

DATE: 05/09/2021

Event Coordinator(s)

1. Mr Jaychand Upadhyay
2. Ms Chhaya Narvekar

Time & Place:

31st August to 4th Sep, 2021.

Platform: Online

Department:

IT

No of participants:

86

One week value added course on “Image Processing using OpenCV Python” was organized for the third year engineering student of XIE by the Information Technology Department of Xavier Institute of Engineering, from 31<sup>st</sup> August to 4<sup>th</sup> Sep, 2021.

The course content was designed by Ms. Chhaya Narvekar who is currently working as Assistant Professor in IT Department, XIE. The Resource person for the value added course were Mr. Jaychand Upadhyay, Ms Chhaya Narvekar. Ms Sushma Khanvilkar and Ms Lalita Moharkar.

The Course content was as follows:

Module 1: Introduction to Image Processing, Types of images and quality Measures, Sampling, Quantization, Distance Measures

Module 2: Python libraries for Image Processing Image reading, displaying. Zooming, and image sampling quantization demonstration, discussion on sample Application

Module 3: Image Enhancement in Spatial Domain, Implementation of image Enhancement concept using python, on various types of Images, Module 4: Image Segmentation-first order, second order derivatives, and Different mask, Implementation of different edge detection mask, and its Application

Module 5: Image Transform and its application

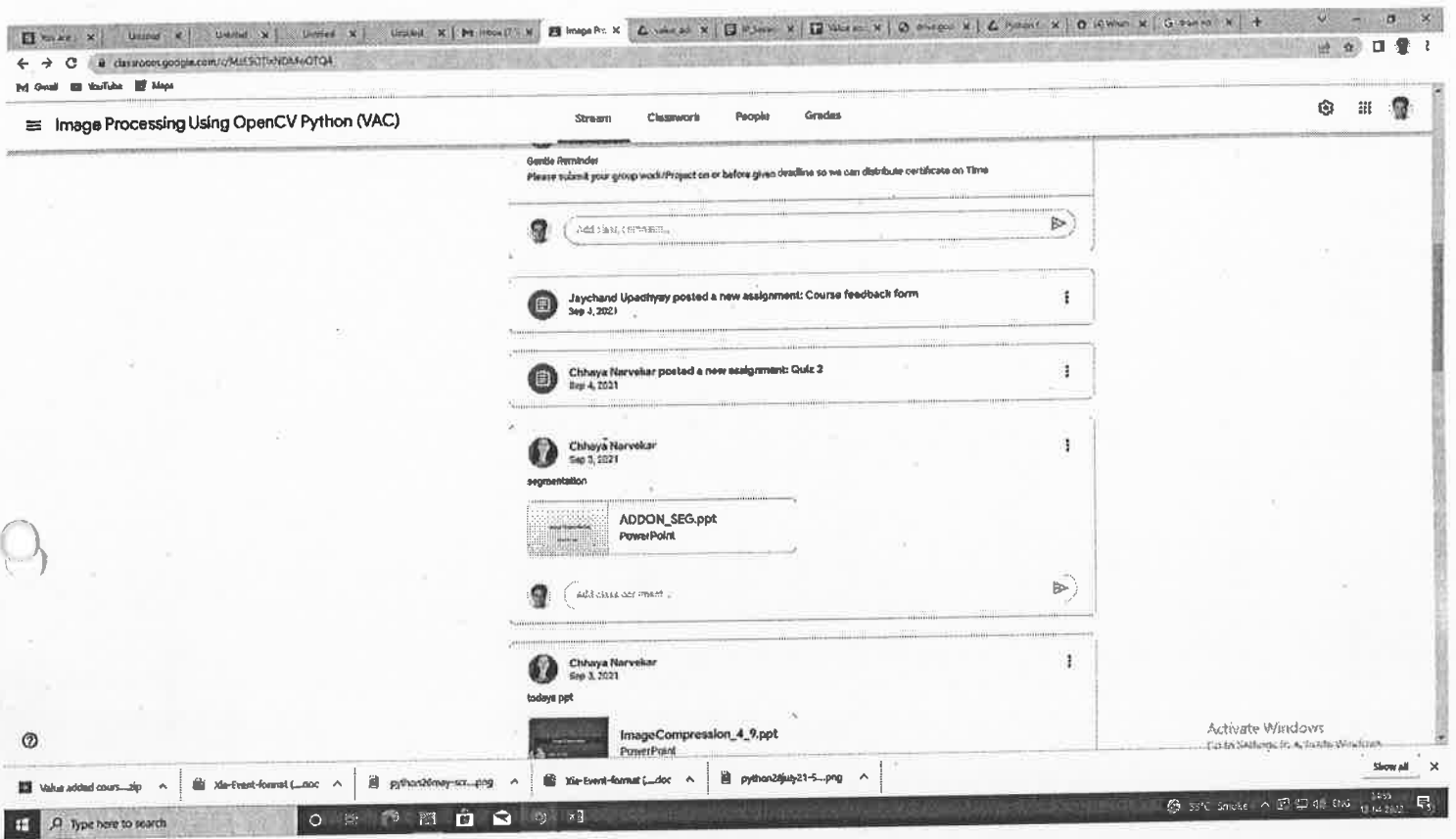
Module 6: Filtering in frequency domain Implementation


