



POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

Six Days First Short Term Training Programme (STTP) under AICTE-AQIS

On

Image Processing and its Application

Session (2020-2021)



Submitted By: -
Dr. Praveen Kumar Gupta
Coordinator
Department of Computer Engineering
PIET

Submitted To:-
Dr. Dinesh Goyal
Director
PIET



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Report

On

Six Days First Short Term Training Programme (STTP) under
AICTE-AQIS

On

Image Processing and its Application

24th - 29th August 2020

Organized By-

**DEPARTMENT OF COMPUTER ENGINEERING
POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY
ISI-2 RIICO INSTITUTIONAL AREA, SITAPURA
JAIPUR – 302022 RAJASTHAN, INDIA**

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1. STTP Brochure:

**Six days Short Term Training Programme (STTP)
under AQIS on
IMAGE PROCESSING AND
ITS APPLICATION**

August 24-29, 2020

Sponsored by

ABOUT INSTITUTE

Poornima Institute of Engineering & Technology was established in 2007 with the aim of imparting pragmatic technical education. In its magnificent journey of 13 years, PIET has set benchmarks and reached at new pinnacles in Engineering Education with dedication, perseverance and devotion. PIET is spearheading its outstanding voyage with the motto 'Success is not a destination, It's a journey'.

- State of Art of Infrastructure for innovative Teaching Pedagogy and ICT based learning.
- Ranked 4th by Rajasthan Technical University under Quality Index Value Framework.
- Accredited with NBA for B. Tech CSE 2020.
- Accredited with NBA for B. Tech Civil in 2019.
- NAAC Accredited institute from 2019.
- Notable funding received from various Government and Private bodies (AICTE, RTU, IJIT, IMPACT, ZEETRON NETWORKS)

ABOUT DEPARTMENT

The Department of Computer Engineering is one of the finest and most diverse departments in the Poornima Foundation as well as in the Rajasthan Technological University, Kota. We offer the B. Tech in Computer Engineering since year 2007. I am glad to inform that Department has been accredited by National Board of Accreditation (NBA) and it is now in elite list of departments in India which has got this accreditation. The department of Computer Engineering offers B.Tech degree course with an approved intake of 180 students per year. Department makes the student industry ready with all practical experience by introducing new technology Machine learning, Data Science, Salesforce. Department has Huge Alumni base of more than 900 Alumni currently working with MNC's and Government Institutions.

ABOUT STTP

Image processing is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image. Nowadays, image processing is among rapidly growing technologies. It forms core research area within engineering and computer science disciplines too.

Image processing basically includes the following three steps:

- Importing the image via image acquisition tools;
- Analysing and manipulating the image;
- Output in which result can be altered image or report that is based on image analysis.

The objective of the STTP is to provide conceptual knowledge and research opportunities in the areas of image processing. The STTP aims at equipping participants with skills and knowledge in order to create a better society by guiding, training and motivating the students to take up research projects.

TOPICS TO BE COVERED

- Introduction to Digital Image Processing.
- Applications of Digital Image Processing.
- Understanding the image arithmetic and logical functions
- Image enhancement, Restoration and Segmentation.
- Image filters
- Noise reduction in images
- Image Cryptography
- Image Steganography
- Image Morphology and Compression.
- Introduction to Pattern Recognition
- Biometric and Biomedical applications.
- Medical imaging

INSTRUCTIONS:

- Faculty/Research Scholars from Universities/ AICTE recognized Institutions are only eligible.
- No Registration Fees
- Last Date of Registration: August 21, 2020
- E-Certificates will be provided after successful completion of STTP
- Registration Link: <https://forms.gle/PN2oXUxqzRj9jB9e7>

CHIEF PATRON
Sh. Shashikant Singhi
Chairman, Poornima Group, Jaipur

HONARARY PATRON
Ar. Rahul Singhi
Director, Poornima Group, Jaipur

PATRON
Dr. Dinesh Goyal
Director, Poornima Institute of Engineering & Technology

PROGRAM CHAIR
Mr. Deepak Moud
Assistant Professor, Computer Engineering, PIET

PROGRAM CO-CHAIR
Dr. Gautam Singh
Registrar, Poornima Institute of Engineering & Technology

CO-ORDINATOR
Dr. Praveen Gupta
Professor, Computer Engineering, PIET

CO-COORDINATOR
Mr. Sandeep Tuli
Assistant Professor, Computer Engineering, PIET

SPEAKERS

Dr. Pratistha Mathur
Professor, Manipal University, Jaipur

Dr. Munesh Chandra Associate Professor NIT, Agartala	Dr. Deepak Ranjan Nayak Assistant Professor MNIT, Jaipur
Dr. Preety Singh Assistant Professor LNMIIT, Jaipur	Dr. Vivek Kumar Verma Assistant Professor Manipal University Jaipur
Dr. Mehak Khurana Assistant Professor, The North Cap University Gurugram Haryana	Ms. Parvati Bhurani Assistant Professor, Govt. Women Engineering College, Ajmer
Mr. Ashutosh Tiwari Software Engineer Optimus Information	Ms. Saroj Agrawal Assistant Professor, Mahaveer College of Commerce, Jaipur
Mr. Saurabh Dutta Assistant Professor Poornima University, Jaipur	Ms. Shubhra Dalakoti Process Manager American Express India

Organized by
**Department of
Computer Engineering**

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RSVP
Dr. Praveen Gupta
✉ : pier.outreach@poornima.org • ☎ : 8875335489

2. Brief Overview:

Six Days First Short Term Training Programme (STTP) under AICTE-AQIS on Image Processing and its Application		
Date: August 24 - 29, 2020	Time-	10:00 AM-11:30 AM 11:45 AM-1:15 PM 2:00 PM-3:30 PM
Mode	Online (Google Meet) Presentation and Hands On Sessions using Open CV (Spider, Mat Lab)	
Participants Registered	148	
Resource Persons	<ol style="list-style-type: none">1. Dr Pratistha Mathur, Professor, Manipal University Jaipur2. Dr. Munesh Chandra, Associate Professor, NIT Agartala3. Dr. Preety Singh, Assistant Professor, LNMIIT Jaipur4. Dr. Abhimanyu Singh Garhwal, Post-Doctoral Scientist, AgResearch, New Zealand5. Dr. Deepak Ranjan Nayak, Assistant Professor, MNIT Jaipur6. Dr. Vivek Kumar Verma, Assistant Professor, Manipal University Jaipur.7. Ms. Saroj Agrawal, Assistant Professor, Mahaveer College of Commerce Jaipur.8. Dr. Mehak Khurana, Assistant Professor, The North Cap University, Gurugram, Haryana.9. Mr. Saurabh Dutta, Assistant Professor, Poornima University Jaipur.10. Ms. Shubhra Dalakoti, Process Manager, American Express11. Mr. Ashutosh Tiwari, Software Engineer, Optimus Information	

3. Detail Report

Department of Computer Engineering, Poornima Institute of Engineering & Technology has conducted Six Days First Short Term Training Programme (STTP) under AICTE-AQIS on Image Processing and its Application from August 24 to August 29, 2020

3.1 About Institute:

Poornima Institute of Engineering & Technology was established in 2007 with the aim of imparting pragmatic technical education. In its magnificent journey of 13 years, PIET has set benchmarks and reached at new pinnacles in Engineering Education with dedication, perseverance and devotion. PIET is spearheading its outstanding voyage with the motto ‘Success is not a destination, it’s a journey’

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The Department of Computer Engineering is one of the finest and most diverse departments in the Poornima Foundation as well as in the Rajasthan Technological University, Kota. We offer the B.Tech. in Computer Engineering since year 2007. I am glad to inform that Department has been accredited by National Board of Accreditation (NBA) and it is now in elite list of departments in India which has got this accreditation. The department of Computer Engineering offers B.Tech. degree course with an approved intake of 180 students per year. Department makes the student industry ready with all practical experience by introducing new technology Machine learning, Data Science, Sales force. Department has Huge Alumni base of more than 900 Alumni currently working with MNC’s and Government Institutions.

3.3 About STTP:

Image processing is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image. Nowadays, image processing is among rapidly growing technologies. It forms core

research area within engineering and computer science disciplines too. Image processing basically includes the following three steps:

- Importing the image via image acquisition tools
- Analyzing and manipulating the image
- Output in which result can be altered image or report that is based on image analysis.

3.4 Topics to be covered:

- Introduction to Digital Image Processing.
- Applications of Digital Image Processing.
- Understanding the image arithmetic and logical functions
- Image enhancement, Restoration and Segmentation.
- Image filters
- Noise reduction in images
- Image Cryptography
- Image Steganography
- Image Morphology and Compression.
- Introduction to Pattern Recognition
- Biometric and Biomedical applications.
- Medical imaging

3.5 Objective of STTP:

The objective of the STTP is to provide conceptual knowledge and research opportunities in the areas of Image processing. The STTP aims at equipping participants with skills and knowledge in order to create a better society by guiding, training and motivating the students to take up research projects.

