. The Supervisor/Co-Supervisor





# Jyoti Basavaraaya Technological University

Jnana Sangama, Belagavi - 590 018 , Karnataka State, INDIA

Prof. Satish Annigeri Ph.D

Registrar (Evaluation)

Phone: (0831)2498136

Fax (0831)2405461

Ref. No: VTU/Exam/2019-20/ 324

Date: 18/March/2020

## Office Note

26 MAY 2020

Sub : COMPREHENSIVE VIVA-VOCE Examination Result - reg.

The result of the COMPREHENSIVE VIVA-VOCE Examination is as below;

S.No.	Name	Research Centre	Result
1	Ramesh S 1NC15PCJ01	Nagarjuna College of Engg. & Tech.,Bangalore	Eligible

With this registration of the candidate is confirmed and the suggestion of the examiner made during the comprehensive viva-voce are enclosed here with.

Registrar (Evaluation)  
MAB/BU

### Copy to

- 1) Mr/Mrs. Ramesh S ..., Research Scholar, Dept. of Civil Engineering, Nagarjuna College of Engg, & Tech.,Bangalore
- 2) The Principal , Nagarjuna College of Engg, & Tech.,Bangalore
- 3) DR.S.Rajendra Professor, Dept Of Civil Engineering, Nagarjuna College of Engineering & Technology, Venkatgirikote, Devanhalli, Bangalore



# Visvesvaraya Technological University

Jnana Sangama, Belagavi- 590 018

Prof. Satish Annigeri Ph.D.  
Registrar (Evaluation)

Phone: (0831)2498136  
Fax (0831)2405461

Ref.No/VTU/Exam/2019-20/ 2/110

Date: 18 OCT 2019

## COURSE WORK COMPLETION CERTIFICATE

The candidate Mr. Ramesh S bearing U.S.No. 1NC15PCJ01 has completed four course work subjects as a prerequisite for the Ph.D Programme.

Sl.No	Subject Code	Subject Title	Grade
1	14PHDCV005	Construction Material And Technology	C
2	14PHDCV006	Environmental Engineering And Management	C
3	14PHDRM	Research Methodology	C
4	14PHDCV002	Structural Engineering	C

REGISTRAR (EVALUATION)

Abbreviations for 2012 batch onwards : Grading System -S(Out Standing )-90-100 Marks,  
A(Excellent)- 75-89 Marks, B(Good)- 60-74 Marks, C(Satisfactory)- 50-59 Marks, Below 50 marks F(Fail)

Abbreviations for Candidate admitted before 2012 batch : Grading System -A- 76-100 Marks,  
B- 61-75 Marks, C- 50-60 Marks, Below 50 marks Not Eligible



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. H. N. Jagannatha Reddy, B.E., M.E., Ph.D.  
Registrar

Phone: (0831) 2405488  
Fax : (0831) 2405487

Ref: VTU/Adm/2016-2017/A7/ICV/1057/41

Date: 18 MAY 2017

## OFFICE ORDER

Sub : Registration of Ph.D/M.Sc.(Engg.) by Research from June 2016.  
Ref : Your application for the Ph.D /M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

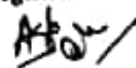
1. Name : Sujith S K
2. Programme : Ph.D
3. Full time /Part time : Part Time
4. Research Centre : Civil Engineering
5. College/Institute : NCET, Bengaluru
6. Supervisor : Dr. K Kumar
7. Co-Supervisor :
8. Research Topic : "Study on the effect of corrosion at the interface between steel and concrete for structural behavior"
9. Approved Course work  

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDCV002	Structural Engineering
3.	14PHDCV005	Construction Material & Technology
4.	14PHDCV006	Environmental Engineering and Management

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 20th May 2017.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹ 6000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite registration fee.

