



POORNIMA

COLLEGE OF ENGINEERING

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Report of FDP on Advancing Research Methodology through Scientific

Tools and Artificial Intelligence

NAME OF ACTIVITY: FDP on Advancing Research Methodology through Scientific Tools and Artificial Intelligence

DATE & DURATION: February 05-09, 2024

ORGANIZED BY: Poornima College Of Engineering

OBJECTIVE:

The FDP's theme, "Advancing Research Methodology through Scientific Tools and Artificial Intelligence for STEM Professionals," implies a focus on equipping faculty members and professionals in STEM disciplines with advanced skills and knowledge. The program likely aims to explore and integrate cutting-edge research methodologies, scientific tools, and artificial intelligence techniques to enhance the quality and impact of research in the STEM fields.

ABOUT THE PROGRAMME:

The Faculty Development Program (FDP) named "Advancing Research Methodology through Scientific Tools and Artificial Intelligence for STEM Professionals" represents a joint endeavor involving prestigious institutions esteemed institutions and organizations including Sardar Vallabhbhai National Institute of Technology, Surat, INDIA; Poornima College of Engineering, Jaipur, INDIA; Nexus University, South Africa; Research and Development Cell, PCE, Jaipur, India; and MathTech Thinking Foundation, Fazilka, INDIA. Its primary goal is to enhance the research capabilities and productivity of professionals in STEM (Science, Technology, Engineering, and Mathematics) fields. By integrating expertise from various domains and geographical regions, this initiative seeks to equip STEM professionals with advanced research methodologies, scientific tools, and artificial intelligence techniques.


Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director

Poornima College of Engineering
ISI-0, RICO Institutional Area
Gulapura, JAIPUR

BROCHURE:



Sardar Vallabhbhai National Institute of Technology, Surat, INDIA
Poornima College of Engineering, Jaipur, INDIA
Nexus University, SOUTH AFRICA
Research and Development Cell, PCE, Jaipur, INDIA
MathTech Thinking Foundation, Fazlika, INDIA

Jointly organizes

Faculty Development Programme for STEM Professionals on

Advancing Research Methodology through Scientific Tools and Artificial Intelligence

05-09 February 2024

Empowering STEM Professionals: Elevating Research Methodology with Scientific Tools and AI

National	International
Registration Fee: 250 INR	Registration Fee: 25 USD

Daily Two Sessions

Session-I 09:30-11:30 IST	Session-II 13:30-15:30 IST
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Free registration for participants from collaborative institutions only & certificate of attendance upon successful completion

Scan QR Code for Registration



For more information visit:

 www.mttf.in/events
www.mttf.in

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+91-904-134-0179

STEM

MathTech Thinking Foundation

Shop No-4, Fazlika-Abohar Road Near Bus Stand, Fazlika-152123 (Punjab), INDIA


Dr. Mahesh Bunde
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Gulapura, JAIPUR

Speaker(s)



Dr. TANNY KESRA
Department of Artificial Intelligence,
SVKM'S Suva, INDIA



Prof. (Dr.) Balwan Kaur Khan
Associate Professor at Jamia Hamdani
University, Delhi, INDIA



Dr. Harmanpreet Singh Kapoor
Department of Mathematics and Statistics,
Central University of Punjab, Bathinda,
INDIA



Dr. Shalee Gupta
Department of Computer Science,
Baba Farid College, Bathinda,
INDIA



Dr. Shikharj Bhambra
Department of Financial
Administration, Central
University of Punjab, INDIA



Dr. Upinder Kaur
Department of Computer Science
and Engineering, Abul University,
Bathinda, INDIA



Dr. Sakshi Gautam
Department of Drug and Health
Sciences, University of Calicut,
INDIA



Dr. Aparna Kumari
Department of CSE, Institute of
Technology, Nirma University,
Ahmedabad, Gujarat, INDIA



Dr. Ruchika Verma
Department of Financial
Administration, Central
University of Punjab, INDIA

Patron(s)

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Director
Sankar Vallabhbhai National Institute of Technology,
Gujarat, INDIA

Dr. Mahesh M. Bundeale

Principal & Director,
Poonima College of Engineering,
Jaipur, India

Dr. Pankaj Dhemla

Professor & Vice-Principal,
Poonima College of Engineering,
Jaipur, India

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Department of Mathematics,
Sankar Vallabhbhai National Institute of Technology,
Gujarat, INDIA

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Professor,
Department of Mathematics,
Poonima College of Engineering,
Jaipur, INDIA

Ms. Kgomotso Morotolo

President,
Nexus University, SOUTH AFRICA

Coordinator(s)

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Department of Mathematics,
Sankar Vallabhbhai National Institute of Technology,
Gujarat, INDIA

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Department of Civil Engineering,
Poonima College of Engineering,
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Dr. Mehar Chand

Department of Mathematics,
Baba Farid College, Bathinda, & President of NITTF,
Punjab, INDIA

Ms. Neha Shrotriya

Department of Computer Engineering,
Poonima College of Engineering,
Jaipur, INDIA

Dr. Percy Mphasha

Head of the Science and Engineering Faculty,
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Mr. Jatin Bansal

Executive Member, Multi Task Thinking
Foundation, INDIA

For More Information Contact



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Ms. Kgomotso Morotolo: +277-6 724 4000

Event Page: <https://rb.gy/z4dt5z>

Upcoming Events: www.mttf.in/events



contactus@mttf.in

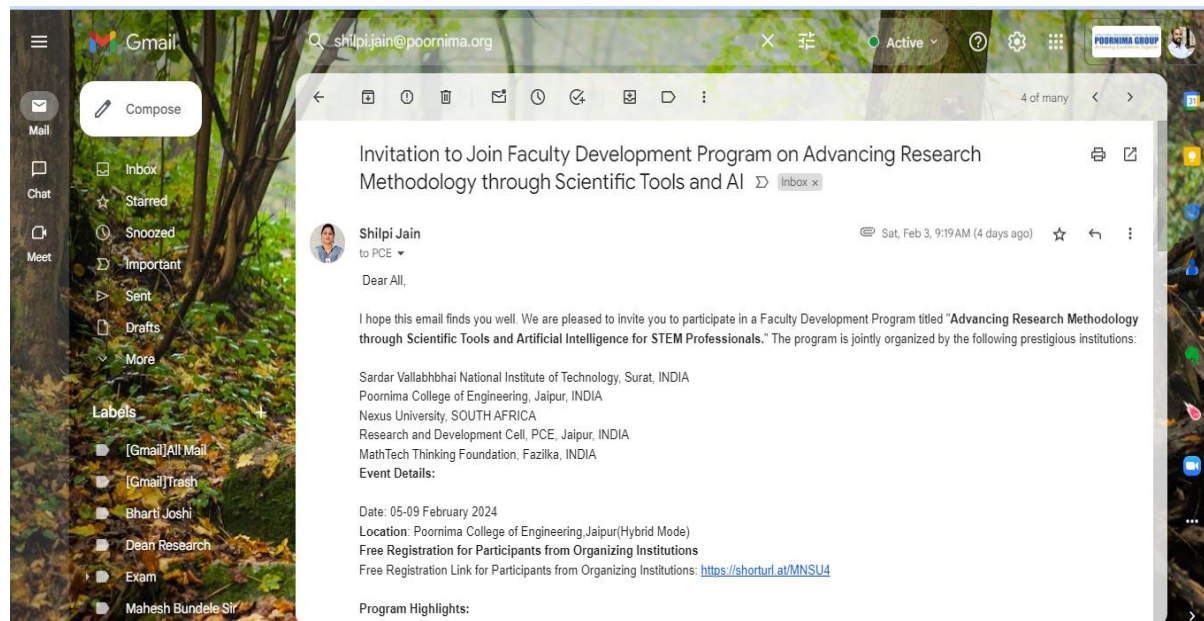


www.mttf.in

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Director

Poonima College of Engineering
ISI-0, PUNCO Institutional Area
Gulapura, JAIPUR

CIRCULAR:



PROGRAMME SCHEDULE:

Tentative Schedule		
Sessions/Time	Description	Speaker(s)
Day-1 (February 05, 2024)	Understanding the Foundations of Research Methodology	
Inaugural/09:30-10:00	Welcome Address, Chief Guest Address, Inaugural Address, Vote of Thanks	Representatives of Institutions
Session-1/10:00-11:30	Introduction to Research Methodology: Overview of research fundamentals, Types of research and their significance, Ethical considerations in research	Dr. Ruchita Verma
Session-2/13:30-15:30	Scientific Tools for Research: Introduction to statistical tools, Data analysis techniques, Hands-on practice with statistical software	Dr. Upinder Kaur
Day-2 (February 06, 2024)	Exploring Advanced Research Techniques	
Session-3/09:30-11:30	Basic Principles of Design and Analysis of Experiment: Designing effective experiments, Practical applications in science and engineering	Dr. Harmanpreet Singh Kapoor
Session-4/13:30-15:30	Machine Learning in Research: Introduction to machine learning concepts, Applications of machine learning in research, Case studies and hands-on exercises	Dr. Upinder Kaur
Day-3 (February 07, 2024)	Integration of Artificial Intelligence in Research Methodology	
Session-5/09:30-11:30	Introduction to Artificial Intelligence: Basics of AI and its relevance in research, AI tools for data analysis, Hands-on experience with AI applications	Prof. (Dr.) Ihtiram Raza Khan


