



**VEMU INSTITUTE OF TECHNOLOGY**

**P.Kothakota, Chittoor District -517112**

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**Five Day  
FDP on  
“Advanced DSP  
Processors and  
Development Tools”**

**04.09.19 to 08.09.19**

### Chief Patron

Prof.Dr. K.Chandrasekhar Naidu, Chairman

### Patrons

Dr.Naveen Kilari Principal  
Dr.KVNVN RAO, Vice Principal

### Convener

Dr.S.Munirathnam, Prof. & HOD/ECE

### Co-ordinator

Dr.S.Arun, Professor/ECE

### Organizing Committee

Dr. G.Elaiyaraja, Professor  
Dr.S.Muralimohan, Professor  
Dr. A. Pulla Reddy, Associate Professor  
Mrs. C.Geetha, Associate Professor  
Mrs. B. Saroja, Associate Professor  
Mr. R. Mallikarjuna Reddy, Associate Professor  
Mr. Y. Mahesh, Associate Professor  
Mrs. R. Rani, Associate Professor  
Mr. N. Kiran Kumar, Associate Professor  
Mrs. K. Jaya Sree, Associate Professor  
Mr. G. Srihari, Associate Professor  
Mr. P.H. Chandra Mouli, Assistant Professor  
Mrs. S. Chandana, Assistant Professor  
Mrs. M. Bhargavi, Assistant Professor  
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Mr. G. Malakondaiah, Assistant Professor  
Ms. V. Bharathi, Assistant Professor  
Mr. B. Praveen Kumar, Assistant Professor  
Mr.V.Umamaheswara rao, Assistant Professor  
Mr. M.Tulasiram, Assistant Professor  
Mr. M. Arun Kumar, Assistant Professor  
Mr. G. Sivakoteswara Rao, Assistant Professor  
Mrs. D. Reena, Assistant Professor  
Mr. P. Vemaiah, Assistant Professor  
Mrs. P. Sirisha, Assistant Professor  
Mrs. M. J.Chithraja, Assistant Professor  
Mr. K. Guraiah, Assistant Professor  
Mrs. V. Lakshmi Lavanya, Assistant Professor  
Mr. N.Gangadharam, Assistant Professor  
Mr. D. Mohan Reddy, Assistant Professor

### ABOUT PROGRAM

- Main objective of Workshop on Advanced DSP processor and its development tools is to provide hands on experience on Texas DSP processor
- Through the workshop participants gain basic knowledge of Advanced DSP processor
- Hands on experience on DSP processor like TMS 320C6713 and Texas 5515 DSP kits
- Real time applications will be addressed
- Explore hands-on experience by implementing some applications on Texas development kits.
- It will boost their research ability and also enhance their confidence to contribute in seminars / conferences / workshops, as Resource Persons.

### In Association With

**AKDEMIKA LAB SOLUTIONS Pvt.Ltd.**  
Falcon House, Plot No.A-194,  
TTC Ind. Area,  
MIDC, Khairne,  
Navi Mumbai,  
Maharashtra, 400705,  
India

As a part of MOU

**Department of Electronics and  
Communication Engineering,**

is

Organizing a

**Five Day Workshop**

On

“Advanced DSP Processor and its  
Development tools”



**VEMU Institute of Technology,  
P.Kothakota, Near pakala,  
Chittoor District,  
Andhra Pradesh- 517112.**

### ABOUT VEMU IT

VEMU Institute of Technology is one of the well known and finest technical institutions in Chittoor District, A.P. Beginning its quality inputs in 2008, it has attained ISO 2015:9001 certification for quality management within a short span of time. It is located on Tirupati - Chittoor highway on a beautiful 16 acre campus. A diverse, talented community united by a passion for learning and a quest for more, VEMU challenges its students to make a difference on its campus, in the region, and in the companies where ever they join. With unmatched results in every sphere of Education, its commitment to be the best has grown to transform its departments into centres of Excellence.

