



# POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

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

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

On

Image Processing and its Application

Session (2020-2021)



Submitted By: -  
**Dr. PraveenKumar Gupta**  
Coordinator,  
Department of Computer Engineering

Submitted To:-  
**Dr. Dinesh Goyal**  
Director, PIET



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Report

On

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

On

Image Processing and its Application 21<sup>st</sup> –

26<sup>nd</sup> September 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

**September 21-26, 2020**

Sponsored by

Organized by  
**Department of  
Computer Engineering**

**POORNIMA**  
INSTITUTE OF ENGINEERING & TECHNOLOGY

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ABOUT INSTITUTE

Poornima Institute of Engineering & Technology was established in 2007 with the aim of imparting pragmatic technical education. With its fruitful journey of 13 years, PIET has set benchmarks and reached at new premises 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 403 by Rajasthan Technical University under Quality Index Value Framework.
- Accredited with NBA for B.Tech CEG 2018.
- Approved with NBA for B.Tech CCEM 2018.
- NAAC Accredited Institute from 2019.
- National funding received from various Government and Private bodies (AICTE, RTU, IIT, ANAFCT, DESTRON NETWORKS).

ABOUT DEPARTMENT

The Department of Computer Engineering is one of the Best and most diverse departments in the Poornima Foundation as well as in the Rajasthan Technological University, Kota. We offer 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 site 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 150 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 characteristic feature associated with that image. Nowadays, image processing is among rapidly growing technologies. It forms core research areas with engineering and computer science disciplines.

Image processing typically includes the following knowledge:

- Importing the image via image acquisition tools.
- Viewing and manipulating the image.
- Output in which result can be stored image or imported to basic/other 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 imparting 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 Computer Vision
- Image Processing Operations Using Python
- Image enhancement, Restoration and Segmentation
- Introduction to Image Morphology and its implementation
- Image Geoprocessing and Implementation of Stereography
- Video Analysis Implementation
- Image Classification using Artificial Neural Network
- Document Image Classifier using ML
- Convolutional Neural Network for Image Classification
- Image Reconstruction
- Medical Image Analysis
- Moving Object Detection using Deep Learning
- Deep Generative Adversarial Networks Models

INSTRUCTIONS:

- Faculty/Research Scholars from Universities/AICTE recognized Institutions are only eligible.
- No Registration Fee.
- Last Date of Registration: September 19, 2020
- E-Certificates will be provided after successful completion of STTP
- Registration Link: <https://forms.gle/9gXUJwvKw8EBF8>

PATRON

Dr. Dinesh Goyal

Deputy, Poornima Institute of Engineering & Technology

PROGRAM CHAIR

Dr. Gautam Singh

Registrar, Poornima Institute of Engineering & Technology

CO-ORDINATOR

Dr. Praveen Gupta

Professor, Computer Engineering, PIET

CO-COORDINATOR

Mr. Deepak Mead

Assistant Professor, Computer Engineering, PIET

SPEAKERS

<b>Dr. Rajesh Kumar</b> Professor MNIT, Jaipur	<b>Dr. Sumit Srivastava</b> Professor Manipal University
<b>Dr. Meesakshi Arya</b> Professor SRM University	<b>Dr. Manish Shrivastava</b> Consultant, Shell Technology Centre, Paschim, SSC, Bangalore
<b>Dr. Sarvesh Vignarath</b> Assistant Professor MNIT, Jaipur	<b>Dr. Vipul Mishra</b> Assistant Professor, CSE Bennett University
<b>Dr. Kallab Singh</b> Assistant Professor MNIT, Jaipur	<b>Dr. Tejas Sood</b> Assistant Professor, CSE Bennett University
<b>Dr. Mahesh Jangid</b> Assistant Professor, CSE Manipal University	<b>Ms. Shubhra Dasgupta</b> Process Manager American Express
<b>Dr. Pooja Singh</b> Assistant Professor LNMIT Jaipur	<b>Dr. Vivek Kumar Verma</b> Assistant Professor, CSE Manipal University
<b>Mr. Yogendra Singh</b> Co-Founder, Forks Lab	<b>Mr. Praveen Chandoliya</b> Trainer, Sky Inhouse Pvt Ltd

**Dr. Mehak Khanna**  
Assistant Professor, The North Cap University, Gurugram, Haryana

RSVP

Dr. Praveen Gupta

✉ : [piet.outreach@poornima.org](mailto:piet.outreach@poornima.org) • 📞 : 7568748510

## 2. Brief Overview:

<b>Six Days Third Short Term Training Programme (STTP) under AICTE-AQIS on Image Processing and its Application</b>		
<b>Date: September 21-26, 2020</b>	<b>Time-</b>	10:00 AM-11:30 AM 11:45 AM-1:15 PM 2:00 PM-3:30 PM
<b>Mode</b>	<b>Online (Google Meet)</b> Presentation and Hands On Sessions using Google Colab	
<b>Participants Registered</b>	<b>268</b>	
<b>Resource Persons</b>	<b>SPEAKERS</b>	
	1. Dr. Rajesh Kumar, Professor, MNIT, Jaipur	
	2. Dr. Sumit Srivastava Professor, Manipal University	
	3. Dr. Meenakshi Arya, Professor, SRM University	
	4. Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, IISc Bangalore	
	5. Dr. Santosh Vipparthi Assistant Professor, MNIT	
	6. Dr. Vipul Mishra, Professor Bennett University, Professor, MNIT Jaipur	
	7. Dr. Kuldeep Singh Assistant Professor, MNIT, Jaipur	
	8. Dr. Preety Singh, Associate Professor, LNMIIT Jaipur	
	9. Dr. Tapas Badal Assistant Professor, Department of CSE Bennett University	
	10. Dr. Mahesh Jangid Assistant Professor, Department of CSE, Manipal University	
	11. Mr. Yogendra Singh, Co-Founder Forsk Lab	
	12. Mr. Praveen Chandaliya, Trainer, Sdj Infosoft Pvt Ltd	
	13. Ms. Shubhra Dalakoti Process Manager, American Express	
	14. Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana	
15. Dr. Vivek Kumar Verma Assistant Professor Manipal University Jaipur		

### **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 September 21<sup>st</sup> to September 22<sup>nd</sup>, 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'

- 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, IIHT, IMPACT, ZEETRON NETWORKS)

#### **3.2 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, 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:**

1. Introduction to Digital Image Processing and Intelligent systems.
2. Image Steganography and Implementation of Steganography.
3. Image enhancement, Restoration and Segmentation.
4. Introduction to Image Morphology and its implementation.
5. Image Processing Operations Using Python.
6. Natural Language Processing using RNN
7. Image Captioning using Recurrent Neural Network
8. Image Classification using Artificial Neural Network
9. Document Image Classification using ML.
10. Introduction to Convolutional Neural and hands on for image classification
11. Implementation of Transfer Learning for Image Classification.
12. Image Feature Extraction using CNN
13. Convolutional Neural Network for image classification
14. Image Re construction
15. Medical Image Analysis
16. Moving Object Detection using Deep Learning
17. Deep Generative Adversarial Networks Models