**Note:** This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D 2014)

  
Registrar  


To,  
The candidate

- Copy to,
1. The Research Centre /VTURRC
  2. The Supervisor/Co-Supervisor



Visvesvaraya Technological University  
"Jnana Sangama", Belgaum - 590 018,

Prof. S. A. Kori M.Tech., Ph.D., FIE

REGISTRAR

Phone: (0831) 2405468

Fax: (0831) 2405467

Ref. No VTU/Aca./2011-12/A-7/EL-31/13164

Date 22 FEB 2012

OFFICE ORDER

**Sub :** Registration of Ph.D. /M.Sc.(Engg.) by Research for July 2011 batch..reg.  
**Ref :** Your application for the Ph.D. /M.Sc.(Engg.) by Research.

By the direction of the Vice-Chancellor, **Mr. K V Jyothi Prakash** is hereby permitted to register for pursuing research with the following specifications:


1. Programme : **Ph.D.**
2. Category : **Part Time**
3. Research Centre : **E&C**
4. College/Institute : **NCET, Bangalore**
5. Guide : **Dr. G S Jayadeva**
6. Co-Guide : **-**
7. Research Topic : **Analytical models of MOSFET taking into account Quantum Mechanical (QM) and short channel effects**
8. Approved Course work

S.No	Subject Code	Course
1	05ECD143	VLSI DEISGN
2		MOS DEVICE MODELING
3		SEMICONDUCTOR DEVICE MODELING
4	05EC083	VLSI TECHNOLOGY

This permission for registration is subject to fulfilling the following conditions:

1. Submission of a letter confirming acceptance of provisional admission to Ph.D. / M.Sc.(Engg.) and an undertaking to abide by rules and regulations of the University stipulated from time to time to the Office of the undersigned, on or before **25<sup>th</sup> Feb 2012**, forwarded by the Guide and the Head of the Institution in which the Research Centre mentioned above is located.
2. Send to VTU a DD for requisite registration fee of ₹ **2500/-** drawn in favour of the Finance Officer, VTU, Belgaum.

**Note:** The candidate shall clear the approved course work subjects within two years from the date of registration with a maximum of two attempts per subject.

  
REGISTRAR  
22/2

To,  
Mr. K V Jyothi Prakash

Copy to:

1. ~~The Principal-Research Centre~~
2. ~~The Guide~~



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. H. N. Jagannatha Reddy., B.E., M.E., Ph.D.  
Registrar

Phone: (0831) 2405468  
Fax : (0831) 2405467

Ref.: VTU/Aca/2016-2017/A7/EL 8u11/156

Date: 2 Feb 2017

## OFFICE ORDER

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from June 2016  
Ref : Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : V Harish
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : ECE
5. College/Institute : NCET, Bengaluru
6. Supervisor : Dr. Nagesh K N
7. Co-Supervisor :
8. Research Topic : "Node Isolation Probability evaluation for channel randomness and diversity branches of Ad hoc and Sensor Networks "
9. Approved Course work  

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDEC003	Communication Systems
3.	14PHDEC004	Wireless and Mobile Networks
4.	14PHDIT003	Sensors and Applications

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 10<sup>th</sup> Feb 2017
2. An undertaking to abide by the rules and regulations of the University.
3. DD. of ₹ 6000/- drawn in favour of the Finance Officer VTU, Belagavi towards requisite registration fee.

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD 14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

Registrar

To,

The candidate

- Copy to,
1. The Research Centre /VTU-RRC
  2. The Supervisor/Co-Supervisor

Dr. NAGESH. K.N  
Electronics & Communication  
NA COLLEGE OF ENGINEERING & TECHNOLOGY  
urki Village, Venkatagiri Kotta Road

10/02/2017



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. K. E. Prakash, B.E. M.E., Ph.D.  
Registrar

Phone: (0831) 2405468  
Fax : (0831) 2405467

Ref.: VTU/Aca/2014-2015/A7/EL - 12268

Date:

13 MAR 2015

## OFFICE ORDER

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from May 2014  
Ref : Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : Swetha Vura
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : E&CE
5. College/Institute : NCET, Bengaluru
6. Supervisor : Dr. Premjyoti Patil
7. Co-Supervisor :
8. Research Topic : "Satellite based Lossless image Compression using Wavelet Transform and Combination of Run-Length and Arithmetic Coding"
9. Approved Course work  

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDEC004	Wireless and Mobile Networks
3.	14PHDIT002	Biomedical Image Processing and Applications
4.	14PHDCS001	Advances in Digital Image Processing

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 25<sup>th</sup> March 2015.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹ 4000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite registration fee.

