



# NRI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

Approved by AICTE, New Delhi: Permanently Affiliated to JNTUK, Kakinada  
Accredited by NAAC with "A" GRADE, Accredited by NBA (CSE, ECE&EEE)  
An ISO 9001:2015 Certified Institution  
Pothavarampeta (V), Agiripalli (M), Eluru District, A.P., India, Pin: 521 212  
URL: [www.nriit.edu.in](http://www.nriit.edu.in), email: [principal@nriit.edu.in](mailto:principal@nriit.edu.in), Mobile: + 91 8333882444



- 2.4.2 Percentage of full time teachers with Ph.D. /D.Sc. / D.Litt. /LLD during the last five years
- 3.2.3 Percentage of teachers recognised as research guides as in the latest completed academic year
- 3.4.2 Number of candidates registered for Ph.D per teacher during the last five years

A.Y:		2022-23							
S No	Name of full time teacher with Ph.D./D.Sc./D.Litt./LLD	Highest Qualification (Ph.D./D.Sc./D.Litt./LLD)	Year of obtaining	Whether recognised as research Guide for Ph.D	Year of Recognition as Research Guide	Is the teacher still serving in the institution /If not last year of the service of Faculty in the Institution	Name of the Research scholar	Year of registration of the scholar	Guide allotment letter web link to be provided
1	Dr.J.Rajendra Prasad	Ph.D	1987	NO	-	YES	-	-	
2	Dr.Sk.Mahaboob Basha	Ph.D	2022	NO	-	YES	-	-	
3	Dr.M.Chaitanya Kishore Reddy	Ph.D	2018	NO	-	YES	-	-	
4	Dr.K.V.Sambasivarao	Ph.D	1996	YES	2016	YES	Mr.B. Jaya Nag	2016	
				YES			MrS. M. Rani Reddy	-	
				YES			Mr.S. Ravi Kishan	2014	
				YES			Mrs. S. VIJAYA Lakshmi	2014	
5	Dr.I.Ramesh Babu	Ph.D	1994	YES	1996	YES	-	-	
6	Dr.Y.Sushma	Ph.D	2011	YES	2020-21	YES	-	-	
7	Dr.D.Suncetha	Ph.D	2019	YES	2020-21	YES	-	-	

8	Dr.CH.Surya Kiran	Ph.D	2019	YES	2020-21	YES	Mr.S.Srinivasa Rao	01-09-2020	
				YES			Mrs.K. Radha	2022	
				YES			Mrs.Y.Vijaya	2022	
9	Dr. G. Shobana	Ph.D	2020	YES	2022-23	YES	-	-	
10	Dr.P.V.Anusha	Ph.D	2022	NO		YES	-	-	
11	Dr.M.Venkateswara Rao	Ph.D	2022	NO		YES	-	-	
12	Dr. N. SAMBASIVA RAO	Ph.D	2015	NO	-	YES	-	-	
13	Dr. RUSHI SANTOSH SINGH THAKUR	Ph.D	2016	NO	-	YES	-	-	
14	Dr M.Babu Prasad	Ph.D.	2017	NO	-	YES	-	-	
15	Dr G.Adilakshmi	Ph.D.	2021	NO	-	YES	-	-	
16	Dr.K.Prasad	Ph.D.	2011	YES	2016	YES	CH.Rama Bhrama Chakravarthi	2016	
17	Dr Ch.Chandrakala	Ph.D.	2022	NO	-	YES	-	-	
18	Dr G.SrinivasaRao	Ph.D.	2016	NO	-	YES	-	-	
19	Dr G. Devendra Raja	Ph.D.	1987	NO	-	YES	-	-	
20	Dr I.V.Kasi Viswanath	Ph.D.	2011	NO	-	2021	-	-	
21	Dr G.V.Adilakshmi	Ph.D.	2018	NO	-	YES	-	-	
22	Dr B.Sri Hari Rao	Ph.D.	2019	NO	-	YES	-	-	
23	Dr.Y.Soloman Raju	Ph.D.	2022	NO	-	YES	-	-	
24	Dr T.Srilatha	Ph.D.	2018	NO	-	YES	-	-	
25	Dr N V Surendra Babu	Ph.D.	2010	NO	-	YES	-	-	
26	Dr M.V.N. Sarma	Ph.D.	1992	NO	-	YES	-	-	
27	Dr G.Rosaiah	Ph.D.	1997	NO	-	YES	-	-	
28	Dr D.Kailasa Rao	Ph.D.	2003	NO	-	YES	-	-	
29	Dr R Venkata Rao	Ph.D.	2001	NO	-	YES	-	-	
30	Dr SudheerChalasani	Ph.D.	2020	NO	-	YES	-	-	
31	Dr.M. Siva Kishore	Ph.D.	2020	NO	-	YES	-	-	
32	Dr.Ch.Hema Venkata Siva Sree	Ph.D	2018	NO	-	YES	-	-	
33	Dr. K.Chinni Krishna	Ph.D	2018	NO	-	YES	-	-	
34	Dr. C. Naga Bhaskar	Ph.D	2005	YES	-	YES	1.Mr K Mohan	-	
							2.Mr P Srinivasa Rao	-	
35	Dr. K. Prasada Rao	Ph.D	2015	NO	-	YES	-	-	
36	Dr.G.Sambasiva Rao	Ph.D	2009	YES	2011	YES	1.T.Srinivas Rao	-	
							2.S.Ravi Babu	-	
							3.P.phani Prasanthi	-	

							4.S.Srilakshmi	-	
37	Dr.P.Sadasiva Srinivas	Ph.D	2013	NO	-	YES	-	-	
38	Dr.V.Srinivasa Sai	Ph.D	2016	NO	-	YES	-	-	
39	Dr.S.Sudhakar Babu	Ph.D	2017	NO	-	YES	-	-	
40	Dr. V.LakshmiKanth Chowdary	Ph.D	2019	NO	-	YES	-	-	
41	Dr.P.Siva Nagasree	Ph.D	2023	NO	-	YES	-	-	
42	Dr.E.Siva Krishna	Ph.D	2023	NO	-	YES	-	-	
43	Dr.K.Babu Raja	Ph.D	2023	NO	-	YES	-	-	
44	Dr. R. Sunitha	PhD	2021	YES	2021	YES	-	-	
45	Dr. P. Rama Koteswara Rao	PhD	2017	YES	2021	YES	Mr. P SIVA RAMABABU	2020	
46	Dr.V Ramesh Babu	PhD	2019	YES	2021	YES	-	-	
47	Dr. V. SrinivasaRao	PhD	2022	NO	-	YES	-	-	
48	Dr. K. Prathyusha	PhD	2019	YES	2021	YES	-	-	
49	Dr. S.V Rama Rao	PhD	2022	NO	-	YES	-	-	
50	Dr. Sk. Abdul Rahiman	PhD	2022	NO	-	YES	-	-	
51	Dr. S. Vara Kumari	PhD	2022	NO	-	YES	-	-	
52	Dr.S.Chakravarthy	PhD	2022	NO	-	YES	-	-	

