



Report on
AICTE Training and Learning (ATAL) Academy
Sponsored



Faculty Development Program
On
"GIS and Remote Sensing"
6th – 10th July 2021

FDP Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor

Electronics and Telecommunication

Engineering Dept.,

IET-DAVV, Indore

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Faculty Development Program (FDP) on GIS and Remote Sensing

- AICTE Sponsored FDP Program on “GIS and Remote Sensing” under ATAL Scheme was conducted through online mode during 06th - 10th July, 2021 in IET DAVV Indore under aegis of Electronics and Telecommunication Engineering Department.
 - Total 147 Participants got certificate as per AICTE criteria of 80% Attendance and 60% minimum marks in test conducted during the program.
 - The program was scheduled for 5 days as per the guidelines of AICTE and a total of 15 sessions was conducted. Duration of each session is of 2 hours which was taken by experts. The experts were well known academicians, scientists from various reputed institutes/ organizations of India.
 - Most of the resource persons were from IITs and ISRO. Practical Applications were also illustrated during the sessions from the experts.
-

Eminent Speakers



Dr. Uma Rathore Bhatt
IET-DAVV, Indore



Dr. Hari Shankar
IIRS, ISRO, Dehradun



Dr. K. K. Das
IIRS, ISRO, Dehradun



Dericks P. Shukla
IIT, Mandi



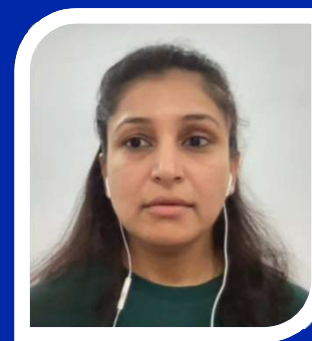
Dr. Saurabh Das
IIT, Indore



Dr. B. K. Mohan
IIT, Bombay



Dr. Y. S. Rao
IIT, Bombay



Neeta Raghuvanshi
Heartfulness, Hyderabad



Dr. Siddharth Soni
SGSITS, Indore

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On

"GIS and Remote Sensing"

6th – 10th July 2021

Inauguration Function

Presented By

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore



Dr. Renu Jain
Hon'ble Vice Chancellor,
DAVV, Indore



Dr. Uma Rathore Bhatt
Assistant Professor,
Electronics and Telecommunication Dept.
IET-DAVV, Indore



Dr. Sanjiv Tokekar
Director
IET-DAVV, Indore

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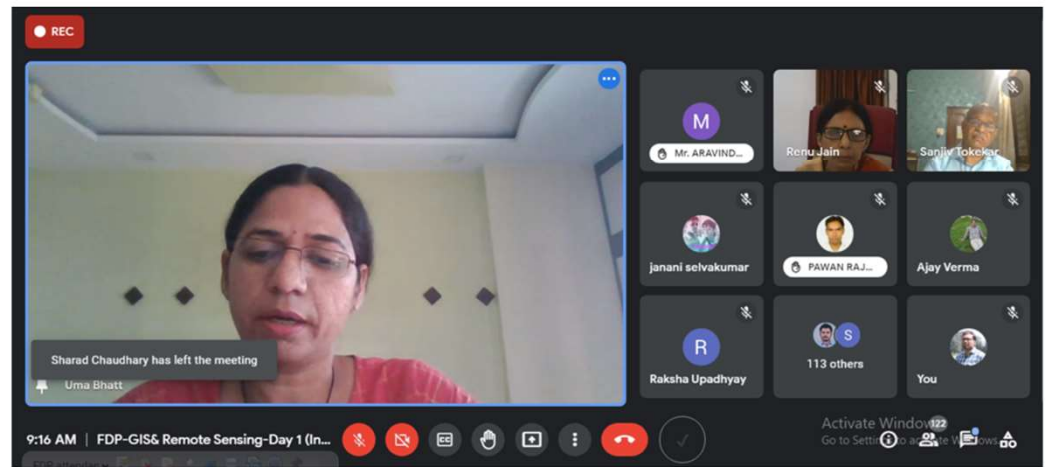
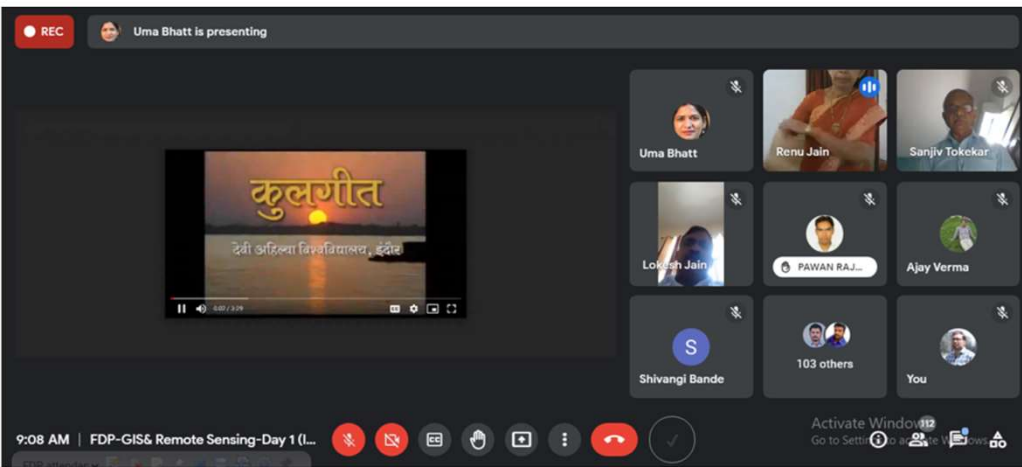
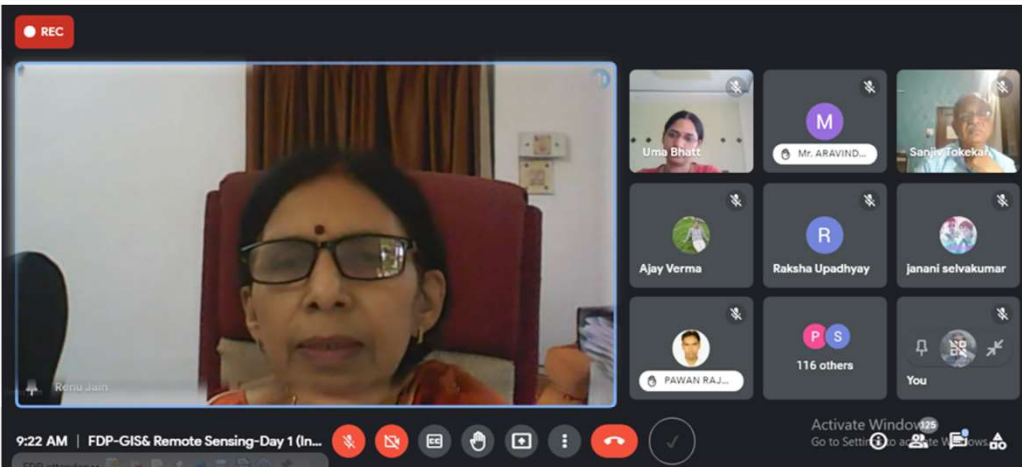
Institute of Engineering & Technology,

Devi Ahilya University, Indore

The Faculty Development Program kickstarted with Saraswati Vandana and pious Kulgeet of Devi Ahilya University. Following this, FDP coordinator Dr. Uma Rathore Bhatt welcomed the honorable Vice Chancellor, respected Director IET DAVV, respected HODs and all the participants.

Further Dr. Uma Rathore Bhatt introduced the subject of the FDP to all the participants. Also, Dr. Sanjeev Tokekar welcomed all the participants and gave an overview of the FDP curriculum and its application in our day-to-day life.

With this honorable Vice Chancellor delivered the keynote and took the shimmering opportunity to welcome all the participants and enlightened them with the importance of learning satellite communication, geographic information system, remote sensing and their advancements.



Inauguration Ceremony

AICTE Training and Learning (ATAL)
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On

"GIS and Remote Sensing"

6th – 10th July 2021

Day-1

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore



Dr. Uma Rathore Bhatt

Coordinator

Assistant Professor,

Dept. of E&TC, IET-DAVV Indore



Dr. Hari Shankar

Scientist/Engineer 'SE'

Disaster Management Studies Department,

Indian Institute of Remote Sensing,

ISRO Dehradun

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Day-1

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore



Dr. Uma Rathore Bhatt

Coordinator

Assistant Professor,

Dept. of E&TC, IET-DAVV Indore

Topic:

Satellite in Remote Sensing



Dr. Hari Shankar

Scientist/Engineer 'SE'

Disaster Management Studies Department,

Indian Institute of Remote Sensing,

ISRO Dehradun

Topic:

Geographical Information Systems and Applications

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6th – 10th July 2021

Session-1

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session-1 : Introduction to GIS and Remote sensing

(Speaker: Dr. Uma Rathore Bhatt)



Dr. Uma Rathore Bhatt, our first speaker for FDP, introduces the audience to the Geographic Information System, remote sensing and their fundamentals and applications. She covered various types of resolution(temporal, spatial, etc) , data acquisition using remote sensing, two basic scanner techniques (Whiskbroom, Pushbroom), basics of image processing, storage format of digital images (Band sequential, Band interleave by line and by Pixels). Further all the queries and doubts of the participants are taken up by our respected speaker for the session.