Module 7: Image Compression Algorithm, Applications of image processing


Module 8: Mini Project

86 students had registered for the value added course. Various quizzes were conducted covering all the modules to evaluate the knowledge gained. Students securing more than 60% average score of all quizzes and mini project were awarded with Completion certificates.


Screenshot:



  
Mr Jaychand Upadhyay  
Course co-ordinator

  
Ms Chhaya Narvekar  
Course co-ordinator

  
Ms Meena Ugale  
HOD

  
Dr. Y. D. Venkatesh  
Principal



Department of Information Technology

Opposite S.L.Raheja Hospital, Mahim Causeway, Mahim (West), Mumbai - 400016, Maharashtra. +91 22 24451961

## Session Plan for ADD ON COURSE on Image Processing using OpenCV Python

One week- from 31<sup>st</sup> August To 4<sup>th</sup> September 2021

**Duration-30 Hour**

### Resource Persons:

1. Ms. Chhaya Narvekar (IT)
2. Ms. Sushma Khanvilkar (Comp)
3. Jaychand U. (IT)
4. Prof. Lalita Moharkar (EXTC)

Session Number	Date & Day	Topic	Faculty Name
1	Tuesday 31 <sup>st</sup> August 2021 9.00AM -11.00AM	Introduction to Image Processing, Types of images and quality Measures, Sampling ,Quantization, Distance Measures	<b>Chhaya N</b>
2	Tuesday 31 <sup>st</sup> August 2021 2.00PM -4.00PM	Python libraries for Image processing Image reading, displaying . Zooming, and image sampling quantization demonstration , discussion on sample Application	<b>Jaychand U</b>
3	Wednesday 1 <sup>st</sup> September 2021 9.00AM -10.00AM	Image Enhancement in Spatial domain.	<b>Sushma K.</b>
4	Wednesday 1 <sup>st</sup> September 2021 2.00PM -4.00PM	Implementation of image Enhancement concept using python, on various types of Images,	<b>Sushma K.</b>

5	Wednesday 1 <sup>st</sup> September 2021 5.00PM-6.00PM	Quiz on Fundamentals of IP	<b>Chhaya N.</b>
6	Thursday 2 <sup>nd</sup> September 2021 9.00AM -11.00AM	Image Segmentation-first order, second order derivatives, and Different mask	<b>Chhaya N.</b>
7	Thursday 2 <sup>nd</sup> September 2021 2.00PM -4.00PM	Implementation of different edge detection mask, and its Application	<b>Jaychand N.</b>
8	Friday 3 <sup>rd</sup> September 2021 9.00AM -10.00AM	Image Transform and its application	<b>Lalita M</b>
9	Friday 3 <sup>rd</sup> September 2021 2.00PM -4.00PM	Filtering in frequency domain Implementation	<b>Lalita M</b>
10	Saturday 4 <sup>th</sup> September 21 9.00AM -11.00AM	Image Compression Algorithm	<b>Chhaya N.</b>
11	Saturday 4 <sup>th</sup> September 21 2.00PM -4.00PM	Applications of image processing	<b>Jaychand U.</b>
12	1 hour quiz 4/9 5.00PM-6.00PM	Image transform, segmentation and compression.	<b>Chhaya N.</b>
13	10 hour Project based Home Assignment.	Sample Project- With report and PPT submission within 15 days after course completion. Certificate will be issued after successful completion of course	<b>Jaychand/Chhaya</b>
14	Monday 6/9 5.00PM.-6.00PM	Project work	<b>Students self learning</b>
15	Tuesday 7/9 5.00PM.-6.00PM	Project work	<b>Students self learning</b>