*Riy*

IQAC CO-ORDINATOR  
I.Q.A.C. Coordinator

**NRI INSTITUTE OF TECHNOLOGY**  
POTHAVARAPPADU (V), Agiripalli (M)  
Eluru Dist., Vijayawada Rural - 521 212

*NRI*  
PRINCIPAL

**Principal**  
**RI Institute of Technology**  
Pothavarappadu (V), (Via) Nunna  
Agiripalli (M), Eluru Dist. A.P-521212

ANDHRA UNIVERSITY



FACULTY OF SCIENCE

*This is to certify that*

*Jaladi Rajendra Prasad*

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

*in this University, he having been declared to be*

*qualified to receive the same in 1987*

*Given under the Seal of the University*

WALTAIR

*The 27<sup>th</sup> September 1988.*  
C.D.

*K.N. Prasad*  
Vice-Chancellor  
E

22-23

# ACHARYA NAGARJUNA UNIVERSITY



Sl.No. 000734

Ref. No. ANU/RC/Ph.D./CSE  
/SMB/3691/April 2022

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Srl/Smt./Kum. **Shaik Mahaboob Basha**

S/o. / D/o. **Ummarellidada Saheb**

has qualified himself / herself for the award of the Degree of Doctor of Philosophy by Research for the

Thesis submitted by him/her entitled **AN EFFICIENT MULTI-LEVEL**

**FEATURE SELECTION AND CLUSTER BASED CLASSIFICATION**

**FRAMEWORK ON HIGH DIMENSIONAL MICRO-ARRAY DATASETS**

and that he/she has done all that is necessary for the formal presentation for the Degree of

Doctor of Philosophy in **Computer Science and Engineering**

in the Faculty of **Engineering**

with effect from **09-08-2022**

The Degree has been awarded in accordance with UGC Regulations 2009

Nagarjuna Nagar

Dated **18-08-2022**

Initials of the  
Clerk who

Prepared : **Shayy 18/8/22**  
Examined : **ham 21/08/2022**

**23/08/22**  
CO-ORDINATOR  
Research Cell



# அண்ணாமலைப் பல்கலைக்கழகம்

## ANNAMALAI UNIVERSITY



பொறியியற்புலம்

FACULTY OF ENGINEERING & TECHNOLOGY

ஜூன், 2018 இல் கணினி அறிவியல் பொறியியல் பிரிவில்  
நடத்திய தேர்வுகளில் சைத்தன்ய கிஷோர் ரெட்டி.ம தேர்ச்சியடந்து  
ஆய்வேட்டை மதிப்பிட முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினர்சான்றளித்தபடி  
ஆய்வியல் அறிஞர் பட்டம் பெறுதற்கு உரியவர் ஆகின்றார்  
என அண்ணாமலைப் பல்கலைக்கழக ஆட்சிக்குழு இதன்வழி அறிவிக்கின்றது

*The Syndicate of the Annamalai University hereby makes known  
that CHAITANYA KISHOR REDDI M has been admitted to the  
Degree of DOCTOR OF PHILOSOPHY in COMPUTER SCIENCE AND ENGINEERING  
he/she having been certified by duly appointed examiners Who Valued  
his/her thesis to be qualified to receive the same in JUNE, 2018 .*

### TITLE OF THE THESIS

DESIGN AND COMPARING THE THROUGHPUT AND DELAY OF PROACTIVE AND REACTIVE  
ROUTING PROTOCOLS IN MOBILE AD-HOC NETWORKS

பல்கலைக்கழக முத்திரை பெறுகின்றது  
Given under the seal of the University



அண்ணாமலைநகர்  
Annamalai Nagar  
நாள்  
Dated: 10.08.2018

*Senthilvel*

Dr. S. Senthilvel

துணை தேர்வாளையர் (கல்விசார்ந்த)

Dy. Controller of Examinations (Academic)

*Ic. Arumugam*

Dr. k. Arumugam

பதிவாளர்

Registrar

*Dr. S. Manian*

Dr. S. Manian

துணைவேந்தர்

Vice-Chancellor

# Indian Institute of Technology Delhi

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

on *K. V. Sambasiva Rao*


Thesis title :

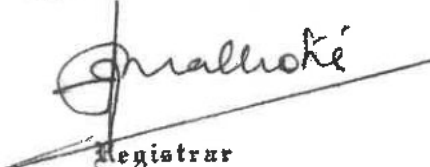
*"Some Studies on the Justification Problem and  
Allied Issues for Implementation of Advanced  
Manufacturing Technologies."*

Given this day under the seal of the Institute at Delhi  
in the Republic of India.

*The 9th August, 1996.*

  
Director &  
Chairman, Senate

  
Chairman  
Board of Governors

  
Registrar



# NAGARJUNA UNIVERSITY



## FACULTY OF ENGINEERING

This is to certify that

*Chamasa Babu Inampudi*

*has been duly admitted to the*

*Degree of*

*Doctor of Philosophy*

*in this University, he/~~she~~ having been*

*declared to be qualified to receive the same*

*in 1994 in Computer Science & Engineering*

*Given under the Seal of the University*

NAGARJUNANAGAR

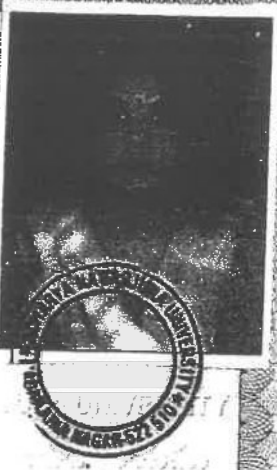
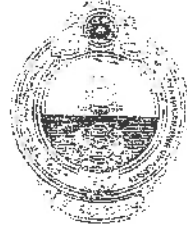
522 510

The 25 SEP 1996 199

*S. V. Lakshman*  
Vice-Chancellor



ACHARYA NAGARJUNA UNIVERSITY  
అచార్య నాగార్జున విశ్వవిద్యాలయము



FACULTY OF ENGINEERING

*This is to certify that*

Mr./Ms.

*Sushma Yalavanchili*

*has been duly admitted to the*

*Degree of Doctor of Philosophy*

*in this University, he/she having been declared to*

*be qualified to receive the same in 2011*

*in Computer Science and Engineering*

*Given under the Seal of the University*



*Vice-Chancellor*

Nagarjuna Nagar-522 510.

A. P. India

Date: 17 NOV 2011

Sl.No.

