

S.No.: 004795



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 004762

REGD. No.: 101PG05001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. SUBRAHMANYAM CH has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of*  
**ELECTRONICS & COMMUNICATION ENGINEERING Branch in**  
**OCTOBER 2016 for thesis titled 'A novel approach for no reference**  
**quality assessment of jpeg2000 images and h.264 videos based**  
**on human visual system'.**



VADLAMUDI:

DATE: 14-10-2016

  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No.: 004796



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 004763

REGD. No.: 111PG05002

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. CHANDRA SHAKER PITTALA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING Branch in OCTOBER 2016 for thesis titled 'Some new operational trans-resistance amplifier based sinusoidal/square waveform generators'.*



VADLAMUDI,

DATE: 14-10-2016

  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

SN: 1004812



**VIGNAN'S**  
UNIVERSITY  
Foundation for Science, Technology & Research  
(Instituted by UGC Act of 1956)

PC No. 004765

REGD. No. 131RC31207

**PROVISIONAL CERTIFICATE**

KRISHNARRASAD R

*Doctor of Philosophy in the field of* **CHEMICAL**  
**ENGINEERING** / **NOVEMBER 2016** / *for thesis titled* studies on  
nanocomposites of polypropylene and polylactic acid blends  
reinforced with halloysite nanotubes.



VADLAMUDI  
DATE 3-12-2016

VERIFIED BY

CONTROLLEER OF EXAMINATIONS

S.No. 005956



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 005876

REGD. No.: 121FG01001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. ABRAHAM PEELE KARLAPUDI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JULY 2017 for thesis titled 'Characterization and Emulsifying Activities of a Quorum Sensing Biosurfactant Produced by a Marine Bacterium'.*



VADLAMUDI.

DATE: 19-7-2017

TSG  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No. 005957



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 005877

REGD. No.: 131PG31008

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. YARLAGADDA BHARATH has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in JULY 2017 for thesis titled 'Novel synthetic and biological studies on Benzothiazoles, Benzimidazoles, oxazolidinones and pyrazolopyrimidines'.*

COPY



VADLAMUDI.  
19-7-2017  
DATE

TSB  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 005958



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 005878

REGD. No.: 131PG01005

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. T.C. VENKATESWARULU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JULY 2017 for thesis titled 'Optimization of medium components and process parameters for enhanced production of Lactase by a bacterium isolated from dairy effluent'.*

*COPIES*



VADLAMUDI.

DATE: 19-7-2017

T.S.B.  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

9

S.No.: 005973



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 005892

REGD. No.: 111PG05006

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. VALLABHUNI VIJAY has satisfied all the requirements*  
*for the award of Doctor of Philosophy in the faculty of*  
**ELECTRONICS & COMMUNICATION ENGINEERING in JULY 2017**  
*for thesis titled 'Second Generation Differential Current Conveyor*  
*(DCCII) and its applications'.*



VADLAMUDI.

DATE: 24-7-2017

TSE  
VERIFIED BY

  
CONTROLLER OF EXAMINATIONS

S.No.: 005981



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 005900

REGD. No.: 131FG06201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. PAKKIRAI AH B has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRICAL & ELECTRONICS ENGINEERING in AUGUST 2017 for thesis titled 'Investigations on performance improvement of solar photovoltaic system fed asynchronous motor drive'.*



VADLAMUDI.

DATE: 1-9-2017

TSS  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS



S.No.: 006045



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

PC. No.: 005963

REGD. No.: 141FG05201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. JOHN WILLIAM CAREY MEDITHE has satisfied*  
*all the requirements for the award of Doctor of Philosophy in the faculty of*  
**ELECTRONICS & COMMUNICATION ENGINEERING** *in*  
**SEPTEMBER 2017** *for thesis titled 'Characterization of Ocularity in*  
**Electroencephalogram'.**

*Certificate Received*  
*u/u/n*



VADLAMUDI.

DATE: 4-11-2017

*TSB*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

10

S.No.: 006048



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 005965

REGD. No.: 141PG01004

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. RASMITA PATRA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in NOVEMBER 2017 for thesis titled 'In vivo Studies on Drug-Drug Interactions of Antagonistic Valsartan on Gliclazide and Metformin in Normal and Streptozotocin Induced Diabetic Rats'.*



VADLANUDI.

