

ANDHRA UNIVERSITY  
ఆంధ్ర విశ్వకళాపరిషత్



FACULTY OF ENGINEERING

*This is to certify that*

**Phaneendra Kumar Kopparthi**

*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* **2010**

*Given under the Seal of the University*

Visakhapatnam, A.P., India.

Date : 11<sup>th</sup> April, 2016

*S. N. Sankar*  
Vice-Chancellor

ANDHRA UNIVERSITY  
ఆంధ్ర విశ్వకళాపరిషత్



FACULTY OF ENGINEERING

*This is to certify that*

**Pathakokila Bhaskara Rao**

*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* **2017**

*Given under the Seal of the University*

Visakhapatnam, A.P., India.

Date : 9<sup>th</sup> January, 2019

A handwritten signature in black ink, appearing to be 'S. S. S.', followed by the title 'Vice-Chancellor'.

Vice-Chancellor

# Karunya

INSTITUTE OF TECHNOLOGY AND SCIENCES

(Deemed-to-be-University)

Accredited by NAAC

KARUNYA NAGAR, COIMBATORE - 641 114, TAMIL NADU, INDIA.

Reg. No. : 09ZA004

Mode of Study : Part Time



*The Board of Management  
of  
Karunya Institute of Technology and Sciences,  
a Deemed-to-be-University  
hereby makes known that*

**JEMIMAH CARMICHAEL M**

*has been admitted to the Degree of*

Doctor of Philosophy

in

Civil Engineering

**under the Faculty of Engineering**

*having been certified by duly appointed examiners to be  
qualified to receive the same in July 2020*

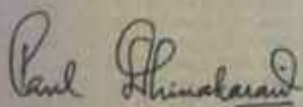
*Title of the Thesis :*

*Enhancement of performance of concrete with nano materials*



*Given under the seal of the Deemed-to-be-University*

*Dated: 10<sup>th</sup> October 2020*

  
CHANCELLOR

  
VICE CHANCELLOR

  
REGISTRAR

அண்ணாமலைப்

ANNAMALAI



பல்கலைக்கழகம்

UNIVERSITY

பொறியியற்புலம்

FACULTY OF ENGINEERING & TECHNOLOGY



00175612

2016 இல் கணிப்பொறி அறிவியல் மற்றும் பொறியியல்

நடத்திய தேர்வுகளில்

வெங்கடேஷ்வர ராவ் க

படைந்து ஆய்வேட்டை மதிப்பிட முறையாக அமைக்கப்பெற்ற தேர்வுக்குழுவினர் சான்றளித்தபடி,

ய்வியல் அறிஞர்

பட்டம் பெறுவதற்கு உரியவர் ஆகின்றார்

அண்ணாமலை பல்கலைக்கழக ஆளவை இதன் வழி அறிவிக்கின்றது.

The Senate of the ANNAMALAI UNIVERSITY hereby makes known

**VENKATESWARA RAO K** has been admitted to the

of **DOCTOR OF PHILOSOPHY in COMPUTER SCIENCE & ENGINEERING,**

having been certified by duly appointed Board of Examiners who valued

thesis to be qualified to receive the same in, **JULY 2016.**

**TITLE OF THE THESIS,**

**A Graph Analysis of Text Mining to Knowledge Mining**

பல்கலைக்கழக முத்திரை பெறுகின்றது

under the seal of the University

பல்கலைக்கழகம்

Registrar

10/10/2016

துணை தேர்வாணையர் (கல்விசார்ந்த)

Dy. Controller of Examination (Academic)

Dr. R. Arumugam  
பதிவாளர் (பொறுப்பு)

Registrar (i/c)

Dr. S. Manian  
துணைவேந்தர்

Vice-Chancellor



# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. : 1012217

Regd. No. : 141PG05201

upon the recommendation of the Board of Management hereby confers on

**B HARISH**



the degree of

**DOCTOR OF PHILOSOPHY**

in the faculty of Electronics and Communication Engineering

for the thesis titled 'Design and implementation of modified high performance pipelined parallel prefix Brent Kung adder for efficient digital design architectures'.

in the year 2021

Given at the University, Vadlamudi, Guntur in the Republic of India.



Vice - Chancellor



Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignani.ac.in/verify](http://www.vignani.ac.in/verify)

Date of Issue: 28-08-2021

CC345140

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



*Mr. Mahaboobshareef Syed*

*S/o. Khadervali*

*having fulfilled the academic requirements in August 2020  
has this day been admitted by the executive council to the degree of*

*Doctor of Philosophy*

( ELECTRICAL & ELECTRONICS ENGINEERING)

Topic: Analyzing Power System with the Integration of Wind and Solar  
Power using Heuristic Methods

Given under the Seal of the University



HTNo : 14022P0236

Date: 09-03-2022



*Wm*  
VICE CHANCELLOR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
HYDERABAD - 500 085, ANDHRA PRADESH, INDIA

RF 400035  
17608339771



430001105795

*Mr. Srinivasababu Nadendla*

*S/o Mr. Jayachandra Prasad*

having fulfilled the academic requirements in *July - 2011*

has this day been admitted by the Executive Council to the Degree of

*Doctor of Philosophy*

*Mechanical Engineering*

Topic: *Experimental Investigation of Natural fiber Reinforced Composites .*

Given under the Seal of the University

H. T. No: 0703PH1512

Date: 07-05-2012

DIRECTOR OF EVALUATION

REGISTRAR

VICE-CHANCELLOR



Sl.No. 17400468  
క్రమసంఖ్య



Register No. PP.COMP.SCI.&ENG.0494C  
రిజిస్టర్ నెం.

# RAYALASEEMA UNIVERSITY



రాయలసీమ విశ్వవిద్యాలయము

FACULTY OF PHYSICAL & LIFE SCIENCES

ఫ్యాకల్టీ ఆఫ్ ఫిజికల్ & లైఫ్ సైన్సెస్

Rayalaseema University hereby confers the Degree of  
రాయలసీమ విశ్వవిద్యాలయం ఇందుమూలంగా పట్టా ప్రధానంచేస్తూ

**DOCTOR OF PHILOSOPHY**

on UPPUKONDA USHA RANI

Son / Daughter of GURUPRASAD కుమారుడు/కుమార్తె

in recognition of his / her research work on "SOFTWARE QUALITY ASSESSMENT USING MODIFIED

GENETIC ALGORITHM: G-O MODEL"

అనే అంశంపై అతడు / ఆమె కొనసాగించిన పరిశోధనకు గుర్తింపుగా

In the Department of COMPUTER SCIENCE & ENGINEERING విభాగంలో

He / she having been found duly qualified for the same in OCTOBER 2019

అతడు / ఆమె తగిన అర్హత సాధించినట్లుగా ప్రకటించడమైనది.