00020

14PHD/020/00020



**KRISHNA UNIVERSITY**

**కృష్ణ విశ్వవిద్యాలయం**

H.T.No : 1404PH101004

Aadhar No : 775996337102

*Faculty of Engineering & Technology*

**Suneetha Davuluri**

S/o / D/o : Sambasiva Rao

&

Davuluri Lakshmi Kumari

*Having Fulfilled the academic requirements in October-2019 has this day been admitted by the Executive Council to the Degree of*

**Doctor of Philosophy**

*In*

**COMPUTER SCIENCE AND ENGINEERING**

*For the Thesis entitled ,*

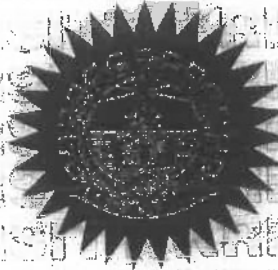
**"A HYBRID APPROACH FOR ENHANCING DATA STORAGE SECURITY THROUGH IMAGE STEGNOGRAPHY "**

**COPY**

*Date of Viva-Voce : 29/10/2019*

*Given under the Seal of the University*

విశ్వవిద్యాలయ అధికార సభ ద్వారా జారీ చేయబడినది.



Dr. P. G. N. Reddy

Machilipatnam,  
A.P. India  
Pin: 521004

*Vice-Chancellor*

# ACHARYA NAGARJUNA UNIVERSITY

Sl. No. 0001546



Ref. No ANU/RC/Ph.D./  
CSI/SKC/2585/Jan. 2019

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt./Kum. Surya Kiran Chebrolu

S/o - D/o. Ch. R.S.B. Murthy

has qualified himself / herself for the award of the Degree of Doctor of Philosophy by Research for the

Thesis submitted by him/her entitled RAYLEIGH SOFTWARE QUALITY

### ASSESSMENT

and that he/she has done all that is necessary for the formal presentation for the Degree of

Doctor of Philosophy in Computer Science & Engineering

in the Faculty of Engineering

with effect from 01-08-2019

The Degree has been awarded in accordance with UGC Regulations 2009

Nagarjuna Nagar

Dated 05-08-2019

Initials of the

Clerk who

Prepared : B.S.K. 5/8/19

Examined : B.S.K. 5/8/19

Handwritten signature  
CO-ORDINATOR  
Research Cell



**ACHARYA NAGARJUNA UNIVERSITY**  
అచార్య నాగార్జున విశ్వవిద్యాలయము



**FACULTY OF ENGINEERING**

*This is to certify that*

Mr./Ms. **Shobana Gorintla**

D/O **G Sampathkumar**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

*in this University, he/she having been declared to be qualified to receive the same with effect from* **08 September 2019**

*in the Department of* **COMPUTER SCIENCE & ENGINEERING**

*Title of the Thesis :*

**A NOVEL CLASSIFICATION APPROACHES AND ALGORITHMS FOR LEARNING FROM SKEWED DATA USING DIVERSIFIED DISTRIBUTION TEACHNIQUES**

*The Degree has been awarded in accordance with UGC regulations 2009.*

*Given under the Seal of the University*



Vice-Chancellor

Nagarjuna Nagar-522 510.  
A. P. India

Date: **3 FEB 2021**



ACHARYA NAGARJUNA UNIVERSITY  
ఆచార్య నాగార్జున విశ్వవిద్యాలయము



FACULTY OF ENGINEERING

*This is to certify that*

Mr./Ms. **Perurivenkataanusua**

D/O **Pvvsatyanarayana**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

*in this University, he/she having been declared to be qualified to receive the same with effect from* **04 October 2022**

*in the Department of* **COMPUTER SCIENCE AND ENGINEERING**

*Title of the Thesis :* **A FRAMEWORK ON OUTLIERS MINING IN LARGE SCALE DATABASES USING REGRESSION TECHNIQUES**

**The Degree has been awarded in accordance with UGC regulations 2009**

*Given under the Seal of the University*

Nagarjuna Nagar-522 510,  
A.P. India

Date: **22 OCT 2022**



*[Signature]*  
Vice-Chancellor


Reg No. :- AU/2016/913642

# ANNAMALAI UNIVERSITY



## Doctor of Philosophy

This is to certify that VENKATESWARARAO MUVVA  
has been admitted to degree of *Doctor of Philosophy*  
in COMPUTER SCIENCE AND ENGINEERING in this University at the  
Convocation of 2022  
Topic "A NODE-TO-NODE ACTIVATION SCHEME AND PROTOCOL TO  
INCREASE THE LIFETIME OF OBJECT TRACKING AND ROUTING OF  
WIRELESS SENSOR NETWORK"

  
REGISTRAR  
ANNAMALAI UNIVERSITY  
ANNAMALAI NA. - 608 002

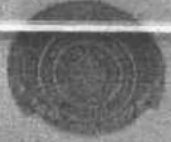
Annamalai Nagar,  
T.N-608 002

  
Vice Chancellor

Date 22/06/2022

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 703182



H. T. No. 0803PH0740

*Mr Sambasivarao Naraboina*  
*S/o. Mallikarjunarao*

having fulfilled the academic requirements in *October, 2015*  
has this day been admitted by the Executive Council to the Degree of

*Doctor Of Philosophy*  
*Electrical And Electronic Engineering*

Topic : "Analysis of Certain Power System Issues Using FACTS Devices  
Based on the Optimal Location Methods in a Deregulated Power System"

Given under the Seal of the University

Date: 21-04-2017



*CSF*

*M. Srinivas*  
REGISTRAR

*Allexand*  
VICE CHANCELLOR



401001409130

PC No  
315000015

# SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

(A CHRISTIAN MINORITY INSTITUTION)

சத்யபாமா பல்கலைக்கழகம்



Faculty of Engineering

Sathyabama University hereby confers the Degree of

Doctor of Philosophy

on *Thakurkishanthosh Singh*

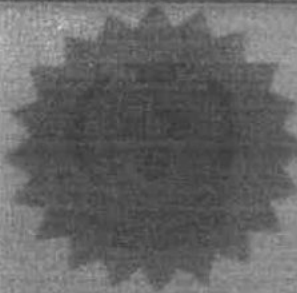
Son / Daughter of *Jaytharamsingh*

in recognition for his/her research work on **DESIGN AND ANALYSIS OF CONVERTOR FOR A RESIDENTIAL MICROGRID DISTRIBUTED GENERATION**

in the Department of *Electrical & Electronic Engg*

he/she having been found duly qualified for the same in *26-11-2016*

Given under the seal of the University



*[Signature]*  
Registrar

*[Signature]*  
Director

*[Signature]*  
Director

*[Signature]*  
Vice-Chancellor



Dated: 08 Dec 2016

Jepplaar Nagar, Chennai - 600119,

Tamil Nadu, INDIA



Reg. No. : 00209212008

Sl. No. 00970

ద్రావిడ విశ్వవిద్యాలయం ద్రావిడ విశ్వవిద్యాలయం  
திராவிடப் பல்கலைக்கழகம் திராவிடப் பல்கலைக்கழகம்  
DRAVIDIAN UNIVERSITY DRAVIDIAN UNIVERSITY



Srinivasavanam, Kuppam - 517425, Andhra Pradesh, India.