#### **a. 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

	9:30 AM-10:00 AM	10:00 AM -11:30 AM	11:45 AM - 01:15 PM	02:00 PM - 03:30 PM
<b>Monday 21.09.2020</b>	Inaugural Session Chief Guest: Dr. Rajesh Kumar Professor, MNIT, Jaipur	Introduction to Digital Image Processing and Intelligent systems Dr. Rajesh Kumar Professor, MNIT, Jaipur	Image Steganography and Implementation of Stegnography Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana	Image enhancement, Restoration and Segmentation. Dr. Vivek Kumar Verma Assistant Professor Manipal University Jaipur
<b>Tuesday 22.09.2020</b>		Introduction to Image Morphology and its implementation. Dr. Preety Singh Associate Professor, LNMIIT Jaipur	Image Processing Operations Using Python Ms. Shubhra Dalakoti Process Manager, American Express	Natural Language Processing using RNN Dr. Mahesh Jangid Assistant Professor, Manipal University
<b>Wednesday 23.09.2020</b>		Image Classification using Artificial Neural Network Dr. Vipul Mishra Professor Bennett University	Document Image Classification using computer vision Dr. Sumit Srivastava Professor, Manipal University	Image Captioning using Recurrent Neural Network Dr. Mahesh Jangid Assistant Professor, Manipal University
<b>Thursday 24.09.2020</b>		Introduction to Convolutional Neural and hands on for image classification Dr. Meenakshi Arya, Professor, SRM University	Implementation of Transfer Learning for Image Classification Mr. Yogendra Singh, Co-Founder Forsk Lab	Image Feature Extraction using CNN Dr. Tapas Badal Assistant Professor, Department of CSE Bennett University
<b>Friday 25.09.2020</b>		Deep Learning for Medical Applications Dr. Kuldeep Singh Assistant Professor, MNIT, Jaipur	Image Reconstruction using Deep learning Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science Bangalore	Implementation of Image Segmentation Using Deep Learning Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science Bangalore
<b>Saturday 26.09.2020</b>		Moving Object Detection using Deep Learning Dr. Santosh Vipparthi Assistant Professor, MNIT	Introduction to Deep Generative Adversarial Networks Models Mr. Praveen Chandaliya, Sdj Infosoft Pvt Ltd	Implementation of Face Ageing & Face Alteration using Deep Generative Models(Autoencoders) Mr. Praveen Chandaliya, Sdj Infosoft Pvt Ltd

## 5. Q-Sheet of Inaugural Function



### Third Short Term Training Programme (STTP) under AICTE-AQIS on Image Processing and its Application from September 21-26, 2020

#### Q-Sheet – Inaugural Function

Day & Date: **Monday, 21/09/2020**

Time: **9.30 AM-10.00 AM**

Online Link: <https://meet.google.com/zzz-buef-uuf>

Time	Activity	Presenter
9.25 AM-9.30 AM	Arrival of Dignitaries and Faculty members Online	
9.30 AM-9.35 AM	Welcoming Guest 1. Dr. Rajesh Kumar Professor, MNIT, Jaipur 2. Dr. Dinesh Goyal, Principal & Director, PIET 3. Dr. Gautam Singh, Registrar, PIET 4. Dr. Praveen Gupta, Coordinator, STTP	Hosted & Anchored by Mr. Deepak Moud , Co-Coordinator STTP
9.35 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. Rajesh Kumar Professor, MNIT, Jaipur
9.55 AM-10.00 AM	Vote of Thanks	Dr. Praveen Gupta, Professor, CSE Department, PIET

## **5.1 Inaugural Session**

**Monday, 7/09/2020**

**Time: 9:30 AM to 10:00 AM**

The Inaugural Function for Third Short Term Training Programme (STTP) under AICTE-AQIS on Image Processing and its Application organized by Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur organized on Monday, 21/09/2020 at 9.30 AM-10.00 AM.

**Ms. Deepak Moud, Co-Coordinator STTP** welcomed all the Dignitaries & Faculty members.

**Dr. Dinesh Goyal, Director, PIET** welcomed all the participants & shared the success stories of institution in terms of NAAC & NBA accreditation programme.

**Dr. Rajesh Kumar, Chief Guest** HOD Professor, MNIT explained the importance of image processing & use of innovative practices in the field of computer engineering. He has introduced latest applications & practices in the area of AI, Image processing & deep learning.

**Dr. Praveen Gupta**, Professor, CSE Department, PIET has conveyed thanks note to AICTE-AQIS , management of Poornima Institute of Engineering & Technology, Department Organizing Team, HOD, Dy. HOD Dept. of CSE, PIET , all dignitaries , invited speakers & participants.