Aadhar No.:

ఆధార్ సంఖ్య :

Given under the Seal of the University  
విశ్వవిద్యాలయ అధికారముద్రతో జారీచేయడమైనది.



Vice-Chancellor

ఉపకులపతి

Kurnool - 518 007, A.P., India.  
కర్నూలు-518 007, ఆంధ్రప్రదేశ్, భారతదేశము

Date : 18-05-2022  
తేదీ :



T21R04139



**ANDHRA UNIVERSITY**  
ఆంధ్ర విశ్వకళాపరిషత్



**FACULTY OF ENGINEERING**

*This is to certify that*

**P B G S NARASIMHA MURTHY**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

**MECHANICAL ENGINEERING**

*in*

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

*qualified to receive the same in* **2021**

*Given under the Seal of the University*

Visakhapatnam, A.P., India.



*[Signature]*  
Vice-Chancellor

Date: **09<sup>th</sup> September 2023**

317

ANDHRA UNIVERSITY  
ఆంధ్ర విశ్వకళాపరిషత్



FACULTY OF SCIENCE

*This is to certify that*

**Balaram Kiran Avasarala**

*has been duly admitted to the*

**Degree of Doctor of Philosophy**

*in* **Inorganic and Analytical 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*

Visakhapatnam, A.P., India.

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



Vice-Chancellor



# KONERU LAKSHMAIAH EDUCATION FOUNDATION

(Deemed to be University)

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



Aadhaar/Passport/Citizenship : 6146 8954 6249

Faculty of Physics

Sl.No. : 113430

Regd No. : 12322003

By the authority of Board of Management

This is to certify that  
*Ch B Annapurna Devi*

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 *eleventh* day of *January* Two Thousand and Nineteen

**Thesis Title:** *"Photoluminescence Properties of Dy<sup>3+</sup>, Eu<sup>3+</sup>, Pr<sup>3+</sup> and Sm<sup>3+</sup> Ions Doped Single and Mixed Alkali Fluoro Tungsten Tellurite Glasses"*



*C. Anand*

Vice - Chancellor



**ACHARYA NAGARJUNA UNIVERSITY**  
అచార్య నాగార్జున విశ్వవిద్యాలయము



**FACULTY OF PHYSICAL SCIENCES**

*This is to certify that*

Mr./Ms. Jayasree Vinnakota

D/O Narayana Rao V

*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* 18 February 2021

*in the Department of* MATHEMATICS

*Title of the Thesis :*

**Some Studies on Translations and Derivations of Intuitionistic Fuzzy BCK-Algebras**

*Given under the Seal of the University*

Nagarjuna Nagar-522 510.  
A. P, India



*[Signature]*  
Vice-Chancellor

Date: **20 AUG 2022**

Disposal No. 000564

Register No.  
PP.MAT.0038-C

# RAYALASEEMA UNIVERSITY KURNOOL



## PROVISIONAL CERTIFICATE

This is to Certify that Mr. / Ms. **KONDAPANENI SRILATHA**  
has qualified himself / herself for the award of the **Degree of Doctor of  
Philosophy in MATHEMATICS** with effect from 24-07-2023  
on the basis of the adjudication reports of the examiners and on his / her  
satisfying other conditions for the award of the degree.

**Entitled** ON CERTAIN CLASSES OF TERNARY I - SEMIRINGS

Kurnool  
Andhra Pradesh, India.

Date : 23-08-2023

Written by :

Compared by :

Supdt.

A.R. 23/8/23

CONTROLLER OF EXAMINATIONS

Disposal No. 000594

Register No.

PP.MAT. 0285

# RAYALASEEMA UNIVERSITY

## KURNOOL



### PROVISIONAL CERTIFICATE

*This is to Certify that Mr. / Ms. **PALADUGU VENKATA RAMANA***  
*has qualified himself / herself for the award of the **Degree of Doctor of***  
**Philosophy in MATHEMATICS** *with effect from 19.07.2023*  
*on the basis of the adjudication reports of the examiners and on his / her*  
*satisfying other conditions for the award of the degree.*

**Entitled** HEAT TRANSFER THROUGH NANO FLUID IN A VERTICAL WAVY CHANNEL WITH TRAVELLING THERMAL WAVES

**Kurnool**  
**Andhra Pradesh, India.**

Date : **16-09-2023**

Written by : *[Signature]*

Compared by : *[Signature]*

Supdt. *[Signature]*

*P*  
A.R. 19/9/23

*[Signature]*  
CONTROLLER OF EXAMINATIONS

Reg. No.

# ACHARYA NAGARJUNA UNIVERSITY



## FACULTY OF COMMERCE AND MANAGEMENT STUDIES

This is to certify that

*Srinivasa Kava Hanvipati*

S/o/D/o

*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 2012  
Commerce & Management Studies*

*Given under the Seal of the University*

NAGARJUNA NAGAR

522 510

10 JAN 2013

*K. Venk*  
Vice-Chancellor

# ACHARYA NAGARJUNA UNIVERSITY

Sl. No. 0001209



Ref. No.