4. Schedule of Program

POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY					
DEPARTMENT OF COMPUTER ENGINEERING					
First Short Term Training Programme (STTP) under AQIS on Image Processing and its Application					
	09:30 AM - 10:00 AM	10:00 AM -11:30 AM	11:45 AM - 01:15 PM	02:00 PM - 03:30 PM	03:30 PM - 03:45 PM
Monday 24.08.2020	INAUGURAL SESSION	Introduction to Digital Image Processing. Dr. Preety Singh Assistant Professor, LNMIIT Jaipur	Hands-On Session - Open CV and Image Library Packages Basic Operations on Image Using Open CV Ms. Saroj Agrawal Assistant Professor Mahaveer College of Commerce Jaipur	Applications of Digital Image Processing. Dr. Abhimanyu Singh Garhwal Post-Doctoral Scientist, AgResearch, New Zealand	
Tuesday 25.08.2020		Hands-on Session Rescaling , Random noise , color inversion, image transformation Ms. Shubhra Dalakoti Process Manager, American Express	Understanding the image arithmetic and logical functions Including Hands on Mr. Ashutosh Tiwari Software Engineer Optimus Information	Image enhancement, Restoration and Segmentation. Dr. Vivek Kumar Verma Assistant Professor Manipal University Jaipur	
Wednesday 26.08.2020		Image filters Dr Pratistha Mathur Professor Manipal University Jaipur	Hands-On Session Image Segmentation & Filters Ms. Shubhra Dalakoti Process Manager, American Express	Noise reduction in images Dr Pratistha Mathur Professor Manipal University Jaipur	
Thursday 27.08.2020		Image Morphology and Compression. Dr. Preety Singh Assistant Professor, LNMIIT Jaipur	Hands-On Session - Image Morphology and Compression Dr. Preety Singh Assistant Professor, LNMIIT Jaipur	Image Cryptography Dr. Munesh Chandra Associate Professor, NIT Agartala	
Friday 28.08.2020		Image Steganography Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana	Hands-On Session - Image Steganography Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana	Introduction to Pattern Recognition Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur	
Saturday 29.08.2020		Working with Canny Edge Detection Gaussian Blurring in Image including Hands on Mr. Saurabh Dutta Assistant Professor, Poornima University Jaipur	Hands-On Session Pattern Recognition Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur	Medical imaging Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur	VALEDICTORY SESSION



First Short Term Training Programme (STTP) under AICTE-AQIS on Image Processing and its Application

5. Q-Sheet – Inaugural Function

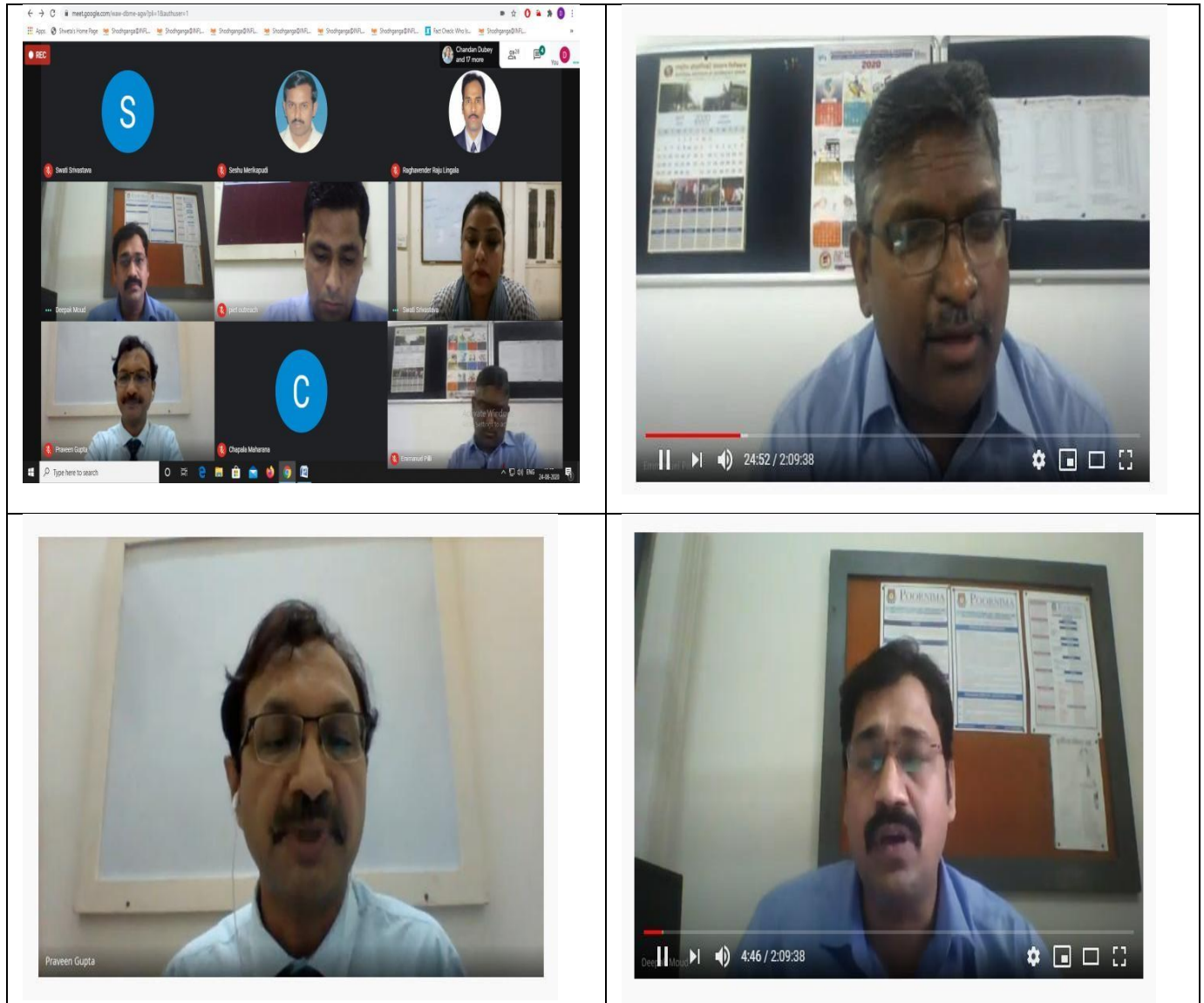
Day & Date: Monday, 24/08/2020

Time: 9:30 AM - 10:00 AM

Online Link: meet.google.com/waw-dbme-agw

Time	Activity	Presenter
9.25 AM-9.30 AM	Arrival of Dignitaries, Faculty members and Students Online	
9.30 AM-9.35 AM	Welcoming Guest 1. Dr. Pilli Emmanuel Shubhakar, Associate Professor and Head Department of CSE, MNIT, Jaipur 2. Dr. Dinesh Goyal, Principal & Director, PIET 3. Dr. Gautam Singh, Registrar, PIET 4. Mr. Deepak Moud, HOD CE, PIET 5. Mr. Praveen Gupta, Coordinator, STTP 6. Mr. Sandeep Tuli Co-Coordinator STTP	Hosted & Anchored by Ms. Swati Srivastava
9.35 AM-9.40 AM	Welcome Address and About STTP	Mr. Deepak Moud, HOD CSE Department
9.40 AM-9.45 AM	Welcome Address and Progress Report of Poornima Institute of Engineering & Technology	Dr. Dinesh Goyal, Principal & Director, PIET
9.45 AM-9.55 AM	Words of Wisdom by Chief Guest	Dr. Pilli Emmanuel Shubhakar, Associate Professor and Head Department of CSE, MNIT Jaipur
9.55 AM-10.00 AM	Vote of Thanks	Dr. Praveen Gupta, Professor, CSE Department, PIET

5.1 Inaugural Session: Snap Shot



6. Technical Session Detail:

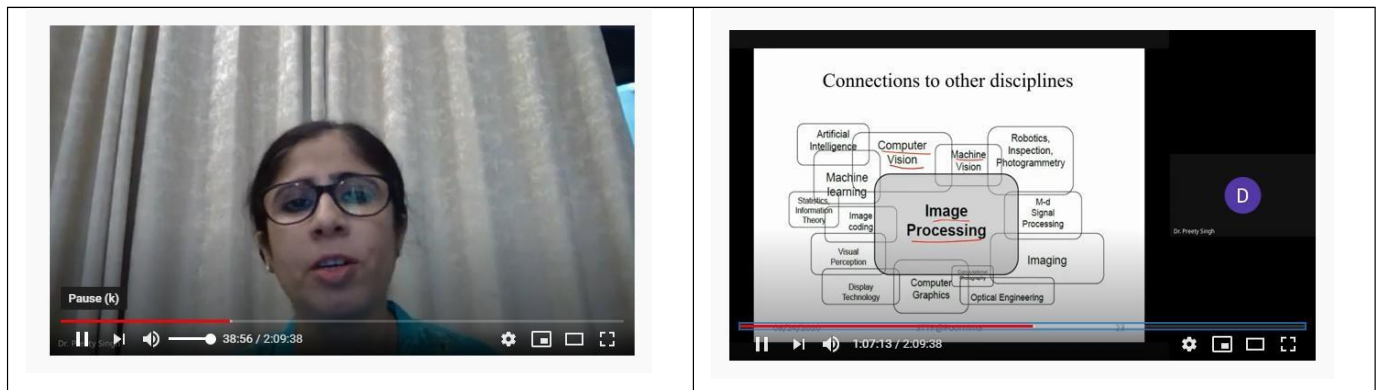
Session 1: Day: Monday, August 24, 2020

Time: 10:00 AM to 11:30 AM

Topic: Introduction to Digital Image Processing.