## Faculty of Science

*This is to Certify that*

*Munagala Babu Prasad*

*Son/Daughter of Veera Bhadra Rao*

*has been certified by duly appointed Examiners*

*to be qualified to receive the Degree of*

**Doctor of Philosophy in Mathematics**

*and has been admitted to that Degree*

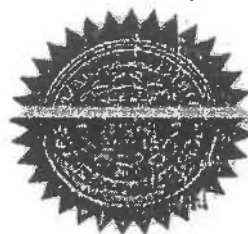
*with effect from 23.12.2017*

DEPARTMENT OF STUDY : MATHEMATICS

TITLE OF THE THESIS : "Contributions to Near - Ring Theory- VI"

*Given under the seal of the University*

Dated : 03.01.2018



*Chandrababu Naidu*  
Vice-Chancellor

Sl. No 000513



**KONERU LAKSHMAIAH EDUCATION FOUNDATION**

(Deemed to be University)

Estd. by 3 of the UGC Act 1956

**PROVISIONAL CERTIFICATE  
(DOCTOR OF PHILOSOPHY)**

This is to certify that Sri / Smt / Kum

**GORANTLA ADILAKSHMI**

Regd. No. :

**14321010**

Son / Daughter of

**SIVA MOHANA RAO**

has qualified himself / herself for the award of Doctor of philosophy Degree by  
Research for the thesis submitted by him / her entitled

**"SOME FIXED POINT RESULTS AND APPLICATIONS IN BIPOLAR, MODULAR, C\*-  
ALGEBRA VALUED FUZZY SOFT AND COMPLEX VALUED DISLOCATED QUASI b-  
METRIC SPACES"**

and that he / she has done all that is necessary for the formal presentation of  
Degree of Doctor of Philosophy in **MATHEMATICS**

in the year **2021**

Date: **31.03.2021**

CONTROLLER OF EXAMINATIONS

REGISTRAR

CC 016902

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR



ANANTAPUR - 515 002, ANDHRA PRADESH, INDIA

H.T.No: 0603PH1414

*Komatineni Prasad*

*Shri Komatineni Narayanaswamy*

having fulfilled the academic requirements in *January 2011* has this day been admitted by the Monitoring & Development Committee to the Degree of

*Doctor of Philosophy*  
(Mathematics)

for the thesis entitled,  
"RADICALS AND ANNIHILATOR IDEALS IN MATRIX NEAR RINGS"

Saturday, 13 August, 2011.

Given under the Seal of the University

Director of Evaluation

Registrar

Vice Chancellor



*Copy*

# ACHARYA NAGARJUNA UNIVERSITY

12

Sl.No. 000813



Ref. No. ANU/RC/Ph.D./Physics  
/CKC/3512/Nov. 2021

## PROVISIONAL CERTIFICATE

This is to Certify that

Sri/Smt./Kum. **Chandrakala Chintagunta**

S/o. /D/o. **Mouliyadi**

has qualified himself / herself for the award of the Degree of Doctor of Philosophy by Research for the Thesis submitted by him/her entitled **Non-linear optical and dielectric properties of PbO-ZrO<sub>2</sub>-SiO<sub>2</sub>:Fe<sub>2</sub>O<sub>3</sub> glass ceramics**

and that he/she has done all that is necessary for the formal presentation for the Degree of Doctor of Philosophy in **PHYSICS** in the Faculty of **PHYSICAL SCIENCES** with effect from **06-05-2022**

The Degree has been awarded in accordance with UGC Regulations 2009

Nagarjuna Nagar

Dated **09-05-2022**

Initials of the  
Clerk who

Prepared: **3512**  
Examined: **09/05/2022**

**09/05/22**  
CO-ORDINATOR  
Research Cell



# ACHARYA NAGARJUNA UNIVERSITY

ఆచార్య నాగార్జున విశ్వవిద్యాలయము



## FACULTY OF PHYSICAL SCIENCES

*This is to certify that*

Mr./Ms. Srinivasa Rao G

S/O Krishnaiah

*has been duly admitted to the*

### Degree of Doctor of Philosophy

*in this University. He/she having been declared to be qualified to*

*receive the same with effect from* 29 March 2016

*in the Department of* PHYSICS

*Title of the Thesis :* PHYSICAL AND SPECTRAL STUDIES OF  
TRANSITION METAL IONS ( $VO^{2+}$ ,  $Cr^{3+}$ ,  $Mn^{2+}$ ,  $Fe^{2+}$ )  
DOPED LITHIUM POTASSIUM BORATE GLASSES

*Given under the Seal of the University*

Nagarjuna Nagar 522 510  
A. P. India



Vice-Chancellor

Date: 12 JAN 2019

UNIVERSITY OF ALLAHABAD



Doctor of Philosophy in Science

Enrollment NO. GG/10574.

This is to certify that Gummadi Devendra Raja  
has been admitted to the degree of Doctor of Philosophy  
in Science in this University at the Convocation  
of 1987.

University of Allahabad:  
The 14<sup>th</sup> May, 1988.  
The 18<sup>th</sup> Feb, 2009.

Ray Krishna Kumar  
Vice-Chancellor

ANDHRA UNIVERSITY  
ఆంధ్ర విశ్వవిద్యాలయం



FACULTY OF SCIENCE

*This is to certify that*

**Venkata Kasi Viswanath Ivaturi**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

**Organic Chemistry**

*in this University, he/she having been declared to be*

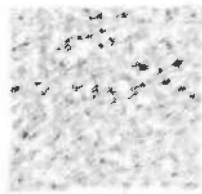
*qualified to receive the same in*

**2011**

*given under the Seal of the University*

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

  
Vice-Chancellor



ACHARYA NAGARJUNA UNIVERSITY  
అచార్య నాగార్జున విశ్వవిద్యాలయం



FACULTY OF PHYSICAL SCIENCES

*This is to certify that*

*Mr. / Ms. Venkata Adilakshmi Gadlaguti*

*D/O Vemalaiah*

*has been duly admitted to the*

*Degree of Doctor of Philosophy*

*in this University, he/she having been declared to be qualified*

*receive the same with effect from 26 February 2018*

*in the Department of CHEMISTRY*

*Title of the Thesis*

METHOD DEVELOPMENT, VALIDATION AND FORCED DEGRADATION STUDIES OF SOME DRUGS IN COMBINED FORMULATIONS BY USING ISOCRATIC RP-HPLC