## 5.2 Snapshots



*Chief Guest. Dr Rajesh Kumar*



*Dr. Praveen Gupta, Coordinator*



*Dr. Dinesh Goyal, Principal*



*Deepak Moud, Co-coordinator*

## 6. Technical Session Detail:

**Session 1: Day: Monday 21.09.2020**

**Time:** 10:00 AM to 11:30 AM

**Topic-**Introduction to Digital Image Processing and Intelligent systems

**Resource Person-**Dr. Rajesh Kumar Professor, MNIT, Jaipur

**Snapshot:**



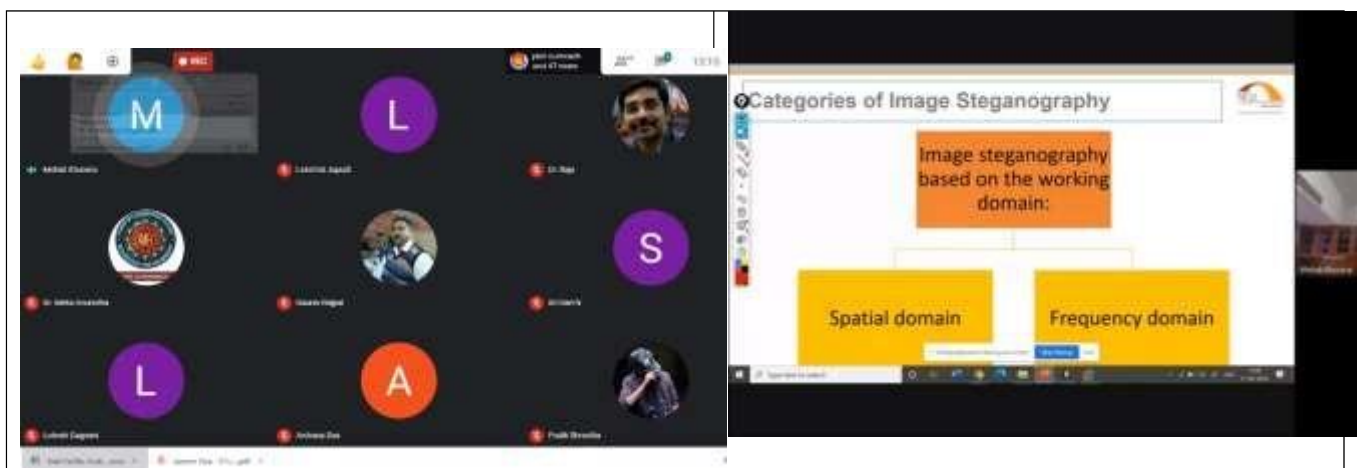
**Session 2: Day: Monday 21.09.2020**

**Time:** 11:45 AM to 01:15 PM

**Topic-**Image Steganography and Implementation of Steganography

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

**Snapshot:**



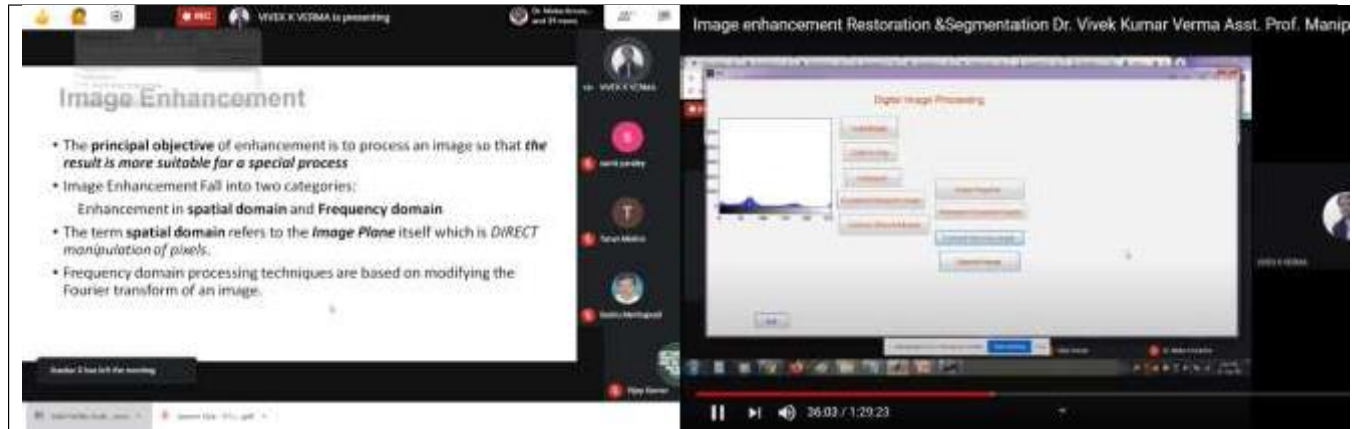
**Session 3: Monday 21.09.2020**

**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:**



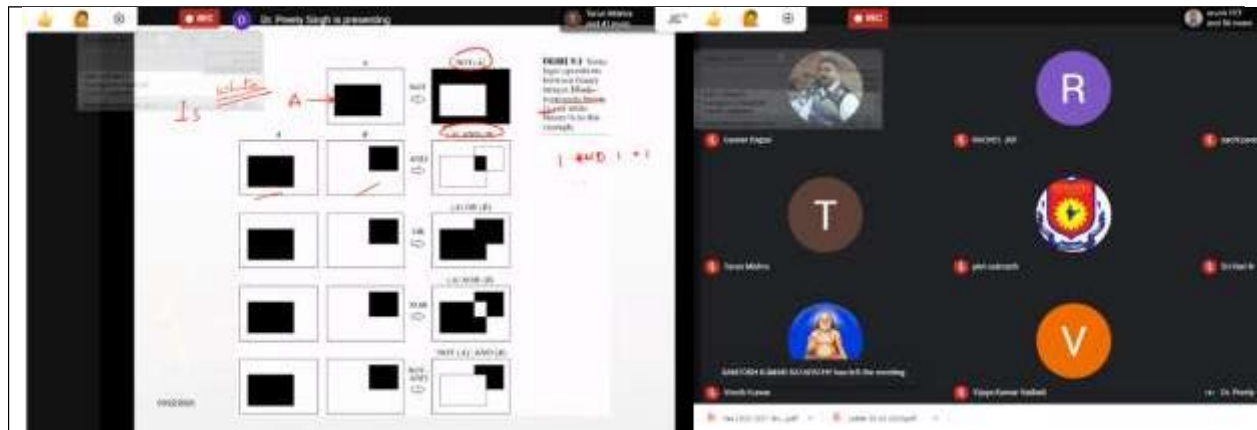
**Session 4: Day: Tuesday 22.09.2020**

**Time:** 10:00 AM to 11:30 AM

**Topic-**Introduction to Image Morphology and its implementation.

**Resource Person-**Dr. Preeti Singh Associate Professor, LNMIIT Jaipur

**Snapshot:**



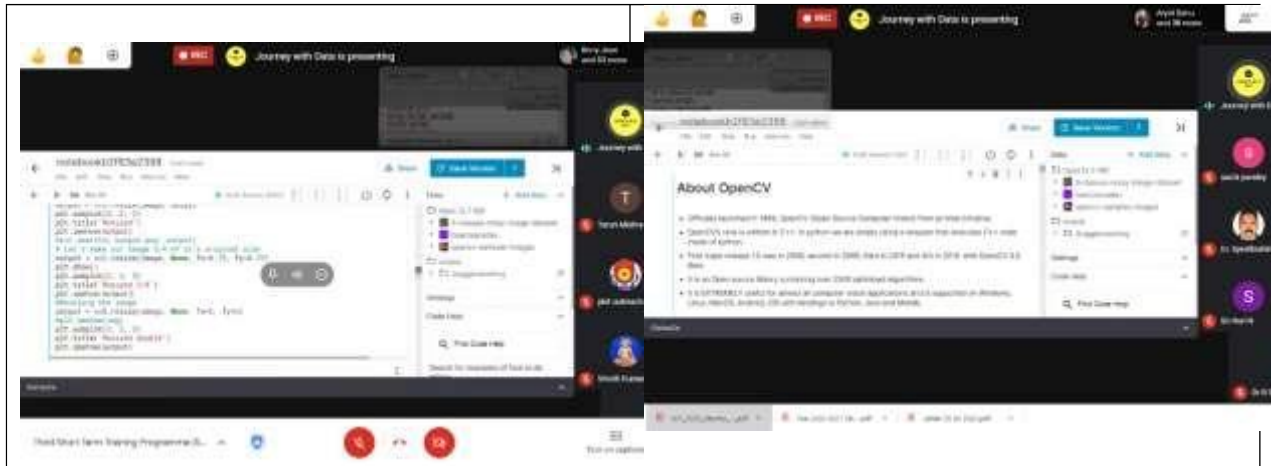
**Session 5: Day: Tuesday 22.09.2020**

**Time:** 11:45 AM to 01:15 PM

**Topic-**Image Processing Operations Using Python

**Resource Person-**Ms. Shubhra Dalakoti Process Manager, American Express.

**Snapshot:**



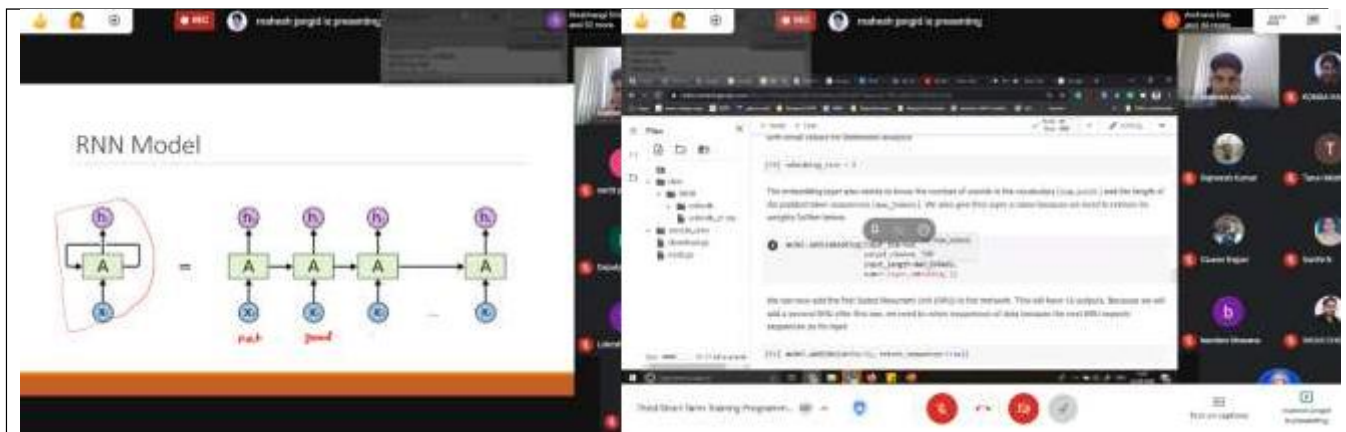