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2015)

Registrar

To,

The candidate

- Copy to,
1. The Research Centre /VTURRC
  2. The Supervisor/Co-Supervisor

ved on  
2/03/15



# Visvesvaraya Technological University

Inana Sangama, Belagavi, Karnataka 590018



Registrar

Phone: (0831) 2405468

Fax: (0831) 2405467

VTU/Ph.D./AC/A7/2019-2020/EL/1733/1

Date: 17, Jun 2019

### OFFICE ORDER

Sub: Regarding of Ph.D./M.Sc.(Engg.) by Research Program.  
Ref: Your application for the Ph.D./M.Sc.(Engg.) by Research Program.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register under VTU for pursuing Ph.D./M.Sc.(Engg.) research Program with the following details:

1. Name	MAHESH M R ✓							
2. Programme	Ph.D							
3. Type	Part Time							
4. Research Centre Department	Electronics and Communication							
5. College/Institute	NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, Bengaluru							
6. Supervisor	DR. T Y SATHEESHA							
7. Co-Supervisor	(No Co-Supervisor)							
8. Research Topic	EARLY DETECTION OF DIABETIC RETINOPATHY IN RETINAL FUNDUS IMAGES WITH THE AID OF MACHINE LEARNING TECHNIQUE.							
9. Constitution of Doctoral committee & approval from University	Ph.D. 3.1.2 Regulations-2017							
10. Proposing Coursework	Course work should be selected and approved by Doctoral Committee as per Ph.D. 14.1 (a) Regulations-2017							
11. Mandatory residence certificate for part time candidates	Ph.D. 15.1 Regulations-2017							
12. Six months Progress Report (From date of Provisional Registration) Ph.D.16 Regulations-2017	1st	2nd	3rd	4th	5th	6th	7th	8th
13. Course work	Ph.D. 14 Regulations-2017							
14. Comprehensive Viva-Voce	Ph.D. 17 Regulations-2017							
15. Conformation of Ph.D Registration	Ph.D. 18 Regulations-2017							
16. Open Seminar (I & II)	Ph.D. 19.1 Regulations-2017							
17. Pre-Submission Colloquium	Ph.D. 19.2 Regulations-2017							
18. Submission of Long Synopsis plagiarism check and Publications	Ph.D. 19.3, Ph.D 19.4 & Ph.D 20 Regulations-2017							
19. Submission of Thesis	Ph.D. 22 Regulations-2017							
20. Final Viva-Voce	Ph.D. 23.7 Regulations-2017							



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ  
Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka State.

Prof. A. S. Deshpande, B.E., M.Tech., Ph.D.  
REGISTRAR

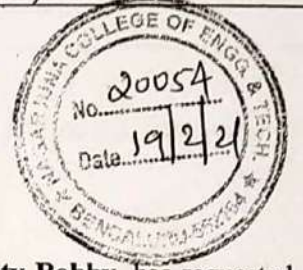
Phone: (0831) 2498100

Fax : (0831) 2405467

Preamble:

Sub: Change of Research Supervisor and Research Center -reg...

Ref: Hon'ble Vice-Chancellor approval dated 10-02-2021.



Yadu Prasad C..(1EP16PEJ03) pursuing research under the guidance of Dr.T.Christy Bobby, has requested for Change of Research Supervisor and Research Center. Based on the recommendations of the Doctoral Committee, No Objection Certificate from the Guides/Centers, and in accordance with the Regulations Governing the Degree of Doctor of Philosophy (Ph.D.), the Change of Research Supervisor and Research Center as requested by the candidate is approved.