#### College Vision

- To be a premier institute for professional education producing dynamic and vibrant force of technocrats with competent skills, innovative ideas and leadership qualities to serve the society with ethical and benevolent approach.

#### College Mission

- To create a learning environment with state-of-the-art infrastructure, well equipped laboratories, research facilities and qualified senior faculty to impart high quality technical education.
- To facilitate the learners to foster innovative ideas, inculcate competent research and consultancy skills through Industry-Institute Interaction.
- To develop hard work, honesty, leadership qualities and sense of direction in rural youth by providing value based education.

#### Vision of the Department:

- To become a centre of excellence in the field of Electronics and Communication Engineering and produce graduates with Technical Skills, Research & Consultancy Competencies, Life-long Learning and Professional Ethics to meet the challenges of the Industry and Society.

#### Mission of the Department:

- To enrich Technical Skills of students through Effective Teaching and Learning practices for exchange of Ideas and dissemination of knowledge.
- To enable the students with research and consultancy skill sets through state-of-the art laboratories, industry interaction and training on core & multidisciplinary technologies.
- To develop and instill creative thinking, Life-long learning, leadership qualities, Professional Ethics and social responsibilities among students by providing value based education.

### About Department of ECE

The department offers undergraduate programme in Electronics and Communication Engineering and Post Graduate programme with Specializations in - VLSI Design and Embedded Systems. The Department has highly qualified, experienced and competent faculty members in the areas of Opt Electronics, Digital Image Processing, Applied Electronics, Digital Electronics, Microwave Communication, and VLSI & Embedded Systems. The department maintains several equipped laboratories for basic and advanced Electronics and Communications. The department has a separate Computer Center with Core2 Duo systems equipped with software applications and suites such as MATLAB, XILINX ISE and Multi-Sim packages. The department has a number of facilities with a substantial collection of teaching tools, instruments, equipment and computers for conducting experiments in different domains of Electronics and Communications Engineering. Students are engaged in learning the concepts, theories, technologies in a real-time practical approach. They are encouraged to do extensive research in library, online / internet, industry through technical discussions, symposiums, technical paper submissions, and seminars and so on.

#### Address for Communication:

**Dr.G.ELAYARAJA**

**Coordinator**

Department of ECE,  
Vemu Institute of Technology,

P.Kothakota-517112,

Pakala, Chittoor (Dist),Andhra Pradesh.

Email ID: [hodece@vemu.org](mailto:hodece@vemu.org)

Mobile: 8886661104.

### Eligibility:

This WORKSHOP is open to faculty members of AICTE approved Engineering colleges, Research Scholars working in various fields of Electronics and Communication Engineering, persons from Industry, R & D organizations and PG scholars who have a genuine interest in the field Digital signal processing

#### Registration:

- Registration Fees Rs250/-
- The number of seats for the Workshop is limited to 50 and selection is based on first come first serve basis
- Spot registration is available but participants is requested to register in advance
- The link for workshop is given below  
<https://forms.gle/dgbwOPYur17rfhRj1266>

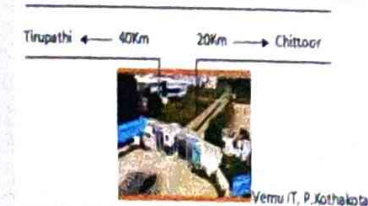
#### Accommodation

- Free boarding and lodging will be provided for outstation participants.

#### Location Map

Vemu Institute of Technology is located midway between Tirupati and Chittoor on the Highway. There are direct trains / buses to Tirupati or Chittoor from important cities like Hyderabad, Bangalore and Chennai. It is 4 hours journey by road from Bangalore, 3 hours from Chennai, 1 hour from Tirupati and 30 minutes from Chittoor.