**Session 6: Day: Tuesday 22.09.2020**

**Time:** 02:00 PM to 03:30 PM

**Topic:** Natural Language Processing using RNN

**Resource Person -**Dr. Mahesh Jangid Assistant Professor, Manipal University

**Snapshot:**



## Session 7: Day: Wednesday, 23.09.2020

**Time:** 10:00 AM to 11:30 AM

**Topic:** Image Classification using Artificial Neural Network

**Resource Person** -Dr. Vipul Mishra Professor Bennett University

**Snapshot:**



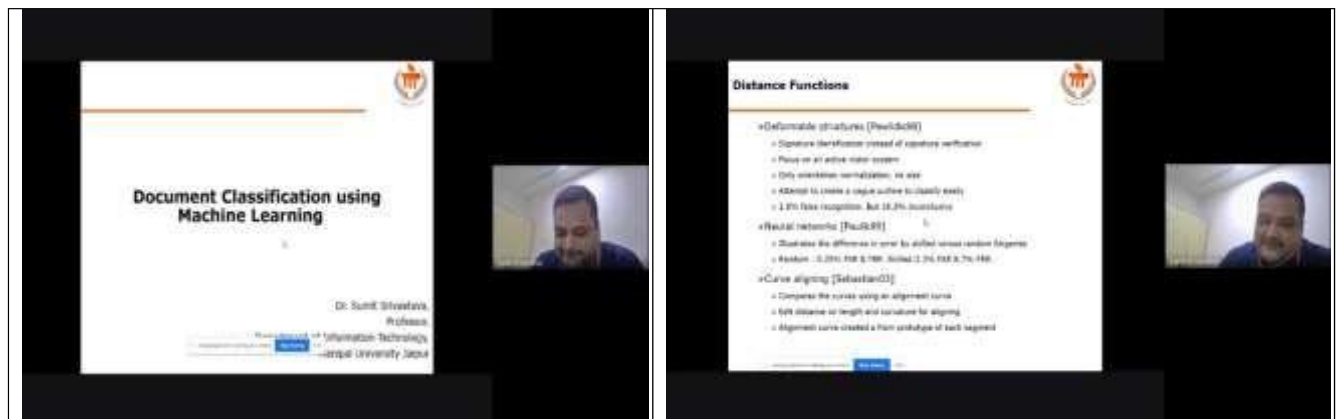
## Session 8: Day: Wednesday, 23.09.2020

**Time:** 11:45 AM to 01:15 PM

**Topic:** Document Image Classification using computer vision

**Resource person:**Dr. Sumit Srivastava Professor, Manipal University

**Snapshot:**



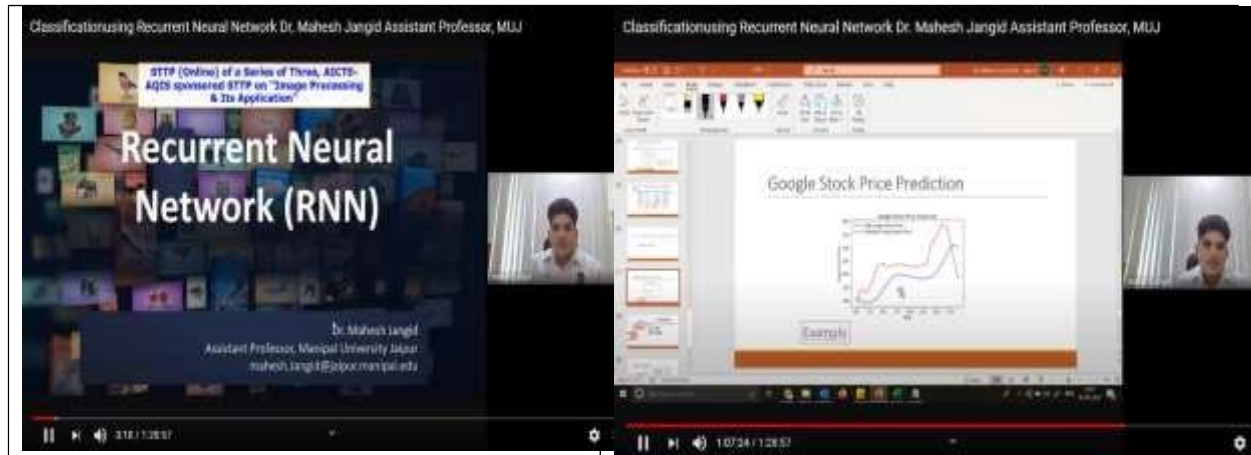
**Session 9: Day: Wednesday, 23.09.2020**

**Time:** 02:00 PM to 03:30 PM

**Topic:** Image Captioning using Recurrent Neural Network

**Resource Person:**Dr. Mahesh Jangid Assistant Professor, Manipal University

**Snapshot:**



**Session 10: Day: Thursday, September 24, 2020**

**Time:** 10:00 AM to 11:30 AM

**Topic:** Introduction to Convolutional Neural and hands on for image classification

**Resource Person** -Dr. Meenakshi Arya, Professor, SRM University

**Snapshot:**



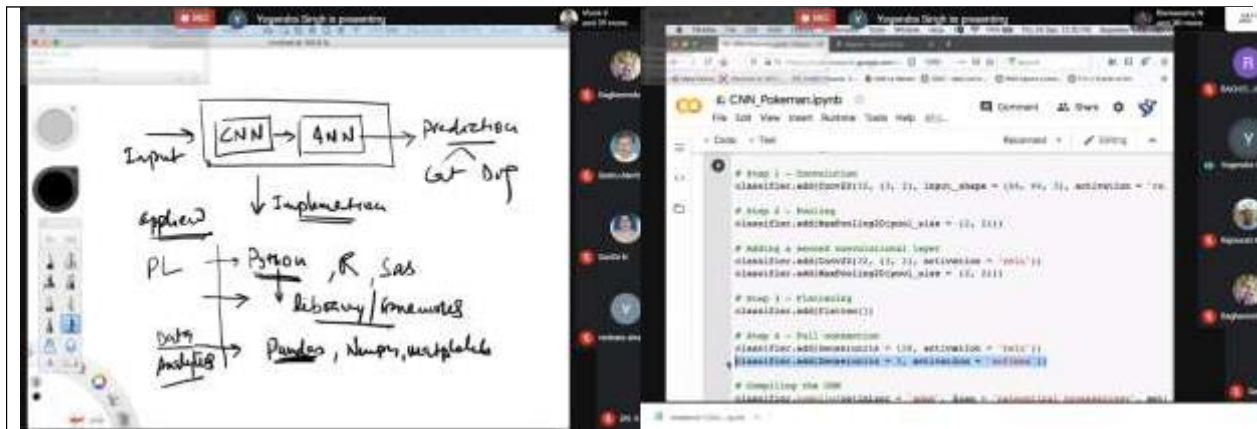
## Session 11: Day: Thursday, September 24, 2020