ANU/RC/Ph.D./English  
/SS/4025/Feb. 2023

## PROVISIONAL CERTIFICATE

This is to Certify that

Sri/Smt./Kum. **Sabiya Shaik**

S/o. / D/o. **Subani**

has qualified himself / herself for the award of the Degree of Doctor of Philosophy by Research for the Thesis submitted by him/her entitled **Conversation Analysis of**

**R.K. Narayan's Select Short Stories**

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 Faculty of **Humanities**

with effect from **30-08-2023**

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

Nagarjuna Nagar

Dated **05-09-2023**



Initials of the

Clerk who

Prepared :

Examined :

haw  
05/09/2023  
Bou  
15/9/23

Sri Anmayi P  
CO-ORDINATOR  
5/9/2023  
Research & Development Cell





**ACHARYA NAGARJUNA UNIVERSITY**  
అచార్య నాగార్జున విశ్వవిద్యాలయము



**FACULTY OF COMMERCE & MANAGEMENT STUDIES**

*This is to certify that*

Mr./Ms. Ahamad Shaik

S/O Shamsuddin

*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* 22 February 2016

*in the Department of* Commerce & Business Administration

*Title of the Thesis :* **A Study on Service Quality for Customer Satisfaction and Loyalty in Indian Banking Sector**

*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 : **13 JUN 2017**

  
**Vice-Chancellor**



# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. : 1012339

Regd. No. : 161FG08002

upon the recommendation of the Board of Management hereby confers on

## MUKKU VENKATAIAH



the Degree of

### DOCTOR OF PHILOSOPHY

in the faculty of Mechanical Engineering

for the thesis titled 'Investigating mechanical properties, machining characteristics, corrosion and wear behaviour of fine grained ze41 magnesium alloy produced by friction stir processing' in the year 2021

Given at the University, Vadlamudi, Guntur in the Republic of India.



  
Dean - Evaluation



  
Registrar

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: 22-09-2022



# VIGNAN'S

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

Sl. No. : 1015861

Regd. No. : 181FG03204

upon the recommendation of the Board of Management hereby confers on

**ALLA SUSEELA**



the Degree of

**DOCTOR OF PHILOSOPHY**

**in the discipline of Civil Engineering under the School of Core Engineering**

for the thesis titled

'Performance evaluation on utilization of snail shell powder cement composite in deteriorated structures'.

in the year 2023

Given at the University, Vadlamudi, Guntur in the Republic of India.



Vice - Chancellor



Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: **23-10-2023**

# Osmania University



Faculty of Science.

This is to certify that A. Hanumanth  
son/daughter of A. Appa Rao having pursued a  
course of study prescribed by this University and having passed the  
requisite Examinations by thesis, has been admitted to the Degree of

Doctor of Philosophy

in the Faculty of Science.

The subject in which he/she presented a thesis for the Degree was

( Physics )

Electrical and Dielectric properties of single phase  
and two phase barium titanate Ceramics."

Given under the seal of the University

Hyderabad

Dated 12, 1918

AUGUST 3, 1998

  
Vice-Chancellor

Ref.No:ANU/RC/Ph.D./CSE/RCGI/2717/March 2019



**ACHARYA NAGARJUNA UNIVERSITY**  
ఆచార్య నాగార్జున విశ్వవిద్యాలయము



**FACULTY OF ENGINEERING**

*This is to certify that*

Mr./Ms. Rajesh Chandra Gogineni

S/O Siva Ramakrishna

*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* 28 September 2019

*in the Department of* COMPUTER SCIENCE AND ENGINEERING

*Title of the Thesis :* **EARLY DIAGNOSIS OF BRAIN TUMOUR BASED ON IMAGE ANALYSIS**

*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: 30.06.2019



*K. Ramani*  
Vice-Chancellor



# St. Peter's Institute of Higher Education and Research

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



*The Board of Management of the  
St. Peter's Institute of Higher Education and Research*

*hereby makes known that*

**BARANITHARAN K**

*has been admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*in*

**COMPUTER SCIENCE AND ENGINEERING**

*he having been certified by duly appointed examiners*

*to be qualified to receive the same*

*at the VIVA-VOCE examination held in APRIL 2017.*



Given under the seal of the Institute

Date : 10-03-2018  
Avadi, Chennai - 600 054  
Tamilnadu, India



*Yael K.*  
Registrar

*Pranvi C. Pala*  
Vice-Chancellor

# ACHARYA NAGARJUNA UNIVERSITY

Sl.No. 000181



Ref. No. ANU/RC/Ph.D./CSE  
/KVSSRK/3324/April 2021

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt./Kum. **K V S Sairama Krishna**

S/o. / D/o. **Rangacharyulu**

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

Thesis submitted by him/her entitled **INTRUSION DETECTION**

**SYSTEM USING EVOLUTIONARY COMPUTING TECHNIQUES**

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 **21-08-2021**

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

Nagarjuna Nagar

Dated **24-08-2021**

Initials of the  
Clerk who

Prepared : **6/11/21**  
Examined : **24/08/2021**

**M V -**  
**24/08/21**

**24/08/21**  
CO-ORDINATOR  
Research Cell

CC345247

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



*Mr. Machavarapu Suman*

*S/o. Koteswararao*

*having fulfilled the academic requirements in November 2022  
has this day been admitted by the executive council to the degree of*

*Doctor of Philosophy*

( ELECTRICAL & ELECTRONICS ENGINEERING)

Topic: Combined Operation Of Power System Stabilizer And Static VAR  
Compensator On Multi Machine Power System Using Heuristic Methods

Given under the Seal of the University



HTNo : 13022P0235

Date: 31-05-2023



*Wm*  
VICE CHANCELLOR





ACHARYA NAGARJUNA UNIVERSITY  
ఆచార్య నాగార్జున విశ్వవిద్యాలయము



FACULTY OF ENGINEERING

*This is to certify that*

Mr./Ms. Pavani Vellalacheruvu

D/O Venkateswarlu

*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* 20 November 2020

*in the Department of* COMPUTER SCIENCE & ENGINEERING

*Title of the Thesis :* **SECURED DATA TRANSMISSION IN CLOUD ENVIRONMENT USING CRYPTOGRAPHY 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: **26 DEC 2020**



*R. S. S.*  
Vice-Chancellor

# ACHARYA NAGARJUNA UNIVERSITY



Sl.No. 000897

Ref. No. ANU/RC/Ph.D./  
CSE/SSK/3052/July 2020

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt./Kum. **Satya Sandeep Kanumalli**

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 **A SECURE FRAMEWORK TO**

**DEFEND NETWORK LEVEL ATTACKS IN INTERNET OF VEHICLES**

**(IOV)**

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 **12-12-2020**

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

Nagarjuna Nagar

Dated **14-12-2020**

Initials of the

Clerk who

Prepared :

Examined :

*14/12/20*  
*16/12/2020* A3) *16/12/20*

  
CO-ORDINATOR  
Research Cell

# ACHARYA NAGARJUNA UNIVERSITY



Sl.No. 000372

Ref. No. ANU/RC/Ph.D./  
CSE/SV/2525/Oct. 2018

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt./Kum. **Vistamsetty Sujatha**