16	Wednesday 8/9 5.00PM.-6.00PM	Project work	<b>Students self learning</b>
17	Thursday 9/9 5.00PM.-6.00PM	Project work	<b>Students self learning</b>
18	Monday 13/9 5.00PM.-6.00PM	Project work	<b>Students self learning</b>
19	Tuesday 14/9 5.00PM.-6.00PM	Project work	<b>Students self learning</b>
20	Wednesday 15/9 5.00PM.-6.00PM	Project work	<b>Students self learning</b>
21	Thursday 16/9 4.00PM.-6.00PM	Project work	<b>Students self learning</b>
22	Friday 17/9 5.00PM-6.00PM	Project work- Submission	<b>G-Classroom</b>

Total No of Hours = 30

Timestamp	Name:	Branch:	GRADUATION YEAR:	XIE-ID	EMAIL ID:	CONTACT NO:
2021/08/26 7:27:40 PM GMT+5:30	Nihal Shah	IT	TE	201903044	201903044.nihalsnb@student.xavier.ac.in	9137134856
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2021/08/26 7:28:34 PM GMT+5:30	Mitesh Rege	IT	TE	201903038	miteshrege4@gmail.com	9082485137
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Timestamp	Email:	How was the overall organization of the sessions?	How relevant was the content discussed by the speakers?	Are you satisfied with the time and venue/platform?	How much interesting was this course for you?
2021/09/04 4:12:07 AM MDT	201903032.tejasnsk@student.xavier.ac.in	Excellent	Excellent	Excellent	Good
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Timestamp	Email:	How was the overall organization of the sessions?	How relevant was the content discussed by the speakers?	Are you satisfied with the time and venue/platform?	How much interesting this course was for you?
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2021/09/04 4:49:47 AM MDT	201903042.aryass@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/04 5:10:26 AM MDT	alishajoyalpt27@gmail.com	Excellent	Excellent	Excellent	Excellent
2021/09/04 5:18:21 AM MDT	201903018.swarajit@student.xavier.ac.in	Good	Good	Good	Good
2021/09/04 5:36:35 AM MDT	201903031.rahulnmk@student.xavier.ac.in	Good	Good	Good	Fair
2021/09/04 5:53:22 AM MDT	adityabohade2002@gmail.com	Excellent	Excellent	Excellent	Excellent
2021/09/04 6:38:29 AM MDT	201903025.bajaranglr@student.xavier.ac.in	Good	Fair	Excellent	Good
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2021/09/04 11:33:13 AM MDT	201903065.alishaanf@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/05 1:30:28 AM MDT	201903046.prajnasrl@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/05 10:07:50 AM MDT	201903049.vishalsin@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/05 12:38:27 PM MDT	201903055.anuragydr@student.xavier.ac.in	Good	Good	Excellent	Good
2021/09/05 8:02:12 PM MDT	201903063.mohammedaha@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/05 10:25:23 PM MDT	alfred44prem@gmail.com	Good	Good	Fair	Good