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6th – 10th July 2021

Session-2

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session-2 : Satellite in Remote Sensing

(Speaker: Dr. Uma Rathore Bhatt)



Dr. Uma Rathore Bhatt took up the second session, following the fundamentals from the previous session and sailed forward covering the details of the following topics:

- Types of Remote sensing, terms related to Kepler's Law and planetary configuration (perigee, apogee, orbit, altitude, orbit, sensors)
- Types of orbits and terms related to the same (equatorial plane, orbital plane, angle of inclination, eccentricity, polar orbits). Categorization of orbit (LEO, Sun Sync, Geo-Sat, Geo-Sync).
- Tracking and Control System (Orbital Perturbation)
- Telemetry and Orbit correction control system
- Power and Data Distribution
- Satellite Launch vehicles and Satellite Launch process
- Monitoring systems

The level of simplicity with which Dr. Uma Rathore Bhatt explained the topics and her patience while taking the doubts and queries from the participants, was highly appreciable.

To make the session more interactive and engaging Dr. Uma Rathore Bhatt took a short and relatable quiz with all the participants. This quiz helped the participants understand the subject better.

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Session-3

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 3 : Geographical Information Systems and Applications

(Speaker: Dr. Hari Shankar)



Dr. Uma Rathore Bhatt welcomed our honorable speaker of the day, Dr. Hari Shankar. He is Scientist and Engineer at Indian Space and Research Organization, Dehradun. The session was then handed over to Dr. Hari Shankar, who then deciphered the Geographic Information System to the participants of the FDP. Following which covered the details on the following topics:

- Geospatial Analysis using GIS
- Representation of GIS layers
- Comparison of Raster and vector data models
- Dataset preparation & Sources of Errors
- Data quality and databases
- Data Querying
- Summary and examples

Dr Hari Shankar explained the topics in an interactive manner, taking the doubts and queries from the participants, which really helped the participants to grasp the concept.

REC Hari Shankar is presenting

Spatial Data Models (Computer Representation of Geographic Phenomenon)

- Two fundamental approaches:
 - Raster data model
 - Vector data model

Vector data model

ENTRY	X	COORDINATE	NAME
A	55		well
B	6.2, 1.2, 1.6, 3.5, 1.4, 2.3, 3.2, 2.1		stream
C	4.2, 5.3, 6.4, 6.5, 6.6, 7.3, 6.6, 4.7, 3.5, 4.3		lake

Raster data model

Row	Column	Attribute
1	1	B
1	2	B
1	3	A

Real World

2:33 PM | FDP-GIS& Remote Sensing-Day 1 (Inaugural session...)

Meet - FDP-GIS& Remote S...

meet.google.com/gmw-vdiz-xuj?pli=1&authuser=4

REC Hari Shankar is presenting

Summary

- GIS is a tool for creating map
- GIS is a tool for creating, manipulating and managing database
- GIS is a tool for data derivations
- GIS is a tool to visualize entire data for decision making
- GIS is a tool to understand geographic phenomenon spatially or temporally
- GIS is a tool for solving complex real life problems
- GIS is a tool for predicting future scenarios of geographic phenomenon
- GIS is a tool used by almost every one in the world directly or indirectly
- GIS is a tool used in almost every field of life such as
 - Agriculture and soils
 - Forestry and ecology
 - Water resources and Marine Sciences
 - Geosciences and mining engineering
 - Urban planning and Civil engineering
 -
- GIS as a technology is a mixture of various disciplines such as -
 - Geography, environmental science
 - Computer science, electronics
 - Physics, Mathematics, and Statistics
 -

4:14 PM | FDP-GIS& Remote Sensing-Day 1 (Inaugural sessi...)

REC Uma Bhatt is presenting

Press Esc to exit full screen

- FDP Title Introduction
 - What is Remote Sensing?
 - What is GIS?
 - Applications
- Course coverage in FDP
- Basic knowledge required for GIS & Remote Sensing

5:42 AM | FDP-GIS& Remote Sensing-Day 1 (Inaugural session...)

REC Uma Bhatt is presenting

GIS & Remote Sensing

- Remote sensing comes up with a large amount Of real time data about the Earth, and geographic information system (GIS) is a technique for analysis and interpretation of this geographic data set.
- The blend of the two disciplines has created a system that can carry out large scale analysis of the Earth's surface and other planetary also.
- It also provides intensive detailed knowledge on many planetary variables and creates a better understanding of its functioning.
- These analyses are vital for decision-making on the sustainable management of natural resources, designing networks of protected areas, and addressing the threats of global environmental changes.

Nivetha Nive has left the meeting

5:47 AM | FDP-GIS& Remote Sensing-Day 1 (Inaugural session...)

Day-1

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Day-2

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

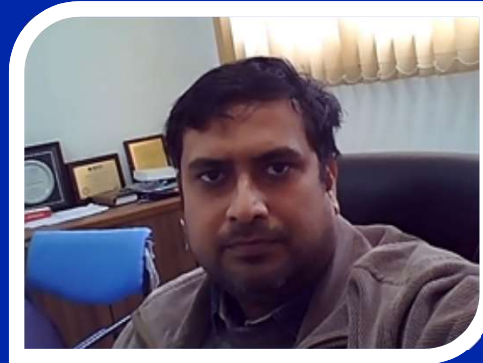
Institute of Engineering & Technology,

Devi Ahilya University, Indore



Dr. Hari Shankar

Scientist/Engineer 'SE'
Disaster Management Studies
Department, Indian Institute of
Remote Sensing, ISRO Dehradun



Dr. Saurabh Das

Assistant Professor
Astronomy, Astrophysics &
Space Engineering,
Indian Institute of Technology,
Indore

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Day-2

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Assistant Professor,

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Institute of Engineering & Technology,

Devi Ahilya University, Indore



Dr. Saurabh Das

Assistant Professor

Astronomy, Astrophysics & Space Engineering,

Indian Institute of Technology,

Indore

Topic-1

GPS/GNSS Remote Sensing for
Various Applications

Topic-2

Climate-Informatics,
Machine Learning and Big Data in
Climate Study

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Session-4

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,
Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 4 : Remote Sensing technology and Satellite Sensors

(Speaker: Dr. Hari Shankar)



With the start of day-2 of the FDP, our honorable speaker for the session, Dr. Hari Shankar guided the participants with various aspects of Remote Sensing Technology and Satellite Sensors. Also, with his vivid experience with the renowned Indian Space Research Organization (ISRO) , he shared various approaches for various means of data collection, common and uncommon errors & hurdles in the process of data collection using remote sensing. Dr. Hari Shankar explained the Structure of Remote Sensing Images, Observation Strategies, Radiation Principles, Remote sensing platforms and Characteristics of Sensors (Resolutions, Accuracy, Reliability).

He also familiarized the participants with different types of Remote Sensing Sensors. After going through the details of remote sensing sensors, he also gave real-world examples and took time to explain in-depth details and specifications of SPOT , LANDSAT, Sentinel Twin Satellite series, ALOS (Advanced Land Observation Satellite), IRS and their remote sensing applications. Further explained the Digital Image Processing and their applications as per various requirements and given situations. His knowledge in the field of GIS and Remote Sensing is highly appreciable and clearly visible in his approach, simplicity and still covering the depths of the topic.

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Session-5

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 5 : GPS/GNSS Remote Sensing for Various Applications

(Speaker: Dr. Saurabh Das)



Dr. Uma Rathore Bhatt welcomed our honorable speaker for the session, Dr. Saurabh Das. He is an Assistant Professor of Astronomy, Astrophysics and Space engineering at IIT, Indore. The session was then handed over to Dr. Saurabh Das who then deciphered the Remote sensing Applications to the participants of the FDP.

Dr Saurabh Das explained the topics in an elegant manner which gave a boost to the participants knowledge on topic.

At the end of this session, Dr. Saurabh Das took up the queries of the participants making it an interactive and fair for the all.

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Session-6

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session – 6 : Climate Informatics : Machine learning Big data and climate

(Speaker: Dr. Saurabh Das)



Dr Saurabh Das continued the next session, i.e., session-6. Dr. Saurabh Das untangled the topic of Climate Informatics to the participants of the FDP, after which he covered the details on the following topics:

- Big Data
- Factors affecting Data
- Data Analytics and procedures involved
- Data associated with Climate
- Concepts of Machine learning/Deep learning
- Procedures involved in ML/DL and results
- Summary and examples

At last, Dr. Das took up all the doubts of the participants, giving them vivid insights of the topic.

