

**EMOTIONAL AUDIO – VISUAL SIGNAL PROCESSING  
AND AI, MACHINE LEARNING APPLICATIONS****(09<sup>th</sup> – 14<sup>th</sup> December, 2019)****Organized by****E & ICT Academy, National Institute of Technology, Warangal  
at****KL Deemed to be University, Vaddeswaram, A.P.****(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)****Preamble:**

“Electronics & ICT Academy” was set up at NIT Warangal with financial assistance from MeitY, Govt. of India (GoI). The jurisdiction of this academy is Telangana, Andhra Pradesh, Andaman and Nicobar Islands, Goa, Pondicherry and Karnataka states/UTs. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, Curriculum development for Industry, Training & Consultancy services for Industry; CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

As part of this initiative, a Faculty Development Programme (FDP) on “Emotional Audio – Visual Signal Processing and AI, Machine Learning Applications” is being conducted at KL Deemed to be University for the Faculty members of engineering colleges, industries and research laboratories.

Machine Learning Usually plays an important role in the transition from data storage to decision systems based on large databases signals such as the obtained from sensor networks, internet services, or communication systems. Emotion recognition is the part of speech recognition which is gaining more popularity and need for it increases enormously. The aim of the workshop is to contribute to the cross fertilization between the research on Machine Learning methods, Speech recognition methods and their applications to Signal Processing.

**Major Course Contents:**

- **Introduction to Machine Learning and Types of Learning algorithms**
- **Python Fundamentals**
- **Introduction to Image and Speech Processing**
- **Signal Processing and its Applications**
- **Machine Learning for Speech Processing**
- **emotion recognition using facial expressions**
- **Recognizing Human Emotional State from Audio-Visual Signals**

**Hands on session on the above topics will be provided.**

**Faculty Conducting this Programme:**

The programme will be conducted by the faculty members from NIT Warangal. Academicians from IITs/NITs/IIITs in concerned field are invited to deliver lectures in the programme. Speakers from industries are also expecting to deliver lectures.

**Eligibility:**

The programme is open to the faculty of engineering colleges and other allied disciplines in India. Industry personnel working in the concerned/allied discipline can also attend.

**Organized at:**

The programme will be coordinated and conducted by ECE department in Association with Academic Staff College, KL Deemed to be University Vaddeswaram, A.P.

**Accommodation:**

No TA/DA will be paid to the participants. Accommodation is arranged for outstation participants on PAYMENT Basis. Working Lunch, Tea & Snacks would be provided during the training at KLU campus.

**Venue: Sunflower Hall, C-Block, KL Deemed to be University, Vaddeswaram, A.P**

**Registration Fee Particulars:**

- **Faculty/Research Scholars** : Rs. 2,500/- Only
- **Industry participants** : Rs. 7,500/- Only

Participants need to pay the Registration fee either in the form of Demand Draft (DD) or Online Transfer using the following details

DD Details	Online Transfer Details
Demand Draft in favor of “Electronics & ICT Academy NITW, NIT Warangal” payable at any bank in Warangal	Account Name: Electronics & ICT Academy NITW Account No.: 62423775910 Name : State Bank of India Branch: REC Warangal IFSC: SBIN0020149

**How to Apply:**

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with DD/Online Transfer Receipt) should reach the coordinator by speed post. It is also mandatory to send scanned application form & DD/ Online Transfer receipt through email to the coordinator mail ID [venkatanaravana.v86@kluniversity.in](mailto:venkatanaravana.v86@kluniversity.in) as selection will be intimated only through mail.

**Selection Criteria:**

Selection will be done based on *first-cum-first-serve basis* and the confirmed candidates will be notified immediately. The maximum number of participants will be **50 (fifty)**. Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be sent to their personal *e-mail* ids. In case a candidate is not selected, the demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued satisfactory certificate on successful completion of the course. Reservations are followed for selecting candidates as per **GOI** norms.

**Important Dates:**

Last date for submission of application : **02<sup>nd</sup> December, 2019**

Selection-list intimation/display before : **04<sup>th</sup> December, 2019**

Duration of Program : **09<sup>th</sup> to 14<sup>th</sup> Dec, 2019**

**About NIT Warangal:**

National Institute of Technology (formerly Regional Engineering College), Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institution imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech & Ph.D programs in various specializations.

**About KL Deemed to be University:**

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 and started K L College of Engineering in the Academic year 1980-81 and has attained autonomous status in the year 2006 and in February 2009, the Koneru Lakshmaiah Education Foundation Society was recognized as Deemed to be University and also the first to be accredited with NAAC A++. It offers 23 UG programs, 26 PG programs, 28 integrated degree programs and dual degree programs. In addition to the research program in 14 disciplines, KLU has the credit of housing world class Centers of Excellence to boost research in emerging areas.



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(09<sup>th</sup> – 14<sup>th</sup> December, 2019)

Organized by

**E & ICT Academy, National Institute of Technology, Warangal**  
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(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)



## APPLICATION FORM

- Name of the Applicant:
- Designation :
- E-mail ID :
- Category  
 Faculty/Scholars (Rs. 2,500/-)     DD /Online Transfer Receipt No: \_\_\_\_\_  
 Industry Participants (Rs. 7,500/-) Bank: \_\_\_\_\_ Date : \_\_\_\_\_
- Institution :
- Mobile No. :
- Payment Mode
- Address for Correspondence:
- Subjects taught so far:
- Educational Qualifications with specialization:
- No .of refresher courses/workshops attended:
- Experience (in years) :  Teaching  Research  Industry
- Do you require accommodation during Training : YES/NO
- Do you belong to SC  ST

### Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Place :

Date :

Signature of the Applicant

### SPONSORSHIP CERTIFICATE

Dr./Mr./Ms.....is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “**Emotional Audio – Visual Signal Processing and AI, Machine Learning Applications**” sponsored by **Electronics & ICT Academy** during 09<sup>th</sup> to 14<sup>th</sup> December, 2019 at KL Deemed to be University Vaddeswaram, A.P.

Place :

Date :

Signature of Principal/Head of Institution

### **Address for correspondence**

**Post your application form along with DD/NEFT Receipt to**

**Mr. V. Venkata Narayana**

**Assistant Professor,**

**Dept. of ECE and ASC**

**KL Deemed to be University, Vaddeswaram,  
A.P-522502.**

**Email:**

[venkatanarayana.v86@kluniversity.in](mailto:venkatanarayana.v86@kluniversity.in)

**Mobile: 9908689295**

### **Coordinators:**

**Dr. J. Ravi Kumar**

Assoc. Professor,

Dept. of ECE,

NIT Warangal

Telangana

**Mr.V.Venkata Narayana**

Assistant Professor,

Dept. of ECE, KLU,

Vaddeswaram, A.P

For more details about Electronics and ICT academy please visit: <http://www.nitw.ac.in/eict/>