



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
ANANTHAPURAMU- 515 002 (A.P) INDIA**

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**Metric No: 6.3.4**

**Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

**6.3.4.1. Total number of teachers attending professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes year wise during last five years.**

**HEI Input :**

2021-22	2020-21	2019-20	2018-19	2017-18
12	38	60	130	127

**DVV Comment:** Provide e-copy of certificate of program attended by Smt.B.Ajitha Parvathala Ankoji Dr A Naga Raju Dr. K. Aparna S. Aparna Dr. S. Aruna Mastani Sri M Ashok Chakravarthy Dr. T. Bala Narasaiah Dr BC LAKSHMANNA for 2017-18 , 2018-19 and 2019-20, 2020-21, 2021-22.

**HEI Response:** Provided e-copy of certificate of program attended by

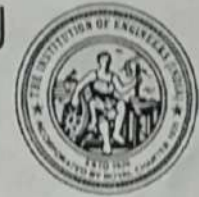
1. Smt.B.Ajitha
2. Parvathala Ankoji
3. Dr A Naga Raju
4. Dr. K. Aparna
5. S. Aparna
6. Dr. S. Aruna Mastani
7. Sri M Ashok Chakravarthy
8. Dr. T. Bala Narasaiah
9. Dr BC LAKSHMANNA

for 2017-18 , 2018-19 and 2019-20, 2020-21, 2021-22.

  
**REGISTRAR  
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ANANTAPURAMU-515002**



JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTHAPURAMU  
Department of Mechanical Engineering

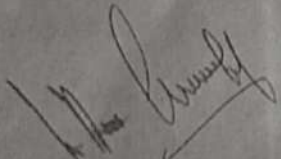


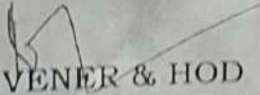
TEQIP-III

## Certificate of Participation

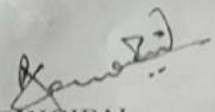


This is to certify that Dr. / Mr. / Ms. B. AJITHA, ~~Asst Professor~~, CIVIL Engg Dept  
of JNTUACEA, ANANTHAPURAMU has participated in a  
two week Faculty Development Programme sponsored by TEQIP-III and IE(I) on  
"Solar and Wind Energy – Future Technologies" organized by Mechanical Engineering  
Department, JNTUA College of Engineering, Ananthapuramu, (A.P) during 12<sup>th</sup> to 24<sup>th</sup> Nov. 2018.

  
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CONVENER & HOD  
(Dr. B. Chandra Mohana Reddy)

  
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PRINCIPAL  
(Prof. K. Rama Naidu)



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Government of India



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INNOVATION CELL  
(GOVERNMENT OF INDIA)



INSTITUTION'S  
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COUNCIL  
(Ministry of Education, Government of India)



This is to certify that

Smt. B. Ajitha

of

**Jawaharlal Nehru Technological University, Andhra Pradesh**

has undergone Innovation Ambassador (IA) training 'Advanced Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year 2021-22.

Dr. Abhay Jere  
Chief Innovation Officer  
MoE's Innovation Cell

Mr. Dipan Sahu  
Assistant Innovation Director  
MoE's Innovation Cell

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E-certificate No: IA/Advance/111703

Date of Issue: 26-08-2022

IIC ID: IC201810090



# TEQIP - III

Technical Education Quality Improvement Programme



UNIVERSITY COLLEGE OF ENGINEERING AND TECHNOLOGY, BIKANER  
&

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
COLLEGE OF ENGINEERING (Autonomous) ANANTHAPURAMU

## Certificate of Participation

is to certify that **AJITHA BOLLAVARAM**  
JNTUACEA

has participated in a One Week Faculty Development Programme on

**" RENEWABLE AND CLEAN ENERGY CONVERSION TECHNOLOGIES AND MATERIALS "**

in virtual mode organized under TEQIP - III TWINNING PROGRAMME during 04 - 08 January 2021

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UCET, BTU, BIKANER

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**Dr. K. JITHENDRA GOWD**  
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JNTUACEA, ANANTAPURAMU - AP

*Dr. Dilip Kumar Behara*

**Dr. DILIP KUMAR BEHARA**  
Convenor  
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*Prof. Y.N. Singh*

**Prof. Y.N. SINGH**  
Principal  
UCET, BTU, BIKANER

*Prof. K. Govindaraju*

**Prof. K. GOVINDARAJU**  
Principal  
JNTUACEA, ANANTAPURAMU

*Registrar*

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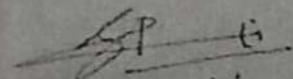
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
Ananthapuramu -515002  
Andhra Pradesh



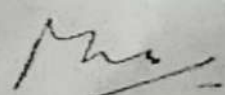
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
Nelson Mandela Marg  
Vasant Kunj, New Delhi-110070

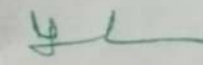
## AICTE SPONSORED FACULTY DEVELOPMENT PROGRAMME Certificate

This is to certify that **Smt.. Ajitha Bollavaram**,  
**JNTUA College of Engineering, (Autonomous) Ananthapuramu**  
has participated in online FDP on “**Stress Management through Yoga and  
Meditation**” held from **16<sup>th</sup> to 21<sup>st</sup>, November, 2020**, organised by the Directorate of  
Faculty Development & IQAC, JNTUA, Ananthapuramu.

  
**Prof. G. Prasanthi**  
Co-ordinator

Director, Faculty Development & IQAC

  
**Prof. M. Vijayakumar**  
Registrar

  
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# YOGI VEMANA UNIVERSITY

NAAC Accreditation 'B' Grade with CGPA 2.54  
Kadapa-516005, Y. S. R. Dt., Andhra Pradesh, India

## Certificate Of Participation

This is to certify that Ajitha Bollavaram, Assistant professor  
JNTUA COLLEGE OF ENGINEERING Anantapur

has participated in a Five-day National Interdisciplinary Webinar on  
" HOLISTIC APPROACHES TO PREVENT COVID - 19 PANDEMIC " during 25<sup>th</sup> - 29<sup>th</sup> September, 2020  
organised by Department of Psychology and Department of Business Management,  
Yogi Vemana University, Kadapa.

*K. Lalitha*

Dr. K. Lalitha  
Conver, NWHAP2020  
Y.V.U.C., Kadapa.

*Saritha*

Dr. P. Saritha  
Conver, NWHAP2020  
Y.V.U.C., Kadapa.

*G. Sambasiva Reddy*

Prof. G. Sambasiva Reddy  
Principal,  
Y.V.U.C., Kadapa

*M. Surya Kalavathi*  
REGISTRAR  
J.N.T.U. Anantapur  
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Prof. M. Surya Kalavathi  
Vice-Chancellor.

Sl. No. 46791

# National Institute of Technical Teachers Training & Research

CHENNAI  
GOVERNMENT OF INDIA  
MINISTRY OF HUMAN RESOURCE DEVELOPMENT



## Quality Improvement Programme

*This is to certify that*

**B.AJITHA**

Assistant Professor in Civil Engineering  
JNTUA College of Engineering, Anantapur, AP

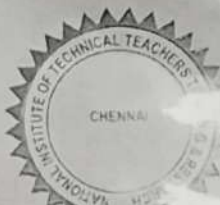
*Participated in the One week Online Short-term Course on*

### **“ENERGY AND ENVIRONMENTAL MANAGEMENT”**

*conducted by this Institute from 06.07.2020 to 10.07.2020*

*the major areas covered being:*

- Energy Sources & Power Plants
- Solar and Wind Energy Applications
- Bio Energy & Alternate Fuels
- Nano Science for Energy Applications
- Environmental Management



10.07.2020

*M. Sathya Kumar*  
COURSE COORDINATOR

*ue*  
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*[Signature]*  
DIRECTOR



JNTUA College of Engineering (Autonomous),  
Ananthapuramu - 515002, Andhra Pradesh



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This is to certify that

Mrs. B. Ajitha

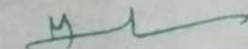
of JNTUACE, Anantapur

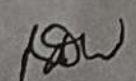
has participated in an AICTE Sponsored Two-Week Faculty Development Program On


"Mathematical Modeling and Simulation for Scientists & Engineers" Organized by

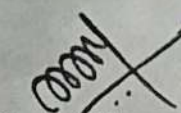
Department of Chemical Engineering, JNTUA CE, Ananthapuramu

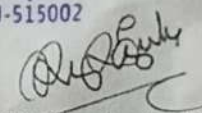
during 24-02-2020 to 07-03-2020.

  
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CO-COORDINATOR

  
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Prof. K. Govinda Rajulu  
PRINCIPAL





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ANANTHAPURAMU

Technical Education Quality Improvement Programme



IEEE

SB Code - 12431

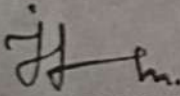
In Technical Resource Collaboration with

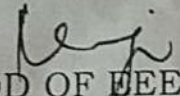


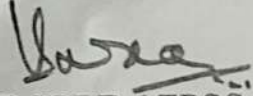
ANANTHAPURAMU SUB-SECTION

**Certificate of Participation**

This is to certify that Dr./Mr./Ms. B. Ajitha, Asst. Professor, CIVIL  
of JNTUA CEA has participated  
in a 5 Day Faculty Development Program on "Awareness on Electric/Hybrid Vehicle  
Engineering", organised under TEQIP - III, from 21<sup>st</sup> - 25<sup>th</sup> January 2020, at Prof. S.  
Tiruvengalam Memorial Seminar Hall, Department of EEE, JNTUA CEA.

  
CO-ORDINATOR  
(Dr. J. Sreenivasulu)

  
HOD OF EEE  
(Prof. R. Kiranmayi)

  
REGISTRAR CHAIR IEEE ATPSS  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002 (Prof. V.Sankar)



JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTHAPUR  
 JNTUA UNIVERSITY ANANTHAPURAMU - 515 002, A.P.

in association with

TEQIP - III

Technical Education Quality Improvement Programme

TEQIP-III Sponsored



IEEE Hyderabad Educational Society



IEEE Ananthapur Sub Section

## Certificate of Participation

This is to certify that Mr. / Ms. / Dr. / Prof. .... *B. Ajitha* .....

of..... *JNTUACEA* ..... has participated  
 in **TEQIP - III** sponsored **Three-Day National Workshop on Pedagogical Skills  
 for Faculty in Outcome-Based Education**, held during 6-8 December 2019  
 conducted at JNTUA College of Engineering, Ananthapuramu.

*V. B. Chithra*  
 Prof. V.B. CHITHRA  
 Coordinator

*V. Sankar*  
 Prof. V. SANKAR  
 Chair, ATPSS & Convener

*Y. U.*  
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*K. Govinda Rajulu*  
 Prof. K. GOVINDA RAJULU  
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&

UNIVERSITY COLLEGE OF ENGINEERING & TECHNOLOGY  
BIKANER TECHNICAL UNIVERSITY, BIKANER - 334004, RAJASTHAN

## Certificate of Participation

This is to certify that Mr./Ms./Dr./Prof. ...*B. Ajitha*.....  
of.....*JNTUACEA*..... has participated  
in TEQIP - III sponsored One-Week Faculty Development Program on **Leadership Skills**, during 19-24 August 2019 conducted at JNTUA College of Engineering Anantapuramu.

Prof. V.B. CHITHRA  
Convener & Coordinator  
JNTUACEA, Anantapur

Dr. SUDHIR BHARDWAJ  
Coordinator  
UCE&T, Bikaner

Dr. RUMA BHADAURIA  
Coordinator  
UCE&T, Bikaner

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Prof. K. GOVINDA RAJULU  
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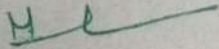
Technical Education Quality Improvement Programme

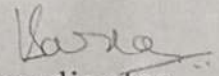


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ANANTHAPURAMU

## *Certificate of Participation*

This is to certify that Dr. B. Ajitha, Asst. Professor, Dept. of Civil Engg., JNTUACEA has participated during 18<sup>th</sup>, 21<sup>st</sup>-23<sup>rd</sup> January, 2019 in the workshop "Design and Development of MOOCs through SWAYAM", organised under TEQIP-III and in collaboration with E&ICT, NIT Warangal at Prof. S. Tiruvengalam Memorial Seminar Hall, Department of Electrical Engineering, JNTUACEA.

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Coordinator  
(Prof. V. SANKAR)

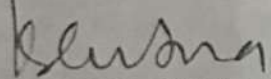



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ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA.

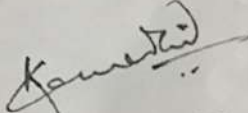
Department of Humanities

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Dr. B. Ajitha, Asst. Professor  
of JNTUA CEA has  
participated in TEQIP-III sponsored One-Week Faculty Development  
Programme on Soft Skills and Personality Development during  
10-14 December, 2018.

  
Prof. V. B. Chithra  
Convenor & Coordinator

  
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Prof. K. Rama Naidu  
Principal  
JNTUA CEA

# Enhancement of Compressive Strength of Concrete with different Proportions of Micro Al<sub>2</sub>O<sub>3</sub> Blended with Concrete by using ANN Method

K. Sai Rajani<sup>1</sup> and B. Ajitha<sup>2</sup>

<sup>1</sup>PG Scholar, JNTUACEA, A.P., India.

