

## ABOUT THE INSTITUTE

Sri Krishna college of Engineering and Technology is the most sought after institution among the premier technical Institutions in South India. With a decade of establishment in 1998, the Institution has marched toward the pinnacle of glory through its remarkable achievements in the field of Engineering Education. It is an autonomous Institution, accredited by NBA and NAAC for its academic excellence. It offers 9 UG programmes, 9 PG programmes, 1 integrated programme and 6 research programs. The Institution offers an exciting academic environment with well qualified 354 dedicated faculty members to inspire and nurture the student fraternity. With industry drafted Choice Based Credit System (CBCS) curriculum and syllabi, the Institution takes every effort to bring its students to the forefront of the society as skillful and responsible engineers.

## ABOUT THE DEPARTMENT

The Department of Computer Science & Engineering has been in an exuberant existence since the inception of the Institution to instill curiosity blended with love for acquiring global language to help the learner in transcending any impediments by widening the scope and accessibility of educational opportunities. Our Recognized Research centre maintains high and sustained level of technical vitality with supervisors. The department is involved in wide range of research which highlights the picturesque ideas in the field of CSE.

## COURSE FEE

There is no registration fee.

On completion of the Program on all the days, participants will be awarded certificate of participation by respective ATAL academy.

Numbers of participants are limited to 200.

Application in the prescribed format duly signed by the Head of the Institution should reach the Coordinator on or before **02<sup>nd</sup> July 2021** by post or email (scanned copy).

## IMPORTANT DATES

Last date of Registration: **02<sup>nd</sup> July 2021**

Date of intimation: **06<sup>th</sup> July 2021**

## COORDINATORS

Dr.S.Venkata Lakshmi

Professor/CSE

Dr.P.Kavitha Rani

Professor/CSE

## MAILING ADDRESS

Coordinator-DLVC

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Department,

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**Faculty Development Program  
under**

**AICTE Training and Learning  
(ATAL) Academies Programme**

on

**DEEP LEARNING  
FOR  
VISUAL COMPUTING**

**12<sup>th</sup>– 16<sup>th</sup> July, 2021**

**Organized by**



**Department of Computer Science and  
Engineering**

**Sri Krishna College of Engineering  
and Technology  
Coimbatore-641008  
(TAMIL NADU)**

**Convenor  
Dr. J. Janet  
Professor/CSE**

## About the FDP

Due to the rapid developments in the field of deep learning for visual computing this FDP is planned to provide the basics of deep learning. Deep Learning-driven solutions make it possible to uncover quantifiable data and trends from video metadata, to derive actionable insights for business intelligence in addition to data-driven safety, security, and operational decision making.

Deep learning refers to machine synthesis of hierarchical logic and learning of the representative features and kernels all by itself. This FDP would provide insights to theory and coding practice of deep learning for visual computing through curated exercises on current developments. This FDP also aids identify learning algorithms which are more appropriate for various types of learning aspects. This FDP also provides various Neural Network architectures such as Convolutional Neural Network, Recurrent Neural Network etc.

## CONTENT OF PROGRAMME

- Overview of Deep Learning Framework
- Perceptron, Multilayer network
- Back propagation
- Visual Computing and Deep Neural Networks
- Advanced architecture, i.e., GAN, Transfer learning techniques, one-shot learning, etc
- Impact of Deep Learning in this world of AI
- Optimization for Deep Learning
- Data Driven Techniques in Visual Computing
- Deep architectures for forensic and security-related applications
- Convolution Neural Networks (CNN) and LeNet
- Generative Models with Adversarial Learning.
- Hands on session using python

## RESOURCE PERSONS

The eminent speakers from reputed Institutes and professionals from Industries.

## ELIGIBILITY

Faculty members of AICTE approved Institutions/ Host Institutions, Research Scholars and PG students are eligible to attend the course.

## Registration Form

Faculty Development Program  
under  
AICTE Training and Learning (ATAL)  
Academies Programme  
On

## **DEEP LEARNING FOR VISUAL COMPUTING**

12<sup>th</sup> – 16<sup>th</sup> July ,2021

Name :  
Gender :  
Designation :  
Institution :  
Address for :  
correspondence :  
Phone :  
Email :  
Qualification :  
Date :

Signature of Applicant

The applicant is sponsored for the workshop and he/she is permitted to attend the same.

Signature of Head of the Institute with seal



Sri Krishna College of Engineering and Technology,  
Coimbatore



ATAL FDP on “Deep Learning for Visual Computing”  
From 12/07/2021 to 16/07/2021

Programme Schedule

Dates	10:00 AM to 11:30 AM	11:30 AM to 12.00 PM	12.00 PM to 1.30 PM	1.30 PM to 2:30 PM	2:30 PM to 4.00 PM
12/07/2021	Registration and Inauguration	Tea Break	<b>Session 1</b> Overview of Deep Learning Framework	Lunch Break	<b>Session 2</b> Perceptron, Multilayer network
13/07/2021	<b>Session 3</b> Back propagation		<b>Session 4</b> Visual Computing and Deep Neural Networks		<b>Session 5</b> Hands on session using Python Language
14/07/2021	<b>Session 6</b> Advanced architecture, i.e., GAN, Transfer learning techniques, one-shot learning, etc		<b>Session 7</b> Impact of Deep Learning in this world of AI		<b>Session 8</b> Emotional and stress management (Fit India Movement)
15/07/2021	<b>Session 9</b> Optimization for Deep Learning		<b>Session 10</b> Data Driven Techniques in Visual Computing		<b>Session 11</b> Hands on session using Python
16/07/2021	<b>Session 12</b> Deep architectures for forensic and security-related applications		<b>Session 13</b> Convolution Neural Networks (CNN) and LeNet		<b>Session 14</b> Generative Models with Adversarial Learning./Valedictory