



**FACULTY DEVELOPMENT PROGRAMME on  
DEEP LEARNING: FOUNDATIONS & APPLICATIONS**

**June 21 - 30, 2021**

**Organized by**

**VELLORE INSTITUTE OF TECHNOLOGY CHENNAI CAMPUS**

Vandalur Kelambakkam Road, Chennai - 600127

**in association with**

**E & ICT Academy, NIT Warangal**

**(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)**



**VIT**  
Vellore Institute of Technology  
Established in 1984

**Preamble:**

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. The role of the academy is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

This Faculty Development Programme (FDP) is devoted to address the need to enhance the knowledge about the latest technologies pertaining to **Deep Learning: Foundations & Applications** is being conducted at **Vellore Institute of Technology Chennai Campus**. The course is handled by academicians and industry experts.

**Major Course Contents:**

- Introduction to machine learning, Types of Learning algorithms
- Challenges with ML algorithms
- Introduction to Neural Networks & Different Architectures
- Why Neural Networks for Deep Learning
- Challenges in training Deep Neural Networks
- Convolutional Neural Networks & its variants
- CNN applications in Computer Vision & Medical Diagnosis
- RCNN & its variants for Object Detection
- Auto encoders and its variants for Dimensionality reduction & Representation learning
- Recurrent Neural Networks and its variants for Sequence classification and Sequence to Sequence learning
- GANs for generating data and Image-to-Image Translation & Text-to-Image Translation
- Attentional Networks and its applications in NLP

**Faculty conducting this programme:**

The programme will be conducted by the faculty members from VIT Chennai. Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the programme.

**Eligibility:**

The programme is open to the Faculty of Engineering Colleges, MCA Colleges and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend.

**Registration Fee Particulars:**

<b>Faculty and Research Scholars</b>	<b>Rs.750/-</b>
<b>Industry Participants</b>	<b>Rs.2250/-</b>

Participants need to pay the Registration Fee online using the following details

**Online Transfer Details**

**Account Name: Electronics & ICT Academy NITW**

**Account No: 62423775910**

**IFSC: SBIN0020149**

**How to apply:**

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/ZhgpCZo1Jgex8CKUA>

**Selection Criteria:**

Selection will be done based on first-come-first-serve basis to a maximum number of 60 (sixty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

**Important Dates:**

Last date for submission of Applications	<b>June 17, 2021</b>
Selection List by E- mail	<b>June 18, 2021</b>
Duration	<b>June 21 - 30, 2021</b>

**About NIT Warangal:**

National Institute of Technology, 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 Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

**About VIT Chennai:**

VIT for the past 35 years has made a mark in the field of higher education in India imparting quality education in a multi-cultural ambience, with extensive application-oriented research. VIT was established with the aim to provide quality higher education on par with International Standards.

It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. VIT was established by well-known educationalist and former parliamentarian, Dr. G. Viswanathan, Founder and Chancellor, a visionary who transformed VIT into a center of excellence in higher technical education. Govt. of India recognized VIT as an Institution of Eminence (IoE). ARIIA, Govt. of India recognized VIT as No. 1 Private University for Innovation. MHRD, Govt of India ranked VIT as No.18 among the Engineering Institutions (NIRF-2019 ranking).



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**SPONSORSHIP CERTIFICATE**

1. Name :

2. Designation :

3. Institution :

4. Email :

5. Reference No: Bank: Date:

Amount:

6. Address for Correspondence:

7. Educational Qualification:

8. Subjects taught so far:

9. No. of refresher courses/workshops attended:

10. Experience (in years):

Teaching: Research: Industry:

11. Do you belong to SC/ST : YES / NO

**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.

Dr. /Mr. /Ms. ....  
is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “**Deep Learning : Foundations & Applications**”, sponsored by Electronics & ICT Academy during June 21 - 30, 2021 at VIT Chennai.

Signature of Head of Institution  
(with seal)

Interested faculty members, please fill the following  
Google form:  
<https://forms.gle/ZhgpCZo1Jgex8CKUA>

**Address for correspondence**  
*Post your application form*

**Dr. R. Jagadeesh Kannan**  
**Professor and Dean**  
**School of Computer Science & Engineering**  
**Vellore Institute of Technology Chennai Campus**  
**Vandalur Kelambakkam Road**  
**Chennai – 600 127. Tamilnadu, India**

*For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>*

*For more enquiries please contact:*

**Dr. G. Bharadwaja Kumar**  
**Mobile: +91 9092959969**

Signature of the Applicant

**Coordinators**

**Dr. R. Jagadeesh Kannan & Dr. G. Bharadwaja Kumar**  
**School of Computer Science & Engineering**  
**Vellore Institute of Technology Chennai Campus**  
**Vandalur Kelambakkam Road, Chennai - 600127**  
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