



QIP (AICTE) SPONSORED

Short-Term Course

on

Computer Vision - the Artificial Intelligence for an Eye

February 21 – 26, 2022



Organized By

**Pattern Analysis & Machine Intelligence Lab
Department of Computer Science & Engineering
Indian Institute of Technology Indore
Indore 453552, India**

Overview of the course:

This short-term course will mainly focus on discussing the advanced topics of Computer Vision which is a subset of mainstream artificial intelligence that deals with the technology of enabling computers or machines in general to see; and analyze and interpret what they see.

How will this short- term course benefit participants?

Computer Vision is a subset of mainstream artificial intelligence. Due to huge applications of artificial intelligence in solving day to day life problems, it has gained tremendous importance in developing technologies where computer needs to see the surroundings and take decisions accordingly. The computer vision combines theory and technology for building of artificial systems for image interpretation or multi-dimensional data. This course will enable participants to learn basics as well as advanced topics necessary for developing vision based artificial systems.

Intended participants:

The teachers of the AICTE approved engineering colleges are eligible to attend this course under this scheme without paying any fee. Faculty members from the streams such as Computer Science, Information Technology and Electrical / Electronics & Communication Engineering and other related streams can apply under this program. Participants other than teachers of AICTE approved colleges (students and participants from industry etc.) can also attend the course by paying a fee.

Selection procedure:

Seats are limited and will be filled based on the matching research interests of the applicants on First-Cum-First-Serve basis. Fee paid will be refunded in case a candidate is not shortlisted for the course.

How to apply?

Application form can be submitted by filling the online form. To apply for the course, [click here](https://forms.gle/kRTRT52uiRvvyMbG7). Alternatively, copy the link <https://forms.gle/kRTRT52uiRvvyMbG7> and paste it on your browser window to open the registration page.

Last date: February 18, 2022 (Friday)

Tentative topics to be covered in the course:

The course will cover traditional as well as neural networks and deep learning based methods for computer vision. Application areas such as Image Classification, Object Detection and Recognition, Biometric Recognition etc. will be discussed. The course will cover deep learning architectures such as CNN, R-CNN etc. Tutorial sessions will include programming using Python and Matlab.

Tentative schedule:

The course comprises of lecture and tutorial sessions where each day will have three sessions of one and half hour duration each. Session-1 will be from 10:30AM-12:00PM, Session-2 will be from 12:00PM-13:30PM, and Session-3 will run from 15:00PM-16:30PM. The last day will have a test and a feedback session.

Course fee:

- Faculty Members from AICTE Approved Institutes: **No fee**
- Faculty Members/Students from Non-AICTE Approved Institutes and Students from AICTE Approved Institutes: **Rs. 3,000/-**
- Participant from Industry/ Business organization: **Rs. 15,000/-**
- Participant from outside India: **USD 500**

Fee paid will be refunded in case a candidate is not shortlisted for the course. However, no refund of the fee will be provided if a candidate is shortlisted and does not attend the course.

Course Coordinator:

Dr. Surya Prakash
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For any further queries, contact Course Coordinator, Dr. Surya Prakash at surya@iiti.ac.in.

Course webpage: To visit the course webpage, [click here](#).

*** Participants will get the course certificate after the successful completion of the course.**