DATE: 11-12-2017

T.S.B.  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

11

S.No.: 006046



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 005964

REGD. No.: 131PG31205

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. KOTI REDDY EEDA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in NOVEMBER 2017 for thesis titled 'Design, Synthesis and Biological Studies of Novel Molecules from MBH Acetates and Tacrine Derivatives as Acetylcholinesterase Inhibitors'.*



VADLAMUDI.  
DATE: 8-12-2017

  
VERIFIED BY

  
CONTROLLER OF EXAMINATIONS

12

S.No.: 006104



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 006020

REGD. No.: 111PG12001

**PROVISIONAL CERTIFICATE**

*This is to certify that, Mr. JAYAPALA REDDY A V has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of*  
**MANAGEMENT STUDIES in MARCH 2018 for thesis titled 'Digital Strategy in the Globalization of Medium Sized Indian Pharma Companies – An Empirical Study'.**



VADLAMUDI.

DATE: 25-4-2018

T38  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No.: 006868



**VIGNANA'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd U/s 3 of UGC Act of 1956)

PC.No.: 006782

REGD.No.: 121PG01202

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. GANUGULA MOHANA SHEELA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in MARCH 2018 for thesis titled 'Study of pathogenic factors of Staphylococcus aureus from clinical cases of livestock and poultry'.*



VADLAMUDI.  
2-7-2018  
DATE:

*TSL*  
VERIFIED BY:

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 006100



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 006016

REGD. No.: 131PG12002

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. D.V.R. SUBRAHMANYA SASTRY-T has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of MANAGEMENT STUDIES in MARCH 2018 for thesis titled 'Consumer perception about the e-satisfaction development process with reference to online retail service quality'.*



VADLAMUDI.

DATE 17-4-2018

T38  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No.: 006863



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd U/s 3 of UGC Act of 1956)

PC.No.:

006778

REGD. No.: 131PG31004

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. M SUBRAMANYAM has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in APRIL 2018 for thesis titled 'Carbon - carbon and carbon - hetero atom bond formation using new synthetic methodologies of new biologically active 1,3,4 oxadizole fused benzothiazole derivatives'*



VADLAMUDI.

7-6-2018

DATE:

*TZ*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 006107



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

PC. No.: 006023

REGD. No.: 111PG05004

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. SARADA MUSALA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING in APRIL 2018 for thesis titled 'Design of new high performance / low power full swing XOR / XNOR logic gates using MOSFET / FINFET / CNTFET transistors'.*



VADLAMUDI,  
7-5-2018  
DATE:

TSS  
VERIFIED BY

CONTROLLER OF EXAMINATIONS



S.No.: 006109



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 006024

REGD. No.: 131PG31202

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. GARBAPU SURESH has satisfied all the requirements*  
*for the award of Doctor of Philosophy in the faculty of CHEMISTRY in*  
**MAY 2018 for thesis titled 'Synthesis and biological evaluation of novel**  
**heterocyclic systems and synthesis of dasatinib through a new**  
**convenient and efficient commercial route'.**



VADLAMUDI.

DATE: 7-5-2018

TSE  
VERIFIED BY  
CONTROLLER OF EXAMINATIONS

S.No.: 006866



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 006781

REGD. No.: 111PG12002

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. V V S N MURTHY S has satisfied all the requirements*

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

**MANAGEMENT STUDIES in MAY 2018 for thesis titled 'Emergence of**

**Organized Retailing and its Impact on Unorganized Retailer in**

**FMCG Segment (A study in major cities of Andhra Pradesh &**

**Telangana)'.  
VADLAMUDI,  
2-7-2018  
DATE:**



VADLAMUDI,  
2-7-2018  
DATE:

T3B  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 006869



**VIGNANI'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC.No.: 006783

REGD.No.: 131PG32002

**PROVISIONAL CERTIFICATE**

This is to certify that Mr. RAMPRASAD CHEGU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of MATHEMATICS in JUNE 2018 for thesis titled "Parametric study of different classes of fuzzy graphs: isomorphisms, complements and regularity".