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 Silapura, JAIPUR

Session-6/13:30-15:30	AI-driven Research Projects: Showcasing successful AI-driven research projects, Collaborative discussion on potential research ideas, Group activity: Designing an AI-driven research proposal	Dr. Aparna Kumari
Day-4 (February 08, 2024)	Advanced Data Analytics Techniques	
Session-7/09:30-11:30	Big Data Analytics: Overview of big data and its challenges, Tools and techniques for big data analytics, Case studies in science and engineering research	Dr. Shalu Gupta
Session-8/13:30-15:30	Deep Learning for Research: Understanding deep learning concepts, Applications of deep learning in research, Practical implementation of deep learning algorithms	Dr. Tanmoy Hazra
Day-5 (February 09, 2024)	Enhancing Research Impact through Interdisciplinary Collaboration	
Session-9/09:30-11:30	Interdisciplinary Research Approaches: Importance of interdisciplinary collaboration, Identifying interdisciplinary research opportunities, Case studies of successful interdisciplinary projects	Dr. Avinita Goutam
Session-10/13:30-15:00	Research Proposal Development and Funding Opportunities: Crafting effective research proposals, Navigating funding opportunities	Dr. Dhanraj Sharma
Valedictory/ 15:00-15:30	Live Participant Feedback, Valedictory Address, General Address, Vote of Thanks, End the Session	Representatives of Institutions


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Poonima College of Engineering
 ISI-6, RILCO Institutional Area
 Sitapura, JAIPUR

DAY-1

INAUGURAL CEREMONY

Q-SHEET:



Five Days Faculty Development Programme (FDP) on Advancing Research Methodology through Scientific Tools and Artificial Intelligence

Jointly Organized by:
Sardar Vallabhbhai National Institute of Technology, Surat, India
Poornima College of Engineering, Jaipur, India
Nexus University, South Africa
Research and Development Cell, PCE, Jaipur, India
MathTech Thinking Foundation, Fazilka, India

Q- Sheet of Inaugural Session

Monday, 5th February, 2024

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries by the anchor	01 Min	09:30 am-09:31 am
2.	Ganesh Vandana	03 Min	09:31 am-09:34 am

3.	Welcome of Chief Guest Prof. Anita Tomar , Director, Faculty Development Center, Sri Dev Suman Uttarakhand University by Dr. Mahesh Bunde , Director, Poornima College of Engineering with bouquet and memento	01 Min	09:34 am-09:35 am
4.	Introduction of FDP by Dr. Ranjan Kumar Jana , Department of Mathematics, Sardar Vallabhbhai National Institute of Technology, Gujarat, INDIA	04 Min	09:35 am-09:39 am
5.	Welcome address by Dr. Mahesh Bunde , Director, Poornima College of Engineering	04 Min	09:39 am-09:43 am
6.	Address by Chief Guest Prof. Anita Tomar , Director, Faculty Development Center, Sri Dev Suman Uttarakhand University	10 Min	09:43 am-09:53 am
7.	Address by Ms. Kgomotso Morotolo , President, Nexus University, SOUTH AFRICA	04 Min	09:53 am-09:57 am
8.	Vote of Thanks by Dr. Shilpi Jain , Professor, Department of Mathematics, PCE	02 Min	09:57 am-09:59 am

9.	Group Photograph	01 Min	09:59 am-10:00 am
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MTTF
MathTech Thinking Foundation
A Ministry of Corporate Affairs, Government of India Approved NBO

Faculty Development Programme for STEM Professionals on Advancing Research Methodology through Scientific Tools and Artificial Intelligence

05-09 February 2024

Welcome to the Inaugural Ceremony!

Date: 05 February 2024

Time: 09:30-10:00 IST
06:00-06:30 SAST

The FDP began with its Inaugural Session seeking the blessings of Lord Ganesha and Goddess Saraswati. The session witnessed addresses of dignified persons, Professor Anita Tomar, Director, Faculty Development Center, Sri Dev Suman Uttarakhand University, Dr. Mahesh Bunde, Director, Poornima College of Engineering, Dr. Ranjan Kumar Jana, Department of Mathematics, Sardar Vallabhbhai National Institute of Technology, Gujarat, Ms. Kgomotso Morotolo, President, Nexus University, SOUTH AFRICA.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "About the FDP" featuring a portrait of Prof. (Dr.) Ranjan Kumar Jana, Event Coordinator at Sardar Vallabhbhai National Institute of Technology, Gujarat. To the right of the slide is a podium. The top of the Zoom window shows three video thumbnails: Balwan Sheshma, Dr. Ranjan Kumar Jana, SVNIT, and Kgomotso Morotolo NEXUS Un... The right sidebar lists 50 participants, including Balwan Sheshma (Co-host, Me), Prof. Shilpi Jain (Host), Neha Shrotriya (Co-host), Sonu Kumar (Co-host), Dr. Mehar Chand (Co-host), Kgomotso Morotolo NEXUS University (Co-host), Dr. Pankaj Dhemla (Co-host), Prof. Anita Tomar Director FDC SDSUV... (Co-host), Dr. Ranjan Kumar Jana, SVNIT (Co-host), Abdu Mohammed, Dr. Nishant Gaur, and Dr. Rajender Singh. The bottom toolbar includes icons for Audio, Start Video, Security, Participants (50), Polls, Share Screen, More, and a red Leave button.


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Gulapura, JAIPUR

Recording Paused


Balwan Sheshma

Balwan Sheshma Mahesh M's iPhone (2) Kgomotso Morotolo NEXUS Un...


You are viewing Sonu Kumar's screen

View Options

Welcome Address



Prof. (Dr.) Mahesh M. Bundele
Director & Principal,
Poornima College of Engineering



Audio Start Video Security Participants Polls Share Screen More Leave

Participants (52)

Find a participant

BS	Balwan Sheshma (Co-host, Me)	/	/
PS	Prof. Shilpi Jain (Host)	/	/
NS	Neha Shrotriya (Co-host)	/	/
SK	Sonu Kumar (Co-host)	/	/
DM	Dr. Mehar Chand (Co-host)	/	/
KM	Kgomotso Morotolo NEXUS University (Co-host)	/	/
DP	Dr. Pankaj Dhemla (Co-host)	/	/
	Prof. Anita Tomar Director FDC SDSUV... (Co-host)	/	/
DR	Dr. Ranjan Kumar Jana, SVNIT (Co-host)	/	/
AM	Abdu Mohammed	/	/
DN	Dr. Nishant Gaur	/	/
DR	Dr. Rajender Singh	/	/

Invite Mute All More

Recording Paused


Balwan Sheshma

Balwan Sheshma Neha Shrotriya Prof. Anita Tomar Director FDC SDSUV...


You are viewing Sonu Kumar's screen

View Options

Chief Guest



Prof. (Dr.) Anita Tomar
Director,
Faculty Development Center
Sri Dev Suman Uttarakhand University



Audio Start Video Security Participants Polls Share Screen More Leave

Participants (66)

Find a participant

BS	Balwan Sheshma (Co-host, Me)	/	/
PS	Prof. Shilpi Jain (Host)	/	/
NS	Neha Shrotriya (Co-host)	/	/
SK	Sonu Kumar (Co-host)	/	/
DM	Dr. Mehar Chand (Co-host)	/	/
KM	Kgomotso Morotolo NEXUS University (Co-host)	/	/
DP	Dr. Pankaj Dhemla (Co-host)	/	/
	Prof. Anita Tomar Director FDC SDSUV... (Co-host)	/	/
DR	Dr. Ranjan Kumar Jana, SVNIT (Co-host)	/	/
AM	Abdu Mohammed	/	/
DN	Dr. Nishant Gaur	/	/
DR	Dr. Rajender Singh	/	/

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Recording Paused


Balwan Sheshma

Balwan Sheshma Neha Shrotriya Kgomotso Morotolo NEXUS Unive...