REC | Hari Shankar is presenting

Remote Sensing Platforms

Ground Based

SYNOPTIC COVERAGE

800 km

10 km

100 m

10 m

1.6 m

11.3 km, 35.7 km, 107 km, 165.6 km

Air-borne

Space borne

9:23 AM | gwa-wcfj-iot

meet.google.com/gwa-wcfj-iot

Dr. Saurabh Das is presenting

gwa-wcfj-iot

REC | Hari Shankar is presenting

What is Digital Image Processing?

Computer manipulation of digital values contained in an image for the purposes of image correction, image enhancement and feature extraction.

Image Processing

↓

Low-Level Process

- Reduce Noise
- Contrast Enhancement
- Image Sharpening

Image Analysis

↓

Mid-Level Process

- Segmentation
- Classification

Vision

↓

High-Level Process

Making Sense of an Ensemble of Recognized Objects

10:50 AM | gwa-wcfj-iot

REC | Hari Shankar is presenting

Hari Shankar

9:09 AM | gwa-wcfj-iot

Day-2

Report - Google Docs | Day-2 - Google Drive | Report - Google Docs | Meet - gwa-wcf-jot | Interferometry - Google Slides | Characteristics of remote sensing

meet.google.com/gwa-wcf-jot

REC Hari Shankar is presenting

IRS Satellite Series

INDIAN IMAGING CAPABILITY

- 1 Km to 1 m spatial Resolution
- 24 Days to every 30 mts. Repetitivity
- 1 Million scale to Cadastral Level

1km, 360m, 188m, 72m, 56m, 36m, 5.8m, 23m

10:45 AM | gwa-wcf-jot

REC Dr. Saurabh Das is presenting

Climate-informatics: Machine Learning/Big Data and Climate

Saurabh Das
Department of Astronomy, Astrophysics and Space Engineering
Indian Institute of Technology Indore
Email: Saurabh.das@iti.ac.in; das.saurabh01@gmail.com

Tapeesh Sarsodia has left the meeting

2:0 PM | FDP-GIS&Remote Sensing_Day 2

REC Dr. Saurabh Das is presenting

Errors on GPS Signal

- ① orbit error
- ② clock error
- ③ Receiver Noise Antenna and Receiver Effects
- ④ Ionospheric Delay
- ⑤ Tropospheric Delay
- ⑥ Multipath
- ⑦ Jamming

Ionosphere, Troposphere, Tropospheric Scintillation, Signal Masking, Ionospheric Scintillation

11:52 AM | FDP-GIS&Remote Sensing_Day 2

REC Dr. Saurabh Das is presenting

Big Data Analysis

```

    graph LR
      A[Acquisition/Recording] --> B[Extraction/Cleaning/Annotation]
      B --> C[Integration/Aggregation/Representation]
      C --> D[Analysis/Modeling]
      D --> E[Interpretation]
  
```

10

2:38 PM | FDP-GIS&Remote Sensing_Day 2

Day-2

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6th – 10th July 2021

Day-3

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore



Dr. K. K. Das

Professor & Scientist (Retired),
Indian Institute of Remote Sensing,
ISRO Dehradun



Dericks P. Shukla

Assistant Professor,
School of Engineering,
Indian Institute of Technology,
Mandi, Himachal Pradesh

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Day-3

Coordinator

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Institute of Engineering & Technology,

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Dr. K. K. Das

Professor & Scientist (Retired),
Indian Institute of Remote Sensing,
ISRO Dehradun

Topic-1

Geospatial Technology for
Environmental Hazards &
Disaster Management

Topic-2

Application of Geospatial
Technology for Earth
Resource Survey; Its Future
Trends & Opportunities

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Session-7

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 7 : Geospatial Technology for Environmental Hazards & Disaster Management



(Speaker: Dr. Kunal Kumar Das)

Dr. Uma Rathore Bhatt welcomed our hon'ble speaker of the day, Dr Kunal Kumar Das. Dr. Kunal Kumar Das received his Ph.D. from H.N.B. Garhwal University, Srinagar, Garhwal and Doctoral Research University of Twente (Faculty of Geoinformation Science and Earth Observation), Enschede, Netherlands.

The natural flow with which Dr Kunal Kumar Das explained the idea of Geospatial Technology for Environmental hazards was amazing, following which he took up few real-life case studies from his experience .

He then explained the use of remote sensing in disaster management and took example of Kedarnath flood and his experience with it, this helped the participants understand the subject better. At last, Dr. Saurabh Das took up the queries of the participants.

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Session-8

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session – 8:

Application of Geospatial Technology for Earth Resource Survey; Its Future Trends & Opportunities

(Speaker: Dr. Kunal Kumar Das)

Dr. Kunal Kumar Das elucidated the Geospatial Technology for Earth Resource Survey to the participants of the FDP. Subsequently covered the details on the following topics:

- SAT data and its types
- Applications of Geospatial data and associated technologies.
- Procedures involved for using Geospatial Technology.
- Key features of the Geospatial timelapse mapping and applications.
- Examples and Different opportunities in India for relevant personal

Dr. K.K. Das took an interactive query resolution segment with all the participants. This helped the participants understand the topic in-depth.



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Session-9

Coordinator

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Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 9 :

Remote Sensing Applications

(Speaker: Deriks Praise Shukla)



Deriks Praise Shukla is an Assistant Professor at IIT, Mandi . He explained the **Remote Sensing Applications** and various technical aspects related to it, to the participants. Ensuing which covered the details on the following topics:

- Resources for SAT data
- SAT data analytics Online
- Datasets association
- Application based on Datasets
- Procedures involved in Data Procurement/Acquisition
- Data visualization using Geospatial mapping.

Sir demonstrated various examples live in the session to the participants due to which they were overwhelmed with joy and knowledge.

meet.google.com/xpq-rhot-vbu

kunal kumar Das is presenting

JOURNEY BEGINS HERE

REC Dericks Praise Shukla is presenting

You
kunal kumar Das
Uma Bhatt
69 others

Dr. Purabi Hazarika
LAXMIBAI NAROJI
Gurdeep Singh Bagga
Sheetal Varur
jayanthi anbukumar
Presentation (D...
janani salvakumar
66 others
You

xpq-rhot-vbu

2:13 PM | FDP-GIS & Remote Sensing_Day3

kunal kumar Das is presenting

Geospatial Technology for Environmental Hazards and Disaster Management

Dr. Kunal Kumar Das, Scientist (Retd.)
Formerly with Indian Institute of Remote Sensing
INDIAN SPACE RESEARCH ORGANISATION (ISRO)
E-mail: drkkdkg@gmail.com
Mob: +91 941053642 789543445
*Webinar - 07 July 2021
I.I.T. Delhi University

kunal kumar Das is presenting

You
Uma Bhatt
kunal kumar Das
71 others

You
PRATHIKA
88 others

xpq-rhot-vbu

hot-vbu

09:24 AM
08-07-2021

Day-3

REC Dericks Praise Shukla is presenting

2:33 PM | FDP-GIS & Remote Sensing_Day3

REC Dericks Praise Shukla is presenting

Radiometric Resolution

2-bit = 4 radiance levels
The finer the radiometric resolution of a sensor, the more sensitive it is to detecting small differences in reflected or emitted energy

8-bit = 256 radiance levels

Pooja barthwal has left the meeting

2:25 PM | FDP-GIS & Remote Sensing_Day3

REC kunal kumar Das is presenting

UAV Applications

UAV FOR SMALL TOWN ORTHOPHOTO MAPPING

AERIAL INDUSTRIAL INSPECTION OF POWER LINE AND LAND SURVEYING

In-call messages

Messages can only be seen by people in the call and are deleted when the call ends.

Kiran Kumar: 11:51 AM
sir how to make these images like locating towns, villages, etc

12:20 PM | FDP-GIS & Remote Sensing_Day3

REC kunal kumar Das is presenting

12:07 PM | FDP-GIS & Remote Sensing_Day3

Day-3

AICTE Training and Learning (ATAL)
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Day-4

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

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Devi Ahilya University, Indore



Dr. B. K. Mohan

Professor CSRE,
IIT Bombay



Dr. Y. S. Rao

Professor CSRE,
IIT Bombay



Neeta Raghuvanshi

Certified Heartfulness &
Meditation Trainer

AICTE Training and Learning (ATAL)
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"GIS and Remote Sensing"

6th – 10th July 2021

Session-10

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 10 : Digital image processing

for Remote sensing

(Speaker: Dr. Krishna Mohan Buddhiraju)



Dr. Krishna Mohan Buddhiraju is Professor CSRE, IIT Bombay. First, Sir created the foundation of topic **Digital image processing for remote sensing** to the participants of the FDP, then he moved over to remote sensors and types of imaging done using the previously mentioned sensors, and various interesting aspects of image processing.

Professor then coalesced the audience towards the requirement of image processing in the field of remote sensing and aspects such as Spaceborne remote sensing and the imagery, Issues with processing and analysis of spaceborne Earth Observation images.

Following this sir explained programmed and learning based algorithms for information extraction from Earth Observation Images. At the end of this session, Dr. Krishna Mohan Buddhiraju took up the queries of the participants. Finally, sir handed over the stage to Dr. Y. S. Rao to take up for the practical hands on with Google Earth Engine.