<sup>2</sup>Assistant Professor, Dept. of Civil Engineering, JNTUACEA, A.P., India.  
rajanisai95@gmail.com, ajitha123@gmail.com

## ABSTRACT

An experimental program has been carried out to predict the compressive strength of cubes with blended Micro Al<sub>2</sub>O<sub>3</sub>-particles with different proportions of high strength concretes. The present work is to enhance the strength and durability of concrete by modification of concrete with the incorporation of Micro Alumina by weight of cement. The mixtures are designed and cast in cube moulds with 0.50 to 2.5% of Micro Al<sub>2</sub>O<sub>3</sub> by replacement of weight of cement. After some days of curing in portable water, and were withdrawn for testing of their strengths at different ages like 3, 7, and 28 days. This experiment is that with proper processing techniques and fundamental understanding of the effect of the Micro Al<sub>2</sub>O<sub>3</sub>-particles. In this study, the conventional methods used to predict the 3, 7 and 28 days compressive strength of concrete, in which the cement content is replaced by 0.5% to 2.5% of Micro Al<sub>2</sub>O<sub>3</sub>. MATLAB software was used to predict the results using ANN. It is observed that the predicted values of maximum loads are in good agreement with those of the experimental values. The Minitab software is used and regression analysis has been carried out to verify the results.

**Keywords:** Micro Alumina, Durability, Compressive strength, ANN, regression.

## 1. Introduction

The High Strength Concrete (HSC) is the type of concrete which gives better strength with nominal quantities of the ingredients based on their performance. The HSC [4] is one which gives the compressive strength of concrete at a range of 50 MPa and above (up to 120 MPa). The main difference with the nominal concrete is the strength. The main requirement of HSC is that to provide the higher strength by consuming less quantity of material. When compared to the nominal concrete the ingredients used are more i.e., admixtures are added to the normal mix to give higher strength. The different types of admixtures that can be used in the concrete are Silica Fume, Alumina particles, Fly ash, etc... For this work I considered the M60 grade of HSC concrete and Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) [1] as admixtures to replace different proportions with blended concrete.

## 2. Objective

The main objective of this experiment is to determine the mechanical properties of Micro Alumina is blended with High Strength Concrete. For the different percentage replacement of Micro Aluminum Oxide as admixture for cement content and to predict the strength performance and verifying the experimental results with statistical tool Minitab [2].

## 3. Experimental work

### 3.1 Materials

**Cement:** The 53 grade of Ordinary Portland Cement (OPC) is used in this experiment. The specific gravity and fineness of cement are 3.15 and 2.40 respectively.

**Coarse Aggregate:** 12 mm size of granites has been used as coarse aggregate. The specific gravity and fineness modulus of coarse aggregate are 2.90 and 7.66 respectively.

**Fine Aggregate:** River sand has been used as fine aggregate. The specific gravity of fine aggregate is 2.76 and fineness modulus is 2.51.

**Micro Al<sub>2</sub>O<sub>3</sub>-particles:** Aluminum oxide is a hard refractory ceramic material and it has good strength and low thermal expansion coefficient. By comparing other ceramics, Al<sub>2</sub>O<sub>3</sub> is apt to

No: ATAL/2020/1599457684



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**AICTE Training and Learning (ATAL) Academy**

*Certificate*

This is certified that Ajitha Bollavaram, Assistant Professor of JNTUA COLLEGE OF ENGINEERING ANANTAPUR participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Coastal & Offshore Engineering" from 14/09/2020 to 18/09/2020 at Indian Institute of Technology Guwahati.

Advisor-I, ATAL Academy  
Dr. Mamta Rani Agarwal



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ANANTAPURAMU 515002

Coordinator



TEQIP-3



**Veermata Jijabai Technological Institute (VJTI), Mumbai  
and  
Engineering College Ajmer, Rajasthan**

This is to certify that

**B.Ajitha**

has participated and successfully completed TEQIP-III Sponsored One week Online FDP on **"Recent Advances in Civil Engineering"** organized by **Civil & Environmental Engineering Department, VJTI Mumbai** under twinning activity with **Civil Engineering Department, Engineering College Ajmer, Rajasthan** during June 02nd to 07th 2020.

**Mr. Dhruv Saxena**  
FDP Co-ordinator,  
Civil Engg. Deptt.,  
Engg. College Ajmer,  
Rajasthan

**Dr. Vikas B. Varekar**  
FDP Co-ordinator,  
Civil & Env. Engg. Deptt.,  
VJTI, Mumbai

**Dr. Ganpat Singh**  
HOD,  
Civil Engg. Deptt.,  
Engg. College Ajmer, Rajasthan

**Dr. Sumedh Y. Mhaske**  
HOD,  
Civil & Env. Engg. Deptt.,  
VJTI, Mumbai

**Dr. H. S. Mewara**  
TEQIP Co-ordinator,  
Engg. College Ajmer, Rajasthan

**Dr. R. N. Awale**  
TEQIP Co-ordinator,  
VJTI, Mumbai

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GBDRQG-CE00044

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15/07/2020





JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS)  
ANANTHAPURAMU

TEQIP - III  
Technical Education Quality Improvement Programme

### *Certificate of Participation*

*This is to certify that Mrs. Ajitha Eollavaram, Assistant Professor of JNTUA College of Engineering, Ananthapuramu has participated in 4 Day Online Faculty Development Program on "Challenges and Opportunities of Energy and Sensor Applications", during 23<sup>rd</sup> - 26<sup>th</sup> Sept., 2020, organised by Department of EEE, JNTUACEA under TEQIP - III.*

COORDINATOR & HoD  
(Prof. R. KIRANMAYI)

PRINCIPAL  
(Prof. K. GOVINDA RAJULU)

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JNTU Anantapur  
ANANTHAPURAMU 515002



ANDHRA PRADESH STATE SKILL DEVELOPMENT CORPORATION (APSSDC)

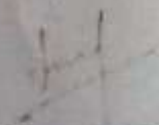


Cert.No. FDP-AAD-086

## Certificate



This is to certify that Mr./Ms./Dr. .... B.AJITHA .....  
has actively participated and successfully completed APSSDC online  
FDP on ..... Android Application Development .....  
Organised by Sree Vidyanikethan Engineering College in Association with  
APSSDC from ..... 15-06-2020 ..... to ..... 27-06-2020 .....

  
**Dr. B. Nageswara Rao**  
Executive Director  
APSSDC

  
**Dr. Arja Srikanth**  
Special Secretary to Government,  
MD & CEO, APSSDC

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This is to certify that

**Ajitha Bollavaram**

OF JNTUA COLLEGE OF ENGINEERING Anantapur

has participated and successfully completed the

online **AICTE sponsored Short Term Training Program** on

"Human Values, Ethics, Morals, Behavioural Sciences and Attitude"

during 24-29 August 2020 organized by

Sagar Institute of Research and Technology Pharmacy Bhopal (MP).

Dr. Surendra Jain  
Convener & Director, SIRTIP

Dr. Prashant Jain  
Vice Chairman SGI

Er. Sanjeev Agrawal  
CMD, The SAGE Group



4  
REGISTRAR  
JNTU Anantapur  
ANANTAPURAMU 515002



**ANDHRA UNIVERSITY**  
Department of Civil Engineering  
(Sponsored by TEQIP-III)



In collaboration with Science City of Andhra Pradesh

**CERTIFICATE OF PARTICIPATION**

This is to certify that Dr./Mr./Mrs./Ms. **B.Ajitha** \_\_\_\_\_  
of **JNTUA COLLEGE OF ENGINEERING ANANTAPUR** \_\_\_\_\_ has attended a  
five day International webinar on "Climate Change Impact on Water Resources  
Management and Environment" from 15<sup>th</sup> July 2020 to 19<sup>th</sup> July 2020,  
sponsored by TEQIP-III and in collaboration with Science City of Andhra Pradesh.

Convener

**Dr. M.G. Muni Reddy**

Associate Professor,  
Department of Civil Engineering,  
Andhra University College of Engineering (AU),  
Andhra University, Visakhapatnam, A.P.

Co-Convener

**Dr. Jayarami Reddy Konda**

Chief Executive Officer,  
Science City of Andhra Pradesh.

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Anantapur  
ANANTAPUR 515002



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**  
ANANTHAPURAMU - 515002, A.P.

**NATIONAL SERVICE SCHEME**

**University Level NSS Youth Festival - 2020**

23<sup>rd</sup> January, 2020

**Certificate of Appreciation**

Certified that Mr./Ms. Smt. B. Ajitha ..... Studying/ Working ✓  
at ..... JNTUACEA .....

*Andhra Pradesh* attended the **University Level NSS Youth Festival at Jawaharlal Nehru Technological University Anantapur, Ananthapuramu, Andhra Pradesh** on 23<sup>rd</sup> January, 2020. He/ She is one of the Organizing member / Judge of the event. ✓

*S. Vasundra*

Prof. S. Vasundra  
NSS Programme Coordinator  
J.N.T.U.A.

Prof. M. Vijaya Kumar  
Registrar  
J.N.T.U.A.

4  
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JNTU Anantapur  
PURAMU 515002

*J. Srinivas Kumar*

Prof. S. Srinivas Kumar  
Vice Chancellor  
J.N.T.U.A.



# TEQIP - III

Technical Education Quality Improvement Programme



IEEE

SB Code - 12431

**JNTUA COLLEGE OF ENGINEERING ANANTAPUR  
(AUTONOMOUS), ANANTHAPURAMU**

## **Certificate of Participation**

This is to certify that Dr./~~Mr./Ms.~~ B. Ajitha, Asst. Professor, Civil Engg.  
of JNTUACEA ..... has participated  
in a Two Day Workshop on “Development of MOOCs and Production Techniques”,  
organised under TEQIP - III, during 17<sup>th</sup> and 18<sup>th</sup> January, 2020, at Prof. S. Tiruvengalam  
Memorial Seminar Hall, Department of EEE, JNTUACEA.

COORDINATOR  
(Dr.K. Jithendra Gowd)

CONVENER  
(Prof. V. Sankar)

REGISTRAR  
JNTU Anantapur  
ANANTHAPURAMU 515002

PRINCIPAL  
(Prof.K. Govinda Rajulu)



# JNTUA College of Engineering (Autonomous) Ananthapuram

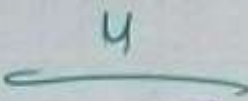
Civil Engineering Department



## Certificate

This is to certify that Mr / Ms B. AJITHA, Assistant Professor has attended a Two day Workshop  
on " **WATER RESOURCES IN RAYALASEEMA REGION : Issues, Challenges and Solutions** " conducted in  
Civil Engineering Department on 07<sup>th</sup> & 08<sup>th</sup> March 2018 .

  
Convener  
Convener (IIRKICS)  
JNTUA, Anantapur

4  
  
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ANANTAPURAMU 515002

  
Chairman

## Experimental Study on the Durability of High Strength Concrete

Nallabothula Maruthi Prasad<sup>1</sup>, B. Ajitha<sup>2</sup>, and H. Sudarsana Rao<sup>3</sup>

<sup>1</sup>PG Scholar, Department of Civil Engineering, JNTUA CEA Ananthapuramu.

<sup>2</sup>Assistant Professor, Department of Civil Engineering, JNTUA Ananthapuramu.

<sup>3</sup>Professor of Civil Engineering, JNTUA & Director, RGUKT, RK Valley, Kadapa.  
nemp256@gmail.com

### ABSTRACT

This study investigate the durability property of High strength concrete by the effects of aggressive sulfuric acid attack on the concrete mixtures prepared with Silica Fume & Aluminium Oxide (Nano form) at various replacement levels of cement. The curing period of 28 days water curing in the addition of that 5% concentrated sulfuric acid curing over a period of 30 days the concrete testing specimens durability properties were examined against to the acid attack. The performance of the degraded specimens was evaluated by measuring the weight loss, Change in the compressive strength and visual inspection. Based upon its experimental study results & IS Codes guidelines, we will justify the durability properties of high strength concrete.

**Keywords:** High Strength Concrete, Durability, Acid attack, Weight Loss & Strength variations.

### 1. Introduction

From the very beginning, the research studies on concrete were significantly focussing on the achieving of most desirable higher targeted strengths without consideration of durability. But in the current scenario due to severe pollution of the environment, considerably it reflects back on the durability aspects like in the form of acidic attack. When the concrete structures were exposed to environment, those pollutants were rapidly shows the aggressive action on the concrete surfaces which results in the volumetric changes of concrete. Sulfuric acid is one of the most destructive towards concrete based on its concentration and formation manner, can cause severe deterioration and damage to concrete structures.

This study has been conducted to improve the concrete strength by replacing specified cementitious materials with Silica fume and Aluminium Oxide. The cement replacement levels starts with 0% Aluminium oxide in the simultaneous addition with 0%,5%,10%,15% & 20% silica fume. Furtherly the study continued to the 0.25%, 0.50%, 0.75%, 1%, 1.25% & 1.50% replacement of cement with aluminium oxide with silica fume.

### 2. Materials and Preliminary Studies

The materials used in this experimental study are

- > Cement(OPC 53 grade) of confirming IS IS:12269
- > Fine Aggregate of confirming thezone-II
- > Coarse Aggregate of crushed angular
- > Silica Fume of confirming ofIS:15388
- > Al<sub>2</sub>O<sub>3</sub> Nano form of purity99.9%.
- > SP 430Conplast
- > Water





# CERTIFICATE

International Conference on  
**INNOVATIVE TECHNOLOGIES FOR CLEAN AND SUSTAINABLE DEVELOPMENT**

This is to certify that

**B. Ajitha**

has Participated and Presented a paper titled **Review on Shear Strengthened RC Rectangular beams with FRP Composites** in International Conference on **INNOVATIVE TECHNOLOGIES FOR CLEAN AND SUSTAINABLE DEVELOPMENT** held on **October 14-15, 2021** which was organized by Chitkara University, Himachal Pradesh and NITTTR, Chandigarh.

