

ABOUT THE INSTITUTION

Nestled at the foothills of the Western Ghats, located in a sprawling 52-acre campus in Kovaipudur, Coimbatore, Sri Krishna College of Technology (SKCT) is a vibrant institute of higher education promoted by Sri Krishna Institutions in 1985. An extraordinary freedom of opportunity - to explore, to collaborate and to challenge oneself is the hallmark of the Institute which is solely attributed to Late Sri S Vankatram, who shaped this citadel of learning during its formative period. Being an autonomous institute, affiliated to Anna University, Chennai, and approved by AICTE, New Delhi, SKCT lays strong emphasis on collaborative research and stands apart from other institutes by its participatory work culture, student care programmes and high industry interaction. In a span of 34 years, it has emerged as one of the premier Engineering Colleges for learning, discovery, innovation, expression and discourse due to the dynamic leadership of the Chairperson and Managing Trustee Smt S Malarvizhi. Being an acclaimed educationalist, she continues to contribute profusely for the glory and happiness of advancing generations. The college is accredited with A Grade by NAAC and eligible undergraduate programs are accredited by the National Board of Accreditation (NBA), New Delhi. The college offers 7 undergraduate programmes and 6 postgraduate programmes in Engineering Technology and Management Studies.

CHIEF PATRON

Smt. S. Malarvizhi

Chairperson & Managing Trustee,
Sri Krishna Institutions, Coimbatore.

PATRON

Dr.K.Sundararaman,

Chief Executive Officer,
Sri Krishna Institutions, Coimbatore.

CONVENERS

Dr. Srinivasan Alavandar, M.E, Ph.D

Principal,
Sri Krishna College of Technology,
Coimbatore

Dr. P. Tamije Selvy, M.Tech, Ph.D.

Professor and Head I/C
Department of Computer Science and Engineering
Sri Krishna College of Technology, Coimbatore

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AICTE

SPONSORED

TWO WEEKS ONLINE

FACULTY DEVELOPMENT PROGRAMME

ON

DEEP LEARNING IN IMAGE AND COMPUTER VISION APPLICATIONS

28.10.2020 to 10.11.2020

Organised by

DEPARTMENT OF

COMPUTER SCIENCE AND ENGINEERING



SRI KRISHNA COLLEGE OF TECHNOLOGY

An Autonomous Institution
Affiliated to Anna University, Chennai
Kovaipudur, Coimbatore - 641 042
Tamil Nadu, India

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in 1998. The goal of the department is to offer world-class learning and research environment to the students with high ethical values with a view to grooming them as highly competent Engineers for the society. Dr. P. Tamije Selvy, Head I/C with rich academic & administrative experience, leads the department along with a team of highly qualified and industry-trained faculty. The students widen their intellectual horizons through effective career guidance and support to become entrepreneurs or be recruited by globally reputed companies.

VISION

The Department of CSE fosters a conducive ambiance to meet the global standards by equipping the students with modern techniques in the area of Computer Science and relevant research to address societal needs.

MISSION

1. To provide a quality academic environment that would help the students to acquire knowledge in Computer Science concepts.
2. To motivate faculty to keep abreast of the emerging technologies and to disseminate knowledge at different levels.
3. To produce competent graduates who can develop algorithms and systems to the target groups.

ABOUT FDP

Deep learning has added a significant boost to the already rapidly developing field of computer vision. A lot of new applications of computer vision techniques are applied with deep learning and are now becoming part of our daily lives. These include face recognition and indexing, photo stylization or machine vision in self-driving cars.

The aim of this FDP is to introduce participants to computer vision, starting from basics and then moving to more modern deep learning models. It would throw light mainly on image recognition and verification, various object detection and segmentation techniques, human action recognition, deep generative models for vision applications, Regularization techniques, case studies, recent trends in computer vision. It also includes hands-on sessions for a better learning experience of participants.

Topics to be Covered

- ❖ Introduction to Image and Computer Vision
- ❖ Deep Neural Networks and Convolutional Neural Networks (CNN)
- ❖ CNN Architectures, Applications
- ❖ Pre-trained Models, Transfer Learning
- ❖ CNNs for Recognition and Verification
- ❖ Object Detection and Segmentation
- ❖ RNNs, LSTM Networks
- ❖ Attention Models in Vision
- ❖ Deep Generative Models, GANs
- ❖ Activity Recognition with Deep Learning
- ❖ Big Image Data Processing with Deep Learning Techniques
- ❖ Regularization Techniques
- ❖ Deep Learning for Cyber Security
- ❖ Recent Trends: Deep Learning in Vision
- ❖ Research Directions in Deep Learning
- ❖ Hands-on tour to Deep Learning

RESOURCE PERSONS

Eminent speakers from IITs, NITs, Reputed institutions and Industries will handle the sessions.

REGISTRATION DETAILS

- **No Registration Fee**
- Registration is open to the faculty members of the AICTE approved Institutions & Universities, Research scholars, PG Students, participants from Government, Industry and Engineers from R&D Labs.
- Number of participants is limited to 100.
- Eligible participants will be selected based on **First Come First Serve (FCFS)** basis and selected participants will be intimated via **E-mail**.

REGISTRATION LINK

<https://forms.gle/PCkgwphduC4xDuqk6>

IMPORTANT DATES

- Last date for receiving applications - **23.10.2020**
- Intimation of selection through E-mail - **26.10.2020**

E- Certificate: On the last day of the program an assessment test (objective type) will be conducted for all participants. Those who have an attendance of **minimum 80% and score more than 60% in the test will be issued an E-Certificate.**