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Session-11

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,
Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 11 :

Processing of remotely sensed images using google Earth engine and Sentinel hub cloud platforms (LAB)

(Speaker: Dr. Y.S. Rao)



Dr. Y.S. Rao is Professor for CSRE, IIT Bombay. He explained the **Processing of remotely sensed images using Google Earth engine and Sentinel hub cloud platforms** to the participants, further which covered the details on the following topics:

- Image classification
- Image enhancement
- Image editing on cloud and procedures involved
- Data interpretation and generation from images
- Cloud platform and their advantages
- Sentinel hub cloud platform and its applications

The complete hands-on-session was extra-ordinarily amazing. The knowledge gained here will help the participants pursue interesting researches in the field.

AICTE Training and Learning (ATAL)
Academy

Sponsored

Faculty Development Program

On

"GIS and Remote Sensing"

6th – 10th July 2021

Session-12

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,
Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session - 12 : Meditation

(Speaker: Ms. Neeta Raghuwanshi)



Ms. Neeta Raghuwanshi is a Certified Heartfulness Meditation Trainer. She asked the participants to share their perspective on meditation and lifestyle using which she explained the Vedic concepts of meditation and detoxification. Accordingly, suggested many exercises and routines.

Under here are a few important ones that she emphasized on:

- Meditation in true terms
- Significance of meditation in a healthy lifestyle
- Stress and it's sources
- How to deal with stress and find calmness within!
- LIVE MEDITATION

Neeta Mam also explained ways to achieve mental peace and physiological as well as abstract concepts related to stress, calm mind and peace.

At the end of this session, Ms. Neeta Raghuwanshi took up the queries of the participants and motivated them to continue meditation daily. She ended the session along the following lines :

Meditation is a process of lightening up, of trusting the basic goodness of what we have and who we are, and of realizing that any wisdom that exists, exists in what we already have. We can lead our life so as to become more awake to who we are and what we're doing rather than trying to improve or change or get rid of who we are or what we're doing. The key is to wake up, to become more alert, more inquisitive and curious about ourselves.



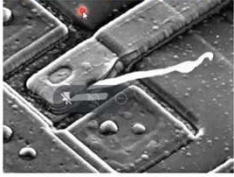
Meet - xex-tivv-lyz

meet.google.com/xex-tivv-lyz

REC K Krishna Mohan Buddhiraju is presenting

Highboost Filtering

Original artwork from the book *Digital Image Processing* by R.C. Gonzalez and R.E. Woods © R.C. Gonzalez and R.E. Woods, reproduced with permission granted to instructors by authors on the website www.imageprocessingplace.com



Keep low frequencies unchanged, multiply high frequency components by a factor > 1 and then apply inverse Fourier transform

rajendra jangwan

Snip & Sketch

Snip saved to clipboard

Select here to mark up and share the image

10:05 AM | xex-tivv-lyz

9:00 AM | xex-tivv-lyz

Asif Ali has raised a hand

Krishna Mohan Buddhiraju

You

Manish Bishnoi

Uma Bhatta

Dr. Dhaneesh Ligade

95 others

REC Yalamanchili S Rao is presenting

11:28 AM | FDP-GIS& Remote Sensing_Day 4

Yalamanchili S Rao

Vidya Kawarkar

Aarti Karandikar

Sheetal Varma

Narayana rao Bhogapura...

Nimisha Jose

sasi kala

60 others

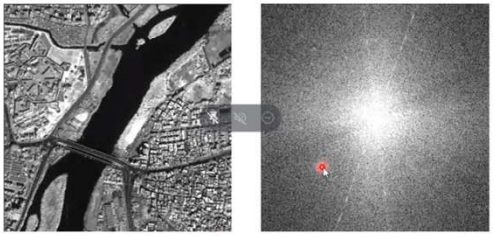
You

REC K Krishna Mohan Buddhiraju is presenting

10:01 AM | xex-tivv-lyz

Vishnu Singh Rathore has left the meeting

Image and its 2-D DFT



You

Krishna Mohan Buddhiraju

rajendra jangwan

Manish Bishnoi


89 others

Day-4

Experience Heartfulness...
"Connect within"

heartfulness
pure inner beauty

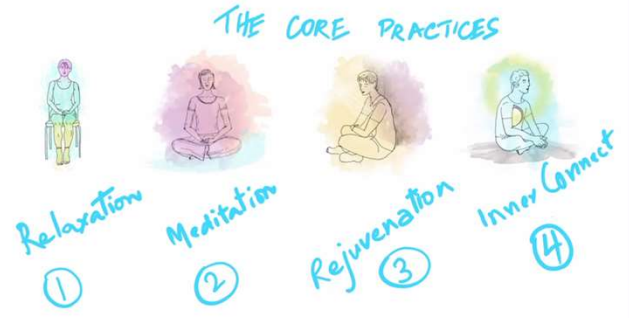
- Gently close your eyes
- Suggest that the source of light is present within your heart.
- Stay with this subtle feeling.
- If your mind wanders, gently bring your attention back to your heart.
- Be open to any experience that you may have.
- Observe and record your experience.



Meditation

REC 6 Guided Meditation Practice is presenting

THE CORE PRACTICES



Relaxation ①

Meditation ②

Rejuvenation ③

Inner Connect ④

3:17 PM | FDP-GIS & Remote Sensing_Day 4



You

Experience Heartfulness...
"Connect within"

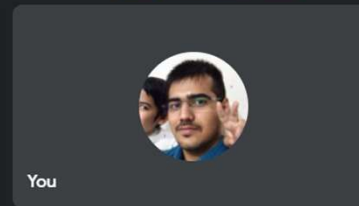
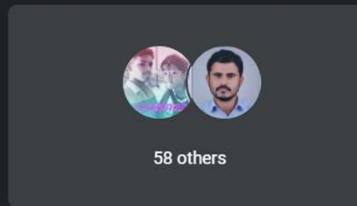
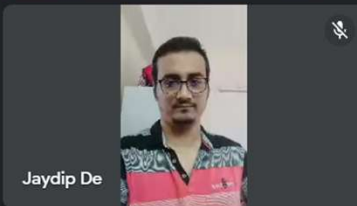
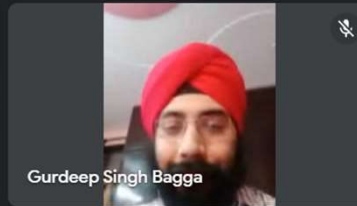
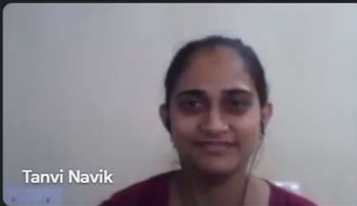
Guided Meditation Practice

RAVI PANDEY

73 others

Day-4

REC



3:42 PM | xex-tivv-iyz



Day-4: Meditation Session

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"GIS and Remote Sensing"

6th – 10th July 2021

Day-5

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore



Chairman ISRS Indore
Chapter, Founder Coordinator,
CRSST & Professor Emeritus,
SGSITS Indore

Dr. Siddharth Soni

AICTE Training and Learning (ATAL)
Academy

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Faculty Development Program

On

"GIS and Remote Sensing"

6th – 10th July 2021

Session-13

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session-13: GIS, GPS in Engineering & Technology (*Speaker-Siddharth Soni*)



Dr. S. K. Soni is a Professor & Head of Civil Engineering and Applied Mechanics at Shri G.S. Institute of Technology and Science, Indore. Also, Sir is Coordinator for Technical Education Quality Improvement Programme, Govt. of India, Indore chapter.

Dr. Soni explained Geospatial Technologies and their web-based & mobile-based applications. Following, which he demonstrated stereo remote sensing using an animation. Continuing forward he described Hyperspectral Sensing (visible, near-IR, mid-IR, thermal IR bands), he mentioned source of the source of these data viz., LANDSAT, IRS, etc. and their acquisition particularly for bathymetry, soil type, vegetation (forest, crop) discrimination, mineral identification.

After this, he took time to explain Advanced Very High Resolution Radiometer (AVHRR), active and passive sensors, penetration of microwaves. Finally, took up the doubts and queries from the participants of FDP.

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"GIS and Remote Sensing"

6th – 10th July 2021

Session-14

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session-14:

Application of Drone systems

(Speaker-Siddharth Soni)



Dr. S. Soni continued another session, with a new topic in buzz, i.e., application of drone systems.

Dr. Soni explained how a drone, in technological terms, is an unmanned aircraft. Essentially, how a drone is a flying robot that can be remotely controlled or fly autonomously through software-controlled flight plans in their embedded systems, working in conjunction with onboard sensors, GPS, remote sensing and Satellite communication from virtually any part of Earth.

At last, participants took the opportunity to clarify their doubts/queries, which were thoughtful of them.