*Varinder S. Kanwar*

Prof. (Dr.) Varinder S. Kanwar  
Vice Chancellor  
Chitkara University, HP

4

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ANANTAPURAMU 515002

*Dr. Sanjay K. Sharma*

Dr. Sanjay K. Sharma  
Prof., Civil Engg. Dept.  
NITTTR, Chandigarh



Rajgad Dnyanpeeth's

**Shri Chhatrapati Shivajiraje College of Engineering**

(Approved by AICTE, Recognized by Government of Maharashtra & Affiliated to SPPU, Pune)

One week  
online  
STTP

*Department of Civil Engineering*  
**CERTIFICATION OF PARTICIPATION**

**AJITHA BOLLAVARAM**

has successfully attended One week online STTP on "Recent Trends in Civil Engineering"  
Organized by Department of Civil Engineering of Rajgad Dnyanpeeth's Shri Chhatrapati  
Shivajiraje College of Engineering, Dhangawadi, Pune-412206 during on 25<sup>th</sup> October 2021  
to 29<sup>th</sup> October 2021.



CERTIFICATE ID  
FFDFLQ-CE000025

**Prof. A. A. Avhad**  
Coordinator

**Prof. S. R. Sutar**  
Coordinator

**Dr. S. S. Sayyed**  
Convenor & HOD,  
Civil Engineering Department

**Dr. S. B. Patil**  
Principal

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAM-515002

Made for free with Certify'em

**JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTAPUR**



**DEPARTMENT OF CHEMICAL ENGINEERING**

*TEQIP-III sponsored a one day Workshop on*

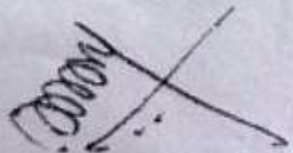
# **"Engineering Interventions to Combat COVID-19 Pandemic"**

This is to certify that Dr. / Mr. / Mrs. / Ms. B.Ajitha

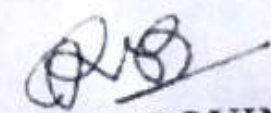
Assistant professor

of JNTUA COLLEGE OF ENGINEERING ANANTAPUR

has participated in TEQIP-III sponsored one day workshop on " Engineering Interventions to Combat COVID-19 Pandemic" held on 18<sup>th</sup> July - 2020 conducted by Department of Chemical Engineering, J. N. T. U. A. C. E. A.

  
Dr. S. SHARADA  
HChED

4  
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J.N.T.U Anantapur  
ANANTAPURAMU 515002

  
Prof. K. GOVINDARAJULU  
Principal

No of participants - 40



ANUNCIOS



# Women Empowerment Cell JNTUA CEA

In Association with

Department of Civil Engineering JNTUA

Organizes

## LEARNING TECHNIQUES IN SELF DEFENCE TO FACE THE WORLD

For the young and Enthusiastic Girl's

December 10th TO 14 th,2021

06:00 am – 8:00 am,

Google forms:-

<https://forms.gle/Wh4uzRppiJWhP7vk7>

Organizer

**B.AJITHA**

Coordinator, Women Empowerment Cell,  
JNTUA CEA, Anantapur.

coaching by

**Champions Taekwondo Academy**

Anantapur

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JNTU Anantapur  
ANANTAPURAMU 515002



# JNTUA College of Engineering (Autonomous) Ananthapuramu

## AICTE Sponsored Two-Week Online Faculty Development Programme (FDP)

Certificate of Participation to

**Ajitha Bollavaram**

This is to certify that he/she has participated and completed AICTE Sponsored Two Week Online Faculty Development Programme (FDP) on "Opportunities in Artificial Intelligence and Enabling Technologies for Internet of Things (IoT)" organized by the Department of Computer Science and Engineering, JNTUACEA during 17-28 November 2020.



*Shoba Bindu*

**Prof. C. Shoba Bindu**  
Coordinator

*A. Suresh Babu*

**Prof. A. Suresh Babu**  
Convener

*K. Govindarajulu*

**Prof. K. Govindarajulu**  
Principal

*[Signature]*  
**REGISTRAR**  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



MoE's  
INNOVATION CELL  
(GOVERNMENT OF INDIA)



This is to certify that  
**Smt. B. Ajitha**  
of

**Jawaharlal Nehru Technological University, Andhra Pradesh**

has undergone Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30<sup>th</sup> June - 30<sup>th</sup> July 2021 in online mode.

**Prof. Anil D. Sahasrabudhe**  
Chairman  
AICTE

**Dr. Abhay Jere**  
Chief Innovation Officer  
MoE's Innovation Cell

**REGISTRAR**  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

Date of Issue: 30-07-2021

E-certificate No : 11703

29/04/2022

Scopus Conference

## Chapter 60

### Review on Shear Strengthened RC Rectangular beams with FRP Composites

K V Satyanarayana and B. Ajitha

#### Abstract

This paper presents an overview of various shear strengthening techniques used to enhance the shear capacity of RC beams. The conventional strengthening schemes increase the cross-sectional area and dead load. Whereas the use of FRP strengthening enhances the shear resistance capacity without increasing the dead load. There are various parameters such as type of FRP, wrapping methodology, polymer properties, orientation of fibres, thickness of FRP, inclination of FRP and anchorage has influence on the efficiency of FRP strengthening. The use of FRP strengthening increases the concrete shear capacity and stirrups shear capacity by acting as an external confinement. There are many empirical relations had been proposed to estimate the contribution of FRP in shear resistance. This article summarizes the various FRP shear strengthening schemes, influence of different parameters discussed above and also presents an overview of different models in estimating the shear capacity of FRP strengthened RC beams.

**Keywords:** Shear strengthening, FRP, shear span to depth ratio, RC beam, Brittle failure.

#### 60.1 Introduction

Brittle shear failure can be observed due to inadequate internal shear resistance of beams subjected to loading. To overcome this type of failure, Shear strengthening can be done with different techniques like RC-jacketing, Steel plate bonding and External wrapping of FRP composites. Implementation of External FRP wrapping (Fig. 60.1) in the form of Side wrapping, U-wrap and Full wraps with different fibre orientations can enhance the shear capacity of beam. Different types of FRP such as CFRP, BFRP, AFRP and GFRP are available with fibre profiles.

---

K V Satyanarayana (✉) · B. Ajitha  
Department of Civil Engineering,  
JNTUA College of Engineering,  
Ananthapuramu, India  
e-mail: karamsettysatyanarayana@gmail.com  
B. Ajitha  
e-mail: ajitha123.civil@jntua.ac.in

M  
REGISTRAR  
J.N.T.U Anantapur  
ANANTAPURAMU 515002



**VIT**  
UNIVERSITY  
Vellore • Chennai  
www.vit.ac.in

**ONE DAY NATIONAL WORKSHOP  
ON**



**SMART MATERIALS – APPLICATIONS & CHARACTERIZATIONS**

27<sup>th</sup> April, 2016

CCG, Department of Physics, School of Advanced Sciences  
VIT University, Vellore

*This is to certify that*

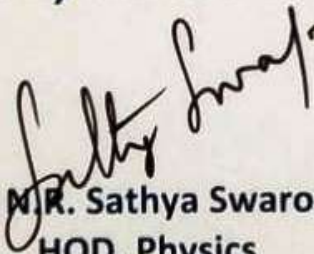
**Mr. P. Ankoji**

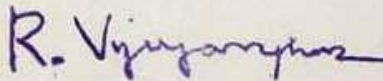
*of*

**Sri Venkateswara University, Tirupati**

*has participated in this workshop*

  
Dr. W. Madhuri  
Convener

  
Dr. M.R. Sathya Swaroop  
HOD, Physics

  
Dr. R. Vijaya Raghavan  
Dean, SAS





**AWARENESS WORKSHOP ON  
ADVANCED MATERIAL CHARACTERIZATION & SYNTHESIS FACILITIES**

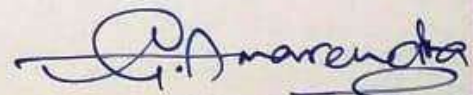
**June 27-28, 2016**

**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr. P. Ankoji, Sri Venkateswara University,  
Tirupati has participated in AWARENESS WORKSHOP ON ADVANCED MATERIAL  
CHARACTERIZATION & SYNTHESIS FACILITIES, organized by UGC-DAE CONSORTIUM FOR SCIENTIFIC  
RESEARCH (UGC-DAE CSR), KALPAKKAM NODE and DEPARTMENT OF NUCLEAR PHYSICS, UNIVERSITY  
OF MADRAS held during June 27-28, 2016.

  
LOCAL CONVENER

  
CONVENER

  
CHAIRMAN



**SRM UNIVERSITY**

**RAMAPURAM CAMPUS**

**DEPARTMENT OF PHYSICS**

**Two Days Workshop On**

**MATERIALS CHARACTERIZATION TECHNIQUES**

[PROBLEM SOLVING APPROACH]

**2<sup>nd</sup> & 3<sup>rd</sup> September 2016**

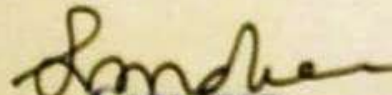



This is to certify that Dr./ Mr./ Ms. PARVATHALA ANKOJI, SRI VENKATESWARO

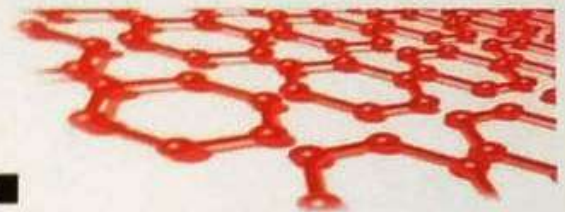
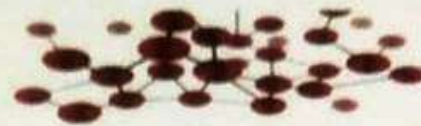
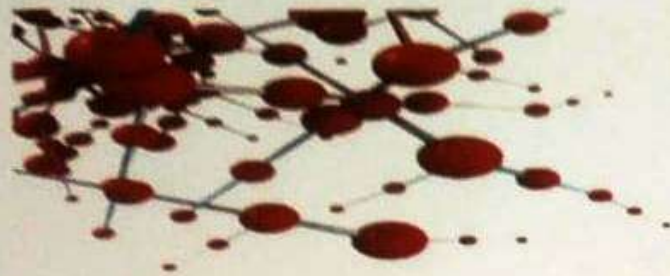
UNIVERSITY, TIRUPATI.

has attended the "**Workshop on Materials Characterization Techniques**" organized by Department of Physics, SRM University, Ramapuram, Chennai - 600089, Tamilnadu during 2<sup>nd</sup> and 3<sup>rd</sup> September 2016.

Date: 03.09.2016

  
Convener  
(HOD / Physics)

  
Dean (E&T)



**INUP**  
Indian Nanoelectronics Users' Programme

A project of MeitY, Govt. of India at IIT Bombay and IISc

# INUP Familiarization Workshop on Nanofabrication Technologies

## *Certificate of Participation*

This is to certify that Mr. Parvathala Ankoji from Sri Venkateswara University, Tirupati has participated in the INUP Familiarization Workshop on Nanofabrication Technologies, held at IIT Bombay, Mumbai during December 27 - 30, 2016.

A handwritten signature in black ink.

**Prof. Ashwin Tulapurkar**  
Co-Principal Investigator, INUP



# 3<sup>rd</sup> International Conference on Emerging Electronics

IIT Bombay, Mumbai, India, 27 – 30 December 2016



## *Certificate*

This is certify that Mr. Parvathala Ankoji from Sri Venkateswara University has participated in ICEE 2016.

General Chair  
ICEE 2016



# THE INDIAN SCIENCE CONGRESS ASSOCIATION

(Professional Body under Department of Science & Technology,  
Ministry of Science & Technology, Government of India)

14, Dr. Biresw Guha Street, Kolkata - 700 017

## Participation Certificate

This is to certify that Prof. / Dr. / Shri. / Smt.:

P. Ankoji

of Dept. of Physics,

Sri Venkateswara University, Tirupati

has participated in the 104<sup>th</sup> Indian Science Congress as a Research Scholar /  
Academic Consultant / Volunteer held at S.V. University, Tirupati from  
January 3 to 7, 2017. His / Her services are well appreciated

Prof. A. Damodaram  
Vice-Chancellor  
SVU

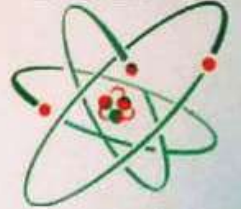
Prof. S. Vijaya Bhaskara Rao  
Organising Secretary  
ISC - 104



TEQIP-II SPONSORED

**National Conference on Advanced Materials:  
Processing and Characterization**

AMPC



2017

**Certificate**

This is to certify that Dr./Mr./Ms. Parvathala Ankaji

Sri Venkateswara University, Tirupati

has participated / presented a paper (oral / poster) in the National Conference on **Advanced Materials: Processing and Characterization** held at Department of Physics, National Institute of Technology, Tiruchirappalli, during 27<sup>th</sup> & 28<sup>th</sup> of February 2017.