*Given under the Seal of the University*

Nagarjuna Nagar-522 510,  
A. P. India



Vice-Chancellor

Date : 16 MAY 2018



ANDHRA UNIVERSITY  
ఆంధ్ర విశ్వవిద్యాలయం



FACULTY OF ARTS

*This is to certify that*

**Bathula Srihari Rao**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

**English**

*in this University, he/she having been declared to be*

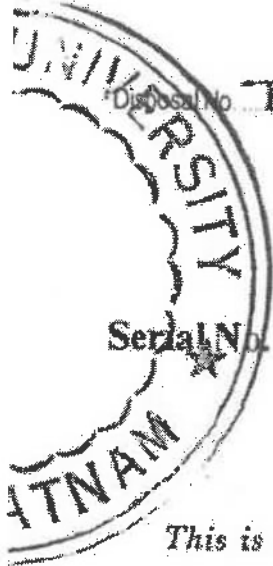
*qualified to receive the same on* **2019**

*Given under the Seat of the University*

Visakhapatnam, A.P. India

Date: 14<sup>th</sup> October, 2020

  
Vice-Chancellor



Disposal No. TC11/4824/2020/P.T/Dt:26/12/2022 12/G(18-06-2016) 30 Bks. each 100 Pages

# ANDHRA UNIVERSITY

2961



## PROVISIONAL CERTIFICATE

This is to Certify that Sri / Smt. / Kum. SALOMAN RAJU YARLAGADDA

has qualified himself/herself for the Award of Doctor of Philosophy Degree by Research for the Thesis submitted by him / her entitled ENHANCING THE READING SKILLS OF THE TECHNICAL UNDERGRADUATES OF COASTAL AREA OF ANDHRA PRADESH WITH THE ADMINISTRATION OF WORDS PER MINUTE (WPM) TEST IN ACADEMIC LEARNING ENVIRONMENT (ALE) - AN EMPIRICAL STUDY and that he / she has done all that is necessary for the formal presentation for the Degree of Doctor of Philosophy in ENGLISH

in the year 2022

VISAKHAPATNAM

DIDM/01/ 2023

Initials of the Clerk who

Prepared :  
Examined :

*K. V. Talwar*  
DEPUTY REGISTRAR (ACADEMIC)

Register No : **13DRPEN004**

Folio No : **000014**



# KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act, 1956)

Pollachi Main Road, Eachanari Post, Coimbatore – 641 021.  
Tamil Nadu - India

The Board of Management of the KARPAGAM ACADEMY OF HIGHER EDUCATION (Deemed to be University)

hereby makes known that **SREE LATHA TANGIRALA**

has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY in ENGLISH**

under the **FACULTY OF ARTS**

having been certified by the duly appointed examiners to be qualified to receive the same on **27<sup>th</sup> JULY 2018**

Coimbatore

Date: **29.09.2018**



SEAL



*[Signature]*  
CONTROLLER OF EXAMINATIONS

*[Signature]*  
REGISTRAR

*[Signature]*  
VICE-CHANCELLOR

080926



శ్రీ వేంకటేశ్వర విశ్వవిద్యాలయం

శాస్త్ర ఆఫ్ సైన్స్  
Faculty of Science

వెంకట సురేంద్ర బాబు నాగిశెట్టి  
వెంకయ్య గారి కుమారుడు కు  
ఈ విశ్వవిద్యాలయం నుండి క్రింద సూచించిన విధంగా అతను పట్టాకు  
నిర్దేశించిన పరీక్షలో ఉత్తీర్ణత వొందినందుకు  
డాక్టర్ ఆఫ్ ఫిలాసఫి  
పట్టా ప్రధానానాసికి అర్హత వొందినట్లు ధృవీకరించడమైంది.

*This is to certify that*  
**Venkata Surendra Babu Nagisetty**

*Son of Venkaiah*  
*has been admitted to the Degree of*  
**Doctor of Philosophy**  
*having been certified by duly appointed Examiners*  
*to be qualified to receive the same at the Examinations*  
*prescribed therefor as hereunder:*

DEPARTMENT OF STUDY : BIO-CHEMISTRY

SUBJECT OF THE THESIS : "Optimization of Grain Malts Media for Citric Acid  
production by Improved Strains of Aspergillus Niger"

YEAR : 2010

విశ్వవిద్యాలయ అధికారి చేయడమైంది.

తిరుపతి / Tirupati

Given under the authority of the University

తేదీ / Date : 07 MAY 2010



MA

ఉపకులపతి  
Vice - Chancellor



# NAGARJUNA UNIVERSITY



## FACULTY OF SOCIAL SCIENCES

This is to certify that

*M. K. Venkata Ramasimha Sarma*

has been duly admitted to the

*Degree of Doctor of Philosophy*

in this University, he having been declared to be

qualified to receive the same in 1992 in *Economics*

Given under the Seal of the University

NAGARJUNANAGAR  
522 510

The 12 DEC 1993 19

*M. C. Subrahmanyam*

Vice-Chancellor

# NAGARJUNA UNIVERSITY



## FACULTY OF NATURAL SCIENCES

This is to certify that

*Yasurajpati K. Srinivas*

has been duly admitted to the

Degree of Doctor of Philosophy

in this University, he having been declared to be

qualified to receive the same in 1991 in *Bhatnagar*

Given, under the Seal of the University

NAGARJUNANAGAR  
522 510

The 12 DEC 1993 19

*J. C. Simhadri*

Vice-Chancellor

ACHARYA

NAGARJUNA UNIVERSITY



FACULTY OF SOCIAL SCIENCES

This is to certify that

*Kailasa Rao Dowluru*

*has been duly admitted to the*

*Degree of Doctor of Philosophy*

*in this University, he having been declared to be*

*qualified to receive the same in ~~XXXX~~ 2003, in*

*Economics*

*Given under the Seal of the University*

NAGARJUNANAGAR  
522 510

The  1 MAR 2004 19

*A. Venugopal Rao*  
Vice-Chancellor

NAGARJUNA UNIVERSITY



FACULTY OF SOCIAL SCIENCES

This is to certify that

*Chavi Venkata Rao*

has been duly admitted to the

Degree of Doctor of Philosophy

in this University, he having been declared to be

qualified to receive the same in ~~1921~~ 1921 in

Economics

Given under the Seal of the University

NAGARJUNANAGAR  
522 510

NOV 2012 19

*L. Venugopal Reddy*  
Vice-Chancellor





ACHARYA NAGARJUNA UNIVERSITY  
ఆచార్య నాగార్జున విశ్వవిద్యాలయము



FACULTY OF HUMANITIES

*This is to certify that*

Mr./Ms.