S/o. /D/o. **V. Lakshmaiah**

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

*Thesis submitted by him/her entitled* **A NOVEL APPROACH FOR MISSING**

**DATA IMPUTATION IN MICRO ARRAY GENE EXPRESSION DATA**

*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* **08-04-2019**

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

Nagarjuna Nagar

Dated **12-04-2019**

Initials of the

Clerk who

Prepared :

Examined :

BVG  
12/4/19

Ref  
12/4/19

CO-ORDINATOR  
Research Cell

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

CC 033896



H.T.No:11PH0508

Aadhaar No:847964410043



*Thulasi Bikku*

*D/o. Subba Rao*

*&*

*Bikku Vijaya Gowri*

*having fulfilled the academic requirements in March, 2018 has this day*

*been admitted by the Executive Council to the Degree of*

**\*\*\* Doctor of Philosophy \*\*\***

**(Computer Science & Engineering)**

**for the Thesis entitled,**

**"HADOOP BASED DECISION-MAKING SYSTEM USING CLASSIFICATION TECHNIQUES"**

*Date of Viva Voce : 24.03.2018* Given under the Seal of the University

Wednesday, 27 February, 2019.



*[Signature]*

DIRECTOR OF EVALUATION

*[Signature]*

REGISTRAR

*[Signature]*

VICE CHANCELLOR

# ACHARYA NAGARJUNA UNIVERSITY



Sl.No. 000803

Ref. No. ANU/RC/Ph.D./  
CSE/VM/2812/Aug. 2019

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt./Kum. **Vasumathidevi Majeti**

S/o. /D/o. **Radhakrishnamurthy**

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

*Thesis submitted by him/her entitled* **Detection of Seizures - A Novel**

**Approach using Wireless Sensor Networks**

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

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

*in the Faculty of* **Engineering**

*with effect from* **24-03-2020**

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

Nagarjuna Nagar

Dated

**07-06-2020**



**ACHARYA NAGARJUNA UNIVERSITY**  
ఆచార్య నాగార్జున విశ్వవిద్యాలయము



**FACULTY OF ENGINEERING**

*This is to certify that*

Mr./Ms. V V Nagaraju Goriparthi

S/O Sambaiah

*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* 31 January 2022

*in the Department of* Electrical and Electronics Engineering

*Title of the Thesis :* **Analysis and Performance Evaluation of Multilevel Inverter Fed Induction Motor**

*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: **7 OCT 2022**



*[Signature]*  
Vice-Chancellor

Register No : **14DRPCS008**

Folio No : **000277**



## 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 **SENTHIL KUMAR A**

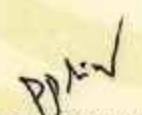
has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY in COMPUTER SCIENCE**

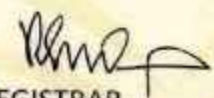
under the **FACULTY OF SCIENCE**

having been certified by the duly appointed examiners to be qualified to receive the same on **28<sup>th</sup> AUGUST 2019**

Coimbatore

Date: **14.09.2019**

  
CONTROLLER OF EXAMINATIONS

  
REGISTRAR

  
VICE-CHANCELLOR

SEAL



S.No. IIT(BHU)-642

Roll No. 15091001



भारतीय  
प्रौद्योगिकी  
संस्थान  
काशी हिन्दू विश्वविद्यालय



INDIAN  
INSTITUTE OF  
TECHNOLOGY  
BANARAS HINDU UNIVERSITY

## PROVISIONAL CERTIFICATE

This is to certify that Mr./Ms. Mr. Ashwini Kumar Mishra  
S/o/D/o Shri Brahma Deo Mishra has completed  
all requirements for the award of the degree of **Doctor of Philosophy** for the  
year of 2020.

The Degree will be issued to him/her on the occasion of the Convocation  
of the Institute and the date of award shall be 30.12.2020.

*Title of the Thesis* Fabrication and Characterization of CuO Nanostructure  
Based Non-Enzymatic Glucose Sensors

Dated: 25.11.2021

Ashwini

*V. Kashyap*  
Dean (Academic Affairs)  
अधिष्ठाता (शैक्षणिक-कार्य) (i/c)  
DEAN (Academic Affairs)  
भारतीय प्रौद्योगिकी संस्थान  
Indian Institute of Technology  
(बनारस हिन्दू विश्वविद्यालय)  
Banaras Hindu University  
वाराणसी-Varanasi-221005



जोधपुर राष्ट्रीय विश्वविद्यालय, जोधपुर  
Jodhpur National University, Jodhpur



The Chairman and Members

of

The Board of Management confer on

**CHINMAYA KUMAR PRADHAN**

the degree of

**DOCTOR OF PHILOSOPHY**

IN

**FACULTY OF ENGINEERING & TECHNOLOGY**

**(ELECTRICAL ENGINEERING)**

in the year 2017.

**Topic: "DESIGN AND ANALYSIS OF EEG BASED LEFT-RIGHT  
HAND MOVEMENT AND EMOTION DETECTION".**

President (Vice-Chancellor)

Jodhpur

Registrar

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

Sl. No. K 00464815

PC. No.2021APR03PHD03



**PROVISIONAL CERTIFICATE**

Hall Ticket No. : 0803PH08A37

Institution : JNTUK Kakinada

Aadhar No. :

This is to certify that Mr/Mrs. **ERRAMPALLI SUNEEL**

son/daughter of Shri. **PRABHAKAR** has satisfied all the

requirements for the award of **Doctor of Philosophy** in the faculty of

**ELECTRONICS & COMMUNICATION ENGINEERING** for the Thesis

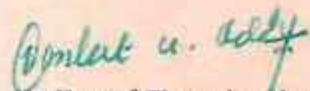
entitled "Impedance Bandwidth Improvement of MSA under Coupling

Technique".