Time: 11:45 AM to 01:15 PM

Topic: Implementation of Transfer Learning for Image Classification

Resource Person -Mr. Yogendra Singh, Co-Founder Forsk Lab

Snapshot:



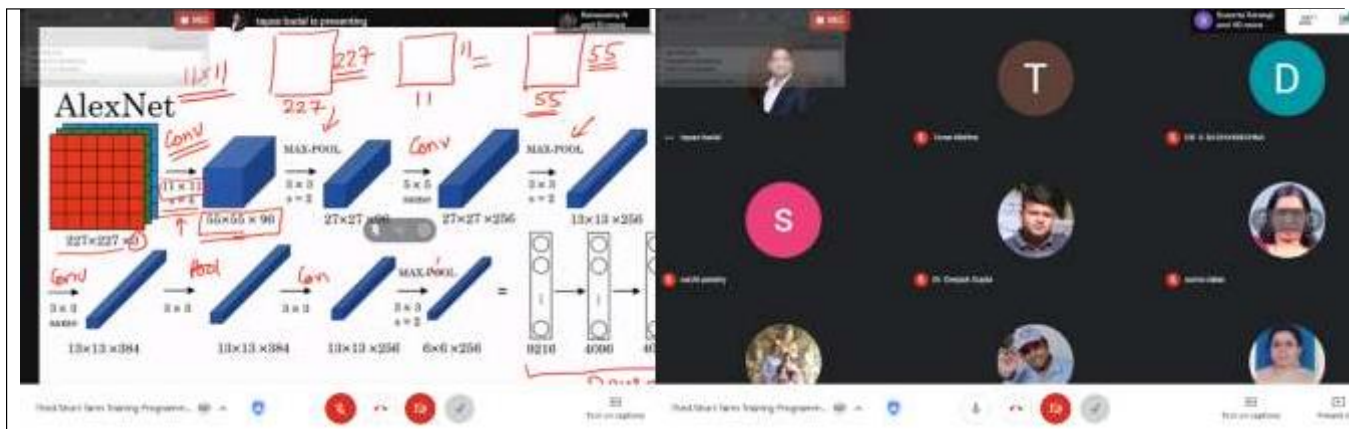
## Session 12: Day: Thursday, September 24, 2020

Time: 02:00 PM to 03:30 PM

Topic: Image Feature Extraction using CNN

Resource Person -Dr. Tapas Badal Assistant Professor, Department of CSE Bennett University.

Snapshot:



## Session 13: Day: Friday, September 25, 2020

**Time:** 10:00 AM to 11:30 AM

**Topic:** Deep Learning for Medical Applications

**Resource Person** Dr. Kuldeep Singh Assistant Professor, MNIT, Jaipur

**Snapshot:**



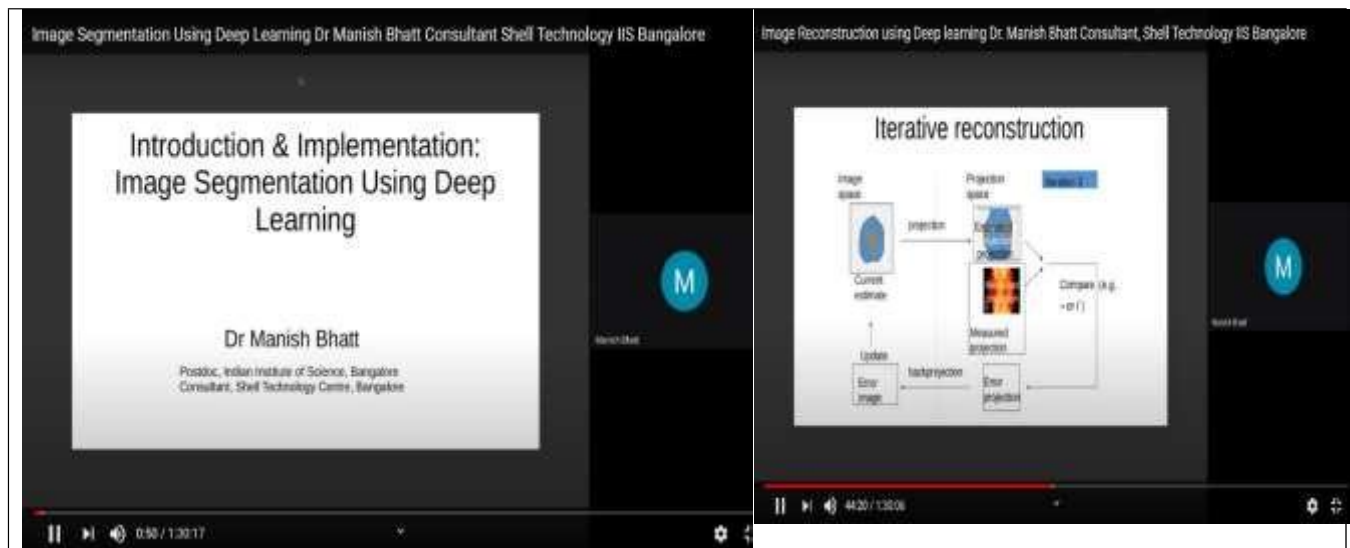
## Session `14Day: Friday, September 25, 2020

**Time:** 11:45 AM to 01:15 PM

**Topic:** Image Reconstruction using Deep learning

**Resource Person** Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science Bangalore

**Snapshot:**



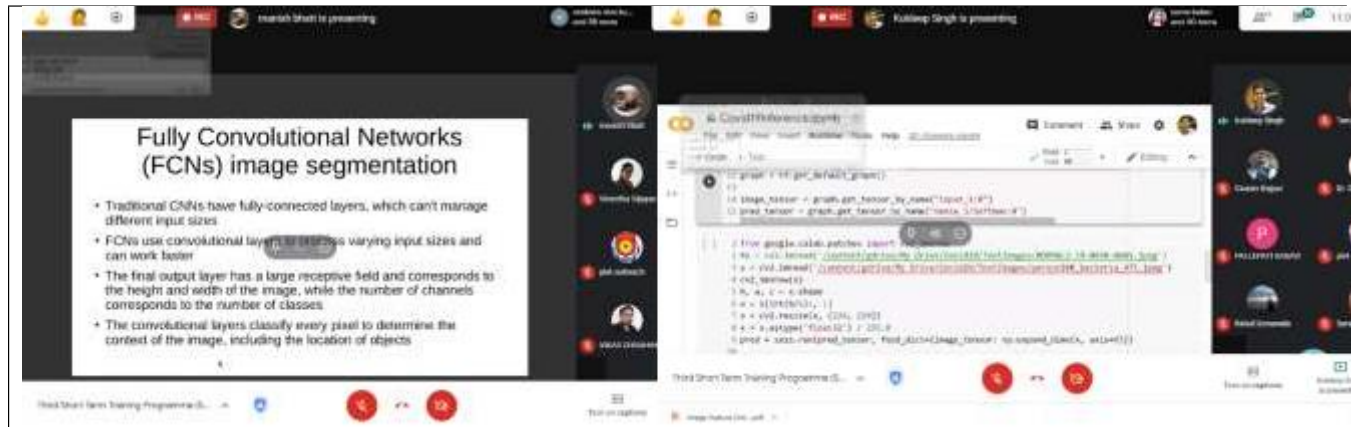
## Session 15: Day: Friday, September 25, 2020

