

PROCEEDINGS OF THE PRINCIPAL, JNTUA COLLEGE OF ENGINEERING  
ANANTHAPURAMU (AUTONOMOUS):: JNTUACEA ANANTHAPURAMU  
PRESENT: Prof. K. GOVINDA RAJULU: PRINCIPAL

TEQIP-III

Procs. No. TEQIP-III/NPIU/Academics/1.3-2(iv)/90/2019-20

Date:16-09-2019.

Sub: JNTUACEA - TEQIP-III - Academics - Permission to Organize Five day Training Programme on "Power Converters Design" at EEE Department, JNTUACEA during 25-29 September, 2019 - Orders - Issued.

Ref: Letter dt: 09-09- 2019 from M.Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA.

\*\*\*

M.Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA submitted a letter requesting the Principal for permission to organize Five day Training Programme on "Power Converters Design" at EEE Department, JNTUACEA during 25-29 September, 2019 and requested to meet the expenditure from TEQIP-III funds.

Title of the Programme	Power Converters Design
Conducted at	EEE Department, JNTUACEA
Dates of Programme	25-09-2019 to 29-09-2019
Coordinator	M.Anka Rao, Asst. Prof., Dept. of EEE

The requisition submitted is approved and the Principal is pleased to accord permission to M.Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA to organize the above said programme on the date(s) noted. The expenditure will be met from TEQIP-III funds under Academics SC 1.3-2(iv) head of account.

It is requested to follow the rules and regulations in incurring the expenditure and requested to submit the vouchers in original as per the guidelines provided by NPIU. And also requested to submit Photographs, certificates as per TEQIP-III norms in Performa provided.

  
PRINCIPAL

To

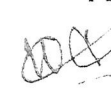
Copy to M.Anka Rao, Asst. Prof., Dept. of EEE

Copy to Prof. M.L.S. Deva Kumar, Nodal Officer (A) (TEQIP-III)

Copy to Dr.A.P. Siva Kumar, TEQIP-III Co-ordinator & Nodal Officer (P)

Copy to Dr.K. Jithendra Gowd, Nodal Officer (F) & TEQIP MIS officer

Copy to Bills.

  
PRINCIPAL  
J.N.T.U.A College of Engineering  
(Autonomous)  
ANANTHAPURAMU-515001  
- A.P. INDIA.

Participating

64

PROCEEDINGS OF THE PRINCIPAL, JNTUA COLLEGE OF ENGINEERING ANANTHAPURAMU (AUTONOMOUS), JNTUACEA ANANTHAPURAMU  
PRESENT: Prof. K. GOVINDA RAJULU: PRINCIPAL

TEQIP-III

Date: 16-09-2019.

Procs No: TEQIP-III NPIU Academics 1.3.2019/90/2019/30

Sub: JNTUACEA - TEQIP-III - Academics - Permission to Organize Five day Training Programme on "Power Converters Design" at EEE Department, JNTUACEA during 25-29 September, 2019 - Orders - Issued

Re: Letter dt: 09-09-2019 from M. Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA.

M. Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA submitted a letter requesting the Principal for permission to organize Five day Training Programme on "Power Converters Design" at EEE Department, JNTUACEA during 25-29 September, 2019 and requested to meet the expenditure from TEQIP-III funds.

Title of the Programme	Power Converters Design
Conducted at	EEE Department, JNTUACEA
Dates of Programme	25-09-2019 to 29-09-2019
Coordinator	M. Anka Rao, Asst. Prof., Dept. of EEE

The requisition submitted is approved and the Principal is pleased to accord permission to M. Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA to organize the above said programme on the dates noted. The expenditure will be met from TEQIP-III funds under Academics SC 1.3-2019 head of account.

It is requested to follow the rules and regulations in incurring the expenditure and requested to submit the vouchers in original as per the guidelines provided by NPIU. And also requested to submit Photographs, certificates as per TEQIP-III norms in Performa provided.