Date : 03-04-2021

\* Medium of Instructions and Examinations in English

  
Controller of Examinations

  
Director of Evaluation

  
Registrar

CC345073

JANAKI LAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
KAKINADA - 533 003, ANDHRA PRADESH, INDIA



*Ms. Gudise Sandhya*

*D/o. David Raju*

*having fulfilled the academic requirements in March 2020.*

*has this day been admitted by the executive council to the degree of*

*Doctor of Philosophy*

(ELECTRONICS & COMMUNICATION ENGINEERING)

Topic: Detection and Evaluation of Normal and Abnormal Tissues from the  
MR Images of the Brain

Given under the Seal of the University



HTNo : 12022P0406

Date: 09-03-2022



*W.M.*  
VICE CHANCELLOR

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

Sl. No. K 00465889

PC. No.2021MAY07PII002



**PROVISIONAL CERTIFICATE**

Hall Ticket No. : 14022P0449

Institution : JNTUK Kakinada

Aadhar No. :

This is to certify that Mr/Mrs. THRISULKUMAR JAKKA

son/daughter of Shri. SIVAPRASAD has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING for the Thesis entitled "Remote sensing of Land cover changes using polarimetric Synthetic Aperture Radar Images Based on Optimization Algorithms with Fuzzy C-Means Clustering".



Date : 07-05-2021

\* Medium of Instructions and Examinations in English

Controller of Examinations

Director of Examination

Registrar



# MANIPAL UNIVERSITY JAIPUR

Established under Act No. 21 of 2011, State of Rajasthan; Recognised u/s 2(f) of UGC Act, 1956

## Faculty of Engineering

*This is to certify that*

**Jitendra Kumar Saini**

*has been conferred the degree of*

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

*in recognition of his research work entitled*

**Some New Low-Power High-Speed Full Adder Circuits and Their Applications Using Carbon Nanotube Field Effect Transistor**  
*having fulfilled the prescribed requirements in the month of October 2019.*



President

Given Under the Seal of Manipal University Jaipur, Rajasthan-India | On This Date: November 08, 2019

Chairperson



Reg No:160402603  
Sl. No:MUJ105622



ACHARYA NAGARJUNA UNIVERSITY  
ఆచార్య నాగార్జున విశ్వవిద్యాలయం



FACULTY OF ENGINEERING

*This is to certify that*

Mr./Ms. Anjaneyulu Katuru

S/O Dhanujaya Rao

*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* 14 June 2019

*in the Department of* Electronics and Communication Engineering

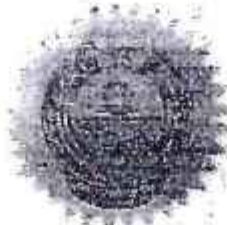
*Title of the Thesis* DESIGN AND DEVELOPMENT OF MICROSTRIP PATCH ANTENNA FOR ULTRA WIDEBAND APPLICATIONS

*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: 15 NOV 2019



*P. S. C.*  
Vice-Chancellor

# Anna University



Reg.No.2012140028/BGS

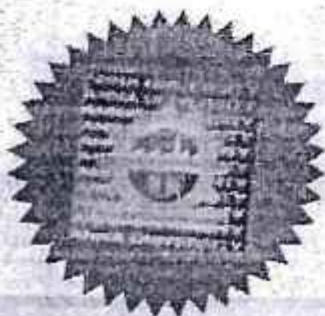


The Syndicate of the Anna University hereby makes known that **BALAMURUGAN K S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2018. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".


*Title of the Thesis*

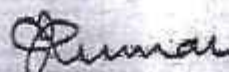
**FAST AND SECURE RE-AUTHENTICATION FOR NEXT GENERATION SUBSCRIBERS**


*Given under the seal of the University*



Chennai 600025  
India  
December 2018

  
Controller of Examinations

  
Registrar

  
Vice-Chancellor



# KONERU LAKSHMAIAH EDUCATION FOUNDATION

(Deemed to be University)

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



Aadhaar/Passport/Citizenship : 6517 6194 0833

Faculty of Electronics and Communication Engineering

Sl.No : 117128

By the authority of Board of Management

Regd No. : 13304096

This is to certify that

*Veeravenkatakumar Kota*

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 Tenth September Two Thousand and Nineteen

Thesis Title: *"Human Action Recognition on Unconstrained Indian Classical Dance Videos"*



*C. Srinivas*  
Vice - Chancellor



# राष्ट्रीय प्रौद्योगिकी संस्थान सिलचर

अभिषेक की अनुशंसा पर

मनीर अहमद

पंजीकरण संख्या १५-३-०४-१०६

को

अनियंत्रित वातावरण के लिए मानव नेत्र मध्यविन्दु स्थानीयकरण विधियों का डिजाइन और विकास

में

अनुसंधान कार्य की मान्यता पर

विद्या-वाचस्पति

को उपाधि प्रदान करते हैं।

भारतीय गणराज्य के अंतर्गत सिलचर में आज २ नवंबर २०२१ को संस्थान की

यह मुद्रा अंकित उपाधि दी गई।



**National Institute of Technology Silchar**

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

**DOCTOR OF PHILOSOPHY**

*on*

**Manir Ahmed**

*Registration No. 15-3-04-106*

*in recognition of the research work on*

***Design and Development of Human Eye Center Localization Methods for Uncontrolled Environment***

*This certificate is issued this day, the 2<sup>nd</sup> November 2021, under the seal of the Institute at Silchar in the Republic of India*

निदेशक एवं अध्यक्ष, विद्या परिषद  
Director and Chairman, Senate

  
कुलसचिव  
Registrar

  
अध्यक्ष, शासी मंडल  
Chairperson, Board of Governors

# Anna University



Reg.No. 1414469196/RG

The Syndicate of the Anna University hereby makes known that **KAMALAKANNAN S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2021. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

*Title of the Thesis:*

**INVESTIGATIONS ON PRODUCT ERROR CONTROL CODING TECHNIQUES**

*Given under the Seal of the University*



Chennai 600 025  
India  
July 2022

*P. Sankaranarayanan*  
Controller of Examinations

*I. R. S.*  
Registrar

*R. V. S.*  
Vice-Chancellor



# VIGNAN'S

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

Sl. No. 1012098  
Regd. No. 161PG06201

upon the recommendation of the Board of Management hereby confers on  
**MANUKONDA DIVYA**



the degree of

## DOCTOR OF PHILOSOPHY

in the faculty of Electrical and Electronics Engineering

for the thesis titled 'Design and development of a standalone hybrid solar bladeless wind power system'.

in the year 2021

Given at the University, Vadlamudi, Guntur in the Republic of India.