Order No: VTU/BGM/Ph.D/Aca/2020-21/10243.

Date: 11 FEB 2021

Pursuant to the approval of the Hon'ble Vice-Chancellor and as per the preamble above, Yadu Prasad C.. (1EP16PEJ03) has been permitted to Change of Research Supervisor and Research Center of her/his Research work.

OLD	NEW
Dr.T.Christy Bobby, East Point College of Engineerin & Technology,Bengeluru 1EP16PEJ03	Dr. H VENKATESH KUMAR, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY,Bengeluru 1NC16PEJ08

The said changes shall be incorporated in all the related documents of the University, with immediate effect.

By Order,

Registrar

To  
Yadu Prasad C..(1EP16PEJ03) Research Scholar

Copy to

1. The Registrar (Evaluation), VTU, Belagavi for information.
2. The Principal, East Point College of Engineerin & Technology,Bengeluru.
3. The Principal, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY,Bengeluru
4. Research Guide – Dr.T.Christy Bobby
5. Research Guide – Dr. H VENKATESH KUMAR.
6. Office copy.





Dr. S. Ponnusamy Ph.D  
Registrar

No. SRMIST/R/Doctoral Committee.5221 - Esst/2021 - 5185

Dt:24/11/2021

Sub: SRMIST Estt. - Constitution of Doctoral Committee for the School of Computing  
-Approval accorded - Regarding  
Ref: Dean, CET Letter Dt. 19/11/2021

\*\*\*\*\*

The Doctoral Committee consisting of the following members for the School of Computing in the Faculty of Engineering and Technology is approved by the Vice Chancellor.

Research Scholar	: Mr. Arun Kumar S (PA2113003013034) ✓
Area of research	: Optimized Learning Model for Brain Computer Interface ✓
Category	: Part-Time (External) ✓
Guide	: Dr. L. Anand ✓ Assistant Professor Department of Networking and Communications SRMIST, Kattankulathur
Expert Member	: Dr. Latha Parthiban ✓ Professor, Department of CSE Pondicherry University, Pudhucherry
Expert Member	: Dr. K. Suganya Devi ✓ Associate Professor Department of CSE, NIT, Silchar, Assam
Chairman of the RCC	: Dr. Revathi Venkataraman ✓ Chairperson, School of Computing SRMIST, Kattankulathur
Ex.Officio Member	: Dr. P. Annapoorani ✓ Associate Professor & Head Department of Networking and Communications SRMIST, Kattankulathur
Research Coordinator	: Dr. Anil Kumar ✓ Associate Professor Department of ISE, Nagarjuna College of Engg. and Tech., Venkatagiri Kote, Bengaluru, Karnataka

Registrar

Registrar

SRM Institute of Science and Technology  
SRM Nagar, Kattankulathur - 603 203  
Chengalpattu Dist. Tamilnadu, India.

To  
Dean CET

Copy to:  
Dean Research  
Controller of Examinations  
HOD/ School of Computing  
Dr. L.Anand, Guide

PC 24/11/21

11/30/21, 3:24 PM

JNANASHODHA



## ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

(“ವಿ ಟ ಯು ಅಧಿನಿಯಮ ೧೯೯೪” ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)  
“ಜ್ಞಾನ ಸಂಗಮ”, ಬೆಳಗಾವಿ-೫೯೦೦೧೮, ಕರ್ನಾಟಕ, ಭಾರತ

## Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)  
“Jnana Sangama” Belagavi-590018, Karnataka, India

### RESEARCH SUPERVISOR FINAL APPLICATION REPORT

REGISTRATION ID	6008	Affix your passport size photo
RESEARCH SUPERVISOR NAME	SANDHYA GURUSWAMY	
AADHAAR NUMBER	633922310976	
MOBILE PHONE NUMBER	9448954475	
EMAIL-ID	sandhyag.pooja@gmail.com	