VADLAMUDI,  
2-7-2018  
DATE:

T.S.B.  
VERIFIED BY:

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 007185



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 007087

REGD. No.: 131FG01001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. VIJAYA SAI AYYAGARI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JUNE 2018 for thesis titled 'Studies on molecular phylogeny of selected pulmonates (Mollusca: Gastropoda) and spectroscopic studies on the hemocyanins of Pila virens (Lamarck, 1822) and Pila globosa (Swainson, 1822)'.*



VADLAMUDI.  
DATE: 16-7-2018

138  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No.: 007183



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

PC. No.: 007085

REGD. No.: 131PG01002

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. BALA REDDY B has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JULY 2018 for thesis titled 'Expression, purification and characterization of therapeutic anti-CD20 antibody'.*



VADLAMUDI.  
DATE: 13-7-2018

VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 007243



**VIGNAN'S**  
Foundation for Science, Technology & Research  
**UNIVERSITY**  
(Estd w/s 3 of UGC Act of 1956)

PC. No.: 007146

REGD. No.: 131FG30201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. MATTUPALLI BUJJI BABU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of PHYSICS in JULY 2018 for thesis titled 'Investigations on tungsten trioxide thin films for electrochromic devices'.*



VADLAMUDI.

DATE: 27-7-2018

T.B.  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No.: 007246



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

PC. No.: 007149

REGD. No.: 131FG01201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. CHITTARANJAN JENA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JULY 2018 for thesis titled 'Studies on molecular phylogenetic relationships among a few gastropods from east coast of India and global protein expression of foot muscle proteins between two genera of architaenioglossa'.*



VADLAMUDI,  
DATE: 27-7-2018

132  
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CONTROLLER OF EXAMINATIONS

**VIGNAN'S**  
 Foundation for Science, Technology & Research  
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 - Estd. u/s 3 of UGC Act 1956

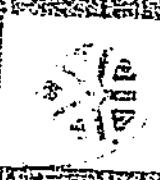
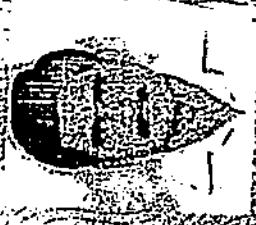
Sl. No. 1006957  
 Regd. No. 137PG92004  
 Aadhaar No. 484293717089

upon the recommendation of the Board of Management hereby confers on  
**VENKATA SUBBARAM**

the degree of

**DOCTOR OF PHILOSOPHY**  
 in the faculty of Mathematics

for the thesis titled 'A spectral relaxation approach for magneto hydrodynamic boundary layer flow and heat transfer analysis' in the year 2018.



Given at the University, Adilabad, Guntur in the Republic of India  
 on August 2018.

Dr. Y. Venkatesh  
 Dean, Evaluation





S.No.: 010706



**VIGNAN'S**  
Foundation for Science, Technology & Research  
(Deemed to be UNIVERSITY)  
-Estd. 0/5-3 of UGC Act, 1956

PC No: 007158

REGD: 18JPG08003

**PROVISIONAL CERTIFICATE**

This is to certify that Mr. **YAGYA DUTTA DWIVEDI** has satisfied all the requirements for  
the award of *Doctor of Philosophy* in the faculty of **MECHANICAL**  
**ENGINEERING** in **NOVEMBER 2018** for thesis titled **'Aerodynamic**  
**performance and stability analysis of bio-inspired corrugated wings for**  
**micro air vehicles'**



VADLAMUDI  
DATE 2-11-2018

*Chae*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 010711



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

PG. No.: 007163

REGD. No.131PG31002

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. GUDISELA MURAREDDY has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in DECEMBER 2018 for thesis titled 'Synthesis of benzothiazepine, thiazole and pyrido pyrazine derivatives : studies towards anticancer activity'*



VADLAMUDI.

DATE: 22-12-2018

*TSB*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

27  
S.No.: 010729



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

PC. No.: 007181

REGD. No. 131PG31204

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. KOMANDURI RAVIGANESH has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in JANUARY 2019 for thesis titled 'Enantioselective total synthesis of 5-O-feruloyl-2-deoxy-D-ribo- $\gamma$ -lactone, key intermediate of (-)-verrucosapyrone A, lurasidone hydrochloride intermediate and microwave assisted one-pot synthesis of N-acetyl-bisindoles'*



VADLAMUDI.