Dr. J. Hemalatha

Convener

Dr. M. C. Santhosh Kumar

Convener

Dr. N. Gopalakrishnan

Head, Department of physics



International Conference on  
Science, Technology and Applications of Rare Earths  
(ICSTAR-2018)

*Certificate*

OF PARTICIPATION

Organised jointly by: Rare Earths Association of India &  
Indian Institute of Mineral Engineers, Tamil Nadu Chapter


September 23-25, 2018, Tirupati, India

*This is to certify that*

*Mr. P. Ankoji*

*has participated and presented the paper on 'Emission analysis of Sm<sup>3+</sup> ion doped LaAlO<sub>3</sub> nanophosphors by hydrothermal method' in ICSTAR-2018.*

Tirupati  
25<sup>th</sup> Sept. 2018

  
Convener

  
Chairman



National Conference on  
NOVEL MATERIALS FOR DEVICE APPLICATIONS  
[NCNMDA-2018]

November 4-5, 2018.



Organized Under UGC-CAS - II Programme

by  
Department of Physics, Sri Venkateswara University,  
Tirupati - 517 502, A. P., India.

# Certificate

*This is to certify that*

Mr. P. Ankoji

*has participated and presented the paper entitled Photoluminescence Properties  
of Eu<sup>3+</sup> ion doped LaAlO<sub>3</sub> nano phosphors.*

*in NCNMDA - 2018.*



*K. S. S.*

Convener

*P. Agalini*

Co-Convener

*B. Rama Rao*

Organizing Secretary





**GITAM**  
(DEEMED TO BE UNIVERSITY)  
(Estd. via 3 of the UGC Act, 1956)  
**BENGALURU**  
Accredited by NAAC with A\* Grade

Organized by  
Department of Physics

## GITAM SCHOOL OF SCIENCE

NATIONAL WORKSHOP ON  
“EMERGING TRENDS IN PHYSICS & IT’S APPLICATIONS”  
FEBRUARY 28<sup>th</sup> - 29<sup>th</sup>, 2020

# Certificate

This is certify that Dr/Mr/Ms. P. Ankoji

from Audisankara College of Engineering, Gudur

has participated in the National Workshop on “EMERGING TRENDS IN PHYSICS & IT’S APPLICATIONS”, held during

February, 28<sup>th</sup> & 29<sup>th</sup> 2020, organized by Department of Physics.

Prof. N.V. Krishna Prasad  
Convener

Prof. K. Srinivas  
Principal, GSS  
GITAM, Bengaluru

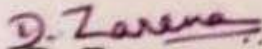



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTHAPUR

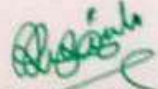
College of Engineering (Autonomous), Ananthapuramu - 515002, A.P.

Certificate of Participation

This is to certify that Dr./Mr./Ms.....P. Ankeji.....from  
.....SV. University, Tirupathi..... has  
participated in the **TEQIP - III** sponsored One-day Workshop on "**Ferrites: Synthesis,  
Characterization & Applications**", held at Department of Physics, JNTUA College of  
Engineering, Ananthapuramu on 28<sup>th</sup> July 2019.

  
Dr. D. Zarena  
Coordinator

  
Dr. R. Padma Suvarna  
Head of the Department

  
Dr. K. Govinda Rajulu  
Principal



**International Conference on  
Materials Science  
(ICMS-2022)**

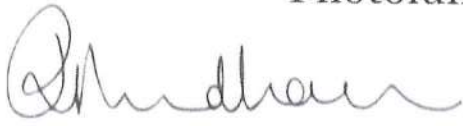


**Certificate**

This is to certify that  
***Dr. Parvathala Ankoji***  
of  
**JNTUACE, Pulivendula**

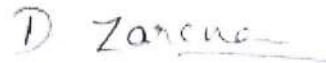
has participated in *International Conference on Materials Science (ICMS-2022)* virtual organized by Department of Physics, JNTUA College of Engineering, Ananthapuramu during April 11-13, 2022 and presented a research paper entitled

Photoluminescence properties of Dy<sup>3+</sup> doped La<sub>2</sub>(MoO<sub>4</sub>)<sub>3</sub> phosphors



**Convenor**

**Prof. R. Padma Suvarna**



**Coordinator & i/c HoD**

**Dr. D. Zarena**



**REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002**



**Principal**

**Prof. P. Sujatha**



# St. JOHNS



## COLLEGE OF ENGINEERING & TECHNOLOGY

Accredited by NAAC, Approved by AICTE & Permanently Affiliated to JNTUA, Ananthapuramu  
Yerrakota, Yemmiganur - 518 360, Kurnool Dist., A.P. | Ph.No: 9394228566

Department of Mechanical Engineering

NATIONAL CONFERENCE ON

"EMERGING TRENDS IN MECHANICAL ENGINEERING: CHALLENGES & INNOVATIONS"

17th March 2017

### Certificate

This is to certify that Dr./Prof./Mr./Ms./ DR. A. NAGARAJU

of MECHANICAL ENGINEERING, JNTUACEA, ANANTAPUR has participated/presented a paper entitled

"NEW TECHNOLOGIES OF SOIL MOISTURE SENSOR IN SOLAR POWERED

IRRIGATION FIELD"

in the

"National Conference on Emerging Trends In Mechanical Engineering: Challenges & Innovations"

on 17th March, 2017.

  
Mr. H. Ranganna  
HOD of ME & CONVENER

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002  
  
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Dr. J. N. Prakash  
PRINCIPAL & CONFERENCE CHAIR

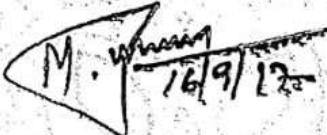


**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**  
**ANANTHAPURAMU - 515002 , A.P., INDIA.**  
**DIRECTORATE OF FACULTY DEVELOPMENT CENTRE**

**CERTIFICATE OF PARTICIPATION**

*This is to certify that **Dr. A. NAGARAJU** Adhoc Lecturer of **ME Dept.**, in the College of JNTUA College of Engineering, Ananthapuramu, has participated in one Day Workshop on "21<sup>st</sup> Century Teaching Strategies" on 16<sup>th</sup> September, 2017 held at College Auditorium, JNTUA College of Engineering, (Autonomous), Ananthapuramu.*

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Prof. M. YOHAN  
Coordinator &  
Director of Faculty Development Centre



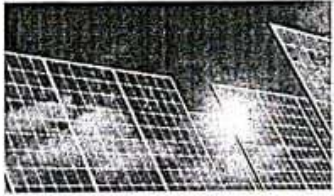
# JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTHAPURAMU

## Department of Mechanical Engineering



**TEQIP-III**

### Certificate of Participation



This is to certify that Dr. / Mr. / Ms. A. NAGARAJU  
of Mech Engg Dept, JNTUACEA, ANANTHAPURAMU has participated in a  
two week Faculty Development Programme sponsored by TEQIP-III and IE(I) on  
“Solar and Wind Energy – Future Technologies” organized by Mechanical Engineering  
Department, JNTUA College of Engineering, Ananthapuramu, (A.P) during 12<sup>th</sup> to 24<sup>th</sup> Nov. 2018.

COORDINATOR

(Prof. K. Hemachandra Reddy)

CONVENER & HOD

(Dr. B. Chandra Mohana Reddy)

PRINCIPAL

(Prof. K. Rama Naidu)

## *Certificate of Participation*

This is to certify that

*Dr. A. Nagaraju*

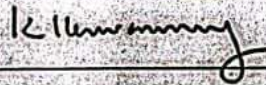
of

*JNTUA College of Engineering, Anantapuramu, Andhra Pradesh*

has participated in the Faculty Development Programme on

*BIG DATA ANALYTICS*

held from 20-Feb-2017 to 22 Feb-2017 at JNTUA College of Engineering, Anantapuramu, Andhra Pradesh



**Dr. K Kesavasamy**  
Global Head

Academic Interface Programme



REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



**V Rajanna**

Vice President & Regional Head  
Global Head - Technology Business Unit



**JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTHAPUR  
JNTUA UNIVERSITY ANANTHAPURAMU - 515 002, A.P.**

**in association with**

**TEQIP - III**

Technical Education Quality Improvement Programme



**TEQIP-III Sponsored**

**IEEE Hyderabad Educational Society**

**IEEE Ananthapur Sub Section**

## **Certificate of Participation**

This is to certify that Mr. / Ms. / <sup>✓</sup>Dr. / Prof. *A. Nagaraju*.....

of **JNTUACEA**..... has participated  
in **TEQIP - III** sponsored **Three-Day National Workshop on Pedagogical Skills  
for Faculty in Outcome-Based Education**, held during 6-8 December 2019  
conducted at JNTUA College of Engineering, Ananthapuramu.

*V.B. Chithra*  
**Prof. V.B. CHITHRA**  
Coordinator

*V*  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTHAPURAMU-515002

*V. Sankar*  
**Prof. V. SANKAR**  
Chair, ATPSS & Convener

*K. Govinda Rajulu*  
**Prof. K. GOVINDA RAJULU**  
Principal





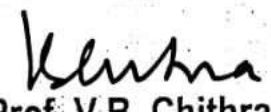
JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTAPUR  
ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA.

Department of Humanities


## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Dr. ✓ A. Nagaraju  
of JNTUACEA has  
participated in TEQIP-III sponsored One-Week Faculty Development  
Programme on Research Methodology and Data Analysis during  
23 - 28, Sepetember, 2019

  
Dr. T. Narayana Reddy  
Coordinator

  
Prof. V.B. Chithra  
Convenor

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Prof. K. Govinda Rajulu  
Principal  
JNTUACEA



JNTUA College of Engineering (Autonomous),  
Anantapuramu - 515002, Andhra Pradesh



## Certificate of Participation

This is to certify that

Dr. A. Nagaraju


of JNTUACE, Anantapur

has participated in an AICTE Sponsored Two-Week Faculty Development Program On  
"Mathematical Modeling and Simulation for Scientists & Engineers" Organized by  
Department of Chemical Engineering, JNTUA CE, Anantapuramu  
during 24-02-2020 to 07-03-2020.

  
Dr. B. Dilip Kumar  
CO-COORDINATOR

  
Prof. T. Bala Narasaiah  
COORDINATOR

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU - 515002

  
Dr. Lt. S. Sharada  
HEAD (i/c)

  
Prof. K. Govinda Rajulu  
PRINCIPAL



# TEQIP - III

Technical Education Quality Improvement Programme



IEEE  
SB Code - 12431

**JNTUA COLLEGE OF ENGINEERING ANANTAPUR  
(AUTONOMOUS), ANANTHAPURAMU**

## **Certificate of Participation**


This is to certify that Dr./Mr./Ms... A. Nagaraju, Asst. Professor (Adhoc), MECH...  
of JNTUA CEA..... has participated  
in a Two Day Workshop on “Development of MOOCs and Production Techniques”,  
organised under TEQIP - III, during 17<sup>th</sup> and 18<sup>th</sup> January, 2020, at Prof. S. Tiruvengalam  
Memorial Seminar Hall, Department of EEE, JNTUACEA.


  
COORDINATOR

(Dr.K. Jithendra Gowd)

  
CONVENER

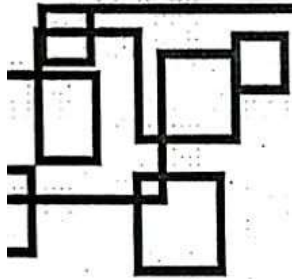
(Prof. V. Sankar)

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



PRINCIPAL

(Prof.K. Govinda Rajulu)




**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR**  
**College of Engineering (Autonomous), Ananthapuramu-515002, A.P.**

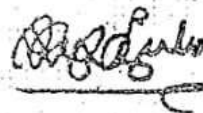
# Certificate of Participation

*This is to Certify that Dr./Mr./Ms.....A.....Nagaraju.....*  
*from.....JNTUA College.....of.....Engineering [Autonomous].....Ananthapuramu.....*  
**has participated in One Week Faculty Development Programme on**  
**“Innovative Teaching - Learning Techniques in Higher Education”**  
*sponsored by TEQIP-III held at Mechanical Department, JNTUA College of*  
*Engineering, Ananthapuramu during 04-09-2019 to 09-09-2019*

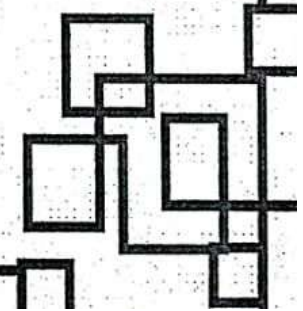
  
Smt. B. Ajitha  
Convener

  
Dr. K. Kalyani Radha  
Coordinator

  
Dr. R. Manjula  
Coordinator

  
Prof. K. Govinda Rajulu  
Principal

  
REGISTRAR





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTHAPUR


College of Engineering, Ananthapuramu - 515002, AP



## Certificate of Participation

This is to certify that Dr./Prof./Mr./Ms..... A. Nagaraju.....  
of..... JNTUACEA..... has participated  
in Two Day Workshop on "Materials for Energy Conversion and Storage Devices" Organized by  
Chemical Engineering Department, JNTUA College of Engineering, Ananthapuramu under TEQIP - III  
Programme from 27<sup>th</sup> to 28<sup>th</sup> December 2019.