You are viewing Sonu Kumar's screen

View Options

Words of Wisdom



Prof. Ms. Kgomotso Morotolo
President, Nexus University
SOUTH AFRICA



Audio Start Video Security Participants Polls Share Screen More Leave

Participants (71)

Find a participant

BS	Balwan Sheshma (Co-host, Me)	/	/
PS	Prof. Shilpi Jain (Host)	/	/
NS	Neha Shrotriya (Co-host)	/	/
SK	Sonu Kumar (Co-host)	/	/
DM	Dr. Mehar Chand (Co-host)	/	/
KM	Kgomotso Morotolo NEXUS University (Co-host)	/	/
DP	Dr. Pankaj Dhemla (Co-host)	/	/
	Prof. Anita Tomar Director FDC SDSUV... (Co-host)	/	/
DR	Dr. Ranjan Kumar Jana, SVNIT (Co-host)	/	/
AM	Abdu Mohammed	/	/
DN	Dr. Nishant Gaur	/	/
DR	Dr. Rajender Singh	/	/

Invite Mute All More

Recording Paused


Balwan Sheshma

Neha Shrotriya


Prof. Shilpi Jain

You are viewing Sonu Kumar's screen

Vote of Thanks



Prof. (Dr.) Shilpi Jain
Host Institute Coordinator
Poornima College of Engineering



Participants (67)

Find a participant

- BS Balwan Sheshma (Co-host, Me)
- PS Prof. Shilpi Jain (Host)
- NS Neha Shrotriya (Co-host)
- SK Sonu Kumar (Co-host)
- DM Dr. Mehar Chand (Co-host)
- DP Dr. Pankaj Dhemla (Co-host)
- Prof. Anita Tomar Director FDC SDSUV... (Co-host)
- DR Dr. Ranjan Kumar Jana, SVNIT (Co-host)
- DN Dr. Nishant Gaur
- DR Dr. Rajender Singh
- OC OPPO CPH2363
- PA Prof. Ajay Pagare

Audio Start Video Security Participants Polls Share Screen More Leave

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Dr. Pankaj Dhemla


Prof. Shilpi Jain

Prof. Anita Tomar Director FDC...

You are viewing Sonu Kumar's screen



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MTTF
MothTech Thinking Foundation

**Faculty Development Programme for STEM Professionals on
Advancing Research Methodology through
Scientific Tools and Artificial Intelligence**

05-09 February 2024

Welcome to the Inaugural Ceremony!

Date: 05 February 2024 Time: 09:30-10:00 IST
06:00-06:30 SAST

Participants (70)

Find a participant

- BS Balwan Sheshma (Co-host, Me)
- PS Prof. Shilpi Jain (Host)
- NS Neha Shrotriya (Co-host)
- SK Sonu Kumar (Co-host)
- DM Dr. Mehar Chand (Co-host)
- DP Dr. Pankaj Dhemla (Co-host)
- Prof. Anita Tomar Director FDC SDSUV... (Co-host)
- DR Dr. Ranjan Kumar Jana, SVNIT (Co-host)
- DN Dr. Nishant Gaur
- DR Dr. Rajender Singh
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- PA Prof. Ajay Pagare

Audio Start Video Security Participants Polls Share Screen More Leave

Invite Mute All More

Recording Paused

Dr. Vijay Kumar

Prof. Shilpi Jain

Gangtak Nanpon

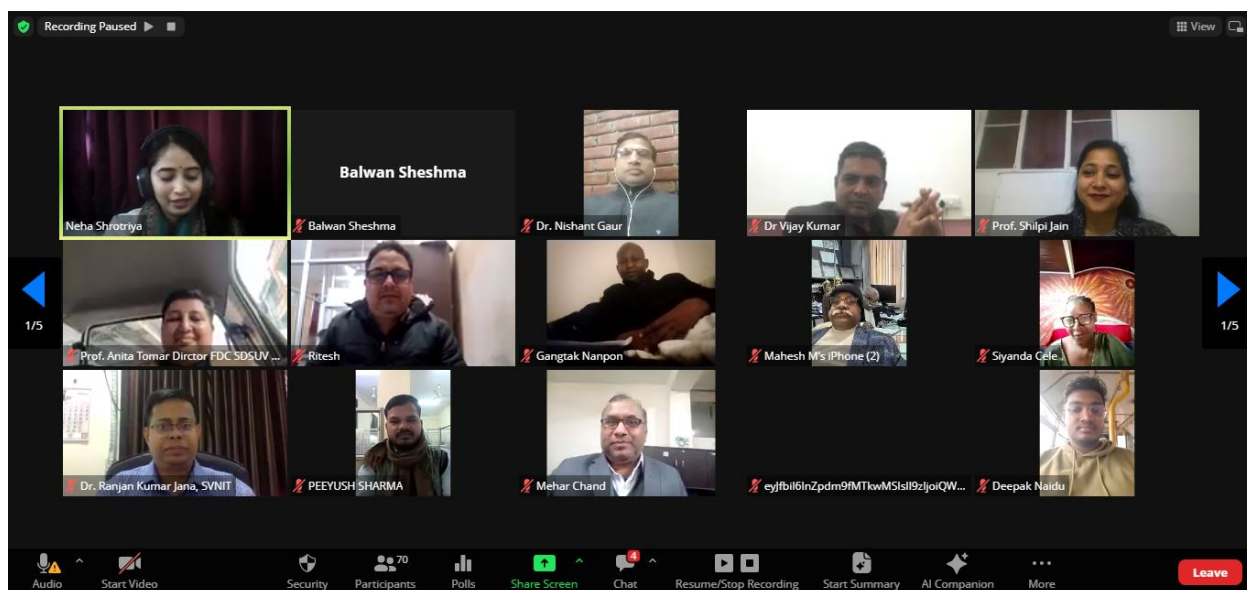
Mahesh M's iPhone (2)

Dr. Ranjan Kumar Jana, SVNIT

Cleopatra Mak... To Everyone
Thank you Kgomotso 🙏


Audio Start Video Security Participants Polls Share Screen Chat Resume/Stop Recording Start Summary AI Companion More Leave

Dr. Mahesh Bunde
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Director
Poornima College of Engineering
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Gulapura, JAIPUR



Day-I

Session-I



Faculty Development Programme for STEM Professionals on
Advancing Research Methodology through
Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-1/10:00-11:30

Introduction to Research Methodology: Overview of research fundamentals, Types of research and their significance, Ethical considerations in research

Resource person
Dr. Ruchita Verma
 Department of Financial Administration,
 Central University of Punjab, INDIA

Topic: Introduction to Research Methodology: Overview of Research Fundamentals, Types of Research and their Significance, Ethical Consideration in Research

Date & Day: February 05th, 2024 & Monday.

Time: 10:00 AM to 11:30 AM

Resource Person:

Dr. Ruchita Verma


Dr. Mahesh Bunde
 B.E., M.E., Ph.D.
 Director
 Poornima College of Engineering
 ISI-6, RILCO Institutional Area
 Silapura, JAIPUR

Dr. Ruchita Verma serves as an Assistant Professor in the Department of Financial Administration at the School of Management, Central University of Punjab. With a dedication to advancing knowledge in her field, she brings a wealth of experience and expertise to her role.

Dr. Ruchita Verma completed her Ph.D. in Commerce from Guru Nanak Dev University, Amritsar.

M.Com. in Accounting and Finance from Guru Nanak Dev University, Amritsar.

Dr. Verma is affiliated with prestigious organizations such as the Centre for Promoting Ideas (USA), The Indian Econometric Society (TIES), Indian Commerce Association (ICA), and Indian Accounting Association (IAA).

She has been contributing to academia since 2011, having served as an Assistant Professor at institutions like Central University of Rajasthan and Kanya Maha Vidyalaya (Jalandhar) before joining the Central University of Punjab in 2020.

Dr. Verma's research spans the areas of Finance & Accounting and General Management. Her interests include Merger and Acquisitions, Cryptocurrency Market, Corporate Fraud, and Health Insurance.

Apart from numerous publications and research projects, she has been recognized with awards like the Best Paper Award at the SIFICO International Conference on Risk Management in Banks and Financial Markets (2020).

Dr. Verma has actively participated in international conferences, sharing her insights on topics like the impact of Covid-19 on stock markets and the dynamics of the cryptocurrency market. As a mentor, she has guided Ph.D. candidates and supervised more than 30 dissertations for postgraduate students.

Her research work has been published in reputable journals, showcasing her contribution to the academic community. Noteworthy publications include articles on cryptocurrency market anomalies, corporate governance, and the impact of Covid-19 on global financial markets.

Dr. Verma has actively participated in institutional building, serving in roles such as Coordinator of the Department of Commerce and contributing to various academic committees. She has delivered keynote addresses and talks on topics ranging from Business Ethics to Goods and Service Tax (GST) Law in India.

Apart from her academic achievements, Dr. Verma has received recognition as a Subject Matter Expert at TCSion, Tata Consultancy Services.