**Time:** 02:00 PM to 03:30 PM

**Topic** Implementation of Image Segmentation Using Deep Learning

**Resource Person** Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science Bangalore

**Snapshot:**



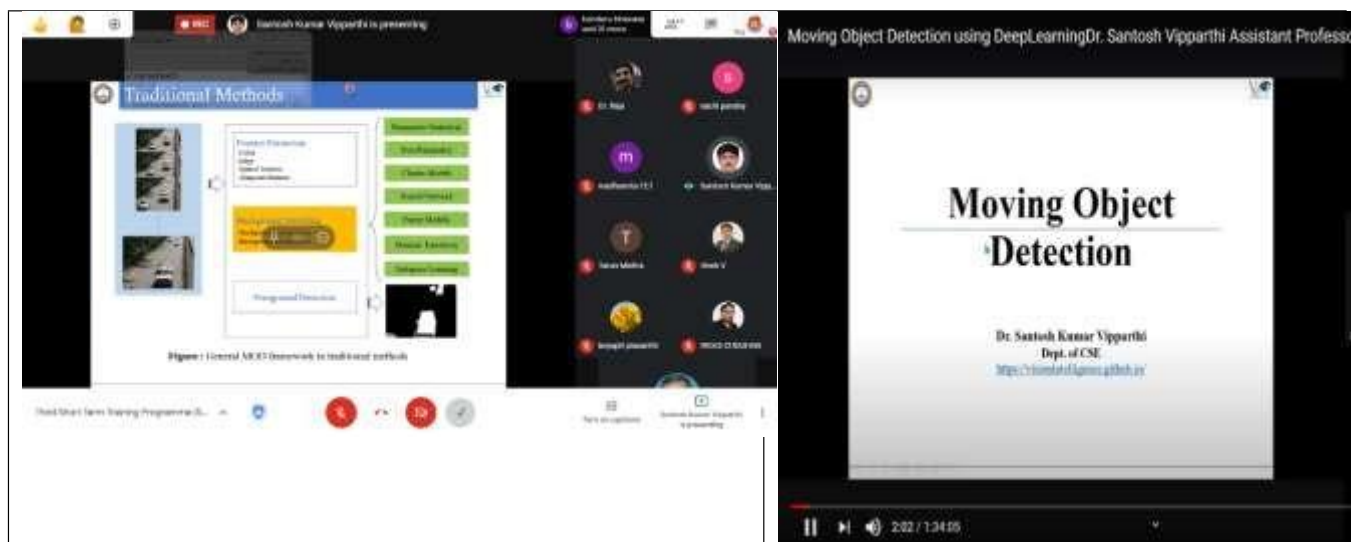
## Session 16: Day: Saturday, September 26, 2020

**Time:** 10:00 AM to 11:30 AM

**Topic:** Moving Object Detection using Deep Learning

**Resource Person** -Dr. Santosh Vipparthi Assistant Professor, MNIT, Jaipur

**Snapshot:**



## Session 17: Day: Saturday, September 26, 2020

**Time:** 11:45 AM to 01:15 PM

**Topic:** Introduction to Deep Generative Adversarial Networks Models

**Resource Person** Mr. Praveen Chandaliya,  
Sdj Infosoft Pvt Ltd

**Snapshot:**



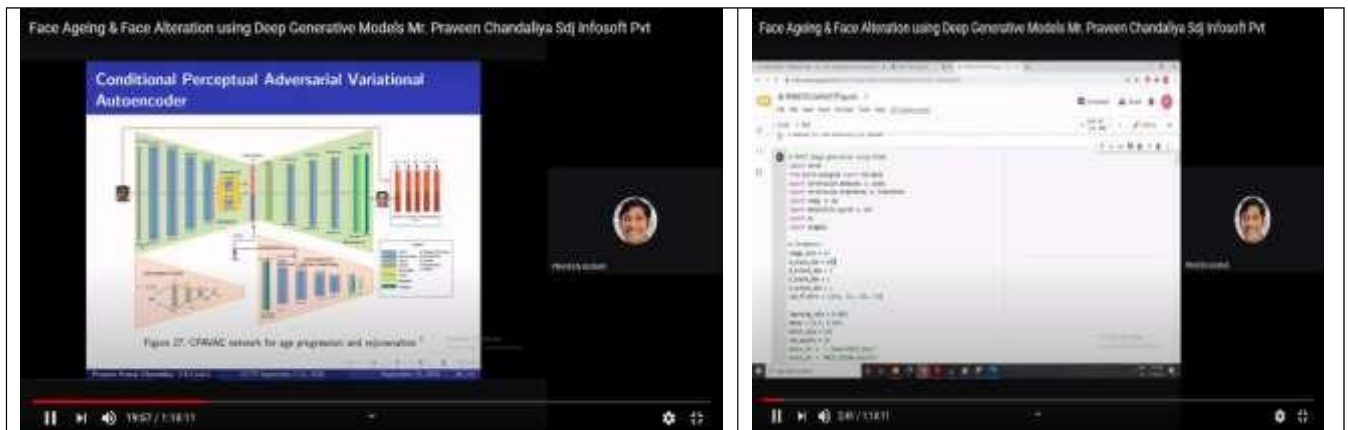
## Session 18: Day: Saturday, September 26, 2020