DATE: 8-2-2019

TRB  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No.: 010724



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

PC. No.: 007176

REGD. No.:131PG01001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. A RANGANADHA REDDY has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JANUARY 2019 for thesis titled 'Screening, isolation, characterization and production of polyhydroxybutyrate (PHB) by a bacterium isolated from sewage waste'.*



VADLAMUDI.

DATE: 30-1-2019

T.S.B.  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No.: 010742



**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

Estd. u/s 3 of UGC Act 1956

PC. No.: 007194

REGD. No.:131PG31003

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. KANCHARLA SUMAN has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in MARCH 2019 for thesis titled 'Synthesis and bioactivity evaluation of novel heterocyclic compounds of isoindolinone, isocoumarin, quinazolinone and quinoline'.*



VADLAMUDI.

DATE: 3-4-2019

738  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

S.No. : 010744



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

PC. No.: 007196

REGD. No.131PG31001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. B SRINIVAS has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in MARCH 2019 for thesis titled 'Synthesis, characterization and biological evaluation of coumarin-1, 2, 4-oxadiazoles, styryl-furo-chromen-methanones and pyrazolo-quinoline-trione' based hetero cyclic compounds.*



VADLAMUDI.

DATE: 3-4-2019

*Bl*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 010745



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

PC. No.: 007197

REGD. No.131PG05001

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. ANNAPURNA KUNCHAPARTI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING in APRIL 2019 for thesis titled 'Supporting real time traffic in cognitive radio networks'.*



VADLAMUDI.  
DATE: 13-4-2019

T36  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 010746



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

PC. No.: 007198

REGD. No.141PG01001

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. JAYA LAKSHMI UPPU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in APRIL 2019 for thesis titled 'Pharmacological screening of memecylon sisparense gamble for its anti-microbial, anti-oxidant and anti-cancer activities'.*



VADLAMUDI.  
DATE: 13-4-2019

TSL  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS



S.No. : 011741



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

PC. No.: 008162

REGD. No. 131PG05203

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. MADBUSHI SHRIRAGHAVAN RANGACHARY*  
*has satisfied all the requirements for the award of Doctor of Philosophy in*  
*the faculty of ELECTRONICS & COMMUNICATION ENGINEERING in*  
**MAY 2019** *for thesis titled 'A novel and secure two layer approach to*  
*mitigate primary user emulation attack in cognitive radio*  
*networks'.*



VADLAMUDI.  
DATE: 10-6-2019

*[Signature]*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 011891



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

PC. No.: 008311

REGD. No.141PG05005

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. YALAVARTHI USHA DEVI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING in JUNE 2019 for thesis titled 'Design and analysis of conformal printed antennas for IoT applications'.*



VADLAMUDI.  
DATE: 18-6-2019.

*TSE*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 011969



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

PC. No.: 008388

REGD. No: 111PG05001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. AANTHANENI VENKATESWARLU has satisfied*  
*all the requirements for the award of Doctor of Philosophy in the faculty of*  
**ELECTRONICS & COMMUNICATION ENGINEERING** JUNE 2019  
*for thesis titled 'Analysis and evaluation of hybrid watermarking*  
*methods for medical imaging modalities'*



VADLAMUDI.  
DATE: 28-6-2019

TSE  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No. : 012313



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

PC. No.: 008732

REGD. No. 141PG12002

**PROVISIONAL CERTIFICATE**

This is to certify that Mr. SAMBAIAH-RAJAVARAPU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of MANAGEMENT STUDIES in JUNE 2019 for thesis titled 'Influence of e-banking on banks performance an empirical analysis on bankers and customers perception'.