About the Session:

Research methodology is the systematic process used to conduct scientific investigation and inquiry. It encompasses the principles, techniques, and procedures employed to gather, analyze, and interpret data in a structured manner to answer research questions or test hypotheses. Understanding research methodology is crucial for researchers across various disciplines as it forms the foundation for producing reliable and valid findings.

By understanding research fundamentals, types of research, and ethical considerations, researchers can conduct rigorous and ethical research that contributes meaningfully to their respective fields.

The screenshot shows a Zoom meeting interface. The main screen displays a title slide for a "Faculty Development Programme for STEM Professionals on Advancing Research Methodology through Scientific Tools and Artificial Intelligence". The slide includes logos for Poornima College of Engineering and MTTF (MathTech Thinking Foundation). It specifies the date as 05-09 February 2024 and the session as Session-1/10:00-11:30. The topic is "Introduction to Research Methodology: Overview of research fundamentals, Types of research and their significance, Ethical considerations in research". The resource person is Dr. Ruchita Verma, from the Department of Financial Administration, Central University of Punjab, India. On the right, a vertical list of participants is visible, including Ruchita Verma, Balwan Sheshma, and Dr. Saurabh Sharma. The bottom of the screen shows standard Zoom controls like Audio, Stop Video, Security, Participants, Polls, Share Screen, Chat, and a red "Leave" button.

The screenshot shows a Zoom meeting interface with a slide titled "What is Research?". The slide contains three bullet points defining research: 1) Research is defined as the detailed study of a subject, especially in order to discover information or reach an understanding (Cambridge Dictionary), or an endeavour to discover new or collate old facts by the scientific study of a subject or by a course of critical investigation (The Oxford Encyclopaedic English Dictionary). 2) It is a systematic process of collecting, analysing, and interpreting data to increase understanding of a phenomenon. Specifically, it is the systematic, controlled, empirical, and critical investigation of hypothetical propositions about presumed relations among natural or social phenomena. 3) Research is a combination of experience and reasoning and is regarded as an approach to the discovery of truth, where experience leads to knowledge and understanding through day-to-day living and reasoning is a method of coming to a conclusion by the use of logical argument. On the right, the participant list shows Mehar Chand, Balwan Sheshma, and Ruchita Verma. The bottom of the screen shows Zoom controls, including a red "Leave" button.

REC | |

You are viewing Ruchita Verma's screen. REC View Options

This meeting is being recorded x

Types of Research

- Descriptive Research
- Correlational Research
- Analytical Research
- Experimental Research
- Explanatory Research
- Exploratory Research
- Quantitative Research
- Qualitative Research
- Basic Research
- Applied Research

Geetika

Balwan Sheshma

Ruchita Verma

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REC | |

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The similarity checks for plagiarism shall exclude the following:

- i. All quoted work reproduced with all necessary permission and/or attribution.
- ii. All references, bibliography, table of content, preface and acknowledgements.
- iii. All generic terms, laws, standard symbols and standards equations.

Note:

The research work carried out by the student, faculty, researcher and staff shall be based on original ideas, which shall include abstract, summary, hypothesis, observations, results, conclusions and recommendations only and shall not have any similarities. It shall exclude a common knowledge or coincidental terms, up to fourteen (14) consecutive words.

Ruchita Verma

Balwan Sheshma

Amjad Islam Amjad

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REC | |

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This meeting is being recorded x

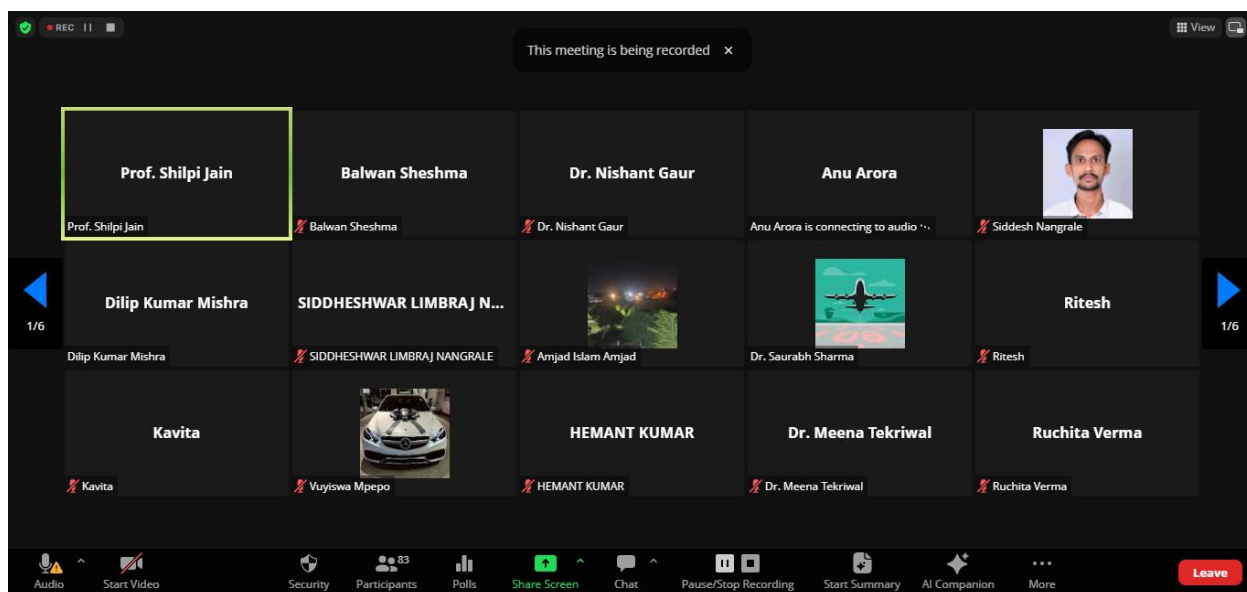
THANKS

Ruchita Verma

Balwan Sheshma

Siddesh Nangrale

Audio Start Video Security Participants Polls Share Screen Chat Pause/Stop Recording Start Summary AI Companion More Leave




Session-II

Topic: Scientific Tools for Research: Introduction to Statistical Tools, Data Analysis Techniques, Hands on Practice with Statistical Software

Date & Day: February 05th, 2024 & Monday.

Time: 01:30 PM to 03:30 PM

Resource Person: Dr. Upinder Kaur



Faculty Development Programme for STEM Professionals on
Advancing Research Methodology through
Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-2/13:30-15:30

Scientific Tools for Research: Introduction to statistical tools, Data analysis techniques,
Hands-on practice with statistical software

Resource person
Dr. Upinder Kaur
 Department of Computer Science and Engineering,
 Akal University, Bathinda, INDIA

Dr. Upinder Kaur

Dr. Upinder Kaur is working as an Assistant Professor in the Department of Computer Science, Akal University, Bathinda, Punjab, India. She received her Ph. D. Degree at Department of Computer Science and Applications, Kurukshetra University, Kurukshetra. She is in teaching


Dr. Mahesh Bunde
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since October 2006. She holds Master of Technology (M. Tech.) degree in Computer Science and Engineering from Maharishi Markandeshwar University, Mullana, Ambala, India. Her main research interests are in the areas of Distributed Computing, Distributed Data Structures, Cloud Computing, Data Science and Analytics, Machine Learning, Support Vector Machines, Stream Analytics, Deep Learning, Bio-Inspired Computing etc. She has hands on experience in big data analytics, data science, machine learning- python, R, Matlab, cloud simulators etc. She has focused in the last few years on the research issues in applications of deep learning in data science and analytics, cloud computing, bio signals. She has attended many National and International Conferences/workshops, and she has more than 30 research papers in national / international journals and conferences. She is also a member of IEEE, ACM and supervising three Ph.D. Scholars and several graduate and undergraduate students in multi-cloud domain and data science in agriculture and deep learning in bio-signals.

About the Session:

Statistical tools are essential instruments used by researchers, scientists, analysts, and decision-makers to analyze data, draw conclusions, and make informed decisions based on evidence. These tools help in summarizing data, identifying patterns, testing hypotheses, and making predictions.

Understanding and applying statistical tools correctly is crucial for ensuring the validity and reliability of research findings. Researchers need to select the appropriate statistical tools based on their research questions, data types, and study designs, and interpret the results accurately to draw meaningful conclusions.