Resource Person: Dr. Preety Singh Assistant Professor, LNMIIT Jaipur

Snapshot:



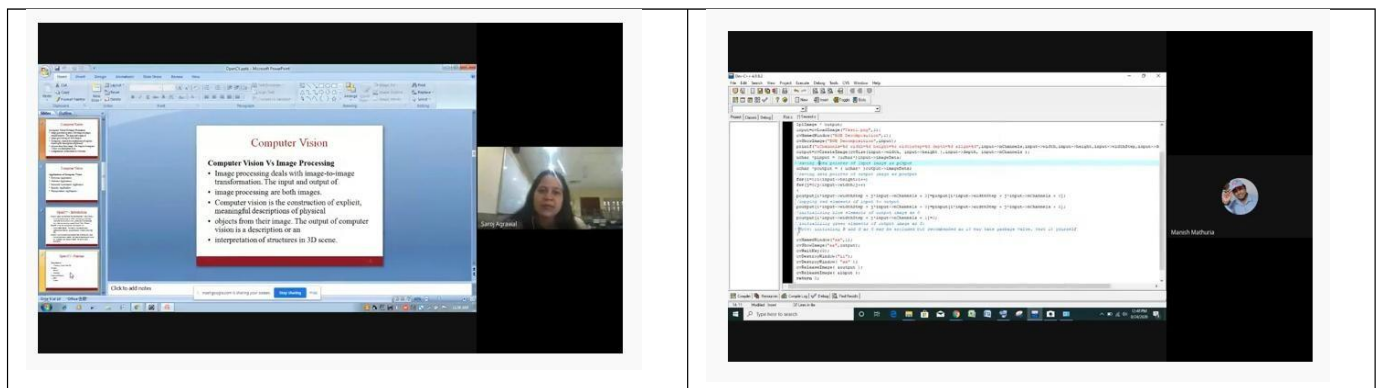
Session 2: Day: Monday, August 24, 2020

Time: 11:45 AM to 01:15 PM

Topic: Hands-On Session - Open CV and Image Library Packages Basic Operations on Image Using Open CV

Resource Person: Ms. Saroj Agrawal Assistant Professor Mahaveer College of Commerce Jaipur

Snapshot:



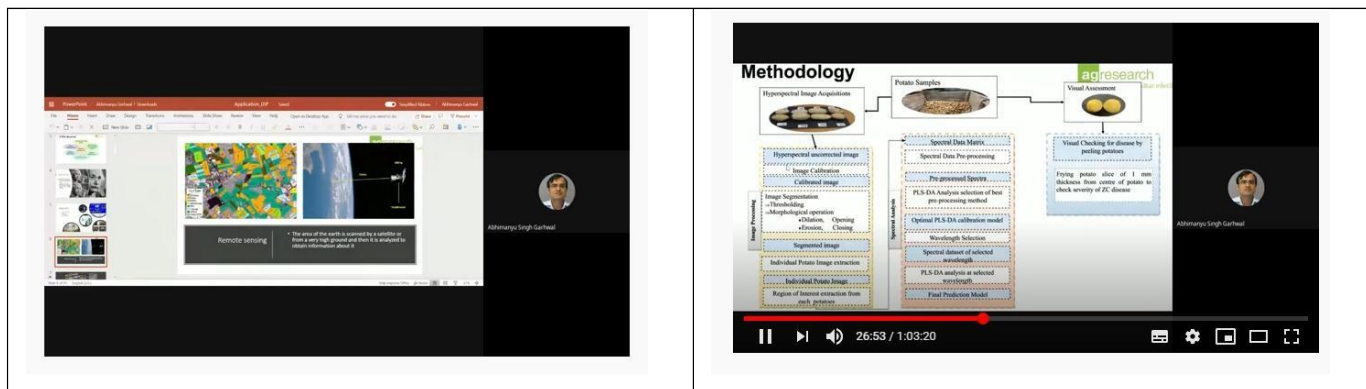
Session 3: Day: Monday, August 24, 2020

Time: 02:00 PM to 03:30 PM

Topic: Applications of Digital Image Processing.

Resource Person: Dr. Abhimanyu Singh Garhwal Post-Doctoral Scientist, AgResearch, New Zealand

Snapshot:



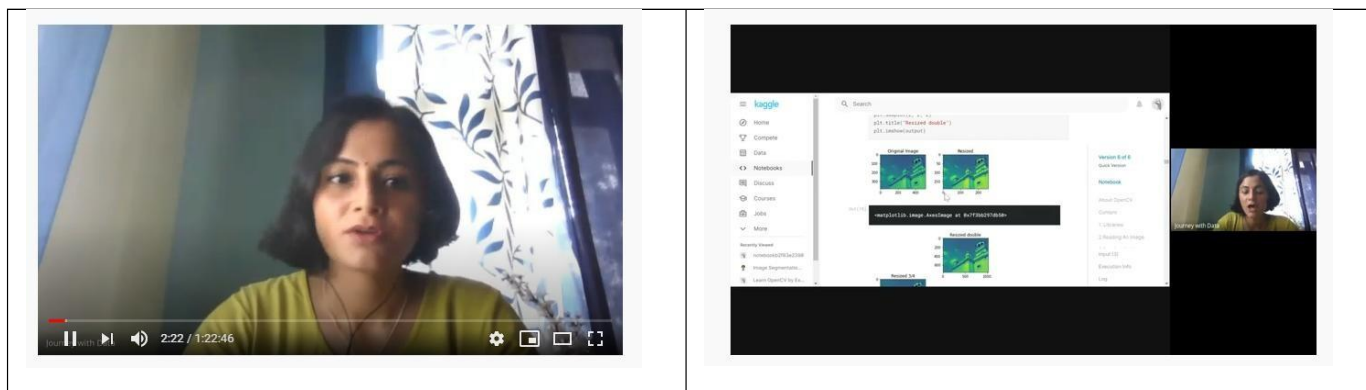
Session 4: Day: Tuesday, August 25, 2020

Time: 10:00 AM to 11:30 AM

Topic: Hands-on Session Rescaling, Random noise, color inversion, image transformation.

Resource Person: Ms. Shubhra Dalakoti Process Manager, American Express

Snapshot:



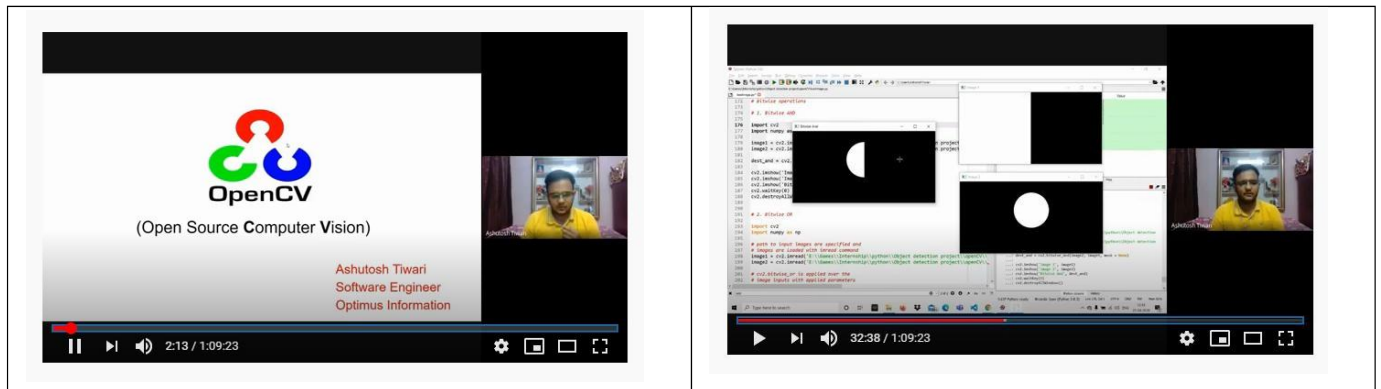
Session 5: Day: Tuesday, August 25, 2020

Time: 11:45 AM to 01:15 PM

Topic: Understanding the image arithmetic and logical functions Including Hands on

Resource Person: Mr. Ashutosh Tiwari Software Engineer Optimus Information

Snapshot:



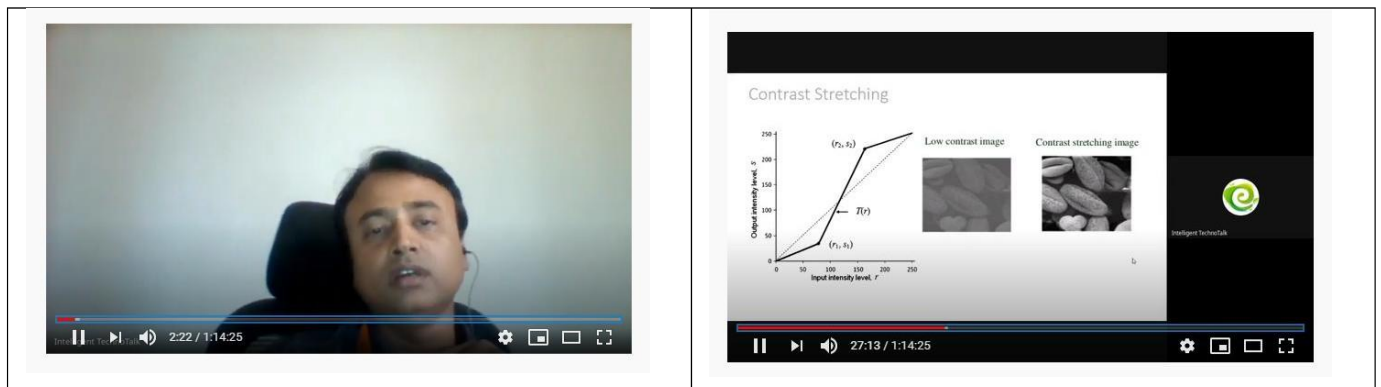
Session 6: Day: Tuesday, August 25, 2020

Time: 02:00 PM to 03:30 PM

Topic: Image enhancement, Restoration and Segmentation

Resource Person: Dr. Vivek Kumar Verma Assistant Professor Manipal University Jaipur

Snapshot:



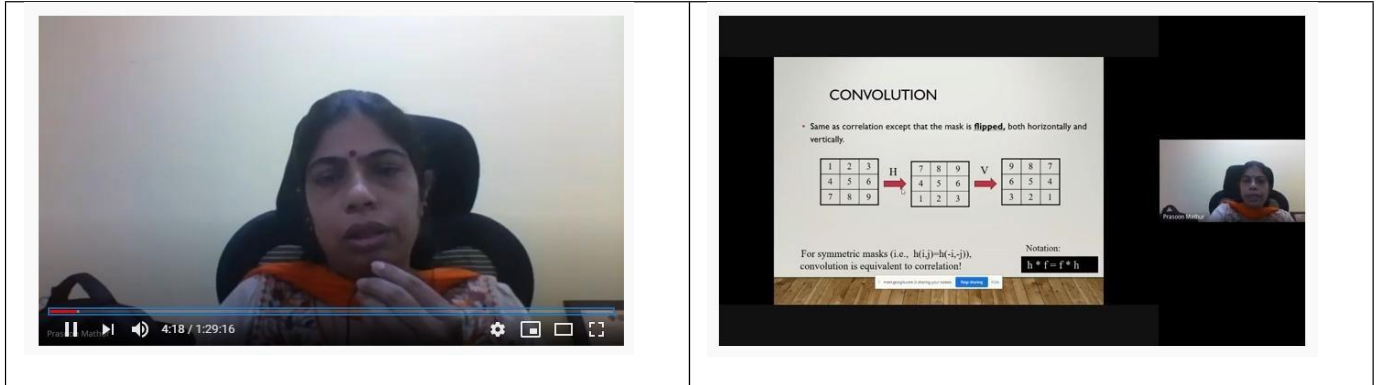
Session 7: Day: Wednesday, August 26, 2020

Time: 10:00 AM to 11:30 AM

Topic: Image filters.

Resource Person: Dr Pratistha Mathur Professor Manipal University Jaipur

Snapshot:



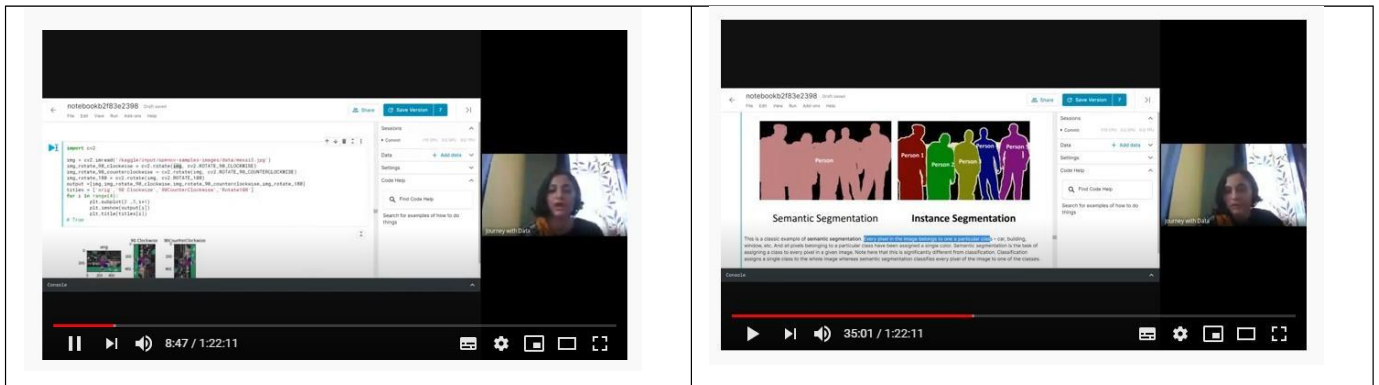
Session 8: Day: Wednesday, August 26, 2020

Time: 11:45 AM to 01:15 PM

Topic: Hands-On Session Image Segmentation & Filters

Resource Person: Ms. Shubhra Dalakoti Process Manager, American Express

Snapshot:



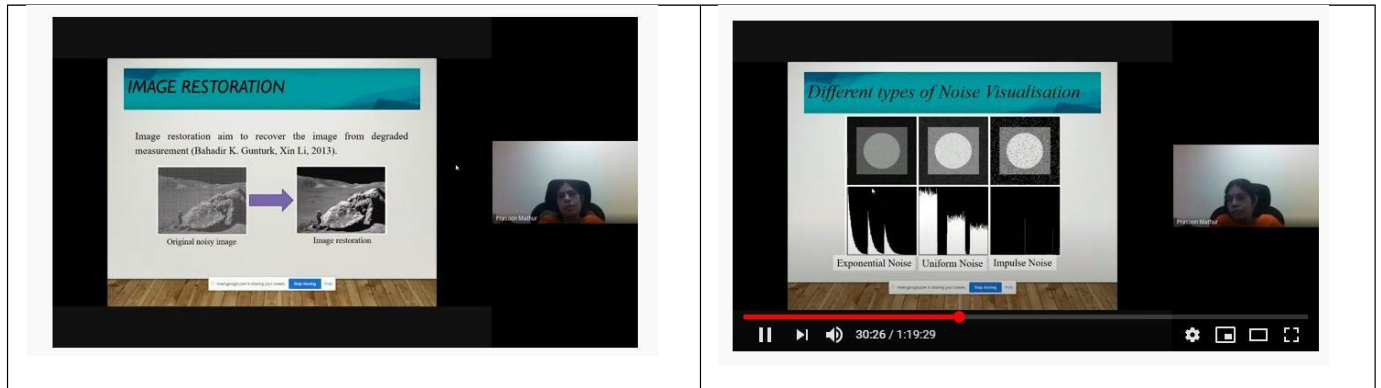
Session 9: Day: Wednesday, August 26, 2020

Time: 02:00 PM to 03:30 PM

Topic: Noise reduction in images

Resource Person: Dr Pratistha Mathur Professor Manipal University Jaipur

Snapshot:



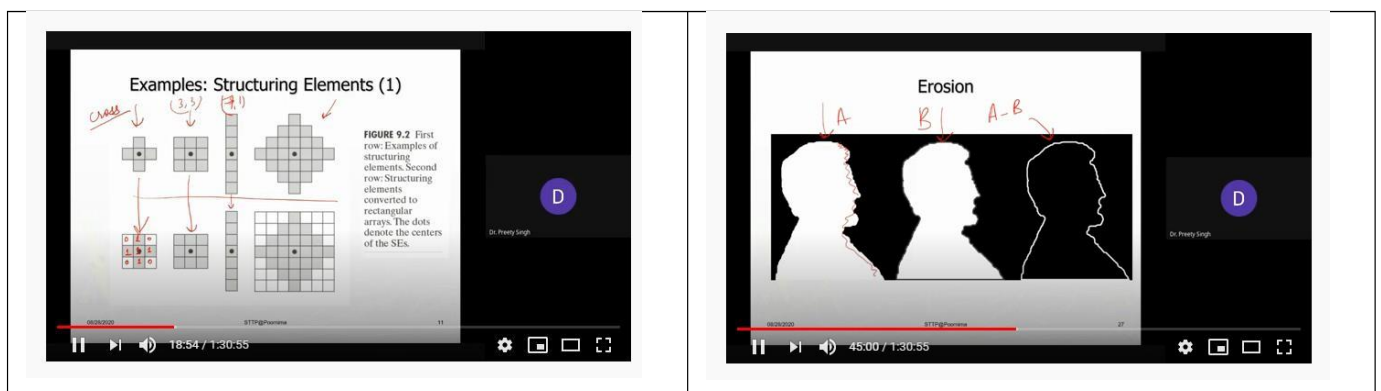
Session 10: Day: Thursday, August 27, 2020

Time: 10:00 AM to 11:30 AM

Topic: Image Morphology and Compression.

