

**A**  
**REPORT**  
**ON**  
**“WORKSHOP ON Computer Vision using Python”**



**POORNIMA**  
**INSTITUTE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF COMPUTER ENGINEERING**

**Submitted to:**

**Prof. (Dr.)Dinesh Goyal**  
**Director,**  
**PIET**

**Submitted by:**

**Ms. Shruti Bijawat**  
**Convener,**  
**CS,PIET**

## Workshop on Computer Vision using Python

<b>Date: 12 &amp; 13 December 2019</b>		<b>Time: 08:30 am to 03:00 pm</b>	
<b>Venue: AS-02</b>		<b>Year: III year</b>	
<b>Expert Faculty:</b>	<b>Ms. Shruti bijawat Asst. Prof. CS, PIET</b>	<b>Total Students: 30</b>	
	<b>Ms. Neeti Kapoor</b>		
<b>Mode of Workshop: Presentation and Hands on Practice Mode, Quiz.</b>		<b>Present Students: 30</b>	

**Objective:** The objective of the workshop was to introduce the concept of Digital Image Processing and Computer Vision to students. Students were given a glimpse of this new technology so that they can opt Computer Vision techniques as their internship and in future can build projects on the same.

### SESSION PLAN-

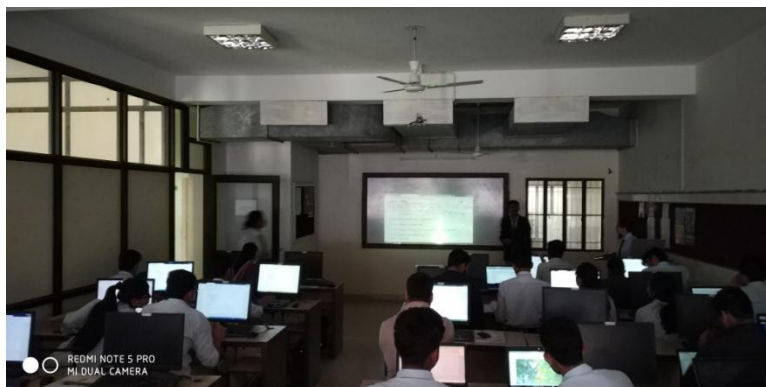
Heading	Functions	Project	Day/Date	Time
Introduction to Digital image processing and Computer vision.  Basic Image handling and processing	<ul style="list-style-type: none"> <li>• Image read</li> <li>• Write</li> <li>• Resize</li> <li>• Rotate</li> <li>• Array representation</li> <li>• Types of noise</li> <li>• Adding noise to images</li> <li>• Filters</li> <li>• Removing noise</li> </ul>	Counting objects using Image Morphology	Tuesday, 12-03-2019	08:30 am - 11:30am
Basic Image handling and processing	<ul style="list-style-type: none"> <li>• Edge detection</li> <li>• Histogram</li> <li>• Image transforms</li> <li>• Morphological operators</li> <li>• Template matching</li> </ul>	Counting objects using Image Morphology	Tuesday, 12-03-2019	12:10 pm- 03:00pm
Video analysis	<ul style="list-style-type: none"> <li>• Video analysis</li> </ul>	Object tracking	Wednesday, 13-03-2019	08:30 am - 09:30am
Face detection	<ul style="list-style-type: none"> <li>• Face detection</li> </ul>	Detecting multiple faces	Wednesday, 13-03-2019	09:30am- 11:30am

Extracting text from images	<ul style="list-style-type: none"> <li>Extracting text from images</li> </ul>	OCR	Wednesday, 13-03-2019	12:10pm- 01:10pm
Introduction to machine learning in computer vision	<ul style="list-style-type: none"> <li>Introduction to machine learning in computer vision</li> </ul>		Wednesday, 13-03-2019	01:10pm- 02:10pm
Query handling Feedback			Wednesday, 13-03-2019	02:10pm- 03:00pm

**Feedback from Students:** Good

**Workshop Output:** Every student was able to build the applications and participated enthusiastically.

**Conclusion:** The Department of computer Engineering of Poornima institute of Engineering & Technology, Jaipur has organized a 2 day workshop on “**Computer Vision using Python**” with the aim to provide hands on practice to the students on this new platform. This workshop was also useful in the reference of internships and future projects. It was well conducted where students participated actively.



List of Students:

S.No.	NAME OF THE STUDENT	REGISTRATION NUMBER
1	Abhinav Pahariya	Piet16ce001
2	Abhishek	Puet16ce003
3	Ajay Agrawal	Piet16ce008
4	Ajay kaushik	PIET16CE009
5	Anshul Vijayvargiya	Piet16ce125
6	ayush jain	Piet16ce019
7	Ayushi bhargava	Piet16ce020
8	Chetan agrawal	Piet 16ce025
9	Dwarika Das Vaishnav	Piet16ce029
10	Harsh Anand	Piet16ce033
11	Harshit Jain	Piet16ce034
12	Kapil Sharma	Piet16ce046
13	Madhuvrat Gupta	Piet16ce056
14	Mohit Kumar	Piet16ce061
15	Mohit Maheshwari	Piet16ce062
16	Moin khan	Piet16ce063
17	Nitesh Sachdev	PIET16CE074
18	RITIK AGRAWAL	PIET16CE091
19	Varuchi Pareek	Piet16ce114
20	VishakhDutt	PIET16CE116
21	Vishrut Joshi	PIET16CE117
22	Yash jain	Piet16ce120
23	Yash mathur	Piet16ce121
24	Yash sharma	Piet16ce122
25	Yash Verma	
26	Neeta Kanwani	
27	Shweta Singh	
28	Arvind	
29	Heena	
30	Jyoti	
31	Jahanvi	