*M. S. Prasad*



*[Signature]*

Vice - Chancellor

Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: 28-08-2021



# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. : 1014154

Regd. No. : 171FG06201

upon the recommendation of the Board of Management hereby confers on

## POTHURAJU PANDI



the Degree of

### DOCTOR OF PHILOSOPHY

in the discipline of **Electrical and Electronics Engineering** under  
the **School of Electrical, Electronics and Communication  
Engineering**

for the thesis titled

'Design and implementation of embedded chopper with bidirectional dual port DC-AC converter  
for wide voltage range applications'.

in the year 2022

Given at the University, Vadlamudi, Guntur in the Republic of India.



Vice - Chancellor



Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: **23-10-2023**



# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. : 1013771

Regd. No. : 171FG06203

upon the recommendation of the Board of Management hereby confers on

## SHAIK GOUSE BASHA



the Degree of

### DOCTOR OF PHILOSOPHY

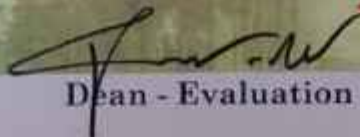
in the faculty Electrical and Electronics Engineering

for the thesis titled 'Performance analysis of modified thirteen level inverter for shunt active power filter'.

in the year 2022

Given at the University, Vadlamudi, Guntur in the Republic of India.



  
Dean - Evaluation



  
Registrar

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: 22-09-2022

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 1503030



H.T No. : 0803PH0726

*Mr. Nagavenkateswarlu Aiyam*

*S/o. Ramalingeswara Rao*

having fulfilled the academic requirements in *January - 2022*  
has been admitted by the Executive Council to the Degree of

*Doctor of Philosophy*

*Electrical And Electronics Engineering*

Topic: "Power Flow Control Through Modelling and Control of UPFC in Deregulated Power Systems".

Given under the Seal of the University

Date: 26-02-2022



DIRECTOR OF EVALUATION

VICE CHANCELLOR



410114100033

PC No  
322001896

CC345237

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



COPY *Mr. Badugu Jayababu* COPY

*S/o. Badugu Jeeva Raju*

*having fulfilled the academic requirements in February 2023  
has this day been admitted by the executive council to the degree of*

*Doctor of Philosophy*

( ELECTRICAL & ELECTRONICS ENGINEERING )

Topic: Investigations On Harmonic Analysis And Power Management Of  
Residential Distribution Systems With The Integration Of Electric Vehicles

Given under the Seal of the University



HTNo : 12022P0221

Date: 31-05-2023



*Wm*

VICE CHANCELLOR



15/1506/513EE1016



# National Institute of Technology Rourkela

Upon the recommendation of the Senate,  
hereby confers the degree of

**Doctor of Philosophy**

on

*Joseph Sanam*

who has successfully defended the thesis entitled  
*“Planning and Operation of DSTATCOM in Electrical Distribution  
Systems”*

and has fulfilled all other requirements  
for the degree in the Department of  
*Electrical Engineering.*

Given this day, under the seal of the Institute  
at Rourkela in the Republic of India,  
the 20<sup>th</sup> Day of January 2018.



Registrar

Director



Roll No.: EE16D1002



## **NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY**

**Karaikal, India**

On the recommendation of Senate hereby confers the degree of

**Doctor of Philosophy**

on

**SATEESH KUMAR VAVILALA**

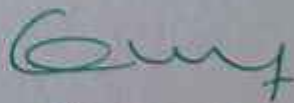
for having successfully completed the prescribed programme of study in **June 2021** and presenting the thesis entitled

**Design and Implementation of the Fractional Order Controllers for the Coupled Tank System**

given this day, the **19<sup>th</sup> of May 2022** under the seal of the Institute.

  
Registrar

  
Director  
and Chairperson Senate

  
Chairperson  
Board of Governors



Disposal No. T(2)/8608/2018 Date 23/12/2019

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

# ANDHRA UNIVERSITY



Serial No. 1396

## PROVISIONAL CERTIFICATE

This is to Certify that Sri / Smt. / Kum. DUMALA ANVESHINI  
has qualified himself/herself for the Award of Doctor of Philosophy Degree by  
Research for the Thesis submitted by him / her entitled "SOME STUDIES  
RELATED TO IMPROVE THE PERFORMANCE OF LANMAR  
ROUTING PROTOCOL IN MOBILE AD HOC NETWORKS"

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 SYSTEMS ENGINEERING,  
in the year 2019.

VISAKHAPATNAM

Dt 01/01/2020

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

M. Hemma Dik  
DEPUTY REGISTRAR (ACADEMIC)

Andhra University Press, Visakhapatnam



# Vel Tech

Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
Deemed to be University, Est. by Act of UGC, Aug. 1979



Sl. No. : 7396

Reg. No. : 14RECS1010

The Board of Management of  
Veltech Rangarajan Dr. Sagunthala R & D Institute of  
Science and Technology (Deemed to be University)

hereby makes known that

**LAXMAN NARAYANA VEJENDLA**

**S/O SAVITHRI VEJENDLA**

has been admitted to the Degree of

Doctor of Philosophy

in

**COMPUTER SCIENCE AND ENGINEERING**

having been certified by duly appointed examiners to be  
qualified to receive the same in the year **JUL-2019**

in accordance with the provisions of

UGC Regulations 2009 (for the award of Ph.D. Degree)

Title of the Thesis:

**ENHANCED IDENTITY BASED CRYPTOGRAPHY FOR MOBILE  
AD-HOC NETWORKS**

Given under the seal of this Deemed to be University

Dated : 13.08.2019



  
Registrar

  
Vice Chancellor

  
President



# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. : 1015349

Regd. No. : 181FG08206

upon the recommendation of the Board of Management hereby confers on

**ARUNKARTHIKEYAN K**



the Degree of

**DOCTOR OF PHILOSOPHY**

**in the discipline of Mechanical Engineering under the School of  
Core Engineering**

for the thesis titled

'Studies on cryogenic treated WC-Co tool performance at dry machining conditions',  
in the year 2023

Given at the University, Vadlamudi, Guntur in the Republic of India.