Timestamp	Email:	How was the overall organization of the sessions?	How relevant was the content discussed by the speakers?	Are you satisfied with the time and venue/platform?	How much interesting this course was for you?
2021/09/19 2:07:52 PM MDT	2020032003.ajitjar@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/20 1:46:28 AM MDT	201903058.dhruyashmsa@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/22 11:55:26 AM MDT	201903010.steveddp@student.xavier.ac.in	Good	Good	Good	Good
2021/09/23 12:51:42 AM MDT	201903058.dhruyashmsa@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent
2021/09/23 6:08:51 AM MDT	vishal.chennuri@gmail.com	Excellent	Excellent	Excellent	Good
2021/09/23 10:36:25 PM MDT	201903014.prarthanagsv@student.xavier.ac.in	Fair	Fair	Fair	Good
2021/10/05 7:23:02 AM MDT	201903029.shivammvb@student.xavier.ac.in	Fair	Poor	Fair	Good
2021/10/08 1:37:45 AM MDT	201903059.vikramcss@student.xavier.ac.in	Good	Good	Good	Good
2021/10/14 4:54:21 AM MDT	anushkakarishinde1611@gmail.com	Good	Good	Good	Good

Timestamp	Email:	How was your preparation about the topic before the guest lecture?	Did the lecture cover what you were expecting?	What is your opinion about the speakers?	How much these session were useful from the knowledge and information point of view	Overall effectiveness of the course	Additional and suggestions for future
2021/09/04 11:21:27 AM MDT	201903032.tejasnk@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	.
2021/09/04 11:33:13 AM MDT	201903065.alishaanf@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	None
2021/09/05 1:30:28 AM MDT	201903046.prajnasrl@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	-
2021/09/05 10:07:50 AM MDT	201903049.vishalsih@student.xavier.ac.in	Good	Excellent	Good	Excellent	Good	Good
2021/09/05 12:38:27 PM MDT	201903055.anuragydr@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	None
2021/09/05 8:02:12 PM MDT	201903063.mohammedaha@student.xavier.ac.in	Fair	Fair	Good	Good	Good	Good
2021/09/05 10:25:23 PM MDT	alfred44prem@gmail.com						-
2021/09/05 11:20:32 PM MDT	2019030051.dallasvjg@student.xavier.ac.in	Good	Good	Good	Good	Good	was conducted smoothly
2021/09/06 12:30:45 AM MDT	201903004.vinodbvw@student.xavier.ac.in	Good	Excellent	Fair	Excellent	Good	NONE
2021/09/06 3:55:44 AM MDT	2020032001.russelldk@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	NONE
2021/09/09 5:06:01 AM MDT	anushkharishshinde1611@gmail.com	Excellent	Excellent	Excellent	Excellent	Excellent	No
2021/09/09 11:16:12 AM MDT	201903009.yashckd@student.xavier.ac.in	Good	Good	Excellent	Excellent	Excellent	Would like many course
2021/09/14 1:44:14 AM MDT	201903038.miteshrpa@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Very Good
2021/09/19 10:44:01 AM MDT	201903006.adityabsd@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Workshop
2021/09/19 2:07:52 PM MDT	2020032003.ajitjar@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	No comment
2021/09/20 1:46:28 AM MDT	201903058.dhruyashmsa@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	No
2021/09/22 11:55:26 AM MDT	201903010.steveddp@student.xavier.ac.in	Good	Good	Good	Good	Good	-
2021/09/23 12:51:42 AM MDT	201903058.dhruyashmsa@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	no
2021/09/23 6:08:51 AM MDT	vishal.chennuri@gmail.com	Good	Excellent	Excellent	Excellent	Excellent	NO
2021/09/23 10:36:25 PM MDT	201903014.prarthanagsv@student.xavier.ac.in	Poor	Fair	Good	Good	Good	Good
2021/10/05 7:23:02 AM MDT	201903029.shivammvb@student.xavier.ac.in	Poor	Fair	Poor	Fair	Poor	Incomplete
2021/10/08 1:37:45 AM MDT	201903059.vikramcss@student.xavier.ac.in	Good	Good	Good	Good	Good	NONE
2021/10/14 4:54:21 AM MDT	anushkharishshinde1611@gmail.com	Good	Good	Good	Good	Good	No