PRINCIPAL

- Copy to M. Anka Rao, Asst. Prof., Dept. of EEE
- Copy to Prof. M. E. S. Deva Kumar, Nodal Officer (A) TEQIP-III
- Copy to Dr. A. P. Siva Kumar, TEQIP-III Coordinator & Nodal Officer (P)
- Copy to Dr. K. Himendra Gowd, Nodal Officer (I) & TEQIP MIS officer
- Copy to Bilis.

**PRINCIPAL**  
J.N.T.U.A College of Engineering  
(Autonomous)  
ANANTHAPURAMU-515002  
A.P. INDIA.

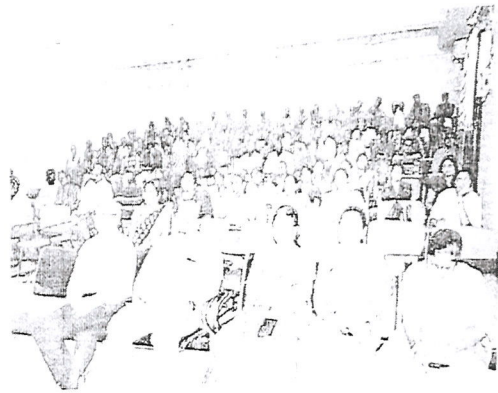
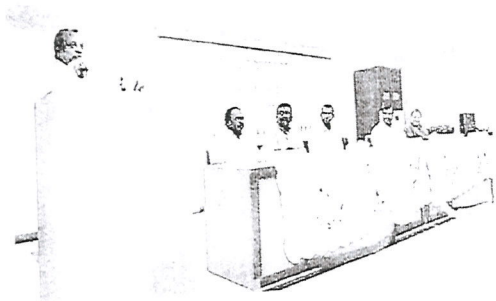
**REGISTRAR**  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

## Report

The department of Electrical & Electronics Engineering, JNTUACIA has organised a FDP program on Power Converters Design during 25<sup>th</sup> to 29<sup>th</sup> Sep 2019 which was sponsored by TEQIP-III in association with Pantech ProEd. Prof. V. Sankar of the department acted as Convener and Sri. M. Ankarao acted as Co-ordinator of the program. The program was inaugurated by Honourable Vice-Chancellor of JNTUA Prof. Srinivas Kumar. The following contents were delivered during 5 days of the program.

- Introduction to Power Electronics
- Simulation of DC - DC Buck & Boost Converters
- Choosing Switches | Capacitors | Diodes
- Design and Fabrication of Inductor
- Introduction to ARDUINO Controller
- Gate Driver Design
- Fabrication of DC - DC Buck & Boost Converter
- Open Closed Loop Design of
  - DC - DC Buck Boost Converter
  - DC-AC Power Conversion
  - AC-DC Power Conversion

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











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





**JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) :: ANANTHAPURAMU**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**One Week FDP on "Power Converters Design"**  
**From 25<sup>th</sup> - 29<sup>th</sup> Sept., 2019**  
**Registration form for Faculty**

Date: 25-09-2019 F.N.

S. No.	Name of the Faculty	Designation, Dept. & College	IEEE Member Yes/No (If Yes provide Membership No.)	Email Id	Mobile No.	Signature
1.	NAGHA KOTAREDDY	Dept. of EEE, VCEIKR JNTU V KOTENAD	No	naga.kotareddy@gmail.com	9177324865	
2.	N. Sagarthy Yadav	Dept. of EEE, VCEK, JNTU V.	No	nammi.sagar822@gmail.com	9491254231	
3.	JOLLU NAGARAJU	Assistant Professor, EEE Sri Venkatesa Perumal College of Engineering & Technology	No	jollunagaraju@gmail.com	8897221657	
4.	J. Sreenivasulu	Assistant Professor EEE JNTU VCEK	92358968	sreenivasulu.eee@jntu.ac.in	9885959798	
5.	M. RATHAIAH	Dept of EEE, JNTU VCEK Ananthapuramu	95658739	ratham355@gmail.com	9493518933	
6.	S. Sivan	Asst. Prof. (Adhoc) Dept. of EEE, JNTU VCEK	95358832	sivan.eee@jntu.ac.in	9491355244	
7.	P.A Raghavakar	Asst. Prof (Ad. Lect) Dept. EEE, JNTU VCEK		Mr. Raghavakar@gmail.com	9703262829	
8.	T. MANOHAR	Asst. Prof (Adhoc) Dept. of EEE, JNTU VCEK	95418081	manoharbragi@gmail.com	9201277421	