*Sudheer Chalasani*

*has been duly admitted to the*

*Degree of Doctor of Philosophy*

*in this University, he/she having been declared to be qualified to*

*receive the same with effect from* 12 September 2018

*in the Department of* ENGLISH

*Title of the Thesis :*

An Emprical Study on Developing Strategic Reading Comprehension Skills among the First Year B.Tech. Students of M.V.R. College of Engineering and Technology, Paritala Affillated to Jawaharjal Nehru Technological University, Kakinada

*Given under the Seal of the University*

Nagarjuna Nagar-522 510.  
A.P, India

Date: 21 DEC 2018



*Vice-Chancellor*

# ACHARYA NAGARJUNA UNIVERSITY



Sl.No. 000945

Ref. No. ANU/RC/Ph.D./CHEMISTRY  
/MSK/3054/July 2020

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt./Kum.

**Masimukku Sivakishore**

S/o. / D/o.

**Satyanarayana**

has qualified himself / herself for the award of the Degree of Doctor of Philosophy by Research for the

Thesis submitted by him/her entitled

**INNOVATIVE**

**STABILITY**

**INDICATING SPECTROSCOPIC AND CHROMATOGRAPHIC METHODS**

**FOR THE SIMULTANEOUS ANALYSIS OF ACTIVE PHARMACEUTICAL**

**INGREDIENTS IN MULTI-COMPONENT BLENDS**

and that he/she has done all that is necessary for the formal presentation for the Degree of

Doctor of Philosophy in

**CHEMISTRY**

in the Faculty of

**PHYSICAL SCIENCES**

with effect from

**17-11-2020**

Nagarjuna Nagar

Dated

**20-11-2020**

Initials of the

Clerk who

Prepared

Examined:

*Prepared: [Signature] 20/11/2020*  
*Examined: A. S. [Signature] 25/11/2020*

**CO-ORDINATOR**  
Research Cell

SL No. 00027

UPEED/02/20027



# KRISHNA UNIVERSITY

కృష్ణా విశ్వవిద్యాలయం

U.P. No. UPEED/02/20027  
Andhra No. UPEED/02/20027

*Faculty of Commerce & Management*

**H V Sivasree Chinta**

S/o. Dr. Venkata Rao  
&  
Chinta Padmavathi Devi

*Having fulfilled the academic requirements in July-2018 has this  
day been admitted by the Executive Council to the Degree of*

**Doctor of Philosophy**

*In*

***Business Management.***

*For the Thesis entitled,*

**"WORKING CAPITAL MANAGEMENT IN SELECTED MICRO  
AND SMALL ENTERPRISES IN ANDHRA PRADESH"**

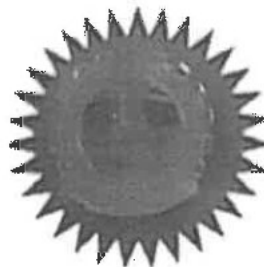
*Date of Viva-Voce : 20/07/2018*

*Given under the Seal of the University*

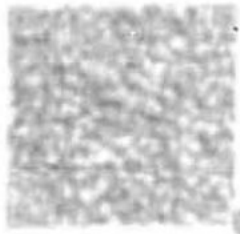
ఇది కృష్ణా విశ్వవిద్యాలయం వారి సీల్ కింద ఇవ్వబడింది

**DL. 08/11/2011**

**Machilipatnam,  
A.P., India.  
Pin: 521004**



*[Signature]*  
**Vice-Chancellor**



**ACHARYA NAGARJUNA UNIVERSITY**  
అచార్య నాగార్జున విశ్వవిద్యాలయము



**FACULTY OF COMMERCE & MANAGEMENT STUDIES**

*This is to certify that*

Mr. / Ms. *Chinni Krishna Kofusu*

S/O *Nageswara Rao*

*has been duly admitted to the*

*Degree of Doctor of Philosophy*

*in this University. As she having been declared as be qualified to receive the same with effect from* **24 March 2018**

*in the Department of* **Commerce & Business Administration**

*Title of the Thesis*

**A study on Human Resource Development Practices and Their Impact on Employees Performance (with Special Reference to Select Public and Private Sector Service organizations in Krishna and Guntur Districts.)**

*The Degree has been awarded in accordance with UGC regulations 2009*

*Given under the Seal of the university*

*Sajjanima Nagar (P) Ltd*  
*A.P. India*



*Vice-Chancellor*

Date **29 AUG 2018**

# ANDHRA UNIVERSITY



## FACULTY OF ENGINEERING

*This is to certify that*

Challa Naga Bhaskar

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

*in this University, he having been declared to be  
qualified to receive the same in 2005.*

*Given under the Seal of the University*

VISAKHAPATNAM

6th November, 2006

*A. Venugopala*  
Vice-Chancellor  
*J*

ANDHRA UNIVERSITY  
ఆంధ్ర విశ్వకళాపరిషత్



FACULTY OF ENGINEERING

*This is to certify that*

**Kancherla Prasadarao**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

*in* **Marine Engineering**

*in this University, he/she having been declared to be*

*qualified to receive the same in* **2015**

*Given under the Seal of the University*

Visakhapatnam, A.P., India.

Date: 29<sup>th</sup> July, 2017

  
Vice-Chancellor

# ANDHRA UNIVERSITY



## FACULTY OF ENGINEERING

*This is to certify that*

**Gutta Sambasiva Rao**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

*in this University, he having been declared to be  
qualified to receive the same in 2009.*

*Given under the Seal of the University*

VISAKHAPATNAM

5th December, 2009

*P. S. Srinivasan*  
05.12.09

Vice-Chancellor

*Rs*

CG000124



KAKINADA - 533 003, ANDHRA PRADESH, INDIA

*Mr. Sudasivadas Prasad*  
*S/o. Seshavaram*

*having fulfilled the academic requirements in July 2013*  
*has this day been admitted by the Executive Council to the Degree of*

*Doctor of Philosophy*  
*( Mechanical Engineering )*

Topic : Process Plan Optimization and Scheduling in Job Shops Using A.C.O and P.S.O Algorithms.

Given under the Seal of the University

HTNo : 0482290309

Date : 23 May, 2014

VICE-CHANCELLOR



# GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT



**GITAM**  
**DEEMED UNIVERSITY**  
(Estd. u/s 3 of the UGC Act, 1956)

## **FACULTY OF ENGINEERING**

This is to certify that

*Srinivasa Sai V*

has been duly admitted to the  
*Degree of Doctor of Philosophy*  
in  
*Mechanical Engineering*

In this University, he/she having been declared to be qualified  
to receive the same in August, 2016

Given under the seal of the University



**SEVENTH CONVOCATION**

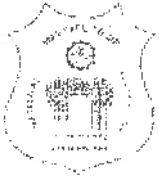
Visakhapatnam

20th August, 2016



*N. S. Anand*  
Vice-Chancellor

**A UNIVERSITY COMMITTED TO EXCELLENCE**



**NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL**  
(AN INSTITUTE OF NATIONAL IMPORTANCE)

**PROVISIONAL CERTIFICATE**  
**DOCTOR OF PHILOSOPHY (Ph.D.)**

no. 27443

Certified that **Mr. Sudhakar Babu Srungarapati**

S/O **Prakasam** Roll No **701208**

Department of **MECHANICAL ENGINEERING**


has successfully completed all prescribed requirements for the award of the degree of **Doctor of Philosophy (Ph.D.)** of the institute.