Resource Person: Dr. Preety Singh Assistant Professor, LNMIIT Jaipur

Snapshot:



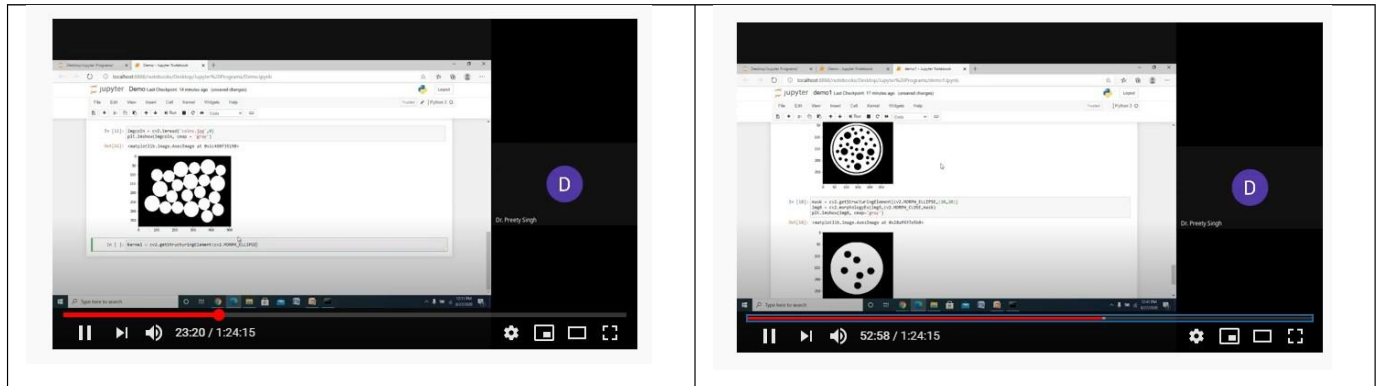
Session 11: Day: Thursday, August 27, 2020

Time: 11:45 AM to 01:15 PM

Topic: Hands-On Session - Image Morphology and Compression

Resource Person: Dr. Preety Singh Assistant Professor, LNMIIT Jaipur

Snapshot:



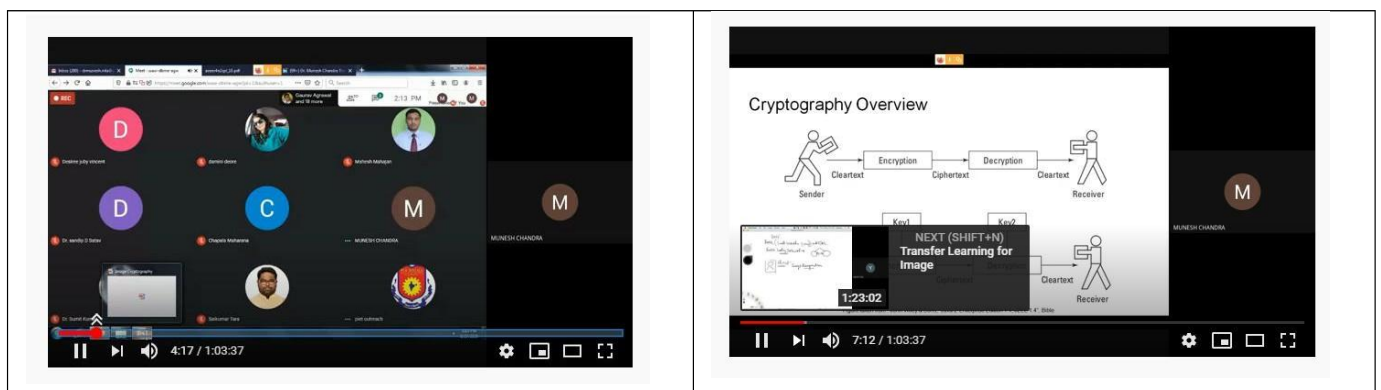
Session 12: Day: Thursday, August 27, 2020

Time: 02:00 PM to 03:30 PM

Topic: Image Cryptography

Resource Person: Dr. Munesh Chandra Associate Professor, NIT Agartala

Snapshot:



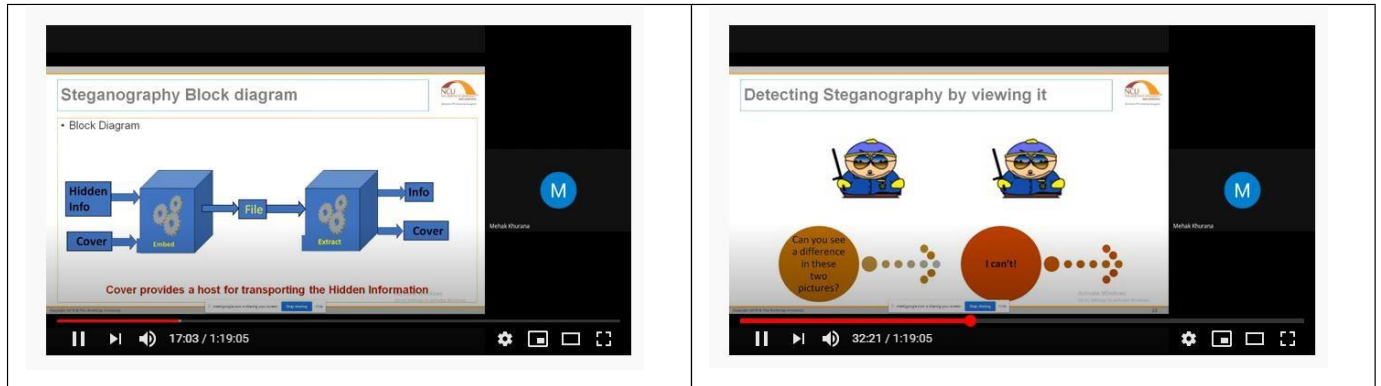
Session 13: Day: Friday, August 28, 2020

Time: 10:00 AM to 11:30 AM

Topic: Image Steganography.

Resource Person: Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana

Snapshot:



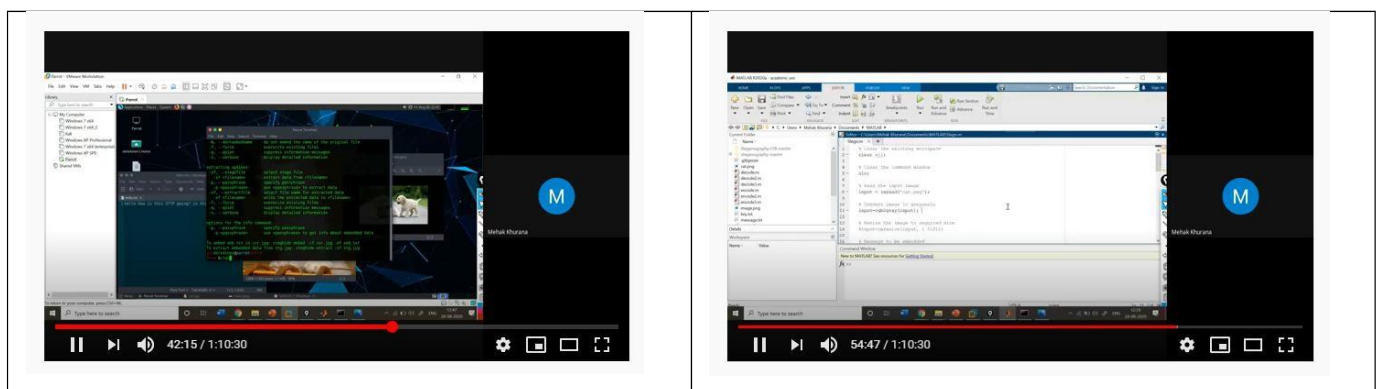
Session `14 Day: Friday, August 28, 2020

Time: 11:45 AM to 01:15 PM

Topic: Hands-On Session - Image Steganography

Resource Person: Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana

Snapshot:



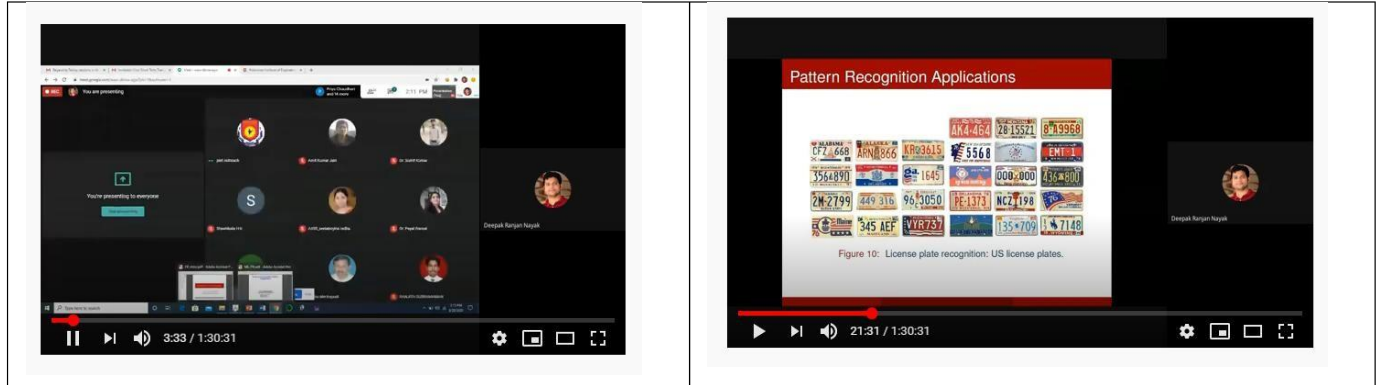
Session 15: Day: Friday, August 28, 2020

Time: 02:00 PM to 03:30 PM

Topic: Introduction to Pattern Recognition

Resource Person: Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur

Snapshot:



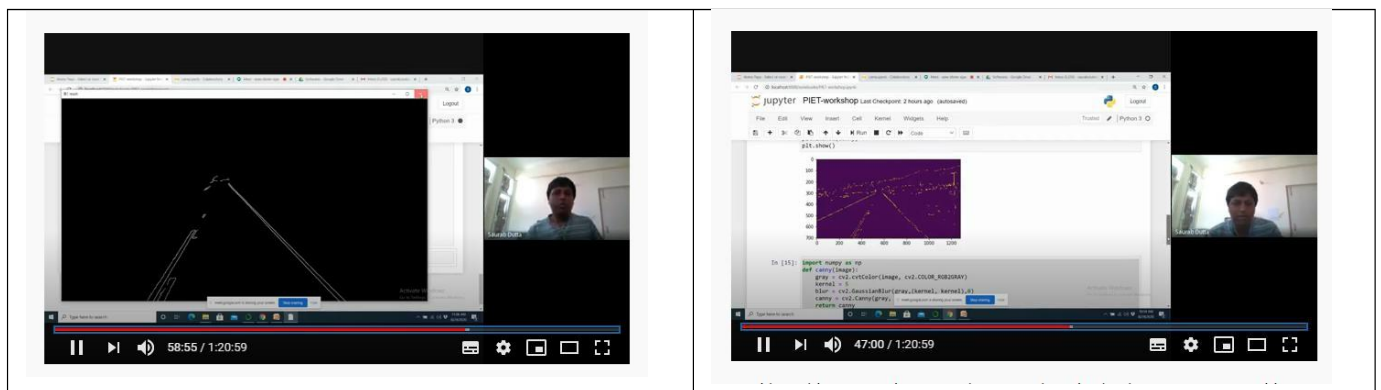
Session 16: Day: Saturday, August 29, 2020

Time: 10:00 AM to 11:30 AM

Topic: Working with Canny Edge Detection Gaussian Blurring in Image including Hands on

Resource Person: Mr. Saurabh Dutta Assistant Professor, Poornima University Jaipur.

Snapshot:



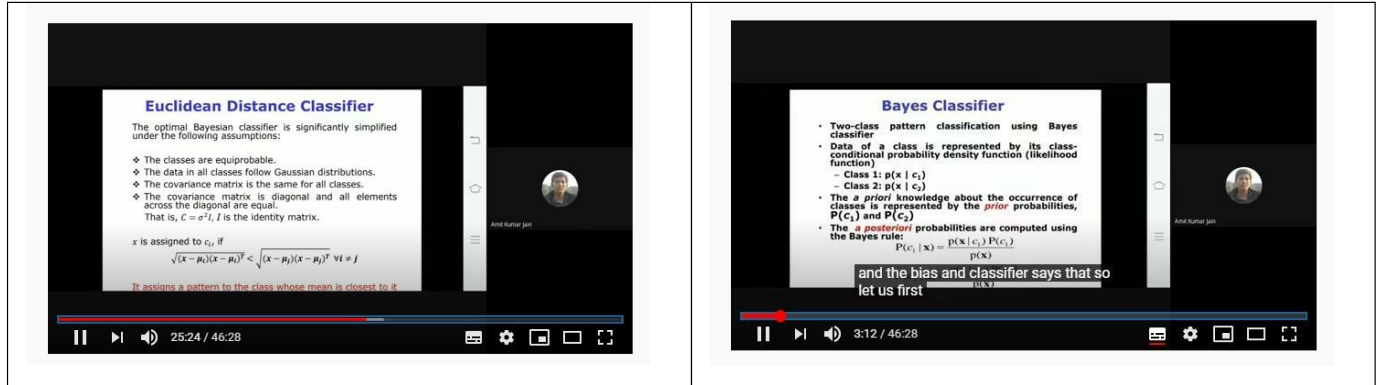
Session 17: Day: Saturday, August 29, 2020

Time: 11:45 AM to 01:15 PM

Topic: Hands-On Session Pattern Recognition

Resource Person: Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur

Snapshot:



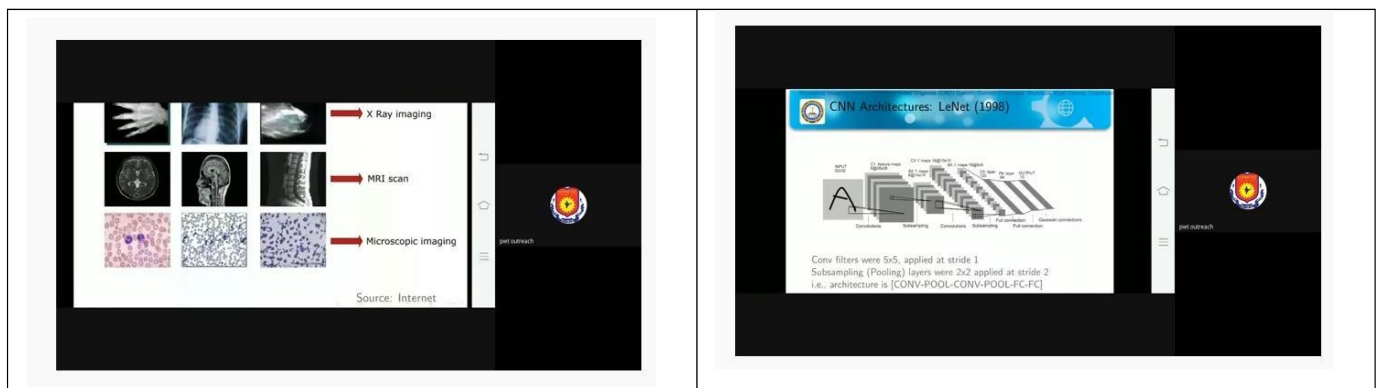
Session 18: Day: Saturday, August 29, 2020

Time: 02:00 PM to 03:30 PM

Topic: Medical imaging

Resource Person: Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur

Snapshot:



7. Video links:

S.NO.	SESSION NAME	YOUTUBE LINK
1.	Introduction to Digital Image Processing By Dr. Preety Singh Assistant Professor, LNMIIT Jaipur	https://youtu.be/yS2G9h_xOXQ
2.	Hands-On Session Open CV and Image Library Packages By Ms. Saroj Agrawal Asst. Prof. M.C.C. Jaipur	https://youtu.be/d9gODOQ7PHrA
3.	Applications of Digital Image Processing By Dr. Abhimanyu Singh Garhwal, AgResearch, New Zealand	https://youtu.be/EcZaJNX5qHM
4.	Hands-on Session on Rescaling, Random noise, color inversion, image transformation By: Ms. Shubhra Dalakoti Process Manager, American Express	https://youtu.be/t3uvQM7VB0M
5.	Understanding the image arithmetic and logical functions Including Hands On Practice By: Mr. Ashutosh Tiwari, Software Engineer, Optimus Information	https://youtu.be/T9KqNJUJ7Fc
6.	Image enhancement, Restoration and Segmentation By: Dr. Vivek Kumar Verma, Asst. Prof. Manipal University	https://youtu.be/4v8GoRpSZmU
7.	Image filters By: Dr. Pratistha Mathur, Professor Manipal University Jaipur	https://youtu.be/SdNb_9TbCf4
8.	Hands-On Session Image Segmentation & Filters By: Ms. Shubhra Dalakoti Process Manager, American Express	https://youtu.be/Q8WtNr5kp-4
9.	Noise reduction in images By: Dr Pratistha Mathur Professor Manipal University Jaipur	https://youtu.be/T96cdPo-FjY
10.	Image Morphology and Compression. By: Dr. Preety Singh Assistant Professor, LNMIIT Jaipur	https://youtu.be/398yKglhby8
11.	Hands-On Session Image Morphology and Compression By: Dr. Preety Singh Assistant Professor, LNMIIT Jaipur	https://youtu.be/jDQOspVytZk
12.	Image Cryptography By: Dr. Munesh Chandra Associate Professor, NIT Agartala	https://youtu.be/AKN0wepGw_0
13.	Image Steganography By: Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana	https://youtu.be/AQBZKPKtvII
14.	Hands-On Session - Image Steganography By: Dr. Mehak Khurana Asst. Prof. The North Cap University, Gurugram	https://youtu.be/8OWcj0CIohI
15.	Introduction to Pattern Recognition By: Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur	https://youtu.be/fwEDYzrukQ4
16.	Working with Canny Edge Detection Gaussian Blurring in Image By: Mr. Saurabh Dutta Asst. Prof. PU Jaipur	https://youtu.be/ufGuU9mte98
17.	Hands-On Session Pattern Recognition By: Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur	https://youtu.be/g9JOza8nGk4
18.	Medical imaging By: Dr. Deepak Ranjan Nayak Assistant Professor, MNIT Jaipur	https://youtu.be/kEloFzwZxBI

8. List of participants:

NAME	E-MAIL ID	DESIGNATION
Mr. Abhishek Dadhich	abhishek.dadhich@poornima.org	Assistant Professor
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Ms. Shefali Sharma	shefalisharma888@gmail.com	Assistant Professor
Mr. Rahul Gupta	rahulgupta.043@poornima.org	Assistant Professor
Ms. Vanitha.G	vanithaphd19@gmail.com	Research Scholar (Ft)
Dr. Rekha Jain	rekha.jain@poornima.org	Professor
Ms. Priyanka Sharma	priyanka.sharma87@poornima.org	Assistant Professor
Dr. Garima Mathur	drg.mathur@poornima.org	Professor
Ms. Reena Sharma	reena.sharma@poornima.org	Assistant Professor
Mr. Gaurav Saxena	gaurav.saxena@poornima.org	Assistant Professor
Mr. Vikram Khandelwal	vikram.khandelwal@poornima.org	Assistant Professor
Mr. Santosh Kumar Singh	santosh.trinity17@gmail.com	Assistant Professor
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Dr. Anil Kumar	anilkumar@poornima.org	Associate Professor

9. Result:

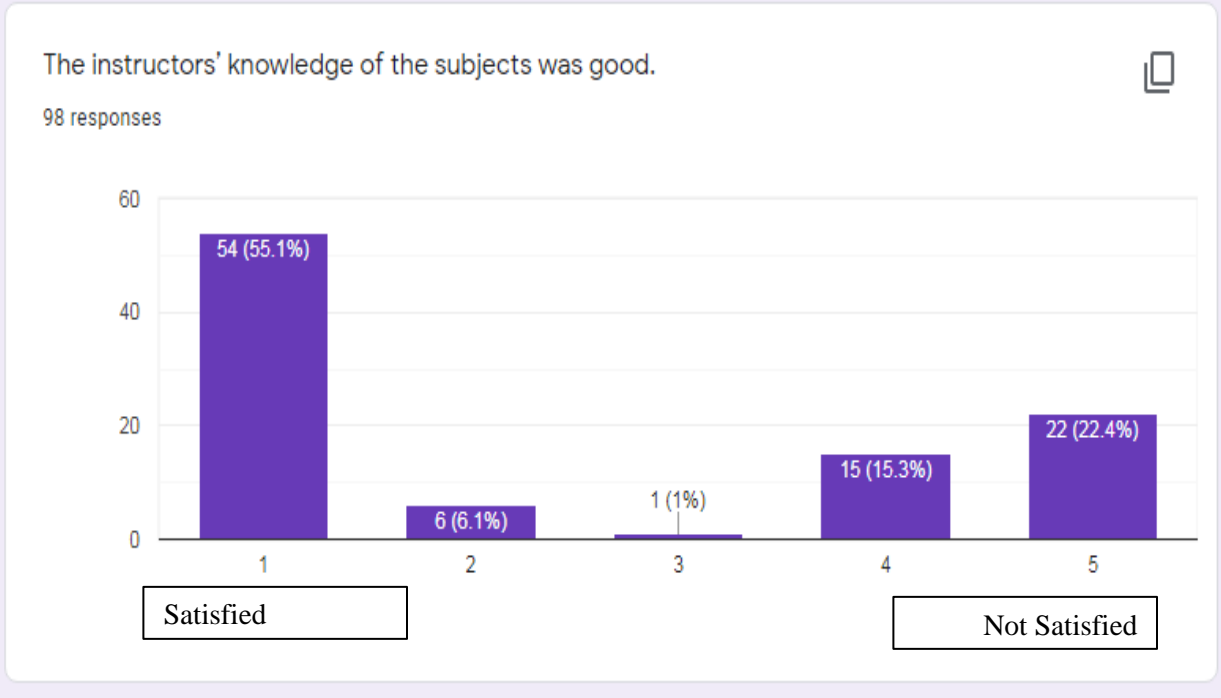
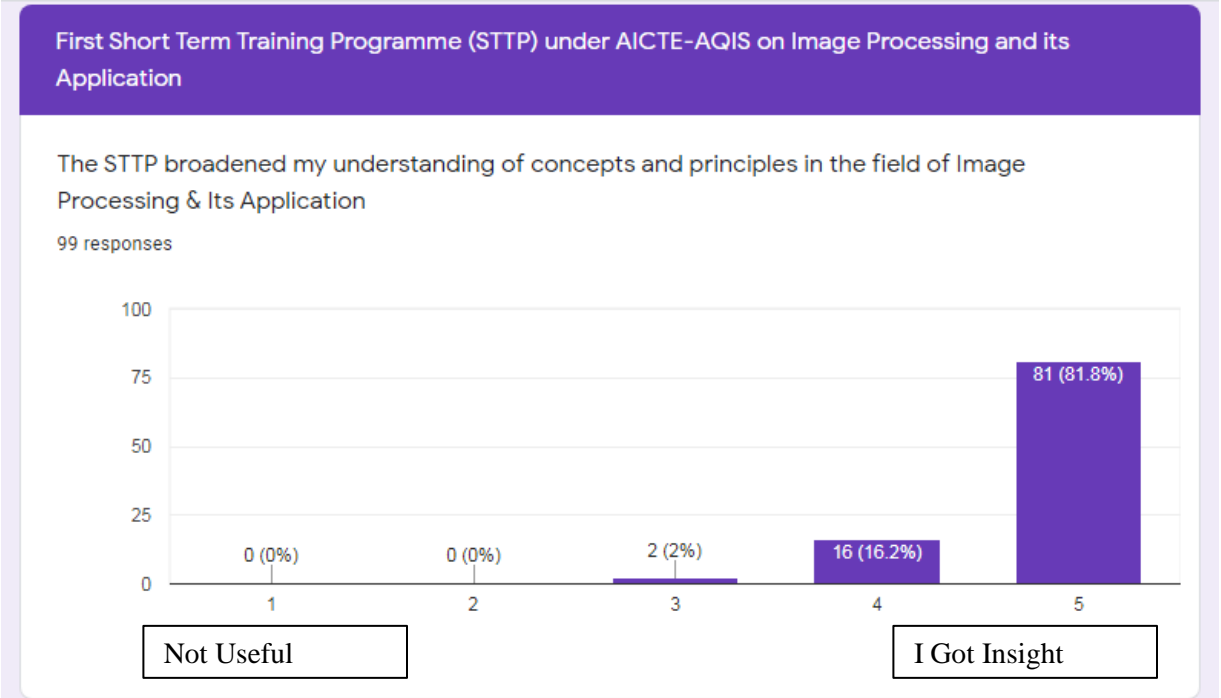
S.NO.	NAME	MARKS(40)
1	Mr. Abhishek Dadhich	25
2	Mr. Devender Kumar Dhaked	32
3	Ms. Shefali Sharma	33
4	Mr. Rahul Gupta	23
5	Ms. Vanitha.G	23
6	Dr. Rekha Jain	23
7	Ms. Priyanka Sharma	34
8	Dr. Garima Mathur	29
9	Ms. Reena Sharma	18
10	Mr. Gaurav Saxena	19
11	Mr. Vikram Khandelwal	16
12	Mr. Santosh Kumar Singh	8
13	Ms. Manisha Kumawat	18
14	Dr. Payal Bansal	17
15	Mr. Sumit Kushwaha	36
16	Mr. Aniket Shahade	19
17	Mr. Saikumar Tara	34
18	Ms. Sridevi Gangina	33
19	Ms. Abhilasha Vyas	30
20	Ms. Poonam Sharma	37