AICTE Training and Learning (ATAL)
Academy

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Faculty Development Program

On

"GIS and Remote Sensing"

6th – 10th July 2021

Session-15

Coordinator

Dr. Uma Rathore Bhatt

Assistant Professor,

Electronics and Telecommunication Engineering,

Institute of Engineering & Technology,

Devi Ahilya University, Indore

Session-15: Valedictory cum Feedback Session by the respected participants of the Faculty Development Program

In this session, we had noble presence of our senior faculties of IET-DAVV as chief guests for the session, viz., Dr. Ajay Verma, head of department, Electronics and Instrumentation; Dr. Raksha Upadhyay, Associate Professor, Electronics and Telecommunication.

Moving forward all the participants gave their feedback, for the Faculty Development Program hosted by Electronics and Telecommunication Department, IET-DAVV.

The responses from participants were really overwhelming and positive. The praise from participants really over-joyed the organizing team.

REC Ayush Sharma is presenting

Four 70-mm Hasselblad Cameras Arranged to Obtain Multiband Vertical Aerial Photography

Century City, Los Angeles

9:37 AM | FDP-GIS&Remote Sensing_Day 5

REC

Press Esc to exit full screen

Uma Bhatt

Siddharth Soni

Manoj Prajapat

101 others

RAVI PANDEY

85 others

You

10:46 AM | utv-prjg-out

REC Ayush Sharma is presenting

9:43 AM | FDP-GIS&Remote Sensing_Day 5

REC Ayush Sharma is presenting

Shivani Soni

88 others

You

9:13 AM | FDP-GIS&Remote Sensing_Day 5

Day-5

REC Ayush Sharma is presenting

Hyperspectral Sensing

Hyperspectral Sensors or Imaging Spectrometers are instruments that acquire images in many, very narrow, contiguous spectral bands throughout the visible, near-IR, mid-IR, and thermal IR portions of the spectrum.

These systems typically collect data in 200 or more bands.

Landsat, SPOT, IRS, etc. acquires the data in coarse bands in which many details about particular object are lost. Otherwise they can be discriminated in narrow spectral bands.

Particularly used for bathymetry, soil type, vegetation (crop, forest) discrimination, mineral identification, etc.

janani selvakumar

Mohit Arya

Sheetal Varur

Uma Bhatt

Siddharth Soni

ASHISH SHETTY

jayanthi anbukumar

yukti bandi

90 others

You

9:58 AM | FDP-GIS&Remote Sensing_Day 5

REC

Crop discrimination using Hyperspectral Data

Press [Esc] to exit full screen

10:46 AM | utv-prjg-out

REC Ayush Sharma is presenting

Afaroz Mansoori

Sheetal Varur

yukti bandi

Uma Bhatt

Siddharth Soni

ASHISH SHETTY

jayanthi anbukumar

Sayani Mondal

88 others

You

9:43 AM | FDP-GIS&Remote Sensing_Day 5

REC Ayush Sharma is presenting

Four 70-mm Hasselblad Cameras Arranged to Obtain Multiband Vertical Aerial Photography

Afaroz Mansoori

yukti bandi

Sheetal Varur

Uma Bhatt

Siddharth Soni

ASHISH SHETTY

jayanthi anbukumar

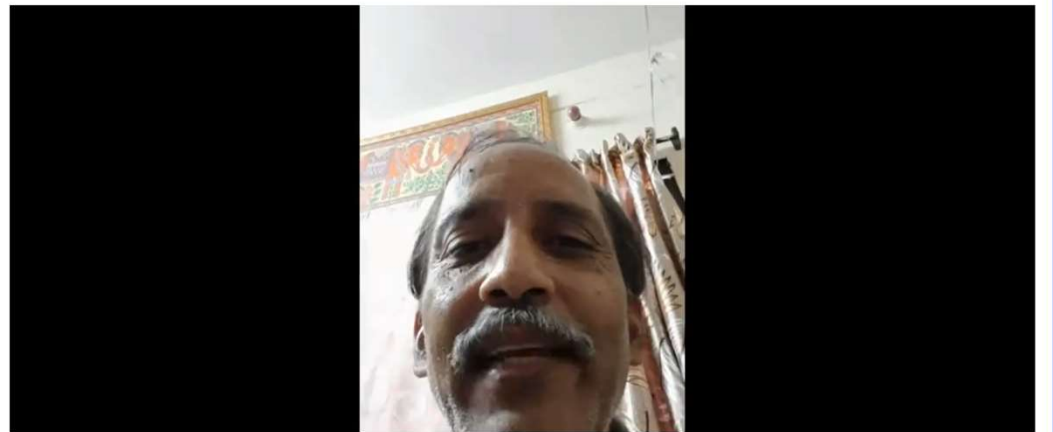
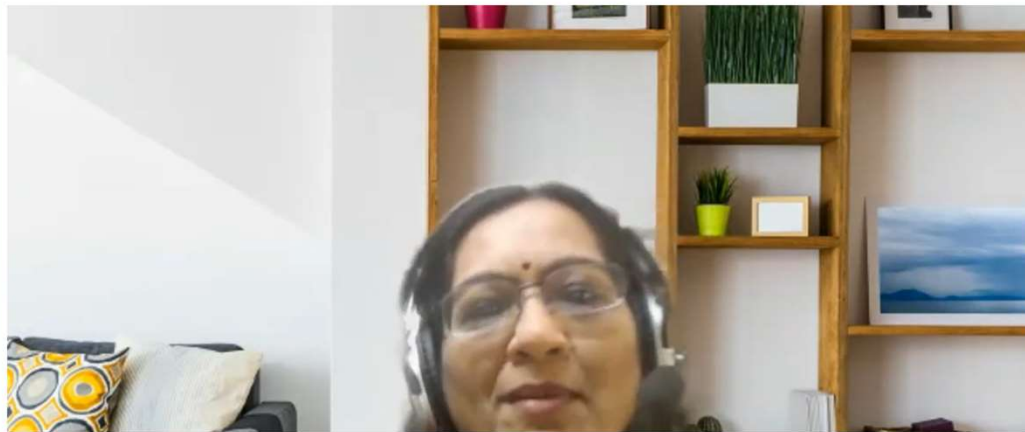
Sayani Mondal