The date of viva-voce examination held on: **02-08-2017**

The title of the thesis submitted is **CONJUGATE MIXED CONVECTION WITH SURFACE RADIATION FROM A VERTICAL CHANNEL WITH MULTIPLE ASYMMETRICALLY MOUNTED DISCRETE HEAT SOURCES.**

Warangal

Dated : 11-08-2017

  
DEAN (ACADEMIC)  
11/8/17



श्री सत्य साई यूनिवर्सिटी ऑफ टेक्नोलॉजी एण्ड मेडिकल साइंसेस, सीहोर  
SRI SATYA SAI UNIVERSITY OF TECHNOLOGY & MEDICAL SCIENCES, SEHORE



डॉक्टर ऑफ फिलॉसफी  
प्रमाणित किया जाता है कि  
वेलिवेला लक्ष्मिकांत चौधरी

को इस विश्वविद्यालय के मेकेनिकल इंजिनियरिंग विषय में  
डॉक्टर ऑफ फिलॉसफी की उपाधि से वर्ष 2019 में विभूषित किया गया।  
इनके शोध प्रबंध का विषय है :-

"Automation and its Impacts on Lean Manufacturing System: Volvo Case Study".

**DOCTOR OF PHILOSOPHY**

This is to certify that

**VELIVELA LAKSHMIKANTH CHOWDARY** has been

awarded to the degree of **DOCTOR OF PHILOSOPHY**

in the subject **MECHANICAL ENGINEERING** of this University

in the year 2019

The title of his/her thesis is :-

"Automation and its Impacts on Lean Manufacturing System: Volvo Case Study".



Dt: 26/09/2022

Disposal No. T(2)/9414/2022/P.T.

12/G(18-06-2016) 30 Bks. each 100 Pages

ANDHRA UNIVERSITY



Serial No 2832

PROVISIONAL CERTIFICATE

This is to Certify that Sri / Smt. / Kum. PUPPALA SIVA NAGASREE

has qualified himself/herself for the Award of Doctor of Philosophy Degree by Research for the Thesis submitted by him / her entitled " MATERIAL CHARACTERIZATIONS OF MWCNT/NZF BASED POLYMER NANOCOMPOSITES FOR RADAR ABSORBING STRUCTURES "

and that he / she has done all that is necessary for the formal presentation for the Degree of Doctor of Philosophy in MECHANICAL ENGINEERING in the year 2022.

VISAKHAPATNAM

Dt. 15/10/2022

Initials of the Clerk who

Prepared : [Signature] Examined : [Signature]

[Signature] DEPUTY REGISTRAR (ACADEMIC)

Andhra University Press, Visakhapatnam

S.No.: 018407



**VIGNAN'S**  
Foundation for Science, Technology & Research  
(Deemed to be UNIVERSITY)  
- Estd. u/s 3 of UGC Act 1956

PC. No.: 014695

REGD. No.: 181FG08001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. EMANI SIVA KRISHNA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of*  
**MECHANICAL ENGINEERING in MAY 2023 for thesis titled**  
**'Investigation on the Bioactivity of Titanium-Nano-Hydroxyapatite (Ti-nHA) composites produced by powder metallurgy route for improved healing of fractured bones'.**



VADLAMUDI.

DATE: 22-5-2023

*A*  
VERIFIED BY.

*[Signature]*  
CONTROLLER OF EXAMINATIONS



ANDHRA UNIVERSITY

0059994

ఆంధ్ర విశ్వకళా పరిషత్

Accredited by NAAC with 'A' Grade ISO 9001 : 2015 Certified

PROVISIONAL CERTIFICATE

DISPOSAL NO. T(2)/9274/2021/P.T.

REGISTER NUMBER: \_\_\_\_\_

*This is to Certify that Sri / Smt./ Kum. KAMMULURI BABU RAJA has Qualified himself/herself for the Award of Doctor of Philosophy Degree by research for the Thesis submitted by him / her entitled MACHINABILITY STUDIES ON A359/SIC METAL MATRIX COMPOSITE USING UNCONVENTIONAL MACHINING PROCESSES and that he/she has fulfilled all that are necessary for the formal presentation of the Degree of Doctor of Philosophy in MECHANICAL ENGINEERING in the year 2023.*

Read: 

Examined: 



  
Additional Controller of Examinations

Visakhapatnam

Date : 12-07-2023



KONERU LAKSHMAIAH EDUCATION FOUNDATION

Sl. No. 0345

(Approved by University Grants Commission, Act 1956)

# K. L. University

(NAAC Accredited 'A' Grade University)

PROVISIONAL CERTIFICATE  
(DOCTOR OF PHILOSOPHY)

SUNITHA RAVI

*This is to certify that Sri. / Smt. / Km.*

14304049

*Regd. No.*

R SIVARAMAIAH

*Son / Daughter of*

*has qualified himself / herself for the award of Doctor of philosophy Degree by  
Research for the thesis submitted by him / her entitled*

**"COMPUTER VISION BASED 2D & 3D INDIAN SIGN LANGUAGE RECOGNITION"**

*and that he / she has done all that is necessary for the formal presentation of*

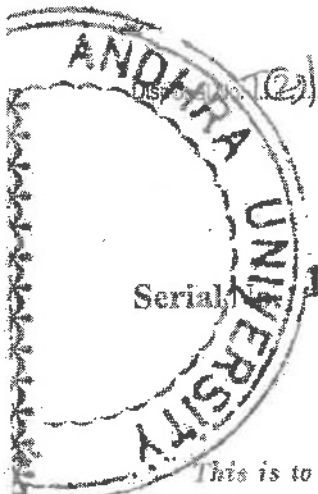
*Degree of Doctor of Philosophy in* ELECTRONICS AND COMMUNICATION ENGINEERING

*in the year* 2021

*Date:* 22.01.2021

  
CONTROLLER OF EXAMINATIONS

  
REGISTRAR



23/8094/2016, Dt 27/09/2017

12/G(18-06-2016) 30 Bks. each 100 Pages

# ANDHRA UNIVERSITY



Serial 145

## PROVISIONAL CERTIFICATE

Andhra University Press, Visakhapatnam

This is to Certify that Sri / Smt. / Ksm. P. RAMA KOTESWARA RAO has qualified himself/herself for the Award of Doctor of Philosophy Degree by Research for the Thesis submitted by him / her entitled "A NOVEL APPROACH FOR PITCH AND PITCH STRENGTH BASED ROBUST SPEAKER RECOGNITION USING VARIOUS DIMENSIONALITY REDUCTION TECHNIQUES AND SVM ALGORITHMS"

and that he / she has done all that is necessary for the formal presentation for the Degree of Doctor of Philosophy in INSTRUMENT TECHNOLOGY in the year 2017.