VADLAMUDI  
DATE 17-7-2019

TSE  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

# VIGNAN'S

Foundation for Science, Technology & Research  
(Deemed to be UNIVERSITY)  
Estd. as per UGC Act, 1956

Sl. No. 1008524

Regd. No. 141PG12201

upon the recommendation of the Board of Management hereby confers on

## CHALLA MADHAVILATHA



the degree of

### DOCTOR OF PHILOSOPHY

in the faculty of Management Studies

for the thesis titled 'An empirical analysis of time series data for stock prediction and validation with reference to s&p bse sensex'

in the year 2019

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



*[Signature]*  
Dean - Evaluation

*[Signature]*  
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: 27-07-19

75



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

1008525

131PG12001

No. No.  
Road No.

upon the recommendation of the Board of Management hereby confers on

**CHUNDURI HYMAVATHI**



the degree of

As

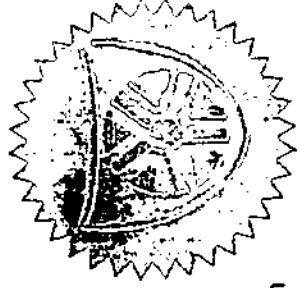
**DOCTOR OF PHILOSOPHY**

in the faculty of Management Studies

for the thesis titled 'Investors risk perceptions towards risk assessment and investment intentions in Indian commodity market: An empirical analysis'

in the year 2019

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



*[Signature]*  
Dean - Evaluation

Registrar

VR

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

Sl. No. : 1008528  
Regd. No. : 131FG01205



**DOCTOR OF PHILOSOPHY**  
in the faculty of Biotechnology

on the thesis titled '*In vitro* studies in *wrightia tinctoria* (oxb.), a medicinally important woody plant'.

in the year 2018

Dr. [Name], Vice-Chancellor, Wignan's, Guntur in the Republic of India.



*[Signature]*  
Registrar

Secretary, the Govt. of Institute

Date of Issue: 21-07-19

39

**VIGNAN'S**  
Foundation for Science, Technology & Research  
(Deemed to be UNIVERSITY)  
- Estd. as per UGC Act-1956

Sl. No. : 1008527  
Regd. No. : 131PG01003



upon the recommendation of the Board of Management hereby confers on

**GADDAM ESWARAIAH**

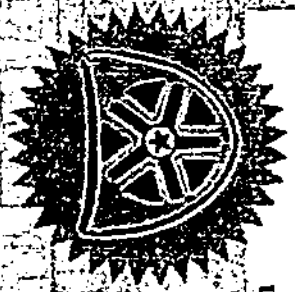
the degree of

**DOCTOR OF PHILOSOPHY**  
in the faculty of Biotechnology

for the thesis titled 'Studies on leaf extract of selected mangrove species and  
*in-vitro* evaluation of their bioactive properties'.

in the year 2019

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



*[Signature]*  
Defn - Evaluation

Registrar

Given under the seal of Institute

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Date of Issue: 27-07-19





**WIGMAN'S**  
 Institute of Management Studies  
 (Deemed to be UNIVERSITY)  
 (U-12/2019-2020)

Sl No 1008526  
 Regd. No 121PG12201

upon the recommendation of the Board of Management hereby confers on

**NAGABHASKAR MUPPURI**



the degree of

**DOCTOR OF PHILOSOPHY**  
 in the faculty of Management Studies

for the thesis titled 'Mediating role of octopace culture in determining the employee satisfaction: An empirical analysis among the selected hotel employees in the state of Andhra Pradesh' in the year 2019

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



*[Signature]*  
 Dean - Evaluation

*[Signature]*  
 Registrar

Given under the seal of Institute

Date of Issue: 27 - 07 - 19

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42  
S.No.: 012338



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(Deemed to be UNIVERSITY)  
Estd. u/s 3 of UGC Act 1956

PC. No.: 008756

REGD. No.: 131PG01004

**PROVISIONAL CERTIFICATE**

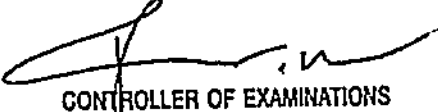
*This is to certify that Ms. INDIRA MIKKILI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JULY 2019 for thesis titled 'Isolation, purification and characterization of bacteriocin producing bacteria from fermented milk'.*



VADLAMUDI,

DATE: 30-7-2019

T3B  
VERIFIED BY

  
CONTROLLER OF EXAMINATIONS

S.No.: 012341



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

PG. No.: 008759

REGD. No. 141PG31001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. ARUN KUMAR THIRIVEEDHI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in AUGUST 2019 for thesis titled 'Synthesis of some novel hybrid molecules and evaluation of their in vitro cytotoxic activities'*