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

S. No.	Name of the Faculty	Designation, Dept. & College	IEEE Member Yes/No (If Yes provide Membership No.)	Email Id	Mobile No.	Signature
63	T.H. Kumar	Lecturer in EEE dept S.K. Univesity, ATP	—	hemantkumar219@gmail.com	9642802800	
64	K. Sabitha	Guest Faculty, S.K University, ATP	—	Kandukuri Sabitha@gmail.com	7569372090	

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

**JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) :: ANANTHAPURAMU**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**One Week FDP on "Power Converters Design"**  
**From 25<sup>th</sup> - 29<sup>th</sup> Sept., 2019**  
**Attendance Sheet for Faculty**

Date: 25-09-2019 (F.N.)  
(I-Session)

Sl.No	Name of the Participant	Signature
1.	G. Pavana Jothir	
2.	K. Divya	
3.	C.K. Bharathi	
4.	G. Saahitya	
5.	B. Shravani	
6.	J. Nagaraju	
7.	N. Jagadeesh	
8.	S. Vijaya Kumar	
9.		
10.	N. Sagarika gadav	
11.	Naga Kota Reddy C	
12.	B. HASKAR RAO G	
13.	C. PRASANNA SAI	
14.	J. MANOHAR	
15.	J. H. Kumar	
16.	V. Venkata Lakshmi	
17.	P. B. GURU PRASANNA	
18.	D. Kalyani	
19.	M. Pallavi	
20.	K. Firdose Kousar Shamadia	
21.	P. A. Prabhakara	
22.	P. Bharat Kumar	
23.	N. SWATHI	
24.	S. Anusha	
25.	M. Naga Chaitra	
26.	Y. Manasa	
27.	D. Mahesh Kumar	
28.	G. Suresh	
29.	T. Manohar	
30.	S. Imran Khan	
31.	K. Purushotham	
32.	D. Sri Krishna	
33.	V. Surya Prakash	
34.	V. L. Ajay Kumar	
35.	P. Sheshakali	
36.	P. Nagaraja	
37.	H. Sravan Kumar	
38.	E. Rama Krishna	
39.	B. Vijaya Kumar	
40.	A. SREEDHAR	
41.	B. Hariprakash	
42.	C. Ineesha	
43.	K. Mamatha	
44.	N. Obulsi	

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





PROCEEDINGS OF THE PRINCIPAL, JNTUA COLLEGE OF ENGINEERING  
ANANTHAPURAMU (AUTONOMOUS): JNTUACEA ANANTHAPURAMU  
PRESENT: Prof. K. GOVINDA RAJULU: PRINCIPAL

TEQIP-III

Procs. No. TEQIP-III/NPIU/Academics/1.3-2(iv)/90/2019-20

Date: 16-09-2019.

Sub: JNTUACEA - TEQIP-III - Academics - Permission to Organize Five day Training Programme on "Power Converters Design" at EEE Department, JNTUACEA during 25-29 September, 2019 - Orders - Issued.

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M.Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA submitted a letter requesting the Principal for permission to organize Five day Training Programme on "Power Converters Design" at EEE Department, JNTUACEA during 25-29 September, 2019 and requested to meet the expenditure from TEQIP-III funds.


Title of the Programme	Power Converters Design
Conducted at	EEE Department, JNTUACEA
Dates of Programme	25-09-2019 to 29-09-2019
Coordinator	M.Anka Rao, Asst. Prof., Dept. of EEE

The requisition submitted is approved and the Principal is pleased to accord permission to M.Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA to organize the above said programme on the date(s) noted. The expenditure will be met from TEQIP-III funds under Academics SC 1.3-2(iv) head of account.