  
Dr. B. Dilip Kumar  
Convener

  
Dr. S. Sharada  
Chairman

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Dr. K. GOVINDA RAJULU  
Patron

JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) ANANTHAPURAMU  
DEPARTMENT OF MECHANICAL ENGINEERING



Certificate of Participation



This is to certify that Dr/Mr. /Ms. A. Nagaraju, Adhoc Lecturer of  
JNTUA College Of Engg, Anantapur has participated in the Three day  
National Seminar, sponsored by All India Council for Technical Education, New Delhi on  
"Industrial Practices of Computational Fluid Dynamics" organised by Mechanical Engineering  
Department, JNTUA College of Engineering, Ananthapuramu.(A.P) during 21<sup>st</sup> to 23<sup>rd</sup> August

  
Co ordinator

  
Head of the Department

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Principal



# JNTUA COLLEGE OF ENGINEERING ANANTAPUR (AUTONOMOUS), ANANTHAPURAMU

**TEQIP - III**  
Technical Education Quality Improvement Programme

## Certificate of Participation

This is to certify that Dr./Mr./Ms..... *Dr. A. Nagaraju, Assistant Professor (Adhoc)*  
of..... *Mechanical Department, JNTUA CEA*..... has participated  
in One Day workshop on “Awareness on Career Growth Prospects for Reliability Engineering  
Professionals with Industry Collaborations”, organised under TEQIP - III, on 21<sup>st</sup> June, 2019,  
at Prof. S. Tiruvengalam Memorial Seminar Hall, Department of EEE, JNTUACEA.

*Sri. J. Sreenivasulu*  
COORDINATOR  
(Sri.J. Sreenivasulu)

*Prof. R. Kiranmayi*  
HOD OF EEE  
(Prof.R. Kiranmayi)

*V*  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTHAPURAMU-515002

*Prof. V. Sankar*  
CHAIR ATPSS  
(Prof.V.Sankar)



JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTHAPUR  
JNTUA UNIVERSITY ANANTHAPURAMU - 515002, A.P.

&



UNIVERSITY COLLEGE OF ENGINEERING & TECHNOLOGY  
BIKANER TECHNICAL UNIVERSITY, BIKANER - 334004, RAJASTHAN

## Certificate of Participation

This is to certify that Mr./Ms./<sup>✓</sup>Dr./Prof. *A. Nagaraju*.....  
of.....**JNTUACEA**..... has participated  
in **TEQIP - III** sponsored **One-Week Faculty Development Program on Leadership Skills**, during 19-24 August 2019 conducted at JNTUA College of Engineering Anantapuramu.

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

*Chithra*  
Prof. V.B. CHITHRA  
Convener & Coordinator  
JNTUACEA, Anantapur

*Sudhir*  
Dr. SUDHIR BHARDWAJ  
Coordinator  
UCE&T, Bikaner

*Ruma*  
Dr. RUMA BHADAURIA  
Coordinator  
UCE&T, Bikaner

*Govinda Rajulu*  
Prof. K. GOVINDA RAJULU  
Principal  
JNTUACEA, Anantapur





International Conference on  
System Automation, Reliability, Quality Control,  
Safety, Maintenance & Management  
(IC SARQCSMM-2019)

TEQIP - III  
Technical Education Quality Improvement Programme



SB Code - 12431



IEEE  
HYDERABAD SECTION




## CERTIFICATE OF PARTICIPATION

This is to certify that Dr./~~Mr./Ms~~... A. Nagaraju...  
Asst. prof... MECH ENGG..... of JNTUA College  
of Engineering (Autonomous), Ananthapuramu has participated  
in a 3 Day International Conference on "System Automation,  
Reliability, Quality Control, Safety, Maintenance & Management",  
during 11<sup>th</sup> - 13<sup>th</sup> December, 2019, at College Auditorium,  
JNTUACEA.

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
(Prof. B. ESWARA REDDY)  
Organising Secretary

  
(Prof. V. SANKAR)  
General Chair

  
(Prof. K. GOVINDA RAJULU)  
Principal, JNTUA CEA



# JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), TEQIP - III ANANTHAPURAMU

Technical Education Quality Improvement Programme




SB Code - 12431



## Certificate of Participation

This is to certify that Dr./Mr./Ms. A. Nagaraju, Asst. Professor (Adhoc), Mech  
of JNTUA CEA has participated  
in a 5 Day Faculty Development Program on "Awareness on Electric/Hybrid Vehicle  
Engineering", organised under TEQIP - III, from 21<sup>st</sup> - 25<sup>th</sup> January 2020, at Prof. S.  
Tiruvengalam Memorial Seminar Hall, Department of EEE, JNTUA CEA.

  
CO-ORDINATOR  
(Dr. J. Sreenivasulu)

  
HOD OF EEE  
(Prof. R. Kiranmayi)

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002  
CHAIR IEEE ATPSS  
(Prof. V.Sankar)



ज्ञान-विज्ञान विमुक्तये

**UNIVERSITY GRANTS COMMISSION**  
**HUMAN RESOURCE DEVELOPMENT CENTRE**  
**SRI VENKATESWARA UNIVERSITY**  
**TIRUPATI - 517 502 (A.P)**



**UGC-SPONSORED REFRESHER COURSE**

This is to certify *Dr. K. Aparna, Asst. Prof. in Electronics & Communication Engineering*

*JNTUA College of Engineering, Kalikiri*

affiliated to .....

participated in the Refresher Course in **Gender Studies (Inter Disciplinary Course)**

from **25-02-2019** to **16-03-2019** (108 Contact hours) and obtained Grade **A**.

*R. Srinivas*  
Director

*T. Lakshmi*  
Coordinator

*R. Anuradha*  
Registrar/Vice-Chancellor



# ENGINEERING STAFF COLLEGE OF INDIA

An Autonomous Organ of The Institution of Engineers (India)



**Faculty Development Programme on**  
**Choice Based Credit System, OBE, Curriculum Design,**  
**IPR and Industry-Institution Partnership**  
**29 December 2016 to 02 January 2017**

## Certificate of Participation

ESCI, The Institution of Engineers(India) appreciates the active participation by  
*Dr. K. Aparva*..... from *JNTUACE Pulivendula (A.P.)*.....  
during FDP on "Choice Based Credit System, OBE, Curriculum Design, IPR and  
Industry - Institution Partnership" conducted from 29 December 2016 to 02 January 2017,  
at Alleppey, Kerala

**Mr. P. Sai Kishore**  
Head & Chief Coordinator,  
(FDP Cell) ESCI.

**Dr. D. N. Reddy, FIE**  
Vice Chairman (Governing Council)  
and Director, ESCI



**G. Narayanamma Institute of Technology and Science**

(for women)  
Accredited by NAAC and NBA, An ISO 9001:2015 certified Institution

Approved by AICTE and Affiliated to JNTUH.

Hyderabad 500104.

## CERTIFICATE OF PARTICIPATION

This is to certify that

Dr. K. Aparna, Asst. Prof. & HOD, ECE, JNTUACE

has attended one- week Faculty Development Program on "IoT Development and Analytics"

from 12<sup>th</sup> to 17<sup>th</sup> March, 2018

organized by Department of Computer Science & Engineering

in association with SmartBridge Educational Services, Hyd.

Amarender Katkam  
Chief Technical Officer  
SmartBridge Educational Services Pvt. Ltd.

Dr. M. Seetha  
Professor and Head,  
Department of CSE

Dr. K. Ramesh Reddy  
Principal  
GNITS



# Engineering Staff College of India



Autonomous Organ of The Institution of Engineers (India)  
(ISO 9001 : 2008 Certified, AICTE & CEA Recognized Institution)

*This Certificate is Awarded  
To*

**Komperla Aparna**

JNTUA, Pulivendula (Andhra Pradesh)

*for  
Participation in the*

Workshop on

**Outcome Based Assessment & Accreditation  
Preparation of NBA – SAR**

24 – 26 March 2017 at Hotel Surya, Shimla (H.P)





Course Director



Director





Certificate No: ICT-6001/20

# National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA

## Certificate



*This is to certify that*

**K APARNA**

**JNTUA COLLEGE OF ENGINEERING, KALIKIRI  
ANDHRA PRADESH**

*Participated in the Online AICTE Recognized Faculty Development Programme*

**on**

**8051 and its Applications**

**from**

**18-05-20 to 22-05-20 (One Week)**

*Organized by*

**Electrical Engineering Department**

**NITTTR, Chandigarh**



**Coordinator**

**Director**



Certificate No: ICT-7291/20

# National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA

## Certificate



*This is to certify that*

**K APARNA**

**JNTUA COLLEGE OF ENGINEERING, KALIKIRI  
ANDHRA PRADESH**

*Participated in the Online AICTE Recognized Faculty Development Programme*

**on**

**MATLAB Programming**

**from**

**11-05-20 to 15-05-20 (One Week)**

*Organized by*

**Electrical Engineering Department**

**NITTTR, Chandigarh**



  
**Coordinator**

  
**Director**



No:ATAL/2020/252763



## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training And Learning (ATAL) Academy

### Certificate

This to be certified that **K APARNA** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online FDP** on "**Internet of Things**" from **07-05-2020** to **11-05-2020** at **NIT JAMSHEDPUR**.

Director ATAL Academies



Coordinator

**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH,  
CHANDIGARH**



**&  
XTRANS SOLUTIONS PVT. LTD.,  
BANGALORE**

**CERTIFICATE OF COMPLETION**

ICTO-SP-10/2020/120

This is to certify that Mr./Ms./Dr..... **K APARNA**

from..... **JNTUA COLLEGE OF ENGINEERING , KALIKIRI**

has attended online **Refresher Course** of Two Weeks on **“Internet of Things- A Project Based Learning using Virtual IoT Lab”** Organized jointly by National Institute of Technical Teachers Training & Research Chandigarh and Xtrans Solutions Pvt. Ltd., Bangalore from 08<sup>th</sup> to 19<sup>th</sup> July 2020.

(Patron)  
**Prof. (Dr.) S. S. Pattnaik**  
Director, NITTTR Chandigarh

(Coordinator)  
**Prof. (Dr.) S.S. Gill**  
Professor, CSE, NITTTR  
Chandigarh

(Coordinator)  
**Prof. (Dr.) K.G. Srinivasa**  
Professor, CSE, NITTTR  
Chandigarh

Director Xtrans Pvt. Ltd.

23rd October 2021



# CERTIFICATE OF PARTICIPATION

*Presented to*

**Dr. K. Aparna**

---

*In Recognition of*

*Active participation in the “Roadmap to Build the Successful Strategies with Corporates” Workshop conducted by Testbook.com*

*Ashutosh Kumar*

ASHUTOSH KUMAR  
CEO, TESTBOOK.COM



**SKILLED CAMPUS PROGRAM**



# JNTUA College of Engineering (Autonomous) Ananthapuramu

## AICTE Sponsored Two-Week Online Faculty Development Programme (FDP)

Certificate of Participation to

**Dr. K.Aparna**

This is to certify that he/she has participated and completed AICTE Sponsored Two Week Online Faculty Development Programme (FDP) on “Opportunities in Artificial Intelligence and Enabling Technologies for Internet of Things (IoT)” organized by the Department of Computer Science and Engineering, JNTUACEA during 17~28 November 2020.



*Shoba Bindu*

**Prof. C. Shoba Bindu**

Coordinator

*A. Suresh Babu*

**Prof. A. Suresh Babu**

Convener

*K. Govindarajulu*

**Prof. K. Govindarajulu**

Principal



## INVITATION

JAWAHARALAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
ANANTHAPURAMU

*Cordially invites you to attend one day Workshop  
on*

**“Strategies for Enhancing Communication Skills of Students”.**

17<sup>th</sup> July, 2021 at 11:00 a.m.

Chief Guest

**Prof. K. Hemachandra Reddy**

Chairman, APSCHE

**Prof. G. Ranga Janardhana**

Vice Chancellor, JNTUA

**Venue: Seminar Hall, EEE Dept.,**

JNTUA College of Engineering

Ananthapuramu



# JNTUA College of Engineering (Autonomous) Ananthapuramu

## AICTE Sponsored Two-Week Online Faculty Development Programme (FDP)

Certificate of Participation to

**Dr. K.Aparna**

This is to certify that he/she has participated and completed AICTE Sponsored Two Week Online Faculty Development Programme (FDP) on “Opportunities in Artificial Intelligence and Enabling Technologies for Internet of Things (IoT)” organized by the Department of Computer Science and Engineering, JNTUACEA during 17~28 November 2020.



**Prof. C. Shoba Bindu**  
Coordinator

**Prof. A. Suresh Babu**  
Convener

**Prof. K. Govindarajulu**  
Principal



Certificate No: ICT-18485/20

# National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA

## Certificate

*This is to certify that*

**K APARNA**

**JNTUA COLLEGE OF ENGINEERING, KALIKIRI  
ANDHRA PRADESH**

*Participated in the Online AICTE Recognized Faculty Development Programme*

**on**

**Research Trends in VLSI Design**

**from**

**25/05/2020 to 29/05/2020 (One Week)**

*Organized by*

**Electronics and Communication Engineering Department**

**NITTTR, Chandigarh**



**Coordinator**

**Director**



**V.V. Giri National Labour Institute**  
**Sector-24, NOIDA, INDIA**

**Certificate of Participation**

Ms. **Aparna Kukunuri** is hereby awarded the certificate in recognition of successful participation in the **Online Training of Trainers Programme for Rural Educators** organised by the V. V. Giri National Labour Institute during April 12-16, 2021.

*R. R. Patel*

**(Dr. R. R. Patel)**  
**Course Director**

No. 239/06/2021-22  
Date: 16.04.2021

*(Signature)*

**(Dr. H. Srinivas)**  
**Director General**





## Internship Day

# Certificate of Appreciation

is presented to

**Dr. K. Aparna**

for attending the Internship Day award ceremony, held on the 24th of August 2021.