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- UK upinder kaur (Co-host)
- NS Neha Shrotriya (Co-host)
- AM Abdu Mohammed
- Aml Shloof
- AB Appoorva Bansal
- DW Dereba Workineh Seboka
- DK Dr KD Gupta
- DK Dr Kulwinder
- DR Dr Rajender Singh
- DR Dr Rajender Singh Associate Pr...
- DS Dr Sangeeta
- DA Dr. Anurika Mehta

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- Dr. Tanuja Nautiyal
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- FM Fatai Musa Olajide
- FL Francis Lwesya
- GN Gangtak Nanpon
- HK Harpreet Kaur
- HK HEMANT KUMAR
- IA Idris Ali
- JV Janvika Varma
- JM Joy Martha
- K.Kattaswamy
- k Kamlesh Kumar

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Prof. Shilpi Jain Balwan Sheshma upinder kaur upinder kaur eyJfbil6inZpdm... Dr. Mehar Chand Dr. Mehar Chand PAPRI GHOSH Syed Beeban Ba... Nokuthula Syed Beeban Basha Nokuthula

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Prof. Shilpi Jain Balwan Sheshma Neha Shrotriya Neha Shrotriya upinder kaur upinder kaur eyJfbil6inZpdm... Dr. Mehar Chand Dr. Mehar Chand PAPRI GHOSH Syed Beeban Ba... Syed Beeban Basha Nokuthula Ritesh Kamlesh Kumar Aml Shloof Nahida Nazir Siddheshwar na... Nahida Nazir Siddheshwar nangrale

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Prof. Shilpi Jain Balwan Sheshma eyJfbil6inZpdm... Gangtak Nanpon upinder kaur upinder kaur eyJfbil6inZpdm... Dr. Mehar Chand Dr. Mehar Chand PAPRI GHOSH Syed Beeban Ba... Nokuthula Ritesh Syed Beeban Basha Nokuthula Ritesh Kamlesh Kumar Aml Shloof Nahida Nazir Siddheshwar na... Dr. Rajender Sin... Nahida Nazir Siddheshwar nangrale Dr. Rajender Singh S CELINE PRABHA Dr. Mayank Gupta Kavita Lal Dr. Tanuja Nautiyal Dr. Rajender Singh S CELINE PRABHA Dr. Mayank Gupta Kavita Lal Neha Deepak Naidu Wendimu Minal... Ravi Kumar Hada Wendimu Minalu Chalhisa Ravi Kumar Hada

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Day-2


Session-III

Topic: Basic Principles of Design and Analysis of Experiments: Designing effective experiments, Practical Application in Science and Engineering

Date & Day: February 06th, 2024 & Tuesday.

Time: 09:30 AM to 11:30 AM

Resource Person: Dr. Harmanpreet Singh Kapoor




Faculty Development Programme for STEM Professionals on
Advancing Research Methodology through Scientific Tools and Artificial Intelligence
05-09 February 2024 Session-3/09:30-11:30
Basic Principles of Design and Analysis of Experiment: Designing effective experiments, Practical applications in science and engineering
Resource person
Dr. Harmanpreet Singh Kapoor
Department of Mathematics and Statistics,
Central University of Punjab, Bathinda, INDIA

Dr. Harmanpreet Singh Kapoor, an esteemed Assistant Professor in the Department of Mathematics and Statistics at the School of Basic Sciences, holds a Ph.D. in Statistics from Panjab University Chandigarh, earned in 2014, along with a Gold Medal in M.Sc. Statistics in 2009. With an extensive professional background, he has successfully completed Actuarial Examinations from the Institute of Actuaries of India, specializing in various areas, including Financial Mathematics and Statistical Methods.

In his 11 years of research experience, Dr. Kapoor has become an expert in Actuarial Statistics, Statistical Modeling, Inferential Statistics, and Biostatistics. Currently serving as an Assistant Professor at the Central University of Punjab since August 2015, he previously held a position at Baba Farid College.

Dr. Kapoor's notable contributions in Actuarial Science, showcased through published papers



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and recognized achievements such as a Gold Medal in M.Sc. Statistics, affirm his prowess. Engaging in research collaborations, he has secured prestigious research grants, including a DST SERB-funded project on groundwater depletion.

An active member of professional organizations, Dr. Kapoor's commitment to education is evident through his participation in national and international conferences, workshops, and seminars. He has organized significant academic events and, as a resource person, delivered expert lectures and workshops on diverse topics. In summary, Dr. Harmanpreet Singh Kapoor stands as a dedicated academician and researcher, making substantial contributions to mathematics, statistics, and actuarial science.

About the Session:

The design and analysis of experiments is a fundamental aspect of scientific research, particularly in fields such as statistics, engineering, agriculture, and social sciences.

By adhering to these principles, researchers can design experiments that yield reliable and interpretable results, allowing them to draw valid conclusions and make informed decisions based on empirical evidence.

concerning the difference in means, but it doesn't specify "how different" they are

- **General form** of a confidence interval

$$L \leq \theta \leq U \text{ where } P(L \leq \theta \leq U) = 1 - \alpha$$
- The 100(1 - α)% **confidence interval** on the difference in two means:

$$\bar{y}_1 - \bar{y}_2 - t_{\alpha/2, n_1 + n_2 - 2} S_p \sqrt{(1/n_1) + (1/n_2)} \leq \mu_1 - \mu_2 \leq \bar{y}_1 - \bar{y}_2 + t_{\alpha/2, n_1 + n_2 - 2} S_p \sqrt{(1/n_1) + (1/n_2)}$$

Design & Analysis of Experiments 8E 2012 Montgomery

Zoom Meeting: You are viewing Prof. Shilpi Jain's screen. View Options. Recording. Sign in. View.

Participants: Prof. Shilpi Jain, Balwan Sheshma, Neha, Neha Shrotriya, Dr. Mayank Gupta.

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Introduction to Design and Analysis of Experiments

EXAMPLE 2.1

Nerve preservation is important in surgery because accidental injury to the nerve can lead to post-surgical problems such as numbness, pain, or paralysis. Nerves are usually identified by their appearance and relationship to nearby structures or detected by local electrical stimulation (electromyography), but it is relatively easy to overlook them. An article in *Nature Biotechnology* ("Fluorescent Peptides Highlight Peripheral Nerves During Surgery in Mice," Vol. 29, 2011) describes the use of a fluorescently labeled peptide that binds to nerves to assist in identification. Table 2.3 shows the normalized fluorescence after two hours for nerve and muscle tissue for 12 mice (the data were read from a graph in the paper).

We would like to test the hypothesis that the mean normalized fluorescence after two hours is greater for nerve tissue than for muscle tissue. That is, if μ_1 is the mean normalized fluorescence for nerve tissue and μ_2 is the mean normalized fluorescence for muscle tissue, we want to test

$$H_0: \mu_1 = \mu_2$$

$$H_1: \mu_1 > \mu_2$$

Design & Analysis of Experiments 8E 2012 Montgomery 32

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Prof. Shilpi Jain

Balwan Sheshma

Neha

Neha Shrotriya

Dr. Mayank Gupta

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Introduction to Design and Analysis of Experiments

What If There Are More Than Two Factor Levels?

$H_0: \mu_1 = \mu_2$

- The t-test does not directly apply
- There are lots of practical situations where there are either more than two levels of interest, or there are several factors of simultaneous interest
- The **analysis of variance** (ANOVA) is the appropriate analysis "engine" for these types of experiments
- The ANOVA was developed by Fisher in the early 1920s, and initially applied to agricultural experiments
- Used extensively today for industrial experiments

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Balwan Sheshma

Neha

Neha Shrotriya

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Introduction to Design and Analysis of Experiments

An Example

- An engineer is interested in investigating the relationship between the RF power setting and the etch rate for this tool. The objective of an experiment like this is to model the relationship between etch rate and RF power, and to specify the power setting that will give a desired target etch rate.
- The response variable is etch rate.
- She is interested in a particular gas (C2F6) and gap (0.80 cm), and wants to test four levels of RF power: 160W, 180W, 200W, and 220W. She decided to test five wafers at each level of RF power.
- The experimenter chooses 4 levels of RF power 160W, 180W, 200W, and 220W
- The experiment is **replicated** 5 times – runs made in random order

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Balwan Sheshma Neha Prof. Shilpi Jain Neha Shrotriya Dr. Mayank Gupta

Participants (55)

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PS Prof. Shilpi Jain (Host)

DM Dr. Mehar Chand (Co-host)

NS Neha Shrotriya (Co-host)

2N 23 navseer i c

AM Abdu Mohammed

A Akhilesh Latoria

AS Aml Shloof

AB Avishka Bishnoi

Dr Aparna Chaturvedi

DK Dr KD Gupta

DR Dr Rajender Singh

DR Dr Rajender Singh Associate Pr...

Dr Vijay Kumar

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FIGURE 3.10 Scatter diagrams and regression models for the etch rate data of Example 3.1

Design & Analysis of Experiments 8E 2012 Montgomery

Why Does the ANOVA Work?