It is requested to follow the rules and regulations in incurring the expenditure and requested to submit the vouchers in original as per the guidelines provided by NPIU. And also requested to submit Photographs, certificates as per TEQIP-III norms in Performa provided.

To  
Copy to M.Anka Rao, Asst. Prof., Dept. of EEE  
Copy to Prof. M.L.S. Deva Kumar, Nodal Officer (A) (TEQIP-III)  
Copy to Dr.A.P. Siva Kumar, TEQIP-III Co-ordinator & Nodal Officer (P)  
Copy to Dr.K. Jithendra Gowd, Nodal Officer (F) & TEQIP MIS officer  
Copy to Bills.

  
PRINCIPAL

  
PRINCIPAL  
J.N.T.U A College of Engineering  
(Autonomous)  
ANANTHAPURAMU-515002  
- A.P. INDIA.

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



### About the Host Institution and Department:

**JNTUA College of Engineering** is a prestigious Engineering college in AP, established in 1946 and functioned from College of Engineering, Guindy, Madras during 1946-48. It was shifted to Anantapur in the year 1948, with the formation of first Technological University in our country in 1972 with head quarters in Hyderabad, this college has become one of the constituent colleges of JNTU. Further, from August, 2008, it is the constituent college of Jawaharlal Nehru Technological University, Anantapur by Act. No. 30 of Govt. of A.P. dt. 24.09.2008. This institution is selected as a Network Institution by NPIU for the World Bank aided TEQIP- III from 2017-20.

The Department of Electrical Engineering has been functioning since the inception of the college. The Department is offering UG and four PG courses viz. Electrical Power Systems (1971), Power and Industrial Drives (2002), Control Systems (2002) and Reliability Engineering (2009) which is an interdisciplinary area and is having well equipped laboratories and highly qualified faculty.

### About Training Program:

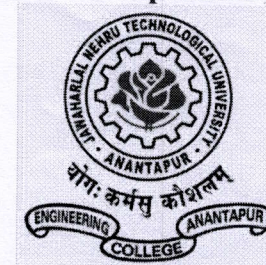
Power Converter Design based comprehensive workshop that introduces the fabrication of inductor, real time implementation of non-isolated converters using Arduino Controller. This workshop familiarizes the participants with current technologies as per industry norms and the industry demands. Converter design, a basic and essential requirement for the Power Electronics Industry, plays a vital role in industry. When-ever we go with Power electronics design, obviously it's has to come with lot of designs like gate driver design, inductor fabrication, signal acquisition and the feedback signal calculations etc., all these topics will be covered in the course.

### Course Content:

The following topics will be covered:

- Introduction to ARDUINO
- Simulation of DC - DC Buck & Boost Converters
- Choosing Switches | Capacitors | Diodes
- Design and Fabrication of Inductor
- Gate Driver Design
- Fabrication of DC - DC Buck & Boost Converter
- Open/Closed Loop Design of
  - DC - DC Buck Boost Converter
  - DC-AC Power Conversion
  - AC-DC Power Conversion

## TEQIP-III Sponsored Training Program on "Power Converters Design" (25<sup>th</sup> – 29<sup>th</sup> September, 2019)



# TEQIP-III

Technical Education Quality Improvement Programme

### Convener

**Dr. V. Sankar**

Professor, Dept. of EEE

### Coordinator

**Sri. M. Anka Rao**

Asst. Professor, Dept. of EEE

### Organized by

Dept. of Electrical Engineering  
JNTUA College of Engineering (Autonomous)  
Ananthapuramu-515002 (A.P), INDIA

In Collaboration with



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



**Resource Persons:**

Experts from Industry and Academics will be the resource persons for the training program.

**Target Participants**

The proposed course is designed and intended for engineers, faculty members of engineering colleges, research scholars working in EEE & Allied branches and PG/UG students.