VADLAMUDI  
DATE: 20-8-2019

T.S.B.  
VERIFIED BY:

*[Signature]*  
CONTROLLER OF EXAMINATIONS

411

S.No. : 012396



**VIGNAN'S**  
Foundation for Science, Technology & Research  
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-Estd. u/s 3 of UGC Act 1956

PC. No.: 008813

REGD. No.: 111PG05202

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. JAGTAP CHAYA DATTATRAYA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING in NOVEMBER 2019 for thesis titled 'Automated early detection of malaria using machine learning techniques'.*



VADLAMUDI,

DATE : 21-11-2019

TSB

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45

S.No.: 012415



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

REGD. No.: 131PG12007

PC. No.: 008831

**PROVISIONAL CERTIFICATE**

This is to certify that *Ms. A. SUHASINI* has satisfied all the requirements for the

award of *Doctor of Philosophy* in the faculty of **MANAGEMENT**

**STUDIES** in **JANUARY 2020** for thesis titled 'Employee engagement's

moderating impact over the antecedents of job satisfaction and

employee loyalty – empirical evidence from Indian IT sector.



VADLAMUDI  
DATE: 9-1-2020

TSC  
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S.No. : 012434



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

PG. No.: 008848

REGD. No.: 151PG01004

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. RAMESH NURUBHASHA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in MARCH 2020 for thesis titled 'Preparation of protein products from underutilized fish (pterygoplichthys pardalis) and its potential application in poultry feed industries'.*



VADLAMUDI.  
DATE: 20-3-2020

TBB  
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47

S.No.: 012440



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

PC. No.: 008854

REGD. No.: 161PG06007

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. V NAGESH has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRICAL & ELECTRONICS ENGINEERING in JUNE 2020 for thesis titled 'A novel single stage, single switch, soft switched, power factor corrected ac-dc converter'.*



VADLAMUDI.

DATE: 10-7-2020

T3B  
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48  
S.No.: 012441



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

PC. No.: 008855

REGD. No.: 161PG06008

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. MANNAM VENKATA RAYUDU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRICAL & ELECTRONICS ENGINEERING in JUNE 2020 for thesis titled 'Soft switching techniques and transformer optimization in low and medium power SMPC'.*



VADLAMUDI,  
10-7-2020  
DATE:

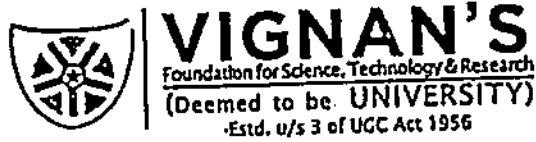
T38  
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CONTROLLER OF EXAMINATIONS



49

S.No. : 012439



PC. No.: 008853

REGD. No.: 161PG06006

**PROVISIONAL CERTIFICATE**

This is to certify that Mr. ATTULURI R VIJAY BABU has satisfied all the requirements for the award of *Doctor of Philosophy* in the faculty of ELECTRICAL & ELECTRONICS ENGINEERING in JUNE 2020 for thesis titled 'Investigating the performance behaviour of an air breathing pem fuel cell used in fuel cell vehicles from in-situ measurements of operational parameters'.



VADLAMUDI  
DATE: 30-6-2020

TSE  
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*[Signature]*  
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S.No.: 012436



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

PC. No.: 008851

REGD. No.: 141PG05202

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. YARRABOTHU RAVISEKHAR has satisfied all the*

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

**ELECTRONICS & COMMUNICATION ENGINEERING in JUNE 2020**

*for thesis titled 'Selection, design and verification of waveform for*

**5G and future wireless communication systems'**



VADLAMUDI

DATE: 26-6-2020

*[Signature]*  
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*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 012437



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

PC. No.: 008852

REGD. No.111PG05007

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. SYED ZAHIRUDDIN has satisfied all the requirements*

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

**ELECTRONICS & COMMUNICATION ENGINEERING in JUNE 2020**

*for thesis titled 'Design of waveform generators, oscillators and modulators using CCCII'.*



VADLAMUDI.