We are sampling from normal populations, so

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The Random Effects Model

- There are a large number of possible levels for the factor (theoretically an infinite number)
- The experimenter chooses a of these levels at random
- Inference will be to the entire population of levels

Handwritten notes: 4.5, 100, Random Effect, Fixed, 1.60, 1.80, 2.00, 2.20, 1.10, 1.41, 1.62, 2.50

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Clipboard Font Alignment Number Styles Conditional Formatting Cell Styles Insert Delete Format Sort & Find & Filter Add-ins

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	160	180	200	220															
2	575	565	600	725															
3	542	593	651	700															
4	530	590	610	715															
5	539	579	637	685															
6	570	610	629	710															

Etch rate

Ready Accessibility: Good to go Average: 150 Count: 4 Sum: 760 05:54 IN 06-02-2024

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Get & Transform Data | Queries & Connections | Sort & Filter | Data Tools | What-If Analysis | Forecast | Outline | Analyze

Input Range: A1:K1 | Columns

Labels in First Row: ☐ | Alpha: 0.05

Output options: ☒ New Worksheet By: | ☐ New Worksheet

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Get & Transform Data | Queries & Connections | Sort & Filter | Data Tools | What-If Analysis | Forecast | Outline | Analyze

Anova: Single Factor

Groups	Count	Sum	Average	Variance
160	5	2755	551.2	400.7
180	5	2937	587.4	250.3
200	5	3127	625.4	421.3
220	5	3535	707	232.5

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	66870.55	3	22290.18	66.79707	2.88E-09	3.238872
Within Groups	5339.2	16	333.7			
Total	72209.75	19				

Etch rate

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Prof. Shilpi Jain | Balwan Sheshma | Neha | Neha Shrotriya | Dr. Mayank Gupta

Dr. Mehar Chand | Dr. Anurika Mehta | ASHRAF | Kamlesh Kumar

Dr. Mehar Chand | Dr. Anurika Mehta | ASHRAF | Kamlesh Kumar

SIDDHESHWAR... | Aml Shloof | Riddhi Shrivastava... | Mohammad Sajid | Dinesh Sharma

SIDDHESHWAR LIMBRAJ N... | Aml Shloof | Riddhi Shrivastava | Mohammad Sajid | Dinesh Sharma

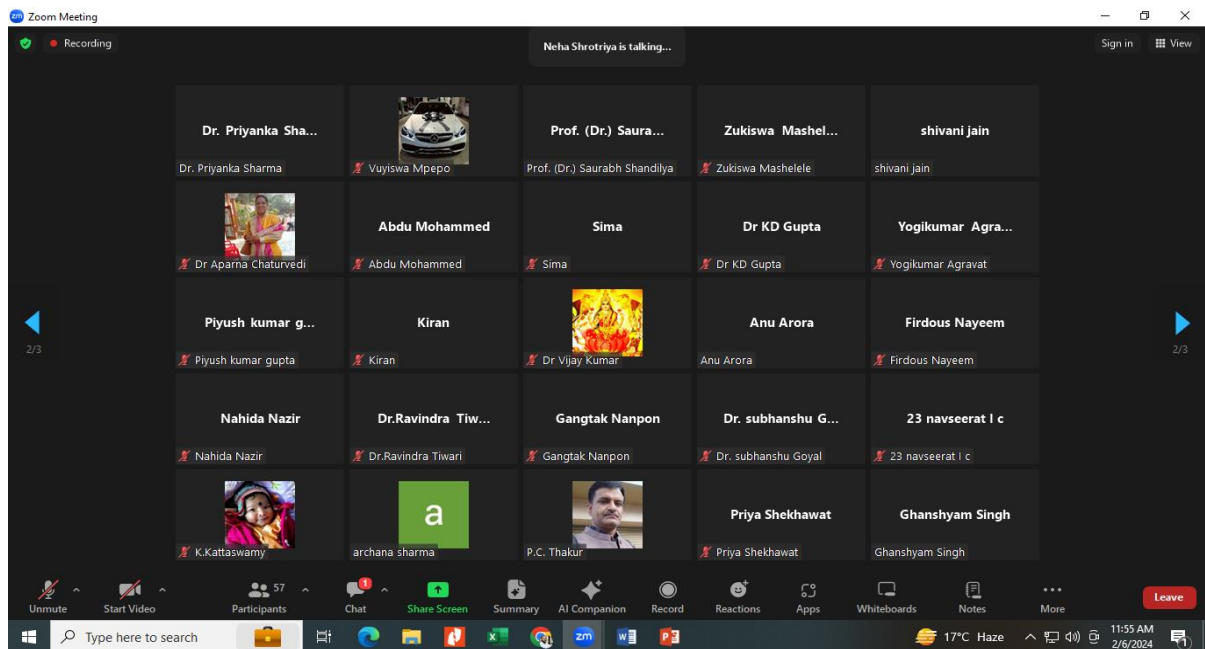
Dr. Shuchi | Archana Bhardwaj | Syed Beeban Ba... | Rachit Saxena | Dr. Meena Tekri...

Dr. Shuchi | Archana Bhardwaj | Syed Beeban Basha | Rachit Saxena | Dr. Meena Tekriwal

Amarjeet Bharti | Ritesh | Francis Lwesya | Durgesh kumar | Dr. Mehar Chand

Amarjeet Bharti | Ritesh | Francis Lwesya | Durgesh kumar | Dr. Mehar Chand

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Session-IV

Topic: Machine Learning in Research: Introduction to Machine Learning Concepts, Application of Machine Learning, Case Studies and Hands-on Exercises

Date & Day: February 06th, 2024 & Tuesday.

Time: 01:30 PM to 03:30 PM

Resource Person: Dr. Upinder Kaur



Facult Development Programme for STEM Professionals on

Advancing Research Methodology through Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-4/13:30-15:30

Machine Learning in Research: Introduction to machine learning concepts, Applications of machine learning in research, Case studies and hands-on exercises

Resource person

Dr. Upinder Kaur

Department of Computer Science and Engineering,
Akal University, Bathinda, INDIA


Dr. Mahesh Bunde
 B.E., M.E., Ph.D.
 Director
 Poornima College of Engineering
 ISI-6, RII CO Institutional Area
 Sikapura, JAIPUR

Dr. Upinder Kaur is working as an Assistant Professor in the Department of Computer Science, Akal University, Bathinda, Punjab, India. She received her Ph. D. Degree at Department of Computer Science and Applications, Kurukshetra University, Kurukshetra. She is in teaching since October 2006. She holds Master of Technology (M. Tech.) degree in Computer Science and Engineering from Maharishi Markandeshwar University, Mullana, Ambala, India. Her main research interests are in the areas of Distributed Computing, Distributed Data Structures, Cloud Computing, Data Science and Analytics, Machine Learning, Support Vector Machines, Stream Analytics, Deep Learning, Bio-Inspired Computing etc. She has hands on experience in big data analytics, data science, machine learning- python, R, Matlab, cloud simulators etc. She has focused in the last few years on the research issues in applications of deep learning in data science and analytics, cloud computing, bio signals. She has attended many National and International Conferences/workshops, and she has more than 30 research papers in national / international journals and conferences. She is also a member of IEEE, ACM and supervising three Ph.D. Scholars and several graduate and undergraduate students in multi-cloud domain and data science in agriculture and deep learning in bio-signals.

About the Session:

Machine learning (ML) has become an increasingly popular and powerful tool in various fields of research due to its ability to analyze large datasets, discover patterns, and make predictions or classifications without explicit programming instructions.

Overall, machine learning has revolutionized research across diverse domains by enabling researchers to leverage the power of data-driven analysis, automation, and prediction, leading to new discoveries, insights, and innovations.

The screenshot shows a Zoom meeting window. At the top, there's a status bar indicating 'You are viewing Dr. Mehhar Chand's screen'. Below this, a list of participants is visible: Balwan Sheshma, Prof. Shilpi Jain, Ayeni Abam - Ni..., Archana Bhardwaj, Dinesh Sharma, and FATIMA RAZAQ. The main content area displays a presentation slide titled 'Faculty Development Programme for STEM Professionals on Advancing Research Methodology through Scientific Tools and Artificial Intelligence'. The slide includes the logos of Poornima College of Engineering and MTTF (MathTech Thinking Foundation). The date '05-09 February 2024' and session time 'Session-4/13:30-15:30' are prominently displayed. The topic is 'Machine Learning in Research: Introduction to machine learning concepts, Applications of machine learning in research, Case studies and hands-on exercises'. The resource person is listed as 'Dr. Upinder Kaur, Department of Computer Science and Engineering, Akal University, Bathinda, INDIA'. The bottom of the Zoom window shows various controls like Unmute, Start Video, Security, Participants, Chat, Share Screen, Start Summary, AI Companion, Reactions, Apps, Whiteboards, Notes, and a 'Leave' button. The system tray at the very bottom shows the date as 2/6/2024 and time as 1:20 PM.

Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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MACHINE LEARNING

Machine learning is programming computers to optimize a performance criterion using example data or past experience. Machine learning can automatically detect patterns in data, and then to use the uncovered patterns to predict future data or outcomes of interest.

What

Human Learning

Observations → Learning → Skills

Machine Learning

Data → model/predictor → Predict

GPS Map Camera

Jaipur, RJ, India

Sitapura, Jaipur, 302022, RJ, India

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DM Dr. Mehar Chand (Co-host) [M] [V] [A]

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AK Akshay Kumar [M] [V] [A]

AZ Amidou ZOUNGRANA [M] [V] [A]

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AN Anand Raj [M] [V] [A]

AA ASHRAF [M] [V] [A]

AA Ayeni Abam - Nigeria [M] [V] [A]

DB Dr. Bimdeb Dey [M] [V] [A]

DW Divya waghela [M] [V] [A]

DR Dr. Rajender Singh [M] [V] [A]

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Recording...

MACHINE LEARNING

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What

Human Learning

Observations → Learning → Skills

Machine Learning

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Unsupervised Machine Learning Process Flow

Raw Data

Processing

OUTPUT

Translation

Algorithms

• No Labels

• No Training

• Unknown Outputs

AILabPage

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DM Dr. Mehar Chand (Co-host) [M] [V] [A]

NS Neha Shrotriya (Co-host) [M] [V] [A]

AZ Amidou ZOUNGRANA [M] [V] [A]

AS Aml Shloof [M] [V] [A]

AA ASHRAF [M] [V] [A]

AA Ayeni Abam - Nigeria [M] [V] [A]

DW Divya waghela [M] [V] [A]

DB Dr. Bimdeb Dey [M] [V] [A]

DR Dr. Rajender Singh [M] [V] [A]

DR Dr. Rajender Singh Associate Pr... [M] [V] [A]

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localhost:8888/notebooks/machine%20learning%20basic%20tutorials/customer%20churning/C... | Utomik Games | Booking.com | Express VPN | LastPass password... | Booking.com | Collaborative Variat... | Gmail | YouTube | Maps | Other favorites

Jupyter Customer Churning Prediction Last Checkpoint: 01/09/2024 (autosaved) | Not Trusted | Python 3 (pykernel)

Importing necessary libraries

```
In [1]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings('ignore')

from sklearn.preprocessing import LabelEncoder
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.naive_bayes import GaussianNB
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import RandomForestClassifier
from sklearn.neighbors import KNeighborsClassifier
from sklearn.svm import SVC
import xgboost as xgb

from sklearn.metrics
from sklearn.metrics import accuracy_score, auc, confusion_matrix, roc_auc_score, roc_curve, recall_score
```

```
In [2]: !pip install xgboost
```

Collecting xgboost

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Participants: Balwan Sheshma, Dr. Mehar Chand, Neha Shrotriya, upinder kaur, TECNOCAMON 16 P..., Prof. Shilpi Jain

Recording... | machine lea... | Chum Mode... | Customer Ch... | Fake News C... | Cohen's Kap... | Confusion M... | Classification... | +

localhost:8888/notebooks/machine%20learning%20basic%20tutorials/customer%20churning/C... | Utomik Games | Booking.com | Express VPN | LastPass password... | Booking.com | Collaborative Variat... | Gmail | YouTube | Maps | Other favorites

Jupyter Customer Churning Prediction Last Checkpoint: 01/09/2024 (autosaved) | Not Trusted | Python 3 (pykernel)

```
In [12]: df.columns
# Displaying column names
```

```
Out[12]: Index(['RowNumber', 'CustomerId', 'Surname', 'CreditScore', 'Geography',
              'Gender', 'Age', 'Tenure', 'Balance', 'NumOfProducts', 'NumOfActiviti...',
              'EstimatedSalary', 'Exited'], dtype=object)
```

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Type here to search | 20°C Sunny | 2:03 PM | 2/6/2024

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Participants: Balwan Sheshma, Dr. Mehar Chand, Neha Shrotriya, upinder kaur, Prof. Shilpi Jain, Archana Bhardwaj

Recording... | machine lea... | Chum Mode... | Customer Ch... | Fake News C... | Cohen's Kap... | Confusion M... | Classification... | +

javatpoint.com/machine-learning-decision-tree-classification-algorithm

Decision Tree Diagram:

```
graph TD
    RootNode[Decision Node] --> SubTree[Sub-Tree]
    RootNode --> Node1[Decision Node]
    SubTree --> Leaf1[Leaf Node]
    SubTree --> Leaf2[Leaf Node]
    Node1 --> Leaf3[Leaf Node]
    Node1 --> Node2[Decision Node]
    Node2 --> Leaf4[Leaf Node]
    Node2 --> Leaf5[Leaf Node]
```

Why use Decision Trees?

There are various algorithms in Machine learning, so choosing the best algorithm for the given

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Browser: javaupoint.com/machine-learning-random-forest-algorithm

Teachable Machine:

- Data Structure for Machine Learning
- Hypothesis in Machine Learning
- Gaussian Discriminant Analysis
- How Machine Learning is used by Famous Companies
- Introduction to Transfer Learning in ML
- LDA in Machine Learning
- Stacking in Machine Learning
- CNB Algorithm
- Deploy a Machine Learning Model using Streamlit Library
- Different Types of Methods for Clustering Algorithms in ML
- EM Algorithm in Machine Learning
- Machine Learning Pipeline
- Exploitation and Exploration in Machine Learning
- Machine Learning for Trading

Diagram: Instance (Fruit Basket) branching into Tree-1 (Apples), Tree-2 (Apples), ..., Tree-n (Bananas). Tree-1 and Tree-2 are labeled Class-A, and Tree-n is labeled Class-B. All trees lead to Majority-Voting, which leads to Final-Class (Apple).

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Browser: localhost:8888/notebooks/machine%20learning%20basic%20tutorials/customer%20churning/C...

Jupyter: Customer Churning Prediction

```

confusion_matrix train is: [[6142 285]
 [1570  9]]
confusion_matrix test is: [[1557  59]
 [365 10]]
Wrong predictions out of total
recall 0.049479166666666664
424 / 2000
KappaScore is: 0.018627959900751822

XG-Boost Classifier
In [40]: xgb = xgb.XGBClassifier().fit(X_train, Y_train)
#predict on train
train_preds7 = xgb.predict(X_train)
#accuracy on train
print("Model accuracy on train is: ", accuracy_score(Y_train, train_preds7))

#predict on test
test_preds7 = xgb.predict(X_test)
#accuracy on test
print("Model accuracy on test is: ", accuracy_score(Y_test, test_preds7))
print("--*--")

We got good accuracy which means our model is performing quite well!

```

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Browser: localhost:8888/notebooks/machine%20learning%20basic%20tutorials/customer%20churning/C...

Jupyter: Customer Churning Prediction

```

In [39]: #fit the model on train data
SVM = SVC(kernel='linear')
SVM.fit(X_train, Y_train)

#predict on train
train_preds6 = SVM.predict(X_train)
#accuracy on train
print("Model accuracy on train is: ", accuracy_score(Y_train, train_preds6))

#predict on test
test_preds6 = SVM.predict(X_test)
#accuracy on test
print("Model accuracy on test is: ", accuracy_score(Y_test, test_preds6))
print("--*--")

We got good accuracy which means our model is performing quite well!
#ROC
print("ROC score on train is: ", roc_auc_score(Y_train, train_preds6))
print("ROC score on test is: ", roc_auc_score(Y_test, test_preds6))
print("--*--")

#Confusion matrix
print("confusion_matrix train is: ", confusion_matrix(Y_train, train_preds6))
print("confusion_matrix test is: ", confusion_matrix(Y_test, test_preds6))
print("Wrong predictions out of total")
print("--*--")

print("recall", metrics.recall_score(Y_test, test_preds6))
print("--*--")

```

Handwritten notes: A graph showing a linear decision boundary with '+' and '-' labels. Below it, a graph showing a non-linear decision boundary with '+' and '-' labels. To the right, the text "XOR" is written.