We acknowledge their presence during the ceremony and wish them all the best  
for their future endeavours.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agrawal  
Founder & CEO, Internshala



Proceedings of the  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: ANANTAPUR  
COLLEGE OF ENGINEERING, KALIKIRI

Present: Prof. M.L.S. Deva Kumar., M.Tech., M.B.A, Ph.D.  
PRINCIPAL

Procs. No: C1/JNTUA/CEK/ Reimbursement/2021-22

Date: 18.01.2022

**Sub:** JNTUA CEK- Estt.- Reimbursement of Rs.280/- to Dr. K. Aparna, Placement Officer, JNTUACEK towards the expenditure for Hospitality & other miscellaneous charges for training program on “ Productivity Enhancement Tools” from 01<sup>st</sup> to 07<sup>th</sup> December 2021 organized by APSSDC trainers for all I B.Tech Students, JNTUACEK – Orders – Issued.

- Read:** 1. Letters submitted by Dr. K. Aparna, Placement Officer, JNTUA CEK, dt: 10.01.2022.  
2. Bill No:004, dt:0/12.2021, for Rs.280/- of M/s JNTUA CEK Canteen.  
3. Note orders of the Principal, dt:12.01.2022.

-o0o-

**ORDER:**

Under the circumstances stated by the Dr. K. Aparna, Placement Officer, JNTUA CEK, in the read (1) above Sanction is hereby accorded for payment of Rs.280/- (Rupees two hundred and eighty only) to Dr. K. Aparna, Placement Officer, JNTUACEK towards the expenditure for Hospitality & other miscellaneous charges for training program on “ Productivity Enhancement Tools” from 01<sup>st</sup> to 07<sup>th</sup> December 2021 organized by APSSDC trainers for all I B.Tech Students JNTUA College of Engineering, Kailkiri.

The Accounts Section is permitted to reimburse an amount of Rs.280/- (Rupees two hundred and eighty only) to Dr. K. Aparna, Placement Officer, JNTUACEK towards the above mentioned expenditure.

The expenditure shall be met from “Placement A/c” of the College.

  
PRINCIPAL

To  
Copy to Dr. K. Aparna, Placement Officer, JNTUACEK  
The Accounts Section for necessary action  
Copy to A.R for information  
Copy to file

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



Proceedings of the  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: ANANTAPUR**  
**COLLEGE OF ENGINEERING, KALIKIRI**  
Present: Dr. N. Visali, B.Tech., M.Tech., Ph.D.  
**PRINCIPAL**

Proc.No.C1/JNTUA/CEK/Reimbursement/2020-21

dt: 01.06.2020

**Sub:** JNTUA CEK – Estt.- Reimbursement of Rs.3,010/- to Dr. K. Aparna, Placement Officer, JNTUACEK, spent towards the expenditure for Hospitality & miscellaneous charges for the training program on “C & Data Structure” from 16<sup>th</sup> to 19<sup>th</sup> March 2020 organized by APSSDC trainers for III<sup>rd</sup> B.Tech students – Orders – Issued

- Read:** 1. Note submitted by Dr. K. Aparna, Placement Officer, JNTUA CEK, dt: 30.05.2020.  
2. Note orders of the Principal, dt.01.06.2020.

-o0o-

**ORDER:**

Under the above circumstances stated by the Dr. K. Aparna, Placement Officer, JNTUA CEK in the read above, Sanction is hereby accorded for payment of Rs.3,010/- (Rupees three thousand and ten only) to Dr. K. Aparna, Placement Officer, JNTUACEK towards the expenditure for hospitality and other miscellaneous charges to the trainers in connection with Four-day training programme on “C & Data Structures” organised by APSSDC trainers, from 16<sup>th</sup> to 19<sup>th</sup> March 2020 for III<sup>rd</sup> B. Tech students of this College.

The Accounts Section is permitted to reimburse an amount of Rs.3,010/- (Rupees three thousand and ten only) to Dr. K. Aparna, Placement Officer, JNTUACEK towards the above mentioned expenditure.

The expenditure shall be met from the “Placement A/c” of the College.

To  
Copy to the Dr. K. Aparna, Placemnet Officer, JNTUA CEK  
The Accounts Section for necessary action  
Copy to O.S for information  
Copy to file

*dlw*  
PRINCIPAL  
*[Signature]*

*4 11*  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002  
*9c*



Proceedings of the  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: ANANTAPUR**  
**COLLEGE OF ENGINEERING, KALIKIRI**  
Present: Dr. N. Visali, B.Tech., M.Tech., Ph.D.  
**PRINCIPAL**

Proc.No.C1/JNTUA/CEK/Reimbursement/2019-20

dt: 01.06.2020

**Sub:** JNTUA CEK – Estt.- Reimbursement of Rs.1,650/- to Dr. K. Aparna, Placement Officer, JNTUACEK, spent towards the expenditure for Hospitality & miscellaneous charges to the trainer in connection with three-day Aptitude training programme organised by Sri. PSV. Bhupatiraju, from 17<sup>th</sup> to 19<sup>th</sup> Feb 2020 for III<sup>rd</sup> B. Tech students of this College – Orders – Issued

- Read:** 1. Note submitted by Dr. K. Aparna, Placement Officer, JNTUA CEK, dt: 29.05.2020.  
2. Note orders of the Principal, dt.01.06.2020.

-o0o-

**ORDER:**

Under the above circumstances stated by the Dr. K. Aparna, Placement Officer, JNTUA CEK in the read above, Sanction is hereby accorded for payment of Rs.1,650/- (Rupees one thousand six hundred and fifty only) to Dr. K. Aparna, Placement Officer, JNTUACEK towards the expenditure for hospitality and other miscellaneous charges to the trainer in connection with Three-day Aptitude training programme organised by Sri. PSV. Bhupatiraju, APITA trainer, from 17<sup>th</sup> to 19<sup>th</sup> Feb 2020 for III<sup>rd</sup> B. Tech ( CSE and ECE) Students of this College.

The Accounts Section is permitted to reimburse an amount of Rs.1,650/- (Rupees one thousand six hundred and fifty only) to Dr. K. Aparna, Placement Officer, JNTUACEK towards the above mentioned expenditure.

The expenditure shall be met from the "Placement A/c" of the College.

To  
Copy to the Dr. K. Aparna, Placemnet Officer, JNTUA CEK  
The Accounts Section for necessary action  
Copy to O.S for information  
Copy to file

  
PRINCIPAL

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
COLLEGE OF ENGINEERING KALIKIRI- 517 234,  
CHITTOOR (Dt).. A.P., INDIA.

**Dr. B. Eswara Reddy**

B.Tech.(CSE), M.Tech., Ph.D.,  
MISTE, MCSI, MISC A, MIEEE, FIE

**PRINCIPAL**  
Professor of CSE



Mobile:- +91-9866914072

Email:- principal.cek@jntua.ac.in

Date:25-05-2018.

**SUB:-** JNTUACEK- permission to conduct a 3-Day Faculty Development Program on "Embedded System Design using TIVA" for faculty of constituent and affiliated engineering colleges of JNTU Anantapuramu. - orders Issued.

**Ref:** Application submitted by Dr. K Aparna, Assistant Professor & HECED i/c of ECE department.


**ORDER:**

Under the circumstances stated in the letter read above, the Principal is pleased to permit Dr. K Aparna, Assistant Professor & HECED i/c of ECE department of this college to conduct a 3-Day Faculty Development Program on "Embedded System Design using TIVA" for faculty of constituent and affiliated engineering colleges of JNTU Anantapuramu during 31<sup>st</sup> May to 2<sup>nd</sup> June 2018 at JNTUA College of Engineering, Kalikiri without any financial assistance from College.

Dr. K Aparna, Assistant Professor & HECED i/c of ECE department requested to submit report after completion of the programme.

To

- Dr. K Aparna, Assistant Professor & HECED i/c of ECE department

  
**PRINCIPAL**  
JNTUA College of Engineering,  
KALIKIRI-517234

  
**REGISTRAR**  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



Proceedings of the  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR**  
**COLLEGE OF ENGINEERING, KALIKIRI**  
Present: Dr. B. Eswara Reddy, B.Tech., M.Tech., Ph.D.  
Principal

Procs. No: C1/JNTUA/CEK/ Reimbursement/2018-19

Date: 30.05.2018

**Sub:** JNTUA CEK- Estt.- Reimbursement of Rs.3,860/- to Dr. K. Aparna, HECED i/c. JNTUACEK towards the expenditure for hospitality to the trainer and certificates printing for the workshop in connection with "Embedded System Fundamentals (IoT)" for III<sup>rd</sup> and IV<sup>th</sup> B.Tech ECE Students – Orders – Issued.

**Read:** 1. Note submitted by Dr. K. Aparna, HECED i/c, JNTUACEK, dt.25-05-2018.  
2. Note orders of the Principal, dt:30-05-2018.

-o-o-

**ORDER:**

Under the above circumstances stated by the Dr. K. Aparna, HECED i/c, JNTUA CEK in the read above, Sanction is hereby accorded for payment of Rs. 3,860/- (Rupees three thousand eight hundred and sixty only) to Dr. K. Aparna, Placement Officer, JNTUACEK towards the expenditure for hospitality to the trainer and certificates printing for the workshop in connection with "Embedded System Fundamentals (IoT)" for III<sup>rd</sup> and IV<sup>th</sup> B.Tech ECE Students of JNTUA College of Engineering, Kalikiri.

The Accounts Section is permitted to reimburse an amount of Rs. Rs. 3,860/- (Rupees three thousand eight hundred and sixty only) to Dr. K. Aparna, HECED i/c, JNTUACEK towards the above mentioned expenditure.

The expenditure shall be met from "Other Contingency A/c" of the College.

  
PRINCIPAL  


To  
Copy to Dr. K. Aparna, HECED i/c, JNTUACEK  
The Accounts Section for necessary action  
Copy to Asst. Registrar/O.S for information  
Copy to file

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

ok



PROCEEDINGS of the  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: ANANTAPUR  
COLLEGE OF ENGINEERING, KALIKIRI

Present: Dr. B. Eswara Reddy, B.Tech., M.Tech., Ph.D.  
Principal

Procs.No.C1/ JNTUA/CEK/Permission/2018-19

Date: 08.08.2018

**Sub:** JNTUA – CE, Kalikiri –Post Facto Permission to organize workshop on “Problem-Solving Skills Using C” from 06<sup>th</sup> to 11<sup>th</sup> August 2018 in association with APSSDC for all IV<sup>th</sup> B. Tech ECE Students - Orders – Issued.

**Read:** 1. Permission letter by Dr. K. Aparna, HECED i/c, JNTUA CEK, dt:01-08-2018.  
2. Note orders of the Principal, dt:07-08-2018.

-o0o-

**ORDER:**

Dr. K. Aparna, HECED i/c, JNTUA College of Engineering, Kalikiri, in his letter (1) read above has requested the principal for post facto permission to organise workshop on “Problem Solving Skills using C” for all IV<sup>th</sup> B.Tech Students in association with APSSDC according to the needs of Industry from 6<sup>th</sup> to 11<sup>th</sup> August 2018 at JNTUA College of Engineering, Kalikiri.

Under the circumstances stated above, the principal is pleased to accord the post facto permission for the above purpose without financial assistance.

  
PRINCIPAL

To  
Dr. K. Aparna, HECED i/c, JNTUACEK  
The Accounts Section for necessary action  
Copy to Asst. Registrar/O.S for information  
Copy to file

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



# ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of A.P)

## SRI PADMAVATHI MAHILA VISVAIDYALAYAM

TIRUPATI

### CERTIFICATE OF PARTICIPATION

This is to certify that

Prof./Dr./Mr./Ms. Komperla. Aparna

of JNTUA College of Engineering Kalikiri

has participated in One Day Workshop on

### “ENSURING OPERATIONAL EFFECTIVENESS OF IQACs IN UNIVERSITIES”

on Friday, 29<sup>th</sup> October, 2021 organized by the AP State Council of Higher Education

in association with Sri Padmavathi Mahila Visvavidyalam, Tirupati

Prof. D.M.Mamatha

Registrar

Sri Padmavathi Mahila Visvavidyalam

REGISTRAR

A.N.T.U. Anantapur  
ANANTAPURAMU-515002

Prof. K. Rama Mohana Rao

Vice-Chairman

AP State Council of Higher Education





**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**

TEQIP  
PHASE II  
SC 1.1

**COLLEGE OF ENGINEERING (AUTONOMOUS) :: PULIVENDULA**

**Y.S.R (Kadapa) Dist., A.P., INDIA-516390**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

## CERTIFICATE

This is to certify that Prof./Dr./Mr./Ms. K. APARNA  
of JNTUA COLLEGE OF ENGG, PULIVENDULA  
has participated in TEQIP-II sponsored Two Day National Level Faculty  
Development Program on "**Digital Image Processing, Pattern Recognition**  
**and its Applications**" organized by Department of Electronics and  
Communication Engineering, JNTUA College of Engineering (Autonomous),  
Pulivendula during 19<sup>th</sup> and 20<sup>th</sup> September 2016.