# Koneru Lakshmaiah Education Foundation

(Deemed to be University established u/s 3 of the UGC Act, 1956)

Campus: Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India. PIN 522 502  
Phone No. 0863 - 2399999, www.kluuniversity.in

**K L E F**

## PROCEEDINGS OF DEAN R&D REGISTRATION NOTICE

KLEF/AR/2018-19/reg/1880465

Date:12-07-2018

To,  
K JEEVAN PRADEEP  
FLAT NO 102 S B H RESIDENCY ,THUMMALAGUNTA,  
THUMMALAGUNTA,CHITTOOR,ANDHRA PRADESH,INDIA.

Dear K JEEVAN PRADEEP,

Subject:- Ph.D.Registration

We are in receipt of the following documents that you have submitted in connection with the registration into a Ph.D program in the Department of "Computer Science and Engineering".

1. A Demand draft number(s) 0192283,019284 drawn on ANDHRABANK,VIJAYAWADA bank Dated 10-07-2018 for 35000/-.
2. Personal declaration (Annexure-AG)
3. Xerox copies of SSC,Inter,UG,PG

We are pleased to inform you that, you have been registered as a **Part time** research scholar in the department of "Computer Science and Engineering" on "12-07-2018".

Name of the Supervisor: Dr. Pragmyaban Mishra  
Name of the External Supervisor (if any):---

You are requested to contact your supervisor for finalization of research plan, and shall submit the same within two months through your supervisor to Doctoral committee.

Best wishes,

*K. Ch. Sri Kayya*  
Dr.K.Ch.Sri Kayya  
Assoc.Dean (AR)

*Dr.K.L.Narayana*  
Dr.K.L.Narayana  
Dean (R&D)

EXALTING EDUCATION, EPITOMISING EXCELLENCE

Admin. Office: 29-36-38, Museum Road, Goverment, Vijayawada, Andhra Pradesh, India. PIN 520 002

Phone No. +91 - 866 - 2577715 | Fax: +91 - 866 - 2577717



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)  
"ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-೫೯೦೦೧೮, ಕರ್ನಾಟಕ, ಭಾರತ

## Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)  
"Jnana Sangama" Belagavi-590018, Karnataka, India

**Prof. A. S. Deshpande, B.E., M.Tech., Ph.D.**  
**REGISTRAR**

Phone: (0831) 2498100

Fax : (0831) 2405467

VTU/BGM/Aca/Ph.D./2020-21/878

Date: December 31, 2021

### Provisional Registration Letter for Ph.D. Degree Programme (Office Order)

**Sub: Provisional Ph.D. Registration reg...**

- Ref:** 1. Notification No. VTU/BGM/Aca/Ph.D./2020-21/847 dated 07-11-2020.  
2. Candidate's ETR Application No. : 2318  
3. Hon'ble Vice Chancellor's Order dated 14-12-2021.

Pursuant to the recommendations of the Admission Committee and approval of Honourable Vice Chancellor, you have been selected for provisional admission to pursue Ph.D. programme under Visvesvaraya Technological University, Belagavi.

The details pertaining to the registration are given below:

Sl.No.	Particulars	
1.	Name of the Candidate	MUTHURAJU V
2.	University Seat Number (USN)	1NT20PCS04
3.	Admission Category of Research Programme (Full Time/Part Time).	Ph.D. - Part Time
4.	Faculty under which the degree will be awarded.	FACULTY OF COMPUTER AND INFORMATION SCIENCES
5.	Name of the Research Center	NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY BANGALORE
6.	Specialization	COMPUTER SCIENCE AND ENGINEERING
7.	Proposed Research Topic / Area.	Sign Language Machine Translation
8.	Name and address of the Research Supervisor.	DR.NALINI N Professor - COMPUTER SCIENCE AND ENGINEERING NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY BANGALORE
*****		

The Research Scholars shall strictly follow the norms of the University with regard to the Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) / M.S. (Research) - 2020 and any other amendments effected from time to time.