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colab.research.google.com/drive/1Q6_P5NSDBOM46VWJA_EU_1bRBX7UAGx

Human Emotions Detection by Neuralearn.ai--:ipynb

File Edit View Insert Runtime Tools Help Changes will not be saved

+ Code + Text Copy to Drive

```

{
  "N_DENSE_2": 128,
  "NUM_CLASSES": 3,
  "PATCH_SIZE": 16,
  "PROJ_DIM": 768,
  "CLASS_NAMES": ["angry", "happy", "sad"],
}

train_directory = "/content/dataset/Emotions Dataset/Emotions Dataset/train"
val_directory = "/content/dataset/Emotions Dataset/Emotions Dataset/test"

```

+ Code + Text

Wandb Installation

4.5 cells hidden

Data Management

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Dr. Mehar Chand	Balwan Sheshma	Prof. Shilpi Jain	Neha Shrotriya	Gangtak Nanpon
Archana Bhardwaj	Siddheshwar na...	Dr. Priyanka Sha...	Uhlumé	HEMANT KUMAR
Archana Bhardwaj	Siddheshwar nangrale	Dr. Priyanka Sharma	Uhlumé	HEMANT KUMAR
Dr. Mayank Gupta	Dr. Mehar Chand	Prof. (Dr.) Saura...	Dr. subhanshu G...	Zukiswa Mashel...
Dr. Mayank Gupta	Dr. Mehar Chand	Prof. (Dr.) Saurabh Shandilya	Dr. subhanshu Goyal	Zukiswa Masheslele
Kavita Lal	Aml Shloof	Dr. Anurika Mehta	Dr. Ravindra Ku...	ASHRAF
Kavita Lal	Aml Shloof	Dr. Anurika Mehta	Dr. Ravindra Kumar Tiwari	ASHRAF
OUSMANE FOM...	Amidou ZOUNG...	Yogikumar Agra...	Dr Rajender Sin...	Piyush kumar g...
OUSMANE FOMBA	Amidou ZOUNGRANA	Yogikumar Agravat	Dr Rajender Singh Associat...	Piyush kumar gupta

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Machine Learning in Research: In...

<https://forms.gle/7ZQawevTWYjo8b5n9>

You to Everyone 3:10 PM

FeedbackLink<https://forms.gle/7ZQawevTWYjo8b5n9>

Who can see your messages? Recording On

To: Everyone

Type message here...

Type here to search

20°C 3:10 PM 2/6/2024


Day-3 Session-V

Topic: Big Data Analytics: Overview of big data and its challenges, Tools and Techniques for Big Data Analytics, Case Studies in Science and Engineering Research.

Date & Day: February 07th, 2024 & Wednesday.

Time: 09:30 AM to 11:30 AM

Resource Person: Dr. Shalu Gupta



Facility Development Programme for STEM Professionals on
Advancing Research Methodology through Scientific Tools and Artificial Intelligence
05-09 February 2024 Session-7/09:30-11:30
Big Data Analytics: Overview of big data and its challenges, Tools and techniques for big data analytics, Case studies in science and engineering research
Resource person
Dr. Shalu Gupta
Department of Computer Science,
Baba Farid College, Bathinda, INDIA

Dr. Shalu Gupta is a distinguished Assistant Professor in the Department of Computer Science at Baba Farid College, located in Bathinda, Punjab, India. Her academic journey includes the attainment of a Ph.D. degree from the Department of Computer Science at Assam Don Bosco University in Assam, showcasing her dedication to advancing knowledge in her field.

With over 8 years of experience in the realm of teaching and an additional 3 years as a software programmer in the industry, Dr. Gupta brings a wealth of knowledge to her role. Her professional experience includes leadership roles in various projects, where she collaborated with teams of 4-5 software programmers.

Dr. Gupta holds a Master of Technology (M.Tech.) degree in Computer Science and Engineering from Lovely Professional University in Phagwara, Punjab, India. Her research interests span a wide array of domains, including Image Processing (IP), Pattern Recognition (PR), Natural Language Processing (NLP), Data Science and Analytics, and Machine Learning. Beyond her academic and professional pursuits, Dr. Shalu Gupta actively contributes to societal welfare. She has delivered invited talks on E-waste Management and Disposal Awareness in Punjab, showcasing her commitment to addressing contemporary environmental challenges.

Her expertise extends to hands-on experience in data science and machine learning, utilizing programming languages such as Python and MATLAB. Dr. Gupta's dedication to research is evident through her participation in numerous National and International Conferences and workshops. Additionally, she has authored over 20 research papers that have been published in prestigious national and international journals and conferences, further establishing her as a notable figure in the field of computer science.

About the Session:

Big data refers to large and complex datasets that cannot be effectively managed, processed, or analyzed using traditional data processing tools and methods. These datasets are characterized by their volume, velocity, variety, and veracity, often referred to as the "4Vs" of big data.





Addressing these challenges requires a holistic approach involving advanced technologies, innovative methodologies, interdisciplinary collaboration, and organizational readiness to harness the potential of big data for driving business innovation, scientific discovery, and societal advancement.



Zoom Meeting

Recording... ||

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Prof. Shilpi Jain	Balwan Sheshma	Neha Shrotriya	Dr. Mehar Chand	Dr. Ranjan Kum...
Prof. Shilpi Jain	Balwan Sheshma	Neha Shrotriya	Dr. Mehar Chand	Dr. Ranjan Kumar Jana, SV...
Anu Arora	Kavita Lal	Siddheshwar na...	Gaurav Sharma	
Anu Arora	Kavita Lal	Siddheshwar nangrale	Gaurav Sharma	Chandan Kumar
Ritesh	Dr Rajender Sin...	Ravi Kumar Hada	Janvika Varma	
Ritesh	Dr Rajender Singh Associat...	Ravi Kumar Hada	Janvika Varma	Akhilesh Latoria
Dr. Nishant Gaur		Dr Kulwinder	Dr. Anurika Mehta	
Dr. Nishant Gaur	Kamlesh Kumar	Dr Kulwinder	Dr. Anurika Mehta	K.Kattaswamy
HEMANT KUMAR	Nitesh Mudgal	Prof. Ajay Pagare	dinesh sharma	Dr. Mayank Gupta
HEMANT KUMAR	Nitesh Mudgal	Prof. Ajay Pagare	dinesh sharma	Dr. Mayank Gupta

Participants (63)

Q. Find a participant

BS

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(Co-host, me)

PS

Prof. Shilpi Jain (Host)

DM

Dr. Mehar Chand (Co-host)

DS

Dr. Shalu Gupta (Co-host)

NS

Neha Shrotriya (Co-host)

AM

Abdu Mohammed

A

Akhilesh Latoria

Amjad Islam Amjad

AS

Aml Shloof

a

archana sharma

ASHRAF

Chandan Kumar

CJ

Chitra Jalota

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Start Video

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AI Companion

Apps

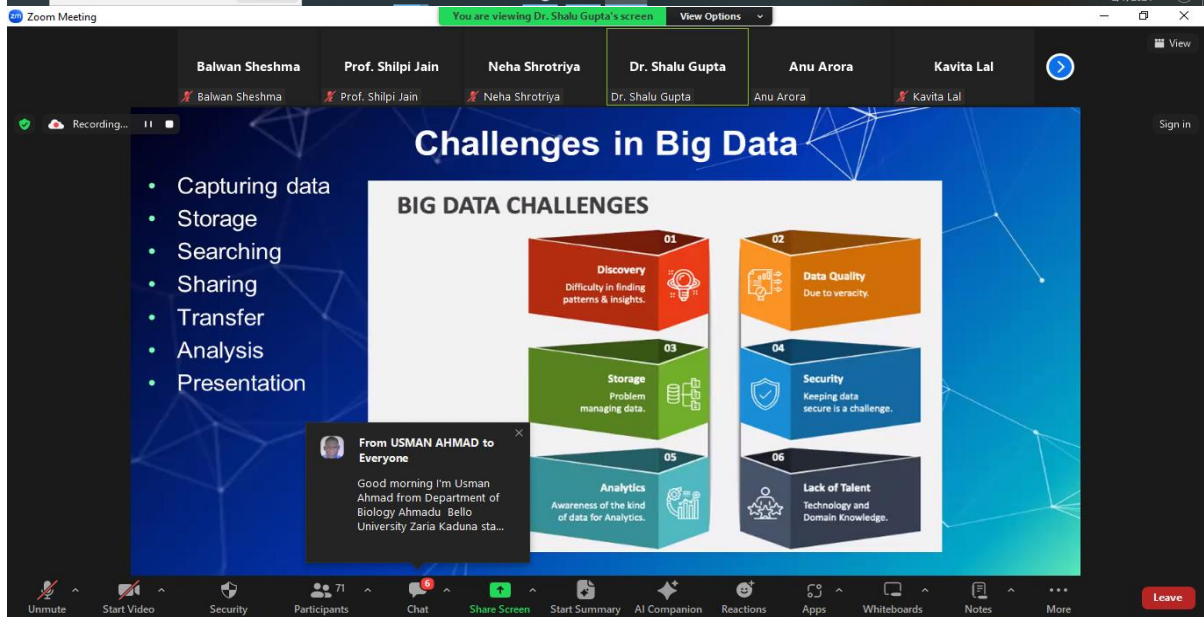