#### Route Map to Vemu Institute of Technology





**VEMU INSTITUTE OF TECHNOLOGY**  
P.KOTHAKOTA, TIRUPATHI-CHITTOOR ROAD, CHITTOOR, AP-517112  
(Permanently Affiliated to JNTUA Ananthapuramu, Approved by AICTE New Delhi,  
ISO 9001:2015 Certified Institution)

**DEPARTMENT OF E.C.E**

**Five day Workshop on  
"Advanced DSP processors and development tools"**


on

04-08 Sep 2019

DATE & DAY	Morning Session (09.00 AM- 11.00 AM) & (11.15 AM & 01.15 PM)		Afternoon Session (02.00 PM- 04.00 AM)
04/09/2019	Registration/inaugural session	Lunch Break	Introduction to DSP kits
	DSP Course objectives		
05/09/2019	Hands on experience with DSP kits		MOS modeling Hands on experience with DSP kits
06/09/2019	Introduction to Texas DSP processors		Hands on Examples with CCS studio and TMDSDSK6713
07/09/2019	MATLAB SIMULINK Model Based Lab Real Time Examples		MATLAB SIMULINK Model Based Lab Real Time Examples FIR Filter design
08/09/2019	Hands on DSP Experiments/ DSP Applications with MATLAB		Doubt clarification/Feedback/Valudictory

\*Note: For every two hours tea break

  
Co-Convener

  
Convener  
DEPARTMENT OF ECE  
VEMU INSTITUTE OF TECHNOLOGY  
P.KOTHAKOTA, CHITTOOR



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P.KOTHAKOTA, TIRUPATHI-CHITTOOR ROAD, CHITTOOR, AP-517112

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Approved by AICTE New Delhi ISO 9001:2015 Certified Institution)

DEPT OF ELECTRONICS & COMMUNICATION ENGINEERING

Five day workshop on "Advanced DSP processors and development tools" (as a part of MOU)

## Attendance

S.No.	Name of the Participant	04/08/2019		05/08/2019		06/08/2019		07/08/2019		08/08/2019	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1.	Omkar naidu.V, svce,Tirupati.	O	O	O	O	O	O	O	O	O	O
2.	D.JAHNAVI, MTIE, Palamaner	J	J	J	J	J	J	J	J	J	J
3.	V RAMYA SREE, NEC, NELLORE	V	R	R	R	R	R	R	R	R	R
4.	K VIJAYA KUMAR, NEC, Gudur.	K	V	V	V	V	V	V	V	V	V
5.	P.Narayana rao, MTIE, Palamaner	P	N	N	N	N	N	N	N	N	N
6.	J.Tharun Reddy, NEC, Gudur.	J	T	T	T	T	T	T	T	T	T
7.	B.kishore reddy,AITS,Tirupati.	B	K	K	K	K	K	K	K	K	K
8.	A.Dharmateja, AITS,Tirupati.	A	D	D	D	D	D	D	D	D	D
9.	C.RAJESH ,SREC,Tirupati	C	R	R	R	R	R	R	R	R	R
10.	Mrs.R.Rani, VEMU IT.	R	R	R	R	R	R	R	R	R	R
11.	Mr.Y.Mahesh, VEMU IT.	Y	M	M	M	M	M	M	M	M	M
12.	Mr.N.Kiran Kumar,VEMU IT	N	K	K	K	K	K	K	K	K	K
13.	Mr.P.H.Chandra Mouli,VEMU IT.	P	H	H	H	H	H	H	H	H	H
14.	Mr.B.Praveen kumar,VEMU IT.	B	P	P	P	P	P	P	P	P	P
15.	Mr.C.S.Murall Mohan,VEMU IT.	C	S	S	S	S	S	S	S	S	S

G. Rani  
CO-CONVENER

CONVENER  
DEPARTMENT  
VEMU INSTITUTE OF TECHNOLOGY  
P.KOTHAKOTA - 517 112



# VEMU INSTITUTE OF TECHNOLOGY

P Kothakota, Near Pakala, Chittoor-517112

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A Report on

## **“Advanced DSP processors and development tools”**

The five day workshop on “Advanced DSP processors and development tools” was conducted by department of ECE in collaboration with “Akademika lab solutions Pvt.Ltd” on 4th-8<sup>th</sup> Sep 2019.

