Shri Sant Gajanan Maharaj College of Engineering

Shegaon, Maharashtra-444203, India, *www.ssgmce.ac.in*

Department of Electronics & Telecommunication Engineering

(NBA Accredited Course)

IEEE Students' Branch, #61661

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One Week Online Hands-On Workshop on
"Real Time Computer Vision Applications using Python with Webcam"

(16-21, August 2020)

Take your first steps into the world of computer vision and learn how to build your own real time applications with webcam in just Six days. This course teaches the application development and you don't need any knowledge of python coding to take part. You may find it challenging at times, but we hope it'll be fun too.

Programme Contents and Schedule

Sr. No.	Programme Details	Timings
Day 0	**Session 0** 1. Installation of Python Software on Windows 2. Installation of OpenCV 3. Testing of Installation	03.00 PM to 04.30 PM
Day 1	**Session I** 1. Basic Image processing concepts 2. Getting photos and videos from webcam **(Hands-on)** 3. Color Object Detection and Tracking using Webcam (Red, Green, Blue Balls) **(Hands-on)**	03.00 PM to 05.30 PM
Day 2	**Session II (Hands-on)** 1. Face Detection and Tracking using Webcam (Eyes, Nose, Mouth, Smile, Face) 2. Click your photos after detecting smile on Face	03.00 PM to 05.30 PM
Day 3	**Session III (Hands-on)** 1. Training your own Face data 2. Real time Face Recognition using webcam 3. Project - I	03.00 PM to 05.30 PM
Day 4	**Session IV (Hands-on)** 1. License plate detection and Tracking 2. Project – II	03.00 PM to 05.30 PM
Day 5	**Session V (Hands-on)** 1. Object Detection using Deep Learning 2. Project – III 3. Quiz and Feedback	03.00 PM to 05.30 PM

Registration Fees: Rs.200/- (Rs.100/- for IEEE Members)
Online Platform: Webex Meeting / Google Meet
Resource Person: Dr. Pravin Wankhede, SSGMCE, Shegaon (9371857196)
Register Online: https://forms.gle/BCjT4VEvbDY2Yu43A

Dr. Pravin Wankhede	**Dr. G. S. Gawande**	**Dr. S. B. Somani**
Branch Counselor	Head, E & TC Dept	Principal
SSGMCE IEEE Students' Branch		