**Time:** 02:00 PM to 03:30 PM

**Topic:** Implementation of Face Ageing & Face Alteration using Deep Generative Models (Autoencoders)

**Resource Person** Mr. Praveen Chandaliya, Sdj Infosoft Pvt Ltd

**Snapshot:**



## 6. Video links:

### 5.1 Poornima Group You Tube TV

<u>Technical Session Title</u>	<u>link</u>
1. Introduction to Digital Image Processing and Intelligent systems Dr. Rajesh Kumar , Professor, MNIT Jaipur	<a href="https://youtu.be/PF9OOWg2aPg">https://youtu.be/PF9OOWg2aPg</a>
2. Image Steganography and Implementation of Stegnography Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana	<a href="https://youtu.be/4MZO6-xkeFI">https://youtu.be/4MZO6-xkeFI</a>
3. Image enhancement, Restoration and Segmentation. Dr. Vivek Kumar Verma Assistant Professor Manipal University Jaipur	<a href="https://youtu.be/uvTIc9w9a7Y">https://youtu.be/uvTIc9w9a7Y</a>
4. Introduction to Image Morphology and its implementation. Dr. Preety Singh, Assistant Professor, LNMIIT Jaipur	<a href="https://youtu.be/ftQMBJ2suwU">https://youtu.be/ftQMBJ2suwU</a>
5. Image Processing Operations Using Python Ms. Shubhra Dalakoti Process Manager, American Express	<a href="https://youtu.be/-r08zdCLtW4">https://youtu.be/-r08zdCLtW4</a>
6. Natural Language Processing using RNN Dr. Mahesh Jangid Assistant Professor, Manipal University	<a href="https://youtu.be/cJeCXFfbLLc">https://youtu.be/cJeCXFfbLLc</a>
7. Image Classification using Artificial Neural Network Dr. Vipul Mishra, Professor, Bennett University	<a href="https://youtu.be/kTqeQgiJY1c">https://youtu.be/kTqeQgiJY1c</a>
8. Document Image Classification using computer vision Dr. Sumit Srivastava, Professor, Manipal University	<a href="https://youtu.be/eyVSbw-u-wo">https://youtu.be/eyVSbw-u-wo</a>
9. Image Captioning using Recurrent Neural Network Dr. Mahesh Jangid Assistant Professor, Manipal University	<a href="https://youtu.be/JIuVqxVBfkM">https://youtu.be/JIuVqxVBfkM</a>
10. Introduction to Convolutional Neural and hands on for image classification Dr. Meenakshi Arya, Professor, SRM University	<a href="https://youtu.be/qUO7ntq8_WI">https://youtu.be/qUO7ntq8_WI</a>
11. Implementation of Transfer Learning for Image Classification Mr. Yogendra Singh, Co-Founder Forsk Lab	<a href="https://youtu.be/V82n28b-PP0">https://youtu.be/V82n28b-PP0</a>
12. Image Feature Extraction using CNN Dr. Tapas Badal , Assistant Professor, Department of CSE Bennett University	<a href="https://youtu.be/IVUS7thQX3A">https://youtu.be/IVUS7thQX3A</a>
13. Deep Learning for Medical Applications Dr. Kuldeep Singh Assistant Professor, MNIT, Jaipur	<a href="https://youtu.be/dEKkVIQXx6g">https://youtu.be/dEKkVIQXx6g</a>

14. Image Reconstruction using Deep learning Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science	<a href="https://youtu.be/MDA67C1ixHQ">https://youtu.be/MDA67C1ixHQ</a>
15. Implementation of Image Segmentation Using Deep Learning Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science	<a href="https://youtu.be/4laQ_eneHg0">https://youtu.be/4laQ_eneHg0</a>
16. Moving Object Detection using Deep Learning Dr. Santosh Vipparthi, Assistant Professor, MNIT	<a href="https://youtu.be/ND66br9zM3Y">https://youtu.be/ND66br9zM3Y</a>
17. Introduction to Deep Generative Adversarial Networks Models Mr. Praveen Chandaliya, Sdj Infosoft Pvt Ltd	<a href="https://youtu.be/Amb-Vybfnos">https://youtu.be/Amb-Vybfnos</a>
18. Implementation of Face Ageing & Face Alteration using Deep Generative Models(Autoencoders) Mr. Praveen Chandaliya, Sdj Infosoft Pvt Ltd	<a href="https://youtu.be/CoUBK-JDxi4">https://youtu.be/CoUBK-JDxi4</a>

## 5.2 Department of Computer Engineering Channel

<b>Technical Session Title</b>	<b>Youtube link</b>
1. Introduction to Digital Image Processing and Intelligent systems Dr. Rajesh Kumar , Professor, MNIT Jaipur	<a href="https://youtu.be/ETQrW8v-Tq4">https://youtu.be/ETQrW8v-Tq4</a>
2. Image Steganography and Implementation of Stegnography Dr. Mehak Khurana Assistant Professor, The North Cap University, Gurugram, Haryana	<a href="https://youtu.be/eCkQ1uxXR58">https://youtu.be/eCkQ1uxXR58</a>
3. Image enhancement, Restoration and Segmentation. Dr. Vivek Kumar Verma Assistant Professor Manipal University Jaipu	<a href="https://youtu.be/rC1t-chNXRQ">https://youtu.be/rC1t-chNXRQ</a>
4. Introduction to Image Morphology and its implementation. Dr. Preety Singh,Assistant Professor, LNMIIT Jaipur	<a href="https://youtu.be/_eUfw84O8t0">https://youtu.be/_eUfw84O8t0</a>
5. Image Processing Operations Using Python Ms. Shubhra Dalakoti Process Manager, American Express	<a href="https://youtu.be/jgwF9iey8yU">https://youtu.be/jgwF9iey8yU</a>
6. Natural Language Processing using RNN Dr. Mahesh Jangid Assistant Professor, Manipal University	<a href="https://youtu.be/jYXgP4EkSy0">https://youtu.be/jYXgP4EkSy0</a>
7. Image Classification using Artificial Neural Network Dr. Vipul Mishra, Professor, Bennett University	<a href="https://youtu.be/FSK3IT5Cl3w">https://youtu.be/FSK3IT5Cl3w</a>
8. Document Image Classification using computer vision Dr. Sumit Srivastava, Professor,Manipal University	<a href="https://youtu.be/1A4XpAypWN4">https://youtu.be/1A4XpAypWN4</a>
9. Image Captioning using Recurrent Neural Network Dr. Mahesh Jangid Assistant Professor, Manipal University	<a href="https://youtu.be/LGgd1rHnMNc">https://youtu.be/LGgd1rHnMNc</a>
10. Introduction to Convolutional Neural and hands on for	<a href="https://youtu.be/oFHwXQ-ANzY">https://youtu.be/oFHwXQ-ANzY</a>

image classification Dr. Meenakshi Arya, Professor, SRM University	
11. Implementation of Transfer Learning for Image Classification Mr. Yogendra Singh, Co-Founder Forsk Lab	<a href="https://youtu.be/fk1QY8iFqMg">https://youtu.be/fk1QY8iFqMg</a>
12. Image Feature Extraction using CNN Dr. Tapas Badal , Assistant Professor, Department of CSE Bennett University	<a href="https://youtu.be/HGxU25-rP5g">https://youtu.be/HGxU25-rP5g</a>
13. Deep Learning for Medical Applications Dr. Kuldeep Singh Assistant Professor, MNIT, Jaipur	<a href="https://youtu.be/5gEhMMA7gcM">https://youtu.be/5gEhMMA7gcM</a>
14. Image Reconstruction using Deep learning Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science	<a href="https://youtu.be/eCna8fW5-KA">https://youtu.be/eCna8fW5-KA</a>
15. Implementation of Image Segmentation Using Deep Learning Dr. Manish Bhatt Consultant, Shell Technology Centre Postdoc, Indian Institute of Science	<a href="https://youtu.be/hjMwPjU1tRc">https://youtu.be/hjMwPjU1tRc</a>
16. Moving Object Detection using Deep Learning Dr. Santosh Vipparthi, Assistant Professor, MNIT	<a href="https://youtu.be/1P2SIghihmc">https://youtu.be/1P2SIghihmc</a>
17. Introduction to Deep Generative Adversarial Networks Models Mr. Praveen Chandaliya, Sdj Infosoft Pvt Ltd	<a href="https://youtu.be/0--9F-5gqyQ">https://youtu.be/0--9F-5gqyQ</a>
18. Implementation of Face Ageing & Face Alteration using Deep Generative Models(Autoencoders) Mr. Praveen Chandaliya, Sdj Infosoft Pvt Ltd	<a href="https://youtu.be/U5KenAxpBDA">https://youtu.be/U5KenAxpBDA</a>

## 7. List of participants:

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Mr. RAJESH RAJAAN	Assistant Professor	Computer Science & Engineering	Global Institute of Technology
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Mr. MANISH MATHURIA	Assistant Professor	Computer Science Engineering	PIET
Dr. PAYAL BANSAL	Associate Professor	ECE	Poornima college of engineering Jaipur