**Registrar**

To,

1. MUTHURAJU V, #58, SAPTAGIRI LAYOUT, KATTIGENAHALLI, GOVT HIGH SCHOOL RD, BANGALORE 560064.
2. Principal of the college / Director, Principal or Dean (Architecture)/Chairperson of the University Department/Research Organization where the candidate has to register for admission to Ph.D. programme.

3. To Research Supervisor: DR.NALINI N
4. Office copy.

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Date: **07.06.2021**

Dear S. Arun Kumar

Sub: Provisional registration for Ph.D. Programme – Reg.

I am happy to inform you that you have been provisionally registered for the Ph.D. Programme as a **Part Time(External)** candidate in the Department of Computer Science and Engineering, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur.

You will carry out research under the guidance of **Dr. L. Anand, Assistant Professor, Department of Information Technology**, SRM Institute of Science and Technology, Kattankulathur. You are requested to report to the guide immediately. Admission should be made **join within 10 days after the Lockdown is over in Tamil Nadu.**

**Fee Structure: 1<sup>st</sup> Semester = Rs.25,000/-**

For the **subsequent semesters = Rs. 15,000/-** till the course is completed.

You are requested to pay the 1<sup>st</sup> Semester Fees through online on or before **20<sup>th</sup> June 2021**

**Account Name :** Directorate of Research and Virtual Education

**Account No:** 117001000129114

**IFSC Code :** CIUB0000117

You are also requested to report in person to the guide in the beginning of each semester and submit the semester registration form and the six months progress report in the prescribed formats and the same should be forwarded to the Director (Research) through the HOD and the Concerned Director of the Faculty.

Copy of PG Degree Certificate and Consolidated Grade sheet	2 copies
Copy of the UG Degree Certificate	1 Copy
Xerox Copy of Aadhaar Card	1 No.
Passport Size Photo	1 NO.
Receipt of the Payment	1 NO.

(Prof.B.Neppolian)  
Dean (Research)

To

**Mr. S. Arun Kumar**  
**No.77, 3<sup>rd</sup> Cross parimala nagar**  
**Nandini Layout, Bangalore**  
**Bengaluru Urban, bengaluru**  
**Pin – 560 096**  
**Mobile: 9448475177**  
**Email: aarunkumar889@gmail.com**



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)  
"ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-೫೯೦೦೧೮, ಕರ್ನಾಟಕ, ಭಾರತ

## Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)  
"Jnana Sangama" Belagavi-590018, Karnataka, India

**Prof. A. S. Deshpande, B.E., M.Tech., Ph.D.**  
**REGISTRAR**

Phone: (0831) 2498100

Fax : (0831) 2405467

VTU/BGM/Aca/Ph.D./2020-21/878

Date: December 31, 2021

### Provisional Registration Letter for Ph.D. Degree Programme (Office Order)

**Sub: Provisional Ph.D. Registration reg...**

- Ref:** 1. Notification No. VTU/BGM/Aca/Ph.D./2020-21/847 dated 07-11-2020.  
2. Candidate's ETR Application No. : 3887  
3. Hon'ble Vice Chancellor's Order dated 14-12-2021.

Pursuant to the recommendations of the Admission Committee and approval of Honourable Vice Chancellor, you have been selected for provisional admission to pursue Ph.D. programme under Visvesvaraya Technological University, Belagavi.