21	Mr. Aman Dureja	19
22	Dr. P Chandra Sekhar Reddy	14
23	Dr. Jampani Chandra Sekhar	33
24	Dr. Sailesh Iyer	26
25	Ms. Seelaboyina Radha	35
26	Mr. Shivanand Bhimashankar Konade	14
27	Mr. Seshaiiah M	25
28	Dr. Balajee Maram	35
29	Ms. Sushila Vishnoi	32
30	Dr. Raghavendra Patidar	34
31	Mr. Ranjith S	29
32	Mr. Mahesh Madhukar Mahajan	36
33	Mr. Ramagiri Kiran	12
34	Mr. Shankar G	32
35	Dr. Ankur Biswas	37
36	Ms. Desiree Juby Vincent	38
37	Dr. Jagannath Nirmal	19
38	Mr. M Sreedhar Reddy	19
39	Dr. A Nagesh	27
40	Ms. Krishna Gupta	27
41	Ms. Damini Yuvraj Deore	36
42	Dr. Kavitha S	32
43	Mr. Raj Jaiswal	37
44	Mr. Mayank Kumar Jain	16
45	Dr. Anuradha T	33
46	Mr. Abdul Alim	15
47	Mr. Amar Ranjan Dash	37
48	Ms. Baishnobi Dash	37
49	Mr. T Mukthar Ahamed	37
50	Ms. Mereena John	24
51	Dr. Chengathir Selvi Murugesan	37
52	Dr. Mohanjeet Singh	35
53	Mr. Sameer Saxena	13
54	Mr. Balachandran.G	30
55	Mr. Raghavendar Raju L	19
56	Dr. Sasikumar Gurumoorthy	22
57	Mr. M. Praveen Kumar	37
58	Ms. Palanimeera J	26
59	Dr. P.Malliga	31
60	Mr. Vanga Karunakar Reddy	29
61	Dr. Pankaj Bhambri	12

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63	Dr. Nirmalrani V	24
64	Ms. Aakanksha Jain	26
65	Mr. Ganeshkumar M	29
66	Mr. Suman Chatterjee	31
67	Mr. Amit Kumar Jain	31
68	Ms. Shashikala H K	32
69	Mr. Krishnarao Patwari	20
70	Dr. Pankaj Dadhich	34
71	Ms. Belina. N	30
72	Mr. Bhagavathi Santoskumar	21
73	Dr. Sumit Kumar	11
74	Ms. Chapala Maharana	28
75	Ms. Pooja Sharma	37
76	Ms. Priya Dilip Chaudhari	35
77	Ms. Gouri Khadabadi	26
78	Dr. Sreenadh Chevula	10
79	Dr. Megha Gupta	27
80	Ms. Swati Srivastava	34
81	Dr. Sandip D Satav	31
82	Ms. Rashmi Tallalli	19
83	Mr. Sanjeev Kumar Mittal	9
84	Mr. Gaurav R Agrawal	33
85	Ms. Seeta Gupta	20
86	Ms. Archana Vinayak Gangurde	11
87	Ms. Malathi Freetham	11
88	Mr. Sandeep Tuli	31
89	Ms. Nidhi Periwal	16
90	Ms. Shruti Bijawat	37
91	Mr. Manish Mathuria	34
92	Mr. Manish Bhardwaj	26
93	Mr. Chandan Kumar Dubey	37
94	Mr. Deepak Moud	34
95	Dr. Anil Kumar	25
96	Ms. Anitha E	27
97	Mr. Chintoju Sidhardha	32
98	Mr. Dinesh Jain	17
99	Dr. Chander Mohan Associate Professor	14
100	Dr. Pokkuluri Kiran Sree	14
101	Dr. Pokkuluri Kiran Sree	10
102	Dr. S Karkuzhali	21

103	Dr. Sanjay Bhargava	13
104	Dr. Chander Mohan Associate Professor	19
105	Mr. Gautam Pal	21
106	Ms. J.Palanimeera	17
107	Dr. Kusum Pandey	27
108	Ms. Lakshmi	20
109	Mr A Venkata Ramana	17
110	Mr. K. Chandra Shekar	36
111	Mr.K.Ravikanth	7
112	Mr. Nagaraju Pamarthi	30
113	Mr. Prasad Prabhakar Mahale	32
114	Ms. Priyanka V Deshmukh	19
115	Mr. Rahool Sekera	25
116	Mr. Ranjith S	29
117	Mr. Shaik Akbar	19
118	Ms. Simran Chhetija	21
119	Dr. Suneet Kumar	12
120	Mr. Uttam Basu	37

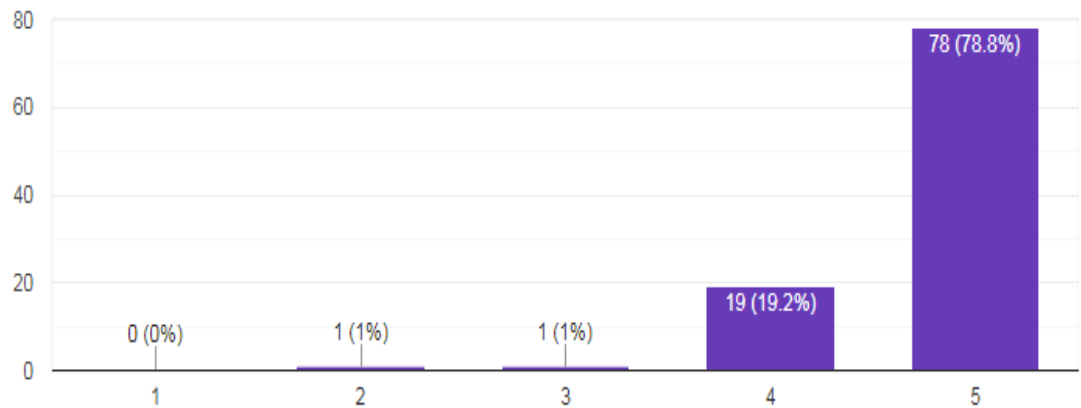
10.Feedback:



The instructors explained the material well.



99 responses



Less Explained

Well Explained

The balance between lectures and hands-on sessions was optimal.



99 responses



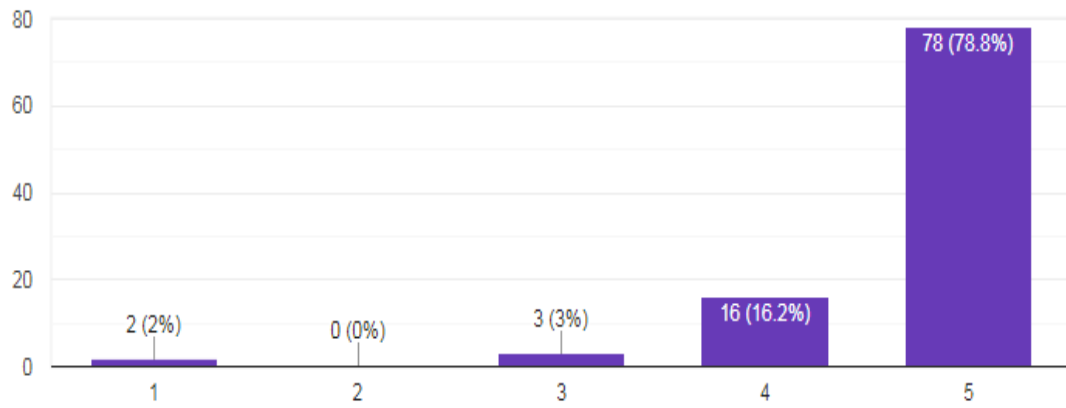
Yes

No

STTP handouts Were clear and well-organized.



99 responses



Not Useful

Well Organized

11. Annexure:

11.1 STTP Certificate

**AICTE-AQIS Sponsored One Week Short Term Training Programme (STTP) on
Image Processing and its Application**

August 24-29, 2020

Organized by



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INSTITUTE OF ENGINEERING & TECHNOLOGY
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AICTE Quality Improvement Scheme (AQIS)

Appreciation Certificate

This certificate is awarded to Dr. Vivek Kumar Verma from Manipal University Jaipur for sharing his/her valuable knowledge as a Speaker in the AICTE-AQIS sponsored One Week Short Term Training Programme (STTP) on **Image Processing and its Application** organized by Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur; held from August 24, 2020 to August 29, 2020.



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Coordinator



(Dr. Dinesh Goyal)
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Speakers Certificate

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AICTE Quality Improvement Scheme (AQIS)

Certificate

This is to certify that **SESHAIAH M**
From **SJC INSTITUTE OF TECHNOLOGY CHICKBALLAPUR**
has participated in the AICTE-AQIS sponsored One Week Short Term Training Programme (STTP) on **Image Processing and its Application** organized by Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur; held from August 24, 2020 to August 29, 2020.



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Participant Certificate