DATE: 26-6-2020

TSG  
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*[Signature]*  
CONTROLLER OF EXAMINATIONS

52

S.No.: 014148



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

PC. No.: 010532

REGD. No.: 131PG12004

**PROVISIONAL CERTIFICATE**

This is to certify that *Mr. JATAPROL N.G. SREENIVAS* has satisfied all the requirements for the award of *Doctor of Philosophy* in the faculty of **MANAGEMENT STUDIES** in **JULY 2020** for thesis titled 'A study on the effect of psychological empowerment on job satisfaction and job related stress among health care employees in the selected units of Secunderabad and Hyderabad'.



VADLANUDI.  
DATE: 21-9-2020

*BE*  
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*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 014144



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

PC. No.. 010528

REGD. No.:121PG01203

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. SIREESHA T has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of BIO-TECHNOLOGY in JULY 2020 for thesis titled 'Evaluation and comparison of different methods for identification of tuberculosis among diabetic patients'.*



VADLAMUDI

DATE

16-9-2020

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51

S.No.: 014172



**VIGNAN'S**  
Foundation for Science, Technology & Research  
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Estd. u/s 3 of UGC Act 1956

PC. No.: 010556

REGD. No.: 121PG12003

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. ABDUL BASHEER AHAMAD BEG has satisfied*  
*all the requirements for the award of Doctor of Philosophy in the faculty of*  
**MANAGEMENT STUDIES** in **JULY 2020** for thesis titled *A study on*  
*challenges for MSME's in availing finance for the sustainability*  
*of MSME's: an empirical analysis in the state of Andhra*  
*Pradesh.*



VAOLAMUDI.  
DATE: 23-9-2020

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S.No.: 012442



**VIGNAN'S**  
Foundation for Science, Technology & Research  
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Estd. u/s 3 of UCC Act 1956

PG. No.: 008856

REGD. No.: 151PG01005

**PROVISIONAL CERTIFICATE**

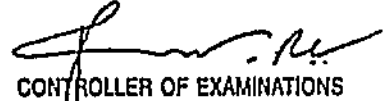
*This is to certify that Mr. S S S PRAVEEN DUDDUKURU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of*  
**BIO-TECHNOLOGY** in JUNE 2020 for thesis titled 'Method development and validation for simultaneous analysis of drug molecules in biological samples'.



VADLAMUDI.

DATE: 10-7-2020

  
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CONTROLLER OF EXAMINATIONS

S.No. 014001



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

PC.No. 010402

REGD. No. 161PG08201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. RAKESH TEJ KUMAR K has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of*  
**MECHANICAL ENGINEERING** in **AUGUST 2020** for thesis titled  
**'Analysis of nano composite coated pv-system with priority energy management system'**



VADLAMUDI  
DATE: 18-8-2020

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57

S.No. : 014086



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

PC. No.: 010471

REGD. No.: 151PG31001

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. JONNALA SANDHYA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in AUGUST 2020 for thesis titled 'Design, synthesis and biological evaluation of 1-(alpha-amino heteroaryl) naphthols, isatin and its derivatives'.*



VADLAMUDI.

DATE: 28-8-2020

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VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No.: 014087



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

PC. No.: 010472

REGD. No.:141PG31006

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. RAJESHKUMAR RAPOLU has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in AUGUST 2020 for thesis titled 'Synthesis of pyridone, dioxoisindoline and carbamide derivatives'.*



VADLAMUDI.

DATE: 28-8-2020

*Gae*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No. : 014036



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

PC. No.: 010422

REGD. No.: 131PG31201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. G. ARAVINTHAN has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in AUGUST 2020 for thesis titled 'Studies on nanocomposites of polypropylene and cyclic olefin copolymer blends reinforced with halloysite nanotubes'.*



VADLAMUDI.  
DATE : 26-8-2020

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S.No.: 014000

60



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

PC. No.: 010401

REGD. No.: 131PG05201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. DESHMUKH AMAR BHARATRAO has satisfied*

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

**ELECTRONICS & COMMUNICATION ENGINEERING in AUGUST**

**2020 for thesis titled 'Multi view face video super resolution'.**



VADLAMUDI.

DATE: 18-8-2020

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*[Signature]*  
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S.No.: 014035 61



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

PC. No.: 010421

REGD. No.: 141PG31202

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. KANDULA J M SWAPNAJA has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of CHEMISTRY in AUGUST 2020 for thesis titled 'Design, synthesis and biological evaluation of novel aziridinyquinone, triazolo isoquinoline and spirobiisoxazoline derivatives via cycloaddition reaction'.*



VADLAMUDI.

