

AICTE Sponsored QIP Short Term Course on
Recent Trends and Applications in Artificial Intelligence

Organized by

**Department of Computer
Science and Engineering,
Indian Institute of Information
Technology, Design and
Manufacturing (IIITDM),
Kancheepuram.**

Chennai - 600 127

www.cse.iiitdm.ac.in

Between

14th – 19th March 2022

Coordinators

Dr. Ram Prasad Padhy

Dr. Rahul Raman



ABOUT THE INSTITUTE

IIITDM Kancheepuram is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Education, Government of India to pursue design and manufacturing oriented engineering education with research leading to promote the competitive advantage of Indian products in global markets. It is an institute of national importance fully funded by the Govt. of India.

ABOUT THE DEPARTMENT

IIITDM Kancheepuram's Computer Science and Engineering curriculum is modelled on the ACM recommendations and is the first of its kind engineering program offered in India. This program is aimed at producing engineers equipped with skills required for efficient hardware-software interaction. In addition to courses offered by the conventional Computer Science curriculum, this novel program offers core courses such as Embedded Systems, Human-Computer Interaction, Simulation and Modelling, Signals and Systems, Product Design etc. The Department offers programmes such as B.Tech (CSE, CSE-AI both), Dual Degree programmes, M.tech in AI and Ph.D in various research areas. There are 10 faculty members who are actively involved in different research areas such as, Artificial Intelligence, Machine Learning, Image processing, Computer Vision, High Performance Computing, Theoretical Computer Science, IoT, Cyber Security etc.

IMPORTANT DATES

Last date for applications : 05-03-2022

Intimation of selection : 07-03-2022

Confirmation of participation : 10-03-2022

For further details, please contact:

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APPLICATION FORM

**Please fill the Google form using
the link below**



[Click the form icon or scan QR code](#)

Eligible teachers are requested to submit the filled in application (Google form) along with the sponsorship certificate in the format given below on or before 05-03-2022.

ABOUT THE COURSE:

INTRODUCTION

The proposed course aims to deliver the topics related to the recent trends and applications in Artificial Intelligence (AI) in various fields. In recent years, AI has grown in stature in every domain, be it academics, research, robotics, software industry, or manufacturing. AI has the capability to learn by itself without an algorithm which tells it to do so. AI and data science based jobs have increased dramatically over the years, and job seekers want to get a hold of this technology. Particularly, Machine Learning (ML) and Deep Learning (DL) which are subsets of AI have gained more prominence. This proposed event will aim to cover all the areas related to AI, such as computer vision, natural language processing, autonomous systems, image analysis, signal processing, AI in cyber security, ethics and social implications of AI, recent trends in AI, explainable AI, etc.

COURSE OBJECTIVES

The objective of this event is to educate the applicants on various domains of research related to AI and its recent trends and applications. Most of the topics in this course will cover applications related to ML and DL in particular. The course will also include programming sessions using python and Pytorch/TensorFlow as the AI tools.

COURSE OVERVIEW

- Fundamentals of AI, ML, DL
- Intro to Neural Networks, CNN, RNN, LSTMs, Autoencoders etc.
- Generative Adversarial Networks (GAN) and Attention based models
- Hands-on with python programming and tools to program AI/ML/DL applications
- Recent trends and applications in AI, such as Computer Vision, NLP, Robotics, Explainable AI
- Research applications of AI in various domains

COURSE DURATION

The course is of one week duration from 14th to 19th March 2022.

RESOURCE FACULTY

The resource faculty includes experts from both academic and industry.

ELIGIBILITY

Engineering college teachers from AICTE approved colleges are eligible to apply for the course.

REGISTRATION FEE

There is no course fee for the participants.

MODE

The course will be online, and the attendance during all the sessions is compulsory. The course link will be sent to the shortlisted candidates (maximum of 100) by 12th March 2022.

SPONSORSHIP CERTIFICATE FORMAT

Certified that Dr./Sri./Smt. is a faculty of our Institute and is being sponsored hereby for attending the QIP short term course on “Recent Trends and Applications in Artificial Intelligence” to be conducted by the Department of Computer Science and Engineering, IIITDM Kancheepuram in online mode from 14th to 19th March, 2022.

Signature of Sponsoring Authority

(With date and seal)