  
Dr.S.Chandra Mohan Reddy  
Coordinator  
JNTUA CEP

  
Prof. G.V. Subba Reddy  
Vice-Principal  
JNTUA CEP

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002  
Prof. K. Govinda Rajulu  
Principal  
JNTUA CEP

**SIEMENS**

*Ingenuity for life*



# Certificate of Completion

siemens.co.in

This is to certify that ***Sangati Aparna*** .....

bearing number **SPLM/APSSDC/10011** has successfully completed

**Essentials for NX Designers** ..... Course

Conducted at

***JNTUA college of Engg. - Anantapur*** .....

from **18-Dec-17** to **23-Dec-17**

**REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002**

Authorized Signatory:

Siemens Industry Software Pvt. Ltd

Authorized Signatory:

APSSDC

Authorized Signatory:

DesignTech Systems Limited

Roll No: NPTEL19ME20S51540169

To  
S.APARNA  
DOOR NO 203 B TYPE QUARTERS JNTUACEP  
PULIVENDULA  
KADAPA  
ANDHRA PRADESH  
516390  
PH. NO :8978824777

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully completed the course
<40	No Certificate



10. of credits recommended by NPTEL:3



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**S.APARNA**

for successfully completing the course

## Manufacturing Process Technology

with a consolidated score of **67** %

Online Assignments	20.19/25	Proctored Exam	46.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1475

*V Prabhakar*

Prof. T. V. Prabhakar  
Chairman  
for Continuing Education, IITK

Jan-Apr 2019  
(12 week course)

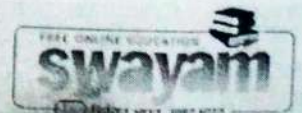
*ysl*  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

*Satyaki Roy*

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur





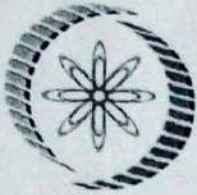
Roll No: NPTEL19ME10S31540108

To  
S.APARNA  
DOOR NO 203 B TYPE QUARTERS JNTUACEP  
PULIVENDULA  
KADAPA  
ANDHRA PRADESH  
516390-  
PH. NO :8978824777

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully completed the course
<40	No Certificate



No. of credits recommended by NPTEL:3



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**S.APARNA**

for successfully completing the course

## IC Engines and Gas Turbines

with a consolidated score of **49** %

Online Assignments	14.19/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1557

Prof. Sunil Khijwania  
Head, Center for Educational Technology  
NPTEL Coordinator, IIT Guwahati

Jan-Apr 2019  
(12 week course)

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



Indian Institute of Technology Guwahati



Roll No: NPTEL19ME10S31540108

To validate and check scores: <http://nptel.ac.in/noc>

# TEQIP-III Sponsored FDP on "Achieving Excellence in Engineering Education"

Organized by:

## Engineering Staff College of India

An Autonomous Organ of The Institution of Engineers (India)  
(ISO 9001:2015 certified and CEA Recognised Institution)

Venue:

CENTRE FOR SKILL DEVELOPMENT & ENGINEERING CONSULTANCY (CSDEC)

### The Institution of Engineers (India)

HP State Centre, Engineers Bhawan, Nigam Vihar, Shimla - 171002.

## Certificate of Participation

Engineering Staff College of India - An Autonomous Organ of The Institution of Engineers (India) appreciates the active participation by Dr. S. Aruna Mastani from JNTUA, Ananthapur for one week TEQIP-III Sponsored FDP on "Achieving Excellence in Engineering Education" at CSDEC The Institution of Engineers (India), HP State Centre, Shimla, conducted from 24-28 May 2018

  
**P. Sai Kishore**

Head (FDP Cell), ESCI



**R. N. Jayaram**

Director (Academy) (IIEE)

# TEQIP-III Sponsored FDP on "Achieving Excellence in Engineering Education"

Organized by:

## Engineering Staff College of India

An Autonomous Organ of The Institution of Engineers (India)  
(ISO 9001:2015 certified and CEA Recognised Institution)

Venue:

CENTRE FOR SKILL DEVELOPMENT & ENGINEERING CONSULTANCY (CSDEC)

### The Institution of Engineers (India)

HP State Centre, Engineers Bhawan, Nigam Vihar, Shimla - 171002.

## Certificate of Participation

Engineering Staff College of India - An Autonomous Organ of The Institution of Engineers (India) appreciates the active participation by Dr. S. Aruna Mastani from JNTUA, Ananthapur for one Week TEQIP-III Sponsored FDP on "Achieving Excellence in Engineering Education" at CSDEC The Institution of Engineers (India), HP State Centre, Shimla, conducted from 24-28 May 2018

  
**P. Sai Kishore**

Head (FDP Cell), ESCI

  
**R. N. Jayaram**

Director (Academy) (IIECI)



**Department of Mathematics**  
**JNTUA College of Engineering (Autonomous), Anantapur**

**A National Level Online Faculty Development Program**

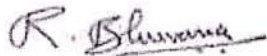
**On**

**New Perspectives in Mathematics and Their Relevance to Science & Technology**  
2nd to 4th September 2020

(Sponsored by TEQIP III, JNTUACEA, Anantapur)

**CERTIFICATE OF PARTICIPATION**

This is to certify that Dr. S. Aruna Mastani , Assistant Professor of JNTUACEA, ANANTAPUR participated in the National Level Online Faculty Development Program on “*New Perspectives in Mathematics and Their Relevance to Science & Technology*” held in the Department of Mathematics, JNTUA College of Engineering, Anantapuramu, from 02-09-2020 to 04-09-2020.



**Coordinator & Head**



**Principal**

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

No:ATAL/2020/1597761831



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training And Learning (ATAL) Academy**

**Certificate**

This is certified that S,Aruna Mastani, Assistant Professor of JNTUA College of engineering , Anantapur participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Personal Effectiveness" from 2020-11-2 to 2020-11-6 at Indian Institute of Technology Bhubaneswar.

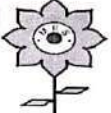
Director ATAL Academies



  
**REGISTRAR**  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

Coordinator





Atma Education Society's

**Pillai HOC College of Engineering and Technology (PHCET), Rasayani**

Accredited with an 'A' grade by NAAC in the First Cycle 2019

Reaccredited by NBA for Computer and Mechanical Engineering 2020

Winner of the First Position for Workplace Safety Awards 2019

Winner of Indian Merchant Chamber's Ramakrishna Bajaj National Quality Performance Excellence Trophy - 2019



## CERTIFICATE

This is to certify that Dr. S. Aruna Mastani of J.N.T.U.A College of Engineering, has participated in a Webinar/Expert Lecture on **"Effective Teaching Methodology"** organized by Department of Civil Engineering on Tuesday, 5<sup>th</sup> May 2020.

**Sandeep Gujjar**

Coordinator

**Mr. Raju Narwade**

Convener & HoD

**Dr. Madhumita Chatterjee**

Principal

4  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



**Visvesvaraya Technological University, Belagavi**

Centre for Postgraduate Studies and Regional Office, Kalaburagi

and

**Indian Institute of Information Technology, Allahabad**

Devghat, Jhalwa, Prayagraj, Uttar Pradesh





## Certificate

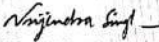
This is to certify that Dr. S.Aruna Mastani from

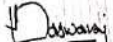
JNTUA College of Engineering Anantapuramu has participated

in one week online FDP on "Exemplary Practices in Teaching - Learning and Evaluation of Courses in Computer Science & Information Technology", jointly organised by Visvesvaraya Technological University's Centre for Postgraduate Studies, Kalaburagi and Indian Institute of Information Technology, Allahabad from August 3-7, 2020.

  
Prof. Shubhangi D. C.  
Programme Coordinator, Dept. of CSE  
VTU's CPGS, Kalaburagi

  
Prof. S. A. Angadi  
Chairperson, Dept. of CSE  
VTU's CPGS, Belagavi

  
Prof. Vrijendra Singh  
Head, Dept. of IT  
IIT, Allahabad

  
Prof. Baswaraj Gadgay  
Regional Director (U/C)  
VTU's Regional Office, Kalaburagi

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



TEQIP 3

TEQIP Sponsored  
Three Day On-line  
Faculty Development Programme

## Intellectual Property Rights: An Overview

(9<sup>th</sup> – 11<sup>th</sup> September, 2020)



Organized by  
Electronics & Communication Engineering  
Department  
JNTUA College of Engineering(Autonomous)  
Ananthapuramu-515 002, (A.P)  
[www.jntuacea.ac.in](http://www.jntuacea.ac.in)

&

Directorate of Faculty Development & IQAC  
JNTUA, Ananthapuramu  
[www.jntua.ac.in](http://www.jntua.ac.in)

### Chief Patron

Prof. S. Srinivas Kumar  
Vice Chancellor,  
JNTUA, Ananthapuramu

### Patron

Prof. K. Govinda Rajulu  
Principal,  
JNTUA CEA, Ananthapuramu

### Chairman

Prof. P. Ramana Reddy  
Head of ECE Department,  
JNTUA CEA

### Convener

Prof. G. Prasanthi,  
Director,  
Faculty Development & IQAC, JNTUA

### Co-ordinator

Dr. S. Aruna Mastani  
Assistant Professor,  
Dept. of ECE, JNTUA CEA

### Registration Link

<https://forms.gle/CwUeYzHx2BZPqNyd9>

### Contact Details

Dr. S. Aruna Mastani  
Ph. No. 7382720324  
e-mail Id : [iprfdp.jntua@gmail.com](mailto:iprfdp.jntua@gmail.com)

### Resource Persons



Prof. G. Prasanthi,  
Director, Faculty Development & IQAC,  
JNTUA, Ananthapuramu



Sri Satish Kumar  
Assistant Director,  
O/o Development Commissioner (MSME),  
Ministry of MSME, Govt. of India



Sri Rajneesh Kumar  
Chief Operating Officer,  
Pusa Krishi Incubator, IARI, New Delhi



Ms. Swarna Srivastava  
Research Associate (IP),  
Indian Agricultural Research Institute,  
New Delhi

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
ANANTHAPURAMU - 515002 , A.P., INDIA.  
DIRECTORATE OF FACULTY DEVELOPMENT CENTRE

## CERTIFICATE OF PARTICIPATION

*This is to certify that **Sri. M. ASHOK CHAKRAVARTHY** Adhoc Lecturer of ME Dept., in the College of JNTUA College of Engineering, Ananthapuramu, has participated in one Day Workshop on "21<sup>st</sup> Century Teaching Strategies" on 16<sup>th</sup> September, 2017 held at College Auditorium, JNTUA College of Engineering, (Autonomous), Ananthapuramu.*

**Prof. M. YOHAN**

Coordinator &

Director of Faculty Development Centre

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

TATA CONSULTANCY SERVICES

Experience. Credibility.



## *Certificate of Participation*

This is to certify that

***Mr. M. Ashok Chakravarthi***

of

*JNTUA College of Engineering, Anantapuramu, Andhra Pradesh*

has participated in the Faculty Development Programme on

***BIG DATA ANALYTICS***

held from 20-Feb-2017 to 22 Feb-2017 at JNTUA College of Engineering, Anantapuramu, Andhra Pradesh

Dr. K Kesavasamy  
Global Head  
Academic Interface Programme



4  
REGISTRAR  
J.N.T.U. Anantapuramu  
ANANTAPURAMU

V Rajanna  
Vice President & Regional Head  
Global Head - Technology Business Unit



JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTHAPURAMU  
Department of Mechanical Engineering

TEQIP-III



## Certificate of Participation



This is to certify that *Dr. / Mr. / Ms.* M. ASHOK CHAKRAVARTHY, *Lecturer*  
of Mech Engg Dept, JNTUA CEA, ANANTHAPURAMU has participated in a  
two week Faculty Development Programme sponsored by TEQIP-III and IE(I) on  
"Solar and Wind Energy - Future Technologies" organized by Mechanical Engineering  
Department, JNTUA College of Engineering, Ananthapuramu, (A.P) during 12<sup>th</sup> to 24<sup>th</sup> Nov. 2018.

COORDINATOR  
(Prof. K. Hemachandra Reddy)

CONVENER & HOD  
(Dr. B. Chandra Mohana Reddy)

REGISTRAR  
J.N.T.U. Anantapur  
ANANTHAPURAMU-515002

PRINCIPAL  
(Prof. K. Rama Naidu)

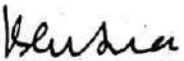
JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTHAPUR  
JNTUA UNIVERSITY ANANTHAPURAMU - 515002, A.P.


&


UNIVERSITY COLLEGE OF ENGINEERING & TECHNOLOGY  
BIKANER TECHNICAL UNIVERSITY, BIKANER - 334004, RAJASTHAN

### Certificate of Participation

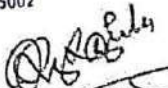
This is to certify that Mr./Ms./Dr./Prof. M: Ashok Chakravarthi  
of JNTUACEA has participated  
in TEQIP - III sponsored One-Week Faculty Development Program on **Leadership Skills**, during 19-24 August 2019 conducted at JNTUA College of Engineering Ananthapuramu.