**General Information**

No Registration Fees for the programme. Participants will not be paid any TA/DA. Accommodation and travelling expenses are to be borne by participants or their respective institutes. However, accommodation can be arranged in hostel/guest house on nominal payment basis subject to the availability. The organizers will provide the meals and refreshment during the course. The registration form complete in all respects should reach on or before Sept. 17, 2019.

**Important Dates:**

Last date of registration:

Sept. 17, 2019

Intimation of acceptance:

Sept. 18, 2019

**Contact Details:**

**Sri. M. Anka Rao**

Asst. Professor,  
Department of EEE  
JNTUA CEA

Mobile +91-9491694858

E-mail :

[vsankar.eec@jntua.ac.in](mailto:vsankar.eec@jntua.ac.in)

Website:

[www.jntuacea.ac.in](http://www.jntuacea.ac.in)

**Chief Patron**

**Prof. S. SRINIVAS KUMAR**

Vice-Chancellor, JNTUA

**Patron**

**Prof. K. GOVINDA RAJULU**

Principal, JNTUA CEA

**Co-Patron**

**Dr. M.L.S. Deva Kumar**

Professor & Vice Principal

**Chairman**

**Dr. R. Kiranmayi**

Professor & Head, Dept. of EEE

**Advisory Committee**

Prof. D. Subba Rao, Rector, JNTUA

Prof. M. Vijaya Kumar, Registrar, JNTUA

Prof. P. Sujatha, Dept. of EEE, JNTUACEA

Dr. A. P. Siva Kumar, Coordinator,

Procurement, TEQIP-III

**Organizing Committee**

Dr. K. Jithendra Gowd, Asst. Professor

Sri. M. Ramasekhara Reddy, Asst. Professor

Sri J. Sreenivasulu, Asst. Professor

Sri. S. Sridhar, Asst. Professor

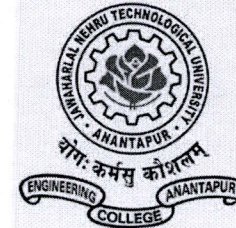
**Venue:**

**Prof. S. Tiruvengalam Memorial**

Seminar Hall, Dept. of EEE,

JNTUA CEA, A.P.- 515002

TEQIP-III Sponsored  
**Training Program on**  
**“Power Converters Design”**  
(25<sup>th</sup> – 29<sup>th</sup> September, 2019)

**REGISTRATION FORM**

Name:

Designation:

Address:

Phone:

Mobile:

E-mail:

Experience: Teaching:

Industry:

Date:

Signature of Applicant

**Sponsor Certificate:**

This is to certify that Mr./ Mrs./ Dr./.....  
..... is  
working/studying in our organization from .....  
He/She is sponsored for the above workshop.

Date:

Authorized signature with Seal

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

**One Week Faculty Development Program on  
“Power Converters Design”**

**25<sup>th</sup> to 29<sup>th</sup> Sep 2019**

The department of Electrical & Electronics Engineering, JNTUACEA has organised a FDP program on Power Converters Design during 25<sup>th</sup> to 29<sup>th</sup> Sep 2019 which was sponsored by TEQIP-III in association with Pantech ProEd. Prof. V. Sankar of the department acted as Convener and Sri. M. Ankarao acted as Co-ordinator of the program. The program was inaugurated by Honourable Vice-Chancellor of JNTUA Prof. Srinivas Kumar. The following contents were delivered during 5 days of the program.