Timestamp	Email:	How was your preparation about the topic before the guest lecture?	Did the lecture cover what you were expecting?	What is your opinion about the speakers?	How much these session were useful from the knowledge and information point of view	Overall effectiveness of the course	Additional and suggestions for future
2021/09/04 4:45:02 AM MDT	201903036.johanprp@student.xavier.ac.in	Fair	Fair	Good	Fair	Fair	The practical were helpful seemed like crash course confusing morning sessions honestly difficult to help it would be helpful if there were more sessions and in dept us were to topic
2021/09/04 4:46:53 AM MDT	201903050.manjritmm@student.xavier.ac.in	Fair	Excellent	Excellent	Excellent	Excellent	no
2021/09/04 4:49:47 AM MDT	201903042.aryasss@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	No
2021/09/04 5:10:26 AM MDT	alishajoyalpt27@gmail.com	Excellent	Excellent	Excellent	Excellent	Excellent	-
2021/09/04 5:18:21 AM MDT	201903018.swarajjt@student.xavier.ac.in	Good	Excellent	Excellent	Excellent	Good	Learned a lot image processing
2021/09/04 5:36:35 AM MDT	201903031.rahulnmk@student.xavier.ac.in	Good	Good	Good	Good	Good	was very poor course
2021/09/04 5:53:22 AM MDT	adityabohade2002@gmail.com	Excellent	Excellent	Excellent	Excellent	Excellent	It was very helpful
2021/09/04 6:38:29 AM MDT	201903025.bajaranglr@student.xavier.ac.in	Good	Fair	Good	Good	Good	Very helpful
2021/09/04 6:58:40 AM MDT	201903062.saudass@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	The sessions really good and well explained by the speaker
2021/09/04 7:03:44 AM MDT	201903047.dineshsv@student.xavier.ac.in	Good	Excellent	Excellent	Excellent	Excellent	None
2021/09/04 7:44:38 AM MDT	201903039.odrinrav@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Conduct more
2021/09/04 7:52:58 AM MDT	201903065.alishaanf@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	

Timestamp	Email:	How was your preparation about the topic before the guest lecture?	Did the lecture cover what you were expecting?	What is your opinion about the speakers?	How much these session were useful from the knowledge and information point of view	Overall effectiveness of the course	Additional comment and suggestio future
2021/09/04 4:12:07 AM MDT	201903032.tejansk@student.xavier.ac.in	Excellent	Good	Excellent	Excellent	Excellent	
2021/09/04 4:18:13 AM MDT	201903027.nancymnd@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	
2021/09/04 4:29:19 AM MDT	201903038.miteshrpa@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Yes of cour
2021/09/04 4:29:45 AM MDT	201903058.dhruyashmsa@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	No
2021/09/04 4:30:51 AM MDT	201903035.berliuspb@student.xavier.ac.in	Good	Good	Good	Good	Good	
2021/09/04 4:30:55 AM MDT	201903052.niharvkm@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Need more practical a
2021/09/04 4:32:05 AM MDT	201903021.onkarkrv@student.xavier.ac.in	Good	Good	Good	Good	Good	workshop, great if doi on ML or A technology) Lectures w
2021/09/04 4:32:40 AM MDT	201903013.chrisgla@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	It was a ve interesting
2021/09/04 4:33:05 AM MDT	201903023.calebkpc@student.xavier.ac.in	Fair	Excellent	Good	Good	Excellent	
2021/09/04 4:34:30 AM MDT	201902002.ganeshbnn@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	It was very
2021/09/04 4:36:02 AM MDT	2020032002.dipaligdv@student.xavier.ac.in	Good	Good	Excellent	Excellent	Good	No
2021/09/04 4:37:00 AM MDT	20180307.KaushtubDNN@student.xavier.ac.in	Fair	Excellent	Excellent	Excellent	Excellent	nthg
2021/09/04 4:37:40 AM MDT	201901022.aniruddhakvm@student.xavier.ac.in	Good	Good	Good	Good	Good	Host more with e-cert
2021/09/04 4:38:55 AM MDT	201903015.sonamgbu@student.xavier.ac.in	Good	Good	Good	Good	Good	Overall thi
2021/09/04 4:39:36 AM MDT	201903015.sonamgbu@student.xavier.ac.in	Good	Good	Good	Good	Good	Overall goc
2021/09/04 4:40:05 AM MDT	20170312.rushikeshdsv@student.xavier.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	No
							This course seriously a the flow o was also v theory, qui practical s everything