85 others

You

9:37 AM | FDP-GIS&Remote Sensing_Day 5

Day-5



Day-5 : Valedictory Session



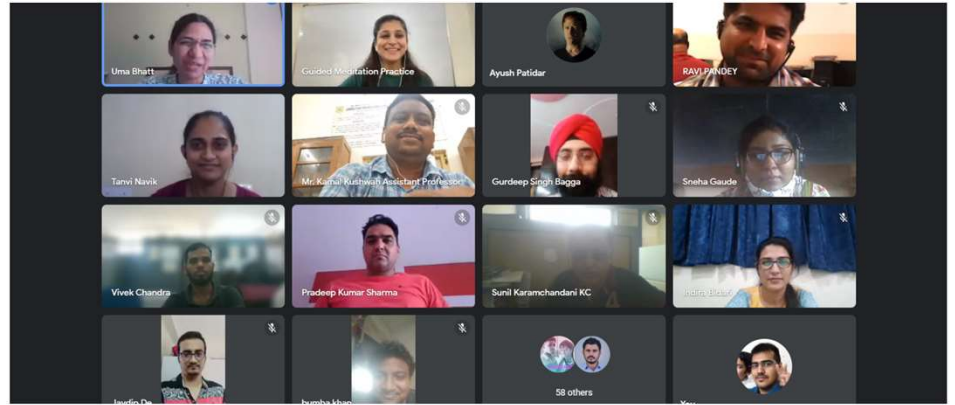
Tapesh Sarsodia



AmarLazen Rai



Raksha Upadhyay

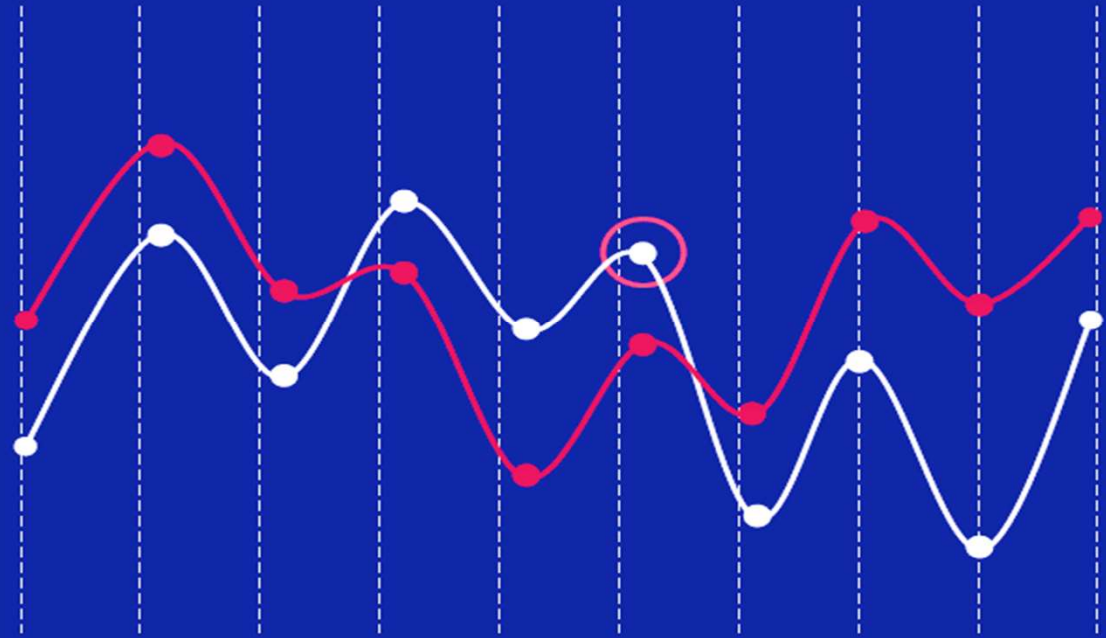


Day-5 : Valedictory Session & Feedback

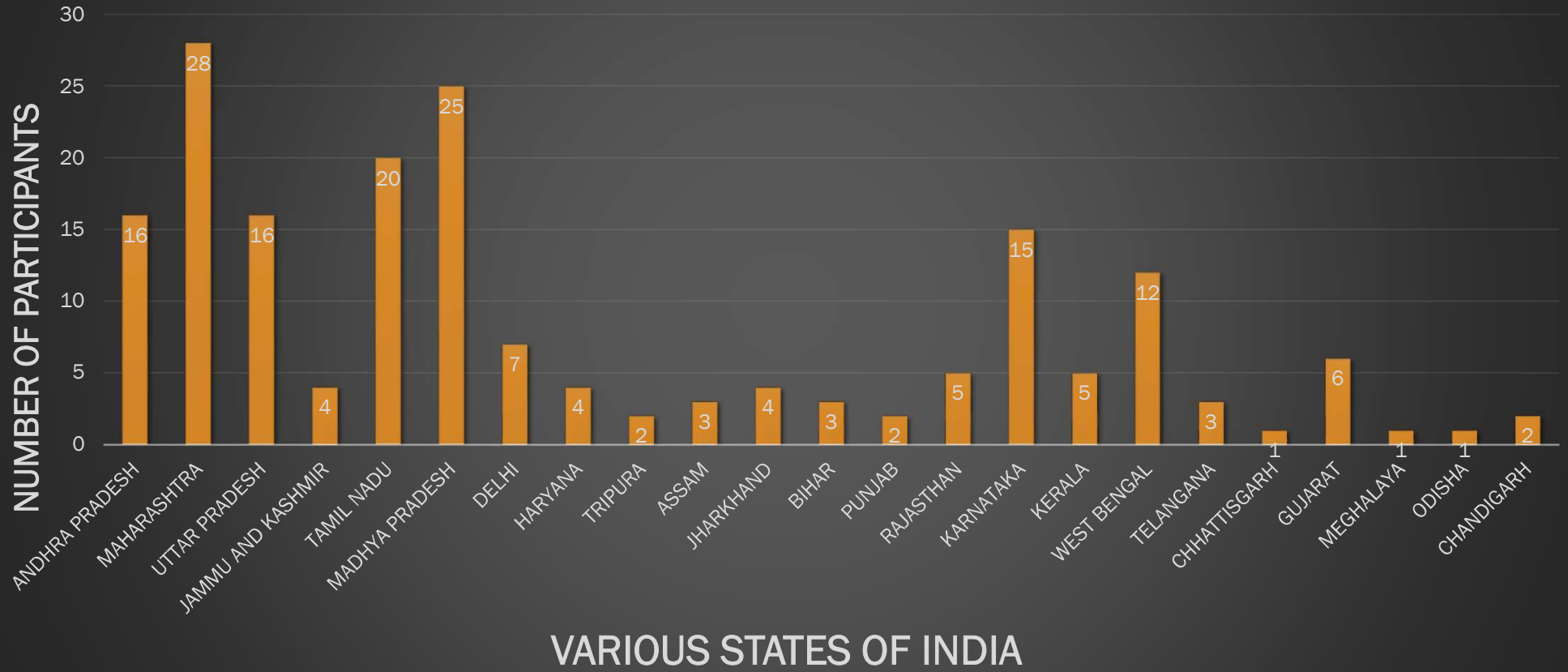
**Institute of Engineering and Technology, Devi Ahilya University,
Indore Schedule for AICTE Sponsored FDP Program on “GIS & Remote Sensing”
06th -10th July 2021**

DAY/Timings		Session I 09:00 AM-11:00AM	Session II 11:15 AM-1:15PM	Session III 2:00PM-4:00PM
06-07-2021	Name of Expert	Dr. Uma Rathore Bhatt	Dr. Uma Rathore Bhatt	Mr. Hari Shankar Gangwar
	Organization	IET, DAVV, Indore	IET, DAVV, Indore	Scientist/Engineer ‘SE’, Disaster Management Studies Department, Indian Institute of Remote Sensing, ISRO
	Topic	Introduction and overview of the FDP	Satellite in Remote Sensing	Geographical Information Systems and Applications
07-07-2021	Name of Expert	Mr. Hari Shankar Gangwar	Dr. Saurabh Das	Dr. Saurabh Das
	Organization	Scientist/Engineer ‘SE’, Disaster Management Studies Department, Indian Institute of Remote Sensing, ISRO Dehradun	Asst. Professor Astronomy, Astrophysics & Space Engg Indian Institute of Technology,	Asst. Professor Astronomy, Astrophysics & Space Engg. Indian Institute of Technology, Indore
	Topic	Remote Sensing technology and Satellite Sensors	GPS/GNSS Remote Sensing for Various Applications	Climateinformatics-Machine Learning and Big Data in Climate Study
08-07-2021	Name of Expert	Dr. Kunal Kumar Das	Dr. Kunal Kumar Das	Dr. Dericks P Shukla
	Organization	Professor & Scientist (Retd), Indian Institute of Remote Sensing, ISRO Dehradun	Professor & Scientist (Retd), Indian Institute of Remote Sensing, ISRO Dehradun	Asst. Professor School of Engg., IIT, Mandi
	Topic	Geospatial Technology for Environmental Hazards & Disaster Management	Application of Geospatial Technology for Earth Resource Survey; Its Future Trends & Opportunities	Remote Sensing Applications
09-07-2021	Name of Expert	Dr. Krishna Mohan Buddhiraju	Dr. Y.S. Rao	Ms. Neeta Raghuwanshi
	Organization	Professor CSRE, IIT Bombay	Professor, CSRE, IIT Bombay	Certified Heartfulness Meditation Trainer
	Topic	Digital image processing for remote sensing	Processing of remotely sensed images using google Earth engine and Sentinel hub cloud platforms (LAB)	Meditation
10-07-2021	Name of Expert	Dr. Siddharth Soni	Dr. Siddharth Soni	Dr. Uma Rathore Bhatt
	Organization	Chairman, ISRS, Indore Chapter Founder coordinator, CRSST & Professor Emeritus SGSITS Indore	Chairman, ISRS, Indore Chapter Founder coordinator, CRSST & Professor Emeritus SGSITS Indore	IET, DAVV, Indore
	Topic	GIS, GPS in Engineering & Technology	Application of Drone systems	Test Conduction/ Feedback/ Valedictory function