The Inaugural function of this workshop was held on 04-09-2019, Dr.S.Munirathnam HOD (E.C.E) presided over the function after small introduction of ECE department in VEMUIT. Dr.S.Munirathnam Introduced resource person M.Karthikeyan Technical engineer & K.harshavardhan Technical engineer Akademika lab solutions Pvt.Ltd to the Faculty. Around 30 faculties from surrounding college registered for the workshop.

The main objective of the workshop is to provide hands on experience to the faculty on advanced DSP processors. Resource person started his session by introduction to Akademika lab solutions industry details and the products of Akademika lab solutions. After a small tea break resource person started with one hour introduction to different DSP Processors and its real time applications. After lunch break resource person started afternoon session with a special focus on DSP Kits like 5515 and TMS6713 Processors.

Day-2 started with lab sessions on TMS320C5515 DSP evaluation kit. Afternoon session also lab session with a real time application how to control echo in communication channel through DSP kit 5515.

Resource person started Day-3 with introduction to Texas DSP processor kits and small introduction about cstudio platform. Afternoon session mainly focused on cstudio platform

Day-4 of workshop started with introduction to TMC32C6713 processor kits and hand on experience on DSP processor kits. Afternoon session resource person mainly focused on real time applications with the help of Matlab and cc studio.

Last day of workshop started with design of FIR filter and a filter design on 1D image processing and few more application on DSP processor kits. the workshop came to an end with a brief valedictory session followed by feedback from the participants few faculty from surrounding expressed that they gained much knowledge finally workshop ended with a vote of thanks.

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# VEMU INSTITUTE OF TECHNOLOGY

P Kothakota, Near Pakala, Chittoor-517112



G. S. Jani  
Faculty-In charge

HEAD  
DEPARTMENT OF ECE  
VEMU INSTITUTE OF TECHNOLOGY  
P. KOTHAKOTA - 517 112



# VEMU INSTITUTE OF TECHNOLOGY :: P. KOTHAKOTA

Tirupati - Chittoor Highway, Near Pakala, P. Kotha Kota, Chittoor (Dt.), A.P-517 112.

(Recognized by AICTE New Delhi, Affiliated to JNTUA Anantapuramu, and Certified by ISO 9001-2008)

## CERTIFICATE OF PARTICIPATION

This is to certify that Prof. /Dr. /Mr./Ms./Mrs. P.H. CHANDRA MOULT from  
VEMU IT has participated in Five Day Work Shop on  
“ADVANCED DSP PROCESSORS AND DEVELOPMENT TOOLS” organized by the Department of  
Electronics & Communication Engineering as a part of MOU in association with “AKADEMIKA LAB  
SOLUTIONS, BANGALORE” from 4<sup>th</sup> to 8<sup>th</sup> September, 2019.

Prof. S. MUNI RATHNAM  
H.O.D./E.C.E

  
PRINCIPAL  
VEMU INSTITUTE OF TECHNOLOGY  
P. KOTHAKOTA - 517 112

Dr. NAVEEN KILARI  
PRINCIPAL



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## CERTIFICATE OF PARTICIPATION

This is to certify that Prof. /Dr. /Mr./Ms./Mrs. N. KIRANKUMAR from  
VEMU I T has participated in Five Day Work Shop on  
"ADVANCED DSP PROCESSORS AND DEVELOPMENT TOOLS" organized by the Department of  
Electronics & Communication Engineering as a part of MOU in association with "AKADEMIKA LAB  
SOLUTIONS, BANGALORE" from 4<sup>th</sup> to 8<sup>th</sup> September, 2019.

Prof. S. MUNI RATHNAM  
H.O.D/E.C.E

  
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Dr. NAVEEN KILARI  
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