VISAKHAPATNAM

Dt. 08/08 2017

Initials of the Prepared : Mj  
Clerk who Examined : [Signature]

[Signature]  
DEPUTY REGISTRAR (ACADEMIC)





# KONERU LAKSHMAIAH EDUCATION FOUNDATION

(Deemed to be University)

Estd. u/s. 3 of the UGC Act, 1956  
NAAC Accredited 'A' Grade



Faculty of Electronics and Communication Engineering

Address: Passport Club, Ship 4187 8990 6633

Sl. No. 117122

Regd No. 13304007

By the authority of Board of Management

This is to certify that

*Rameshbabu Vallabhaneni*

has been duly conferred the degree of

*Doctor of Philosophy*

he / she having been declared to be qualified to receive the same

Given under the seal of the University this day of Twenty Fourth July Two Thousand and Nineteen

Thesis Title: *"On Processing of Brain Tumor Images for Detection, Segmentation and Compression"*



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

Sl. No. Ph.D./2022/10

Roll No. 6160022

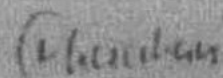
# NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA



## PROVISIONAL DEGREE CERTIFICATE DOCTOR OF PHILOSOPHY

This is to certify that Mr./Ms. **Srinivasarao Vattikuti**  
son/daughter of Shri **Apparao Vattikuti** has completed  
his/her Ph.D. in the Department of **Electronics & Comm. Engineering**  
on **16.11.2022**  
His/Her Ph.D. Thesis title is **"Performance Evaluation and  
Improvements of Speech Enhancement Techniques in  
Noisy Environment"**

  
Dean (Academic)

  
Associate Dean  
(Examinations)

Dated 17.11.2022



KONERU LAKSHMAIAH EDUCATION FOUNDATION Sl. No. 0180  
(Deemed to-be University u/s 3 of UGC Act 1956)

# K L University

(NAAC Accredited 'A' Grade University)

**PROVISIONAL CERTIFICATE  
(DOCTOR OF PHILOSOPHY)**

PRATHYUSHA KUNCHA

This is to certify that Sri. / Smt. / Kum. \_\_\_\_\_

Regd. No. : 13304064

Son / Daughter of RAMESH BABU \_\_\_\_\_

has qualified himself / herself for the award of Doctor of philosophy Degree by

Research for the thesis submitted by him / her entitled \_\_\_\_\_

"SECURED DYNAMIC UNMANNED AERIAL VEHICLES ROUTE PLANNING AND  
MULTI-OBSTACLE AVOIDANCE MODELS"

and that he / she has done all that is necessary for the formal presentation of  
Degree of Doctor of Philosophy in ELECTRONICS AND COMMUNICATION ENGINEERING

in the year 2019

Date: 29.8.19

  
CONTROLLER OF EXAMINATIONS

  
REGISTRAR

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
KAKINADA - 533 003, ANDHRA PRADESH, INDIA

Sl. No. K 00566576

PC No. 2022APR07PHD02



**PROVISIONAL CERTIFICATE**

Hall Ticket No. : 13022P0439

Institution : JNTUK Kakinada

Aadhar No. :

This is to certify that Mr/Mrs. **S VENKATA RAMARAO**  
son/daughter of Shri. **S NANCHARAI AH** has satisfied all the  
requirements for the award of **Doctor of Philosophy** in the faculty of  
**ELECTRONICS & COMMUNICATION ENGINEERING** for the Thesis  
entitled "**PATTERN SYNTHESIS OF LINEAR ANTENNA ARRAYS USING  
MODIFIED DIFFERENTIAL EVOLUTION ALGORITHM**".



Date : 07-04-2022

Medium of Instructions and Examinations in English

*[Signature]*  
Controller of Examinations

*[Signature]*  
Director of Evaluation

*[Signature]*  
Registrar

# ACHARYA NAGARJUNA UNIVERSITY

Sl. No. 000816



Ref. No. ANU/RC/Ph.D./ECE  
/ARS/3697/April 2022

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt. Name **Abdul Rahiman Sheik**

S/o. / D/o. **Hussain**

has qualified himself / herself for the award of the Degree of Doctor of Philosophy by Research for the

Thesis submitted by him/her entitled **Towards Efficient Array Antenna**

**Synthesis using Socio-cultural Behaviour Optimization Techniques**

and that he/she has done all that is necessary for the formal presentation for the Degree of

Doctor of Philosophy in **Electronics and Communication Engineering**

in the Faculty of **Engineering**

with effect from **29-09-2022**

Nagarjuna Nagar

Dated **30-09-2022**

09/10/22

CO-ORDINATOR

Initials of the

Principal

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
KAKINADA - 533 003, ANDHRA PRADESH, INDIA

Sl. No. **K 00604310**

PC. No. 2022DEC19PHD10



**PROVISIONAL CERTIFICATE**

Hall Ticket No. : **15022P0475**

Institution : INTUK Kakinada

Aadhar No. :

This is to certify that Mr/Mrs. **VARAKUMARI SAMUDRALA**

son/daughter of Shri. **MOSHE** has satisfied  
all the requirements for the award of **Doctor of Philosophy** in  
**December 2022** in the faculty of **ELECTRONICS & COMMUNICATION**  
**ENGINEERING** for the Thesis entitled "Design and Analysis of MIMO  
Microstrip and Dielectric Resonator Antennas for Wireless Applications".



Date : 19-12-2022

\* Medium of Instructions and Examinations in English

*H. R. K. K. K.*  
Controller of Examinations

*[Signature]*  
Director of Evaluation

*[Signature]*  
Registrar

0072

MSH No. 200072

# National Institute of Technology Warangal

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

## Doctor of Philosophy

*on*

**Sarella Chakravarthi**

(Roll No: 717112 )

*who has successfully completed the prescribed requirements for the award  
of the degree and passed the examination in May, 2022 in the Department of*

## Civil Engineering

*Given under the seal of the National Institute of Technology Warangal  
in the Republic of India on the Fourth day of September Two Thousand Twenty Two.*

*Title of the Thesis :* Performance Evaluation of Cement and Emulsified Asphalt Treated Bases.



*N. V.*  
CHAIRMAN  
SENATE & BOARD OF GOVERNORS