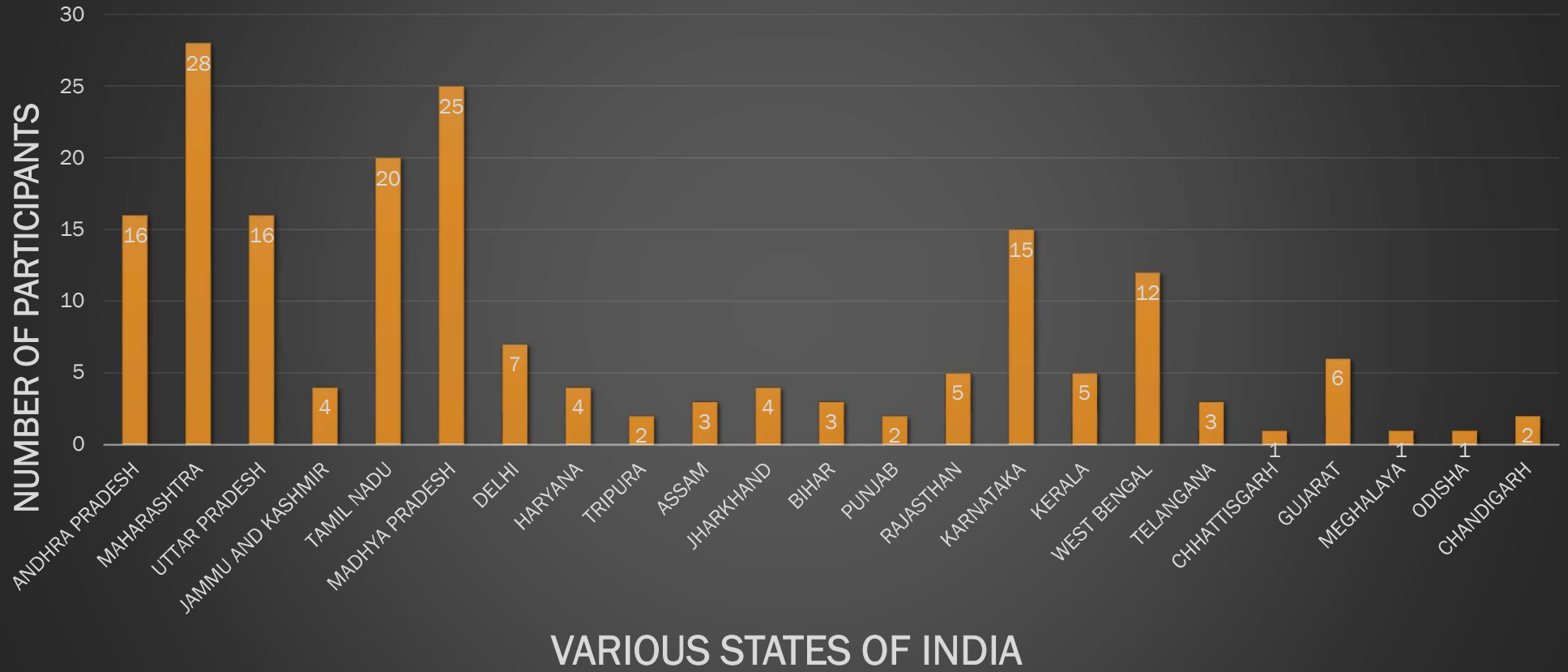
Statistics related to Participants



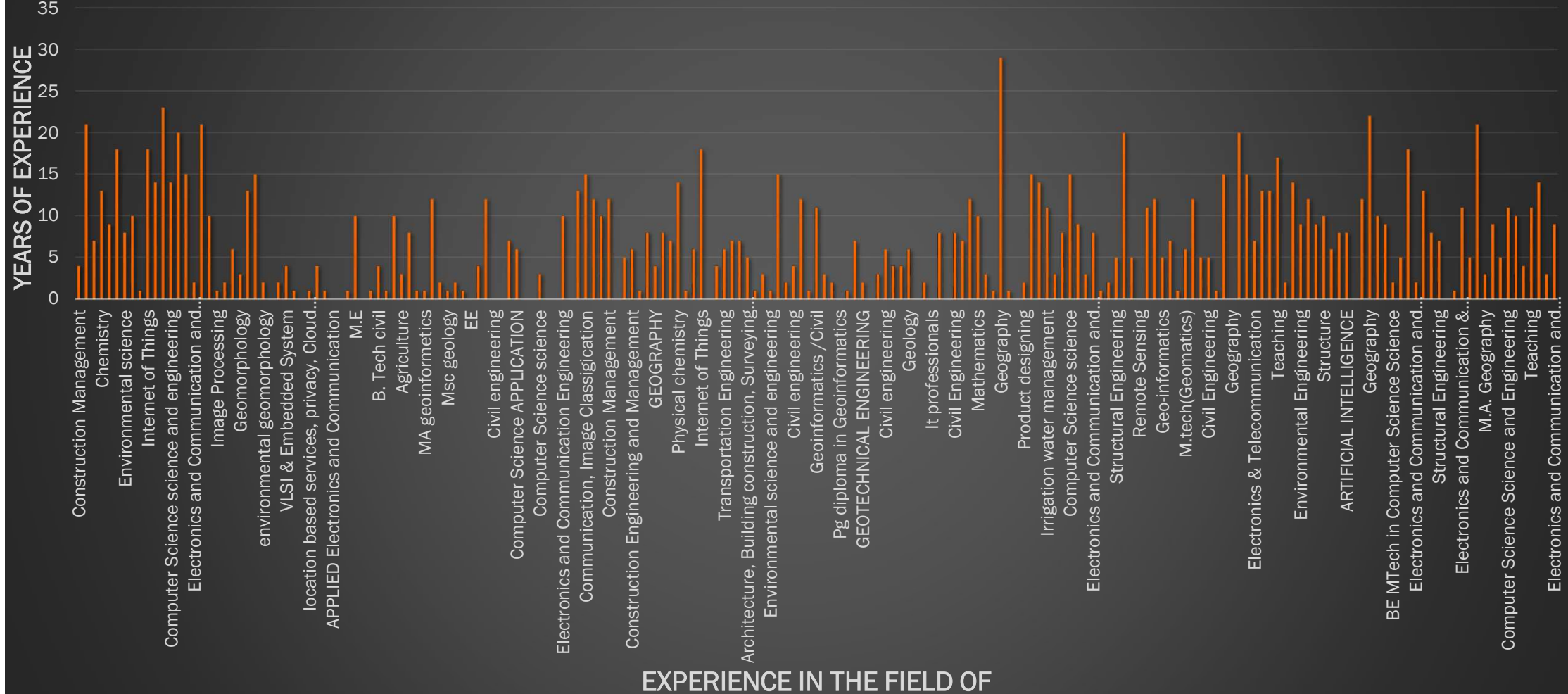
Demography of Participants



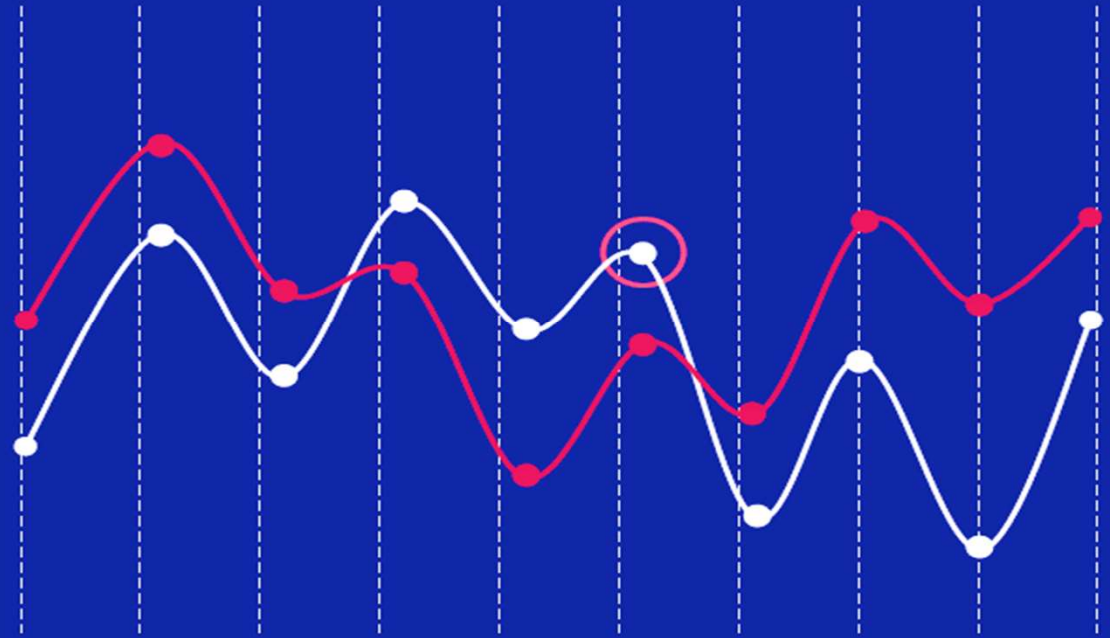
Demography of Participants



Years of Experience of Participants in their respective fields

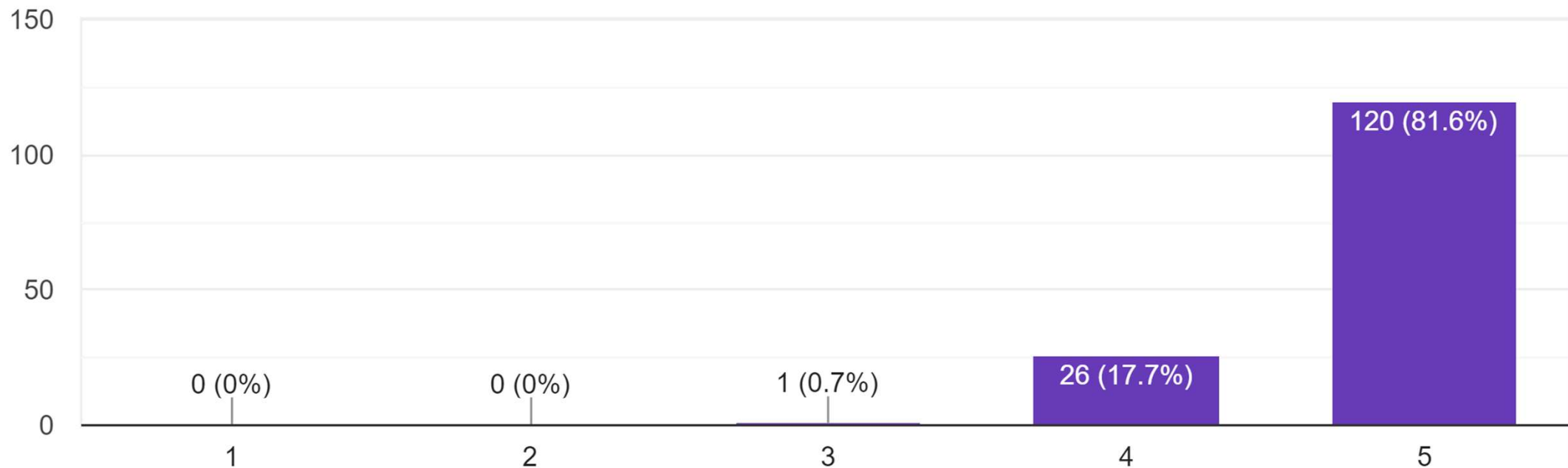


Feedback
from our lovely
Participants



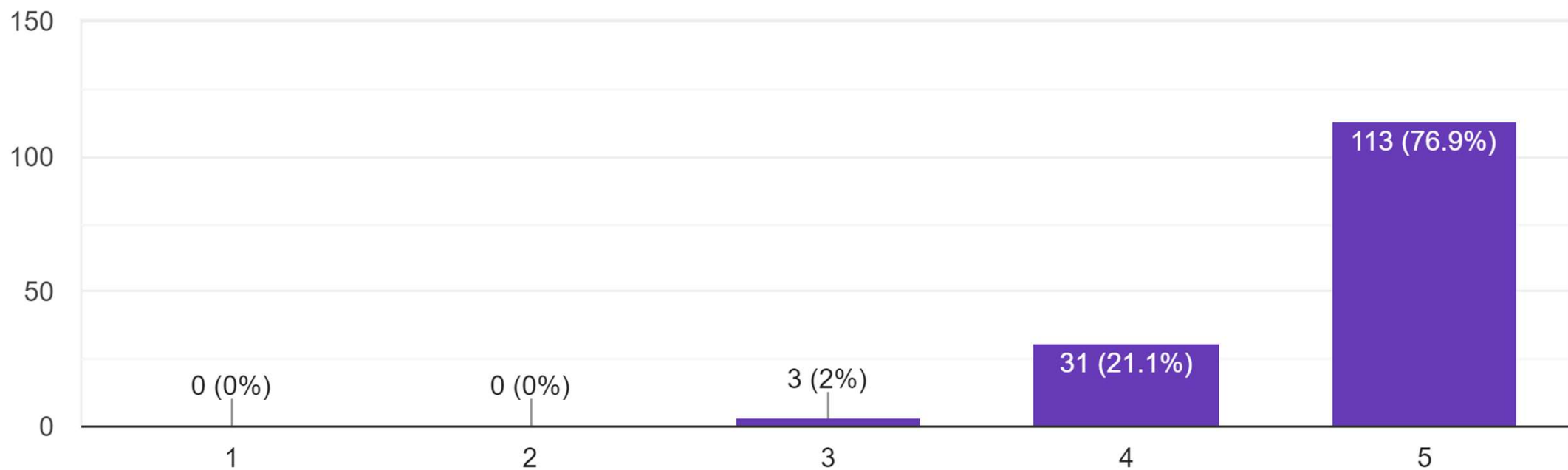
How well organized were the sessions (on the scale of 1 to 5)?

147 responses



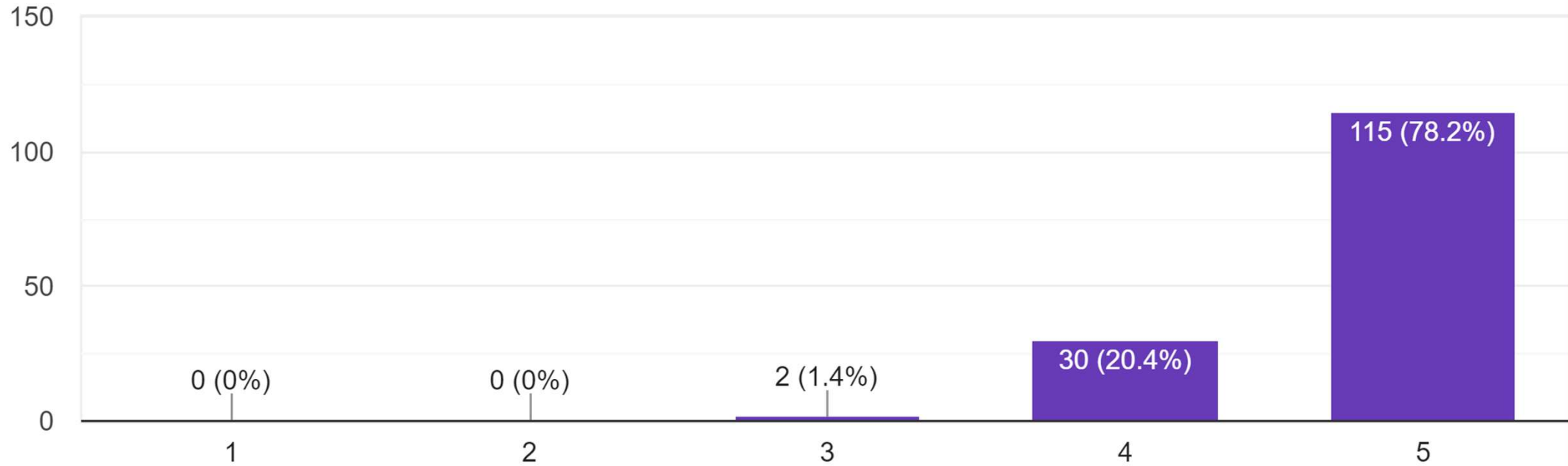
How was the content of the sessions by the experts (on the scale of 1 to 5)?

147 responses

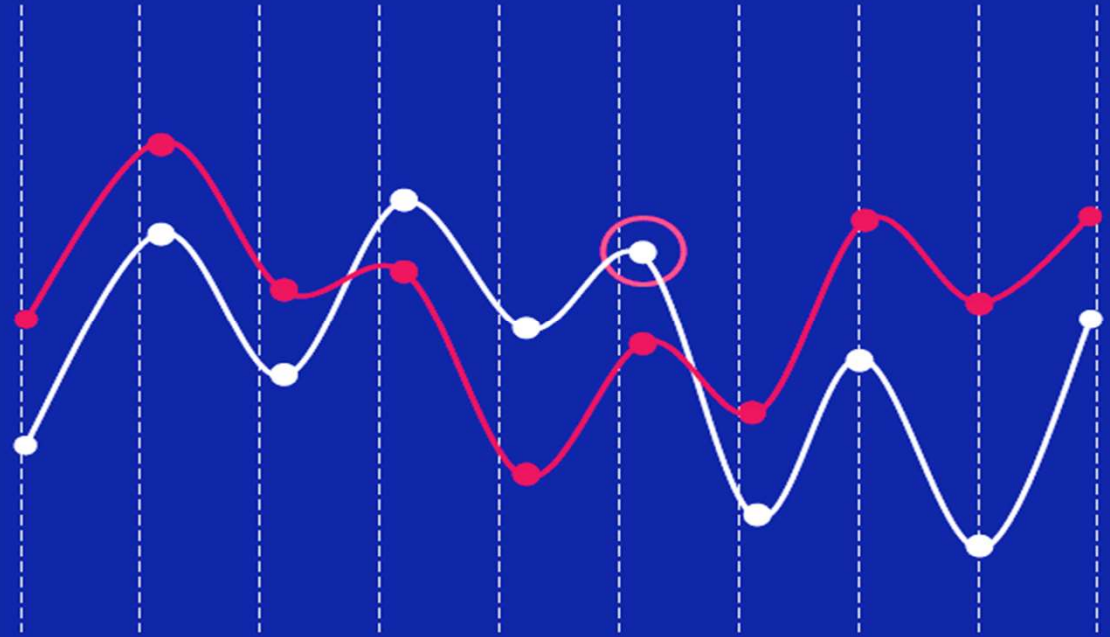


How would you rate this FDP program(Overall) (rate on scale of 1 to 5)?

147 responses



Participant Data



List of Participants who received the certificates as per AICTE norms			
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77	Mr. Hirendrasinh Padhiyar	hirendrasinh.padhiyar@marwadieducation.edu.in	9687535589
78	Mr. HITESH NINAMA	hiteshsmart2002@yahoo.co.in	9826841525
79	Mr. Iadonlang Tynsong	tiadonlang@gmail.com	8258858645
80	Mr. Iliyas khaleel	liyas.civ@mietjammu.in	7006901518
81	Mr. Jaydip De	de.jaydipde@gmail.com	9432245794
82	Mr. KANNADASAN B	kannatransgis1984@gmail.com	8940604022
83	Mr. KARTHIK S	karthikamet01@gmail.com	7401148478
84	Mr. Krishnendu Mondal	krishnendumandal133@gmail.com	8906484169
85	Mr. Kumar Ankit	kumarankit.4286@gmail.com	8765114286
86	Mr. LOKESH KUMAR JAIN	jainlokesh74@gmail.com	7597457243
87	Mr. MALLAPPA MADOLLI	mallappa495@gmail.com	8266803839
88	Mr. Manish Vishnoi	vishnoimanish29@gmail.com	9462831895
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