- Introduction to Power Electronics
- Simulation of DC - DC Buck & Boost Converters
- Choosing Switches | Capacitors | Diodes
- Design and Fabrication of Inductor
- Introduction to ARDUINO Controller
- Gate Driver Design
- Fabrication of DC - DC Buck & Boost Converter
- Open/Closed Loop Design of
  - DC - DC Buck Boost Converter
  - DC-AC Power Conversion
  - AC-DC Power Conversion

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



TEOIP - III

C.B. NO. 259/2019-20

Date: 03-12-2019

Head of Account TEOIP-III

Voucher No. 259/2019-20

Date: 03-12-2019

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR  
COLLEGE OF ENGINEERING, ANANTHAPURAMU-515002

FULL VOUCHERED CONTINGENT BILL

Procs. No & date: TEOIP-IV/NRIU/Academic/1-3-2(iv)/10/2019-20 dt. 27-6-2019  
Purpose: Payment for organize five days training programme at  
EEE Department, JNTUACEA during 25-29 September 2019.  
Payable to: M. Anka Rao, Asst. Prof., Dept. of EEE, JNTUACEA.  
Major Head: TEOIP-IV  
Minor Head: 1-3-2(iv)

No. of Sub Vouchers	Particulars	Amount Payable
	Payable to M. Anka Rao Asst. Prof. Dept. of EEE, JNTUACEA.	Rs. 65,780/-

Passed for Rs. 65,780/- (Rupees sixty five thousand seven hundred and eighty only)

Nodal Officer  
Finance

Coordinator

Principal

Amount drawn under endorsed/your goodselves/ Vr No 259/2019-20 dated 03/12/19 for Rs 65,780/-

Date: 03-12-2019

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

Principal

HEAD  
Department of Electrical &  
Electronics Engineering  
JNTU College of Engineering  
ANANTAPUR

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



JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) :: ANANTHAPURAMU  
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

One Week FDP on "Power Converters Design"

from 25<sup>th</sup> - 29<sup>th</sup> Sept., 2019

Registration form for Faculty

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

Date: 25-09-2019

Name of the Faculty	Designation, Dept. & College	IEEE Member Yes/No (If Yes provide Membership No.)	HEAD Department of Electrical & Electronics Engineering JNTUA College of Engineering ANANTAPUR	Mobile No.	Signature
A GIRA KOTA REDDY	Dept. of EEE, ULEERU JNTUK Katlapad	NO		9177324865	<i>[Signature]</i>
U. Sagar teja yadav	Dept. of EEE, UCEER, JNTUK.	No		9491254231	<i>[Signature]</i>
JLLU NAQARATU	Assistant Professor, EEE Sri Venkatesa Perumal College of Engineering & Technology	NO		8891221651	J. Nagar
Sreenivasulu	Assistant Professor EEE JNTUA ACEA	92358968		9885959798	<i>[Signature]</i>
I. Rathaiiah	Dept of EEE, JNTUACCE Ananthapuram	95658739		9493518933	<i>[Signature]</i>
R. Ravi	Asst. Prof. (Adhoc) Dept. of EEE, JNTUACEA	95358832		9491255244	<i>[Signature]</i>
A. Prabhakar	Asst. Prof (Ad-hoc) Dept. EEE, JNTUACEA			9703262829	<i>[Signature]</i>
MAR	Asst. Prof (Adhoc) EEE Dept., JNTUACEA	95418081		9701277421	<i>[Signature]</i>

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







JNTUA COLLEGE OF ENGINEERING ANANTAPUR (AUTONOMOUS),  
ANANTHAPURAMU

**Certificate of Participation**

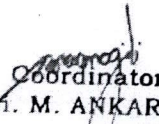
**TEQIP - III**  
Technical Education Quality Improvement Programme





SB Code - 12431

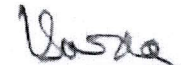


This is to certify that ~~Dr./Mr./Ms.~~.....**S. ANUSHA**.....  
of.....**JNTU COLLEGE OF ENGINEERING, ANANTAPUR**..... has participated in  
One Week Faculty Development Program on "Power Converters Design", organised under  
TEQIP - III, from 25th - 29th September, 2019, at Prof. S. Tiruvengalam Memorial Seminar Hall,  
Department of EEE, JNTUACEA.

  
Coordinator  
(Sr. M. ANKARAO)

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

  
HOD of EEE  
(Prof. R. KIRANMAYI)

  
Chair, IEEE ATPSS  
(Prof. V. SANKAR)

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