DATE: 26-8-2020

*Gal*  
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*[Signature]*  
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62

SIC 014173



VIGNAN'S  
UNIVERSITY  
(POWERED TO BE UNIVERSITY)  
WARRANGAL, TELANGANA

PG No. 010557

REGD. No. 12(PG3)201

**PROVISIONAL CERTIFICATE**

I hereby certify that **DR. GEETHA BHAVANI KODURI** has satisfied all the requirements for the award of *Doctor of Philosophy* in the faculty of **CHEMISTRY** in **SEPTEMBER 2020** for thesis titled 'Development of newest analytical chromatographic methods for determining chosen drugs and impurities: stress degradation studies'.



VIGNAN'S  
DATE: 23-9-2020

VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No. : 014034



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

PC. No.: 010420

REGD. No.: 161PG06001

**PROVISIONAL CERTIFICATE**

*This is to certify that Mrs. GEETHA REDDY EVURI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRICAL & ELECTRONICS ENGINEERING in AUGUST 2020 for thesis titled 'Design and fabrication of an affordable ultra capacitor based electric car'.*



VADLAMUDI.

DATE: 26-8-2020

*Qul*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS

S.No. : 014039



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

PC. No.: 010425

REGD. No.: 131PG05205

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. QAZI FASIHUDDIN has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING in JULY 2020 for thesis titled 'Simulation and analysis of hybrid gravitational search optimization algorithm with artificial neural network for optimizing rf-mems switch parameters'.*



VADLAMUDI.  
DATE: 26-8-2020

*Gue*  
VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS



65

S.No. : 014194



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

PC. No.: 010579

REGD. No.: 121PG05201

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. LODHI AMAIRULLAH KHAN MUKHTAR AHMEDULLAH KHAN has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of ELECTRONICS & COMMUNICATION ENGINEERING in SEPTEMBER 2020 for thesis titled Energy-efficient routing protocol for enhancing network lifetime and performance in wireless sensor networks*



VADLAMUDI.  
DATE: 20-10-2020

TZB  
VERIFIED BY

CONTROLLER OF EXAMINATIONS

No. 014168



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

PC No. 010552

REGD. No. 181PG06004

**PROVISIONAL CERTIFICATE**

This is to certify that **M. BALAKRISHNA KETHINENI** has satisfied all the requirements for the award of *Doctor of Philosophy* in the faculty of **ELECTRICAL & ELECTRONICS ENGINEERING** in **SEPTEMBER 2020** for thesis titled *Optimal placement and economic analysis of a power system network using synchronized phasor measurement unit for full observability*



VADLAMUDI  
DATE: 21-9-2020

VERIFIED BY

CONTROLER OF EXAMINATIONS

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S.No. : 014190



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

PC. No.: 010574

REGD. No.141PG08202

**PROVISIONAL CERTIFICATE**

*This is to certify that Mr. ACHANTI SREENIVASARAO has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of*  
**MECHANICAL ENGINEERING** in **SEPTEMBER 2020** for thesis titled  
**'Study and analysis of machining characteristics and optimization of cutting parameters in milling of Ti-6Al-4V and AISI 316**



*AS Rao*

VADLAMUDI.  
DATE: 10-10-2020

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VERIFIED BY

*[Signature]*  
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68

IS No. 0174195



**VIGNAN'S**  
Foundation for Science, Technology & Research  
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Established by UGC Act 1956

PG No. 010580

REGD. No. 171PG02001

**PROVISIONAL CERTIFICATE**

*This is to certify that Ms. VIJETHACHOWDARY PONDURI has satisfied all the requirements for the award of Doctor of Philosophy in the faculty of*  
**CHEMICAL ENGINEERING** in **OCTOBER 2020** for thesis titled  
**Exploring the efficacy of capsicum annum, biochar, pesticide adsorption, kinetic modelling and soil amendment studies**



VADLAMUDI  
DATE 20-10-2020

VERIFIED BY

*[Signature]*  
CONTROLLER OF EXAMINATIONS