  
Prof. V.B. CHITHRA  
Convener & Coordinator  
JNTUACEA, Anantapur

  
Dr. SUDHIR BHARDWAJ  
Coordinator  
UCE&T, Bikaner

  
Dr. RUMA BHADAURIA  
Coordinator  
UCE&T, Bikaner

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Prof. K. GOVINDA RAJULU  
Principal  
JNTUACEA, Anantapur



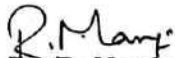
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR**  
**College of Engineering (Autonomous), Ananthapuramu-515002, A.P.**

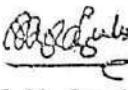
## Certificate of Participation

*This is to Certify that Dr./Mr./Ms.....M. Ashok Chakravarthy.....*  
*from.....JNTUA College.....of.....Engineering (Autonomous)....., Ananthapuramu.....*  
*has participated in One Week Faculty Development Programme on*  
**“Innovative Teaching - Learning Techniques in Higher Education”**  
*sponsored by TEQIP-III held at Mechanical Department, JNTUA College of*  
*Engineering, Ananthapuramu during 04-09-2019 to 09-09-2019*

  
Smt. B. Ajitha  
Convener

  
Dr. K. Kalyani Radha  
Coordinator

  
Dr. R. Manjula  
Coordinator

  
Prof. K. Govinda Rajulu  
Principal

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002



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# Certificate of Completion

siemens.co.in

This is to certify that **M.ASHOK CHAKRAVARTHY**.....  
bearing number.....**DSL/APSSDC/37606**.....has successfully  
completed.....**Basic Robotics**..... Course

Conducted at

.....**JNTUA college of Engg, Anantapur (COE)**.....

from **18-Nov-19** to **23-Nov-19**

Authorized Signatory:

Siemens Industry Software Pvt. Ltd

Authorized Signatory

APSSDC

REGISTRAR

J.N.T.U. Anantapur

ANANTAPURAMU-515002

Authorized Signatory:

DesignTech Systems Limited



International Conference on  
System Automation, Reliability, Quality Control,  
Safety, Maintenance & Management  
(IC SARQCSMM-2019)

TEQIP - III  
Technical Education Quality Improvement Program



SB Code - 12431



IEEE  
HYDERABAD SECTION




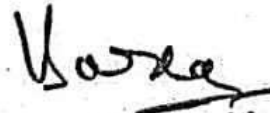
## CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. M.:Ashok..Chakravarthi  
.....Dept.:.....of.....Mechanical.....Engg..... of JNTUA College  
of Engineering (Autonomous), Ananthapuramu has participated  
in a 3 Day International Conference on "System Automation,  
Reliability, Quality Control, Safety, Maintenance & Management",  
during 11<sup>th</sup> - 13<sup>th</sup> December, 2019, at College Auditorium,  
JNTUACEA.

IC SARQCSMM - 2019

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
(Prof. B. ESWARA REDDY)  
Organising Secretary

  
(Prof. V. SANKAR)  
General Chair

  
(Prof. K. GOVINDA RAJULU)  
Principal, JNTUA CEA



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTHAPUR  
College of Engineering, Ananthapuramu - 515002, AP




**Certificate of Participation**

This is to certify that Dr./Prof./Mr./Ms. M. Ashok Chakravarthy  
of JNTUACEA has participated  
in Two Day Workshop on "Materials for Energy Conversion and Storage Devices" Organized by  
Chemical Engineering Department, JNTUA College of Engineering, Ananthapuramu under TEQIP - III  
Programe from 27<sup>th</sup> to 28<sup>th</sup> December 2019.

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Dr. B. Dilip Kumar  
Convener

  
Dr. S. Sharada  
Chairman

  
Dr. K. GOVINDA RAJULU  
Patron



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTHAPUR  
College of Engineering, Ananthapuramu - 515002, AP

**Certificate of Participation**

This is to certify that Mr. / Ms. M. ASHOK CHAKRAVARTHY

of JNTUACEA has participated in

*One Day Workshop on "Recent trends in Chemical and Biochemical Engineering" Organized by Chemical*

*Engineering Department, JNTUA College of Engineering, Ananthapuramu under TEQIP - III Programme*

*on 30<sup>th</sup> December 2019.*

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

*M. Kalyan Kumar*  
20/12/2019  
Mr. M. Kalyan Kumar  
Co-Coordinator

*S. Sharada*  
Dr. S. Sharada  
Coordinator

*K. Govinda Rajulu*  
Prof. K. GOVINDA RAJULU  
Patron



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
College of Engineering (Autonomous), Ananthapuramu - 515002, A.P.

### Certificate of Participation

This is to certify that Prof./Dr./Mr./Ms. M. ASHOK CHAKRAVARTHY of  
JNTUACE, ATP has participated in Three Day Workshop on  
"Experimental Approaches & Instrumental Aspects in Analytical Chemistry"  
Organized by Chemical Engineering Department, JNTUA College of Engineering  
(Autonomous), Ananthapuramu under TEQIP-III from 6<sup>th</sup> to 8<sup>th</sup> February 2019.

  
Dr. B. DILIP KUMAR  
CONVENER

  
Dr. S. SHARADA  
CHAIRMAN

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Dr. K. RAMA NAIDU  
PATRON



# TEQIP - III

Technical Education Quality Improvement Programme



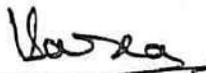
IEEE  
58 Code - 12431

JNTUA COLLEGE OF ENGINEERING ANANTAPUR  
(AUTONOMOUS), ANANTHAPURAMU

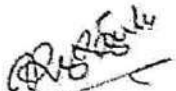
## Certificate of Participation

This is to certify that Dr./Mr./Ms. M. ASHOK CHAKRAVARTHY, ASSISTANT PROF. (AD.HOC)  
MECH  
of JNTUA CEA..... has participated  
in a Two Day Workshop on "Development of MOOCs and Production Techniques",  
organised under TEQIP - III, during 17<sup>th</sup> and 18<sup>th</sup> January, 2020, at Prof. S. Tiruvengalam  
Memorial Seminar Hall, Department of EEE, JNTUACEA.

  
COORDINATOR  
(Dr. K. Jithendra Gowd)

  
CONVENER  
(Prof. V. Sankar)

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
PRINCIPAL  
(Prof. K. Govinda Rajulu)



ज्ञान - विज्ञान विमुक्तये

## UNIVERSITY GRANTS COMMISSION

विश्वविद्यालय अनुदान आयोग  
SOUTH EASTERN REGIONAL OFFICE  
दक्षिण पूर्वी क्षेत्रीय कार्यालय  
HYDERABAD



### National Assessment and Accreditation Council

An Autonomous Institution of the University Grants Commission

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्  
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

### Certificate of Participation

This is to certify that Prof. T. Bala Narasiah

JNTU Anantapur has participated in the

Orientation Workshop on

### Accrediting the Unaccredited Institutions in South Eastern Region

organized by

University Grants Commission, South Eastern Regional Office, Hyderabad

&

National Assessment and Accreditation Council, Bangalore

on 1<sup>st</sup> October, 2018

at Dr. B.R. Ambedkar Open University, Jubilee Hills, Hyderabad.

Hyderabad  
Date: \_\_\_\_\_



  
Dr. G. Srinivas  
Joint Secretary

Scanned with CamScanner

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

# International Conference on BIOTECHNOLOGY & BIOENGINEERING – TRENDS

Jointly Organized by



CBT, IST, JNTUH & DBT, SNIST  
Jawaharlal Nehru Technological University Hyderabad




Sponsored by TEQIP – II  
23<sup>rd</sup> – 25<sup>th</sup> March, 2017

## Certificate

This certificate is awarded to Dr./Prof./Mr./Mrs./Miss ..... T. Bala Naysaiah .....  
in appreciation of his/her contribution for the Oral / Poster Presentation/ Participation with the title Synthesis  
of nanoparticles by using continuous flow micro-reactor ..... in the  
Three Day International Conference on Biotechnology & Bioengineering - Trends" - ICBT-2017.

  
Dr. L. SAIDA  
CONVENER  
CBT, IST, JNTUH

  
Dr. ARCHANA GIRI  
CO-CONVENER  
CBT, IST, JNTUH

  
Dr. A. UMA  
HEAD & CO-CONVENER  
CBT, IST, JNTUH

  
Dr. K.S.R. SIVASAI  
CO-CONVENER  
SNIST

  
Prof. A. JAYASREE  
DIRECTOR  
IST, JNTUH





## INTERNATIONAL CONFERENCE



on

**Sustainable Approaches in Food Engineering and Technology (SAFETY-2021)**

24<sup>th</sup>-25<sup>th</sup> June, 2021

### Participation Certificate

BALA NARSAIAH TUMMA

*This is to certify that Dr./Mr./Ms. \_\_\_\_\_ has participated in SAFETY-2021 organized by the Department of Food Engineering & Technology, Tezpur University, Assam, India, and Department of Food Science & Technology, University of Georgia, Georgia (US) in Association with AFST(I) Tezpur Chapter.*

**Dr. Amit Baran Das**  
Organizing Secretary  
TEZPUR UNIVERSITY

**Dr. Abhinav Mishra**  
Organizing Secretary  
UNIVERSITY OF GEORGIA

**Prof. Nandan Sit**  
Chairperson  
TEZPUR UNIVERSITY

**Prof. Manpreet Singh**  
Chairperson  
UNIVERSITY OF GEORGIA

REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-51



JNTUH College of Engineering  
Hyderabad



Ministry of Human Resource Development  
Government of India

### Certificate of Participation

This is to certify that Prof./Dr./Mr./Ms. T. Bala Narasiah

from JNTU, ANANTAPUR participated in the course

**Composite and Nano Composite Materials – Metal , Ceramic, Polymer Matrix as New  
Engineering & Structural Materials**

11<sup>th</sup> July – 22<sup>nd</sup> July, 2016

  
Course Coordinators

  
Local Coordinator  
GIAN, MHRD

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Principal  
JNTUCEH



SRI KRISHNADEVARAYA UNIVERSITY  
ANANTAPURAMU – 515003 (A.P) INDIA




**National Seminar on 'Entrepreneurship in Sericulture'**

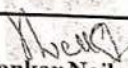
**28<sup>th</sup> & 29<sup>th</sup> April-2022**

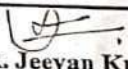
**(Sponsored by SERB-New Delhi)**

CERTIFICATE

This is to certify that Prof./Dr./Mr./ Ms. Dr. B.C. LAKSHMANNA of  
JNTUA ANANTHAPURAMU A.P. has  
participated in SERB sponsored National Seminar on "Entrepreneurship in Sericulture"  
organized by the Department of Sericulture, Sri Krishnadevaraya University,  
Anantapuramu on 28<sup>th</sup> & 29<sup>th</sup> April-2022 and presented the paper entitled

  
Dr. B. Satyanarayana  
Convener

  
Prof. S. Sankar Naik  
Director

  
Prof. R. Jeevan Kumar  
Principal College of Science

4  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002




JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTAPUR  
ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA.

Department of Humanities

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Dr. B.C. Lakshmana  
of Department of Management JNTU, Anantapur has  
participated in TEQIP-III sponsored One-Week Faculty Development  
Programme on Research Methodology and Data Analysis during  
23 - 28, September, 2019

  
Dr. T. Narayana Reddy  
Coordinator

  
Prof. V.B. Chithra  
Convener

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTHAPURAMU-515002

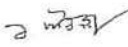
Prof. K. Govinda Rajulu  
Principal  
JNTUACEA




**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
**NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI**

### *Certificate of Participation*

This is to certify that Dr. B C Lakshmanna from JNTUA School of Management Studies, Ananatapur has participated and successfully completed the online workshop on Universal Human Values on the theme "Inculcating Universal Human Values in Technical Education" during 18-22 April, 2020 as organized by All India Council for Technical Education(AICTE).

  
Dr. Rajneesh Arora  
Chairman  
National Coordination Committee for Induction Program

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
Prof. Rajive Kumar  
Member Secretary, AICTE



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**  
ANANTHAPURAMU - 515 002  
ANDHRA PRADESH

**Certificate of Participation**

This is to certify that Dr./Mr./Ms. Dr. B. C. LAKSHMANNA has attended a one day training program organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education under the Faculty Empowerment program on New Technologies in the area of "Microsoft Azure Fundamentals" on 20<sup>th</sup> June 2022.

*V. Sankar Reddy*  
Program Co-ordinator  
JNTUA

*David Sanyal*  
Country Director - Education  
Microsoft Corporation India Pvt. Ltd

*M*  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

*V. Sankar Reddy*  
Registrar  
JNTUA




JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS), ANANTAPUR  
ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA.  
Department of Humanities

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Dr. B. C. Lakshmana of  
JNTUACEA, Anantapur has participated in  
TEQIP-III sponsored One-Week Faculty Development Programme on  
Reinforcing Professional Communication Skills for Teaching Faculty from  
11-15 June, 2018.

  
Dr. V. B. Chithra  
Convenor & Coordinator

  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTHAPURAMU-515002

  
Prof. K. Rama Naidu  
Principal  
JNTUA CEA



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**  
ANANTHAPURAMU - 515 002  
ANDHRA PRADESH

**Certificate of Participation**

This is to certify that Dr./Mr./Ms. DR. B. C. LAKSHMANNA has attended a one day training program organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education under the Faculty Empowerment program on New Technologies in the area of "Microsoft Security, Compliance, and Identity Fundamentals " on 22<sup>nd</sup> June 2022.

*V. Suresh Kumar*  
Program Co-ordinator  
JNTUA

*David Sanyal*  
Country Director - Education  
Microsoft Corporation India Pvt. Ltd

*[Signature]*  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

*[Signature]*  
Registrar  
JNTUA





International Conference on  
System Automation, Reliability, Quality Control,  
Safety, Maintenance & Management  
(IC SARQCSMM-2019)

TE(( ))IP - III  
Tenth Edition Quality Improvement Programme

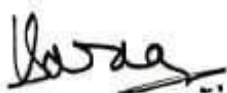


## CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. B.C. Lakshmana...  
Asst. prof. Dept. of MBA..... of JNTUA College  
of Engineering (Autonomous), Ananthapuramu has participated  
in a 3 Day International Conference on "System Automation,  
Reliability, Quality Control, Safety, Maintenance & Management",  
during 11<sup>th</sup> - 13<sup>th</sup> December, 2019, at College Auditorium,  
JNTUACEA.

4  
REGISTRAR  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

  
(Prof. B. ESWARA REDDY)  
Organising Secretary

  
(Prof. V. SANKAR)  
General Chair

  
(Prof. K. GOVINDA RAJULU)  
Principal, JNTUA CEA