The details pertaining to the registration are given below:

Sl.No.	Particulars	
1.	Name of the Candidate	SHIVALINGAPPA
2.	University Seat Number (USN)	1RV20PCS08
3.	Admission Category of Research Programme (Full Time/Part Time).	Ph.D. - Part Time
4.	Faculty under which the degree will be awarded.	FACULTY OF COMPUTER AND INFORMATION SCIENCES
5.	Name of the Research Center	RASHTREEYA VIDYALAYA COLLEGE OF ENGINEERING BANGALORE
6.	Specialization	COMPUTER SCIENCE AND ENGINEERING
7.	Proposed Research Topic / Area.	SECURING PATIENTS DATA THROUGH ENABLING THE TRUSTED METHOD OF BLOCKCHAIN
8.	Name and address of the Research Supervisor.	NAGARAJA G S Professor - COMPUTER SCIENCE AND ENGINEERING RASHTREEYA VIDYALAYA COLLEGE OF ENGINEERING BANGALORE
*****		

The Research Scholars shall strictly follow the norms of the University with regard to the Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) / M.S. (Research) - 2020 and any other amendments effected from time to time.

**Registrar**

To,

1. SHIVALINGAPPA, #37, 2ND FLOOR, K R DEFENCE COLONY PHASE 4, CHEEMASANDRA, VIRGONAGAR POST, BENGALURU EAST, BENGALURU.

2. Principal of the college / Director, Principal or Dean (Architecture)/Chairperson of the University Department/Research Organization where the candidate has to register for admission to Ph.D. programme.
3. To Research Supervisor: NAGARAJA G S
4. Office copy.

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# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

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"ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-೫೯೦೦೧೮, ಕರ್ನಾಟಕ, ಭಾರತ

## Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)  
"Jnana Sangama" Belagavi-590018, Karnataka, India

**Prof. A. S. Deshpande, B.E., M.Tech., Ph.D.**  
**REGISTRAR**

Phone: (0831) 2498100  
Fax : (0831) 2405467

VTU/BGM/Aca/Ph.D./2020-21/878

Date: December 31, 2021

### Provisional Registration Letter for Ph.D. Degree Programme (Office Order)

**Sub: Provisional Ph.D. Registration reg...**

- Ref:** 1. Notification No. VTU/BGM/Aca/Ph.D./2020-21/847 dated 07-11-2020.  
2. Candidate's ETR Application No. : 6913  
3. Hon'ble Vice Chancellor's Order dated 14-12-2021.

Pursuant to the recommendations of the Admission Committee and approval of Honourable Vice Chancellor, you have been selected for provisional admission to pursue Ph.D. programme under Visvesvaraya Technological University, Belagavi.

The details pertaining to the registration are given below:

Sl.No.	Particulars	
1.	Name of the Candidate	VINAY G
2.	University Seat Number (USN)	1NC20PCS02
3.	Admission Category of Research Programme (Full Time/Part Time).	Ph.D. - Part Time
4.	Faculty under which the degree will be awarded.	FACULTY OF COMPUTER AND INFORMATION SCIENCES
5.	Name of the Research Center	NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY MUDUGURKI
6.	Specialization	COMPUTER SCIENCE AND ENGINEERING
7.	Proposed Research Topic / Area.	PERFORMANCE IMPROVEMENT IN COGNITIVE RADIO NETWORKS
8.	Name and address of the Research Supervisor.	SANDHYA GURUSWAMY Professor - COMPUTER SCIENCE AND ENGINEERING NAGARJUNA COLLEGE OF ENGINEERING & TECHNOLOGY MUDUGURKI
*****		

The Research Scholars shall strictly follow the norms of the University with regard to the Regulations Governing the Degree of Doctor of Philosophy (Ph.D.) / M.S. (Research) - 2020 and any other amendments effected from time to time.

**Registrar**

To,

- VINAY G, #19, NISCHITHA, 4TH MAIN SULTANPALYA R T NAGAR POST BENGALURU 560032.
- Principal of the college / Director, Principal or Dean (Architecture)/Chairperson of the University Department/Research Organization where the candidate has to register for admission to Ph.D. programme.

3. To Research Supervisor: SANDHYA GURUSWAMY
4. Office copy.

**Document Generated Date: 2021-12-31 & Time: 20:25:21, Web portal: <https://jnanashodha.vtu.ac.in>**