			Rajasthan
Dr. AJANTHA DEVI V	Research Head	R & D	AP3 Solutions
Ms. Padmini kuppala	Assoc professor	Information Technology	Aurora's Technological and Research Institute
Mr. Raju Imandi	Assistant Professor	COMPUTER SCIENCE AND ENGINEERING	VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Dr. SHESHANG DEGADWALA	Associate Professor	Computer Engineering	Sigma Institute of Engineering
Dr. P Chandra Sekhar Reddy	Professor	CSE	GRIET
Ms. NESARANI	Assistant Professor	Computer science	RAJAPALYAM RAJUS COLLEGE
Mr. SUMIT KUMAR	ASSISTANT PROFESSOR	cse	POORNIMA GROUP OF INSTITUTIONS
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Mr. SYED MUNAWWAR	Assistant Professor	Electronics and Communication Engineering	Santhiram Engineering College
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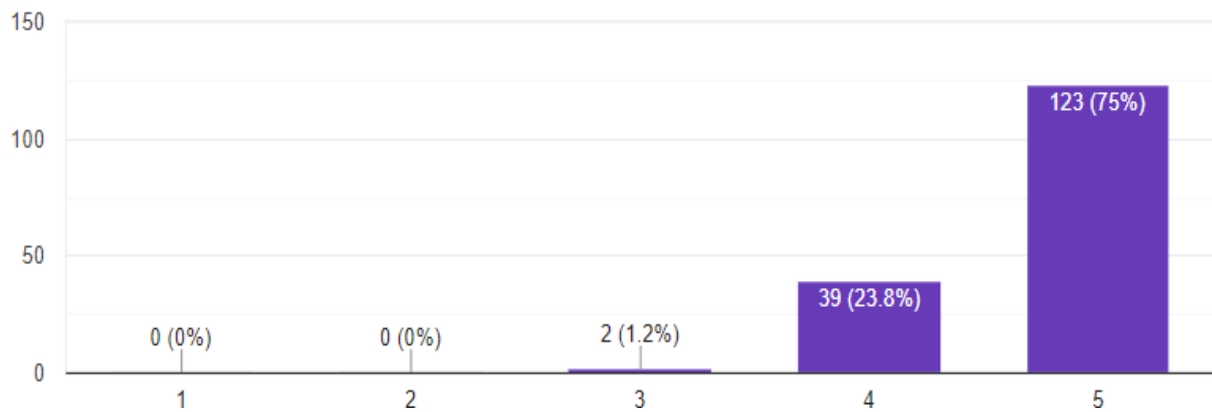
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## 9. Feedback:

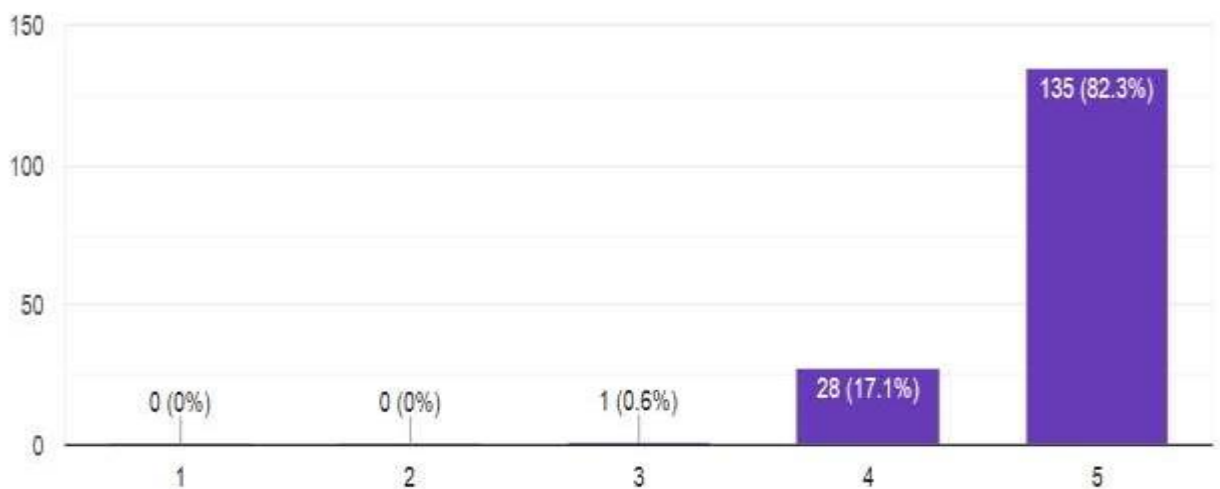
The STTP broadened my understanding of concepts and principles in the field of Image processing, Machine Learning and Deep learning

164 responses



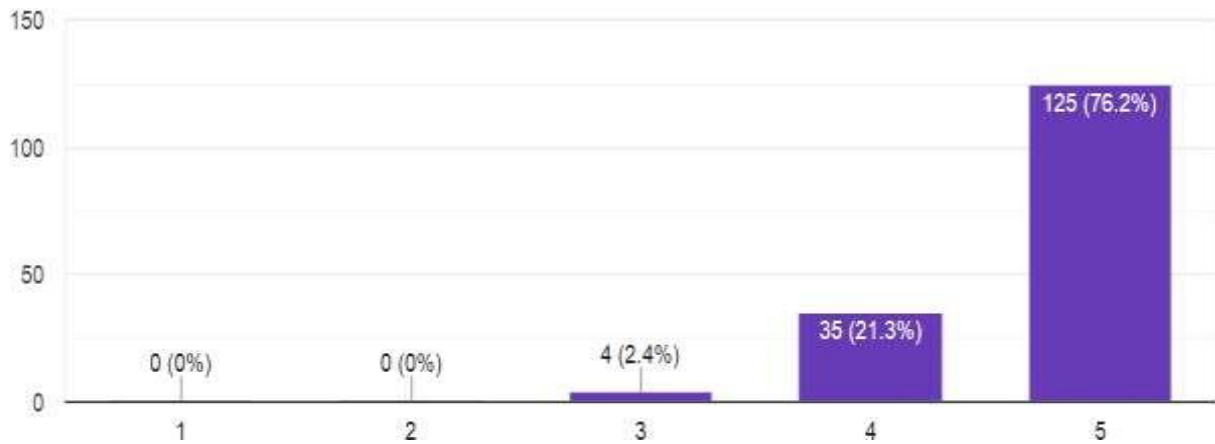
The instructors explained the material well.

164 responses



The Practical sessions increased my understanding in image processing machine learning and deep learning.

164 responses



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



164 responses



## 10. Annexure:

### 10.1 STTP Certificate

#### Speakers Certificate

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

September 21-26, 2020



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New Delhi  
AICTE Quality Improvement Scheme (AQIS)

### *Appreciation Certificate*

This certificate is awarded to Dr. Mehak Khurana from The North Cap University, Gurugram, Haryana for sharing his/her valuable knowledge as a Resource person 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 September 21, 2020 to September 26, 2020.

(Dr. Praveen Kumar Gupta)  
Coordinator

(Dr. Dinesh Goyal)  
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## Participant Certificate

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

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## Certificate

This is to certify that **Dr. RAKHI MUTHA**

From **POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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 September 21, 2020 to September 26, 2020.

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*Certificate*

This is to certify that **SESHAIAH M**  
From **SJCIT**

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 September 21, 2020 to September 26, 2020.

(Dr. Praveen Kumar Gupta)  
Coordinator

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