

AICTE Sponsored

One Week Online

Short Term Training Programme (STTP)

on

“Deep Learning Based Analysis of Images and Videos using Python”

23rd - 28th November 2020 (Slot-II)

Eligibility

This STTP is open to all faculty members of Engineering colleges and Research scholars of AICTE approved Institutions.

Registration link: (Click below to Register)

<https://forms.gle/jFv8Qt29ENnuE9D16>

Registration Fee: **FREE**

Online meeting link will be provided through Whatsapp or Registered E-Mail.

The number of Participants will be limited to 100 on First Come First Serve Basis

Note: E-Certificate will be provided to the participants who attend all the sessions of the program and appear for the online test as per the norms of AICTE.

Last date for Registration: 21st November 2020

The selected participants will be intimated through E-Mail.

Address for Communication:

Ms. S. Deepa

Assistant Professor / CSE,

KIT-Kalaignarkaranidhi Institute of Technology,
Coimbatore, Tamilnadu-641402.

Mail id: kiticseaicsttp2020@gmail.com

Mobile. No: +91 93618 32125, +91 87547 49167.

Organizing Committee

Chief Patrons

Thiru. Pongalur N. Palanisamy

Founder Chairman

Mrs. Indu Murugesan

Vice Chairperson

Mr. A. Suriya

Executive Trustee

Patrons

Dr. N. Mohandas Gandhi

Principal

Dr. M. Ramesh

Vice Principal

Convenor

Dr. S. Raja Mohamed

HOD/ CSE

Coordinator

Dr. C. Deepa

Associate Professor/ CSE,

KIT-Kalaignarkaranidhi Institute of Technology,
Coimbatore, Tamilnadu-641402

Mail id: deepacbe2006@gmail.com

Mobile No.: +91 8072781605

Co-Coordiators

Dr. R. Adaline Suji

Associate Professor / CSE, KIT

Ms. S. Deepa

Assistant Professor / CSE, KIT



AICTE Sponsored

One Week Online

Short Term Training Programme (STTP)

on

“Deep Learning Based Analysis of Images and Videos using Python”

23rd - 28th November 2020

Slot II

Coordinator

Dr. C. Deepa

Associate Professor / CSE

Co-Coordiators

Dr. R. Adaline Suji, Associate Professor / CSE

Ms. S. Deepa, Assistant Professor / CSE

Organized by



Department of Computer Science & Engineering

KIT-Kalaignarkaranidhi Institute of Technology

(An Autonomous Institution- NBA & NAAC Accredited)

Kannampalayam Post, Coimbatore, Tamilnadu-641402.



www.kitcbe.com



0422-2367890, 2579222

About the College:

KIT-Kalaigarkarananidhi Institute of Technology, one of the best Engineering Colleges in Coimbatore, is located at a distance of 12 kilometers from Coimbatore Railway Station and 8 kilometers from Coimbatore Civil Aerodrome. Set in a calm and congenial locale, the college stands nestled in a spacious campus set in a vast area of 5 lakhs sq.ft with five storied building classrooms, laboratories, library, faculty rooms, seminar halls, administrative and residential areas. KIT is currently offering 8 UG and 7 PG programs in Engineering & Technology. The Institute has been approved by All India Council for Technical Education (AICTE), New Delhi, accredited by NBA & NAAC with 'A' Grade and it is affiliated to Anna University, Chennai.

About the Department:

The department of Computer Science and Engineering was established in the year 2008, with its dedicated body of well qualified faculty and technical staff. It aims to become a prominent centre of excellence for producing competent software professionals and also provide software enabled solutions. The Department has a thriving research environment engaging in cutting edge research with sponsored projects and consultancies. The programme facilitates the students to become knowledge-driven professions by providing a learning environment strongly focused on curriculum & specifically designed to reflect the depth and breadth of Computer Science. The department offers four-year UG programme in B.E. Computer Science and Engineering and PG programme in M.E. Computer Science and Engineering.

About STTP:




Deep Learning is a subset of machine learning that produces autonomous data and information processing using computer algorithms. Computers that inhibit the functions of machine learning will freely change and improve algorithms. Current research focuses on designing computer programs that adapt to new data when exposed. Deep learning methods are used for sentiment analysis to address the problem, because these models have the ability to learn the action or polarity of the picture effectively. The rapid growth of videos as a means of sharing information boosts the need to embrace many more languages. The growing number of ways people share content & make text extraction from images and videos leads to an exciting challenge to push the boundaries of computer vision on research and applications.

Note:

The STTP is planned in three slots. However, they are independent. The dates for the other two STTPs will be informed later.

Objectives of STTPs:

The program focuses on

-  Promoting the international exchange of ideas and scientific knowledge with no barriers whatsoever in the field of study or technical applications.
-  Helping the faculty to learn the deep learning concepts and understand how to develop deep neural networks to solve image and video analysis problems. In Python software like Tensor Flow, Keras, PyTorch, helps the learners to practice the concepts.
-  Generating access to unique competence that will be highly valuable for education and research.

Course Contents:

-  Artificial Intelligence Vs Machine Learning Vs Deep Learning
-  Deep Learning and Computer Vision
-  Python Packages for Deep Learning Such as Keras, PyTorch
-  Artificial Neural Network (ANN) & Its Types
-  Convolutional Neural Network (CNN)
-  Recurrent Neural Network (RNN)
 -  Google Colab
-  Unsupervised Pre-trained Network
-  Data Processing with Python
-  Image Processing
 -  Image Classification
 -  Object Detection
 -  Object Segmentation
 -  Image Reconstruction.
-  Audio Processing
 -  Feature Extraction
 -  Content Summarization
-  Video Processing
 -  Object Detection

Resource Persons:

The eminent resource persons from IITs, NITs, reputed Institutions and leading Industries