Vice - Chancellor



Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignans.ac.in/verify](http://www.vignans.ac.in/verify)

Date of Issue: **23-10-2023**

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

Sl. No. K 00468605

PC. No. 2021SEP02PHD05



**PROVISIONAL CERTIFICATE**

Hall Ticket No. : 10022P0309

Institution : JNTUK Kakinada

Aadhar No. :

This is to certify that Mr/Mrs. **BUSI J MOHANA RAO**

son/daughter of Shri. **VEERASWAMY** has satisfied all the

requirements for the award of **Doctor of Philosophy** in the faculty of

**MECHANICAL ENGINEERING** for the Thesis entitled "Thermal

Gasification of Biomass in Fluidized Bed".



Date : 02-09-2021

\* Medium of Instructions and Examinations in English

*[Signature]*  
Controller of Examinations

*[Signature]*  
Director of Evaluation

*[Signature]*  
Registrar

0098

MSH No. 180098

# National Institute of Technology Warangal



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

**Doctor of Philosophy**

*on*

**Balijepalli Rama Krishna**  
(Roll No: 716134 )



*who has successfully completed the prescribed requirements for the award  
of the degree and passed the examination in June, 2020 in the Department of*

**Mechanical Engineering**



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

*Title of the Thesis :* DESIGN, DEVELOPMENT AND PERFORMANCE PARAMETERS EVALUATION OF SMALL SCALE SOLAR  
UPDRAFT TOWER (SUT) PLANT.



*N. V. [Signature]*

CHAIRMAN  
SENATE & BOARD OF GOVERNORS

ANDHRA UNIVERSITY  
ఆంధ్ర విశ్వకళాపరిషత్



FACULTY OF ENGINEERING

*This is to certify that*

**Gangolu Nageswara Rao**

*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* **2017**

*Given under the Seal of the University*

Visakhapatnam, A.P., India.

Date : 9<sup>th</sup> January, 2019

A handwritten signature in black ink, appearing to read 'C. S. S.', positioned above the title 'Vice-Chancellor'.

Vice-Chancellor



VIT<sup>®</sup>

Sl.No.: 135717

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

Register No. 16PHD0402

**PROVISIONAL CERTIFICATE**



This is to certify that GOPIDESI RADHA KRISHNA

has qualified for the degree of DOCTOR OF PHILOSOPHY

he / she having passed the above Degree Examination held in 20-Oct-2023

as follows :

School : School of Mechanical Engineering

Thesis Title : EVALUATING THE PERFORMANCE, EMISSION, AND  
COMBUSTION CHARACTERISTICS OF  
HYTHANE/WATER/DIESEL EMULSION DUAL FUEL  
ENGINE

DATE: 24-Nov-2023

VELLORE INSTITUTE OF TECHNOLOGY  
VELLORE - 632 014, TAMIL NADU, INDIA.

CONTROLLER OF EXAMINATIONS





# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. :1012102

Regd. No. :121PG08202

upon the recommendation of the Board of Management hereby confers on

## K VENGAL RAO



the degree of

### DOCTOR OF PHILOSOPHY

in the faculty of Mechanical Engineering

for the thesis titled 'Experimental and simulation studies on resin impregnation for optimal mechanical properties of glass fiber reinforced polymer composites'.  
in the year 2021

Given at the University, Vadlamudi, Guntur in the Republic of India.



*MYS Prasad*



*[Signature]*

Vice - Chancellor

Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignans.ac.in/verify](http://www.vignans.ac.in/verify)

Date of Issue: 28-08-2021

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# VIGNAN'S

Foundation for Science, Technology & Research

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- Estd. u/s 3 of UGC Act 1956

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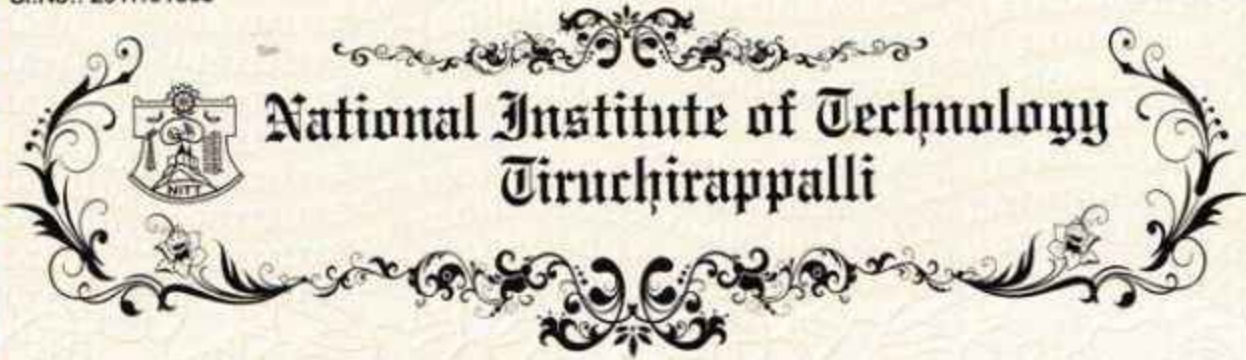
Given at the University, Vadlamudi, Guntur in the Republic of India.



1145 Prasad



1145



*hereby confers the degree of*

*Doctor of Philosophy*

*of the institute*

*on*

**M MOHAMMED ASIF**

*for successfully completing the prescribed programme  
of study and presenting the thesis entitled*

**MECHANICAL AND METALLURGICAL INVESTIGATIONS  
ON FRICTION WELDING OF UNS S31803 DUPLEX STAINLESS STEEL  
AND EFFECTS OF POST WELD HEAT TREATMENT  
ON THE PROCESSED JOINTS**

*at the viva-voce examination held on Sixth September 2016*

*Given this day the twelfth of August, 2017*

*Under the seal of the Institute*



TIRUCHIRAPPALLI - 620 015, INDIA



*S. S. Srinivasan*  
Registrar

*M. S. Thomas*  
Director & Chairperson,  
Board of Governors

S.No.: 016451



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

PC. No.: 012775

REGD. No.: 171FG08203

**PROVISIONAL CERTIFICATE**

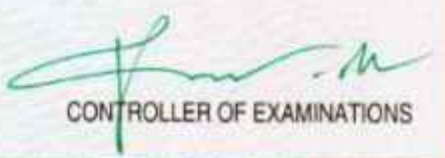
*This is to certify that Mr. MUNAGOTI VENKATA PAVAN has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of MECHANICAL ENGINEERING in DECEMBER 2021 for thesis titled 'Fused deposition modeling studies on polylactic acid/copper composite filament'.*



VADLAMUDI.

DATE: 24-1-2022

  
VERIFIED BY

  
CONTROLLER OF EXAMINATIONS



**UPM**  
UNIVERSITI PUTRA MALAYSIA  
BERSAMA BERSAMA

*It is hereby certified that*

**SUJITH BOBBA**

*having fulfilled the requirement prescribed by the Senate  
has been awarded the*

**Doctor of Philosophy**



PH003474

  
Vice Chancellor

  
Registrar



*Senate Approval Date: 17 October 2019*



**SEKOLAH PENGAJIAN SISWAZAH**  
**SCHOOL OF GRADUATE STUDIES**

**NAME** : SUJITH BOBBA  
**MATRIC NO.** : GS46375  
**PROGRAMME** : DOCTOR OF PHILOSOPHY  
**FIELD OF STUDY** : MECHANICAL ENGINEERING  
**FACULTY/INSTITUTE** : FACULTY OF ENGINEERING  
**ADMITTED** : APRIL 2016  
**SENATE APPROVAL** : 17 OCTOBER 2019

CODE	COURSE TITLE	CREDIT	GRADE	CODE	COURSE TITLE	CREDIT	GRADE
<i>SECOND SEMESTER 2015/2016</i>				<i>FIRST SEMESTER 2016/2017</i>			
SPS6903	SEMINAR (RESEARCH PROPOSAL)	1	M	BBM1401	BASIC OF MALAY SKILL I	3	M
SPS6999(6)	DOCTORAL RESEARCH	6	M	KBP5900	RESEARCH METHODOLOGY	3	A-
				SPS6999(9)	DOCTORAL RESEARCH	9	M
<i>SECOND SEMESTER 2016/2017</i>				<i>FIRST SEMESTER 2017/2018</i>			
SPS6999(12)	DOCTORAL RESEARCH	12	M	SPS6999(12)	DOCTORAL RESEARCH	12	M
<i>SECOND SEMESTER 2017/2018</i>				<i>FIRST SEMESTER 2018/2019</i>			
SPS6999(12)	DOCTORAL RESEARCH	12	M	SPS6999(12)	DOCTORAL RESEARCH	12	M
<i>SECOND SEMESTER 2018/2019</i>							
SPS6999(12)	DOCTORAL RESEARCH	12	M				

**CUMULATIVE CREDIT** : 3  
**CUMULATIVE GRADE POINT AVERAGE** : 3.750  
**TITLE OF THESIS** : MECHANICAL CHARACTERIZATION OF S-GLASS AND E-GLASS REINFORCED EPOXY COMPOSITE ELBOW PIPE JOINTS SUBMERGED IN SEA WATER  
**DEGREE AWARDED** : DOCTOR OF PHILOSOPHY

\* see overleaf for detail Grading System  
Date of Issue : 25 October 2019

**NASRUL AMRI SELAMAT**  
Senior Assistant Registrar  
School of Graduate Studies  
Universiti Putra Malaysia  
43400 UPM Serdang, Selangor  
nasrulamri@upm.edu.my



# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. : 1012220

Regd. No. : 171PG08201

upon the recommendation of the Board of Management hereby confers on

**DEEPTHI T**



the degree of

**DOCTOR OF PHILOSOPHY**

in the faculty of Mechanical Engineering

for the thesis titled 'Preparation and machining studies on aluminium-lanthanum phosphate composite'.

in the year 2021

Given at the University, Vadlamudi, Guntur in the Republic of India.



*MYS Prator*

Vice - Chancellor



*[Signature]*

Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: 28-08-2021



# VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

- Estd. u/s 3 of UGC Act 1956

Sl. No. :1012103

Regd. No. :161FG08001

upon the recommendation of the Board of Management hereby confers on

## BORIGORLA VENU



the degree of

## DOCTOR OF PHILOSOPHY

### in the faculty of Mechanical Engineering

for the thesis titled 'Experimental investigation on microstructure and mechanical properties of ultrasonic vibration assisted friction stir welding of AA2014-T651 alloy'.  
in the year 2021

Given at the University, Vadlamudi, Guntur in the Republic of India.



*Prasad*



Vice - Chancellor

Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: 28-08-2021



# ACHARYA NAGARJUNA UNIVERSITY

Sl.No. 000524



Ref. No. ANU/RC/Ph.D./  
Maths/VPB/2573/Dec. 2018

## PROVISIONAL CERTIFICATE

*This is to Certify that*

Sri/Smt./Kum. **Venkata Purnima Bathina**

S/o. /D/o.

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

Thesis submitted by him/her entitled **Investigations in Integral**

**Transforms Involving I-Function of Two Variables and Its**

**Applications in Solving Boundary Value Problems**

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

Doctor of Philosophy in **Mathematics**

in the Faculty of **Physical Sciences**

with effect from **13-07-2019**

The Degree has been awarded in accordance with UGC Regulations 2009

Nagarjuna Nagar

Dated **15-07-2019**

Initials of the  
Clerk who

Prepared :  
Examined :

15/7/19  
16/7/19

CO-ORDINATOR  
Research Cell

Regd. No.

00101

ACHARYA NAGARJUNA UNIVERSITY  
ఆచార్య నాగార్జున విశ్వవిద్యాలయము



FACULTY OF NATURAL SCIENCES

*This is to certify that*

Mr./Ms.

*Hema Krishna Ravuri*

*S/o Chandra Sekhara Rao Ravuri*

*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* Environmental Sciences

*Given under the Seal of the University*

Nagarjuna Nagar-522 510.  
A.P, India

Date: 24 NOV 2011



*K. V. V. V.*  
Vice-Chancellor



# VIGNAN'S

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

Sl. No. : 1015700

Regd. No. : 171FG03201

upon the recommendation of the Board of Management hereby confers on

## SYED HABIBUNNISA



the Degree of

### DOCTOR OF PHILOSOPHY


### in the discipline of Civil Engineering under the School of Core Engineering

for the thesis titled

'Comprehensive investigations on wrightia tinctoria seed fibres based cement composites'  
in the year 2023

Given at the University, Vadlamudi, Guntur in the Republic of India.



  
Vice - Chancellor



  
Chancellor

Given under the seal of Institute

To verify the authenticity of this certificate visit [www.vignan.ac.in/verify](http://www.vignan.ac.in/verify)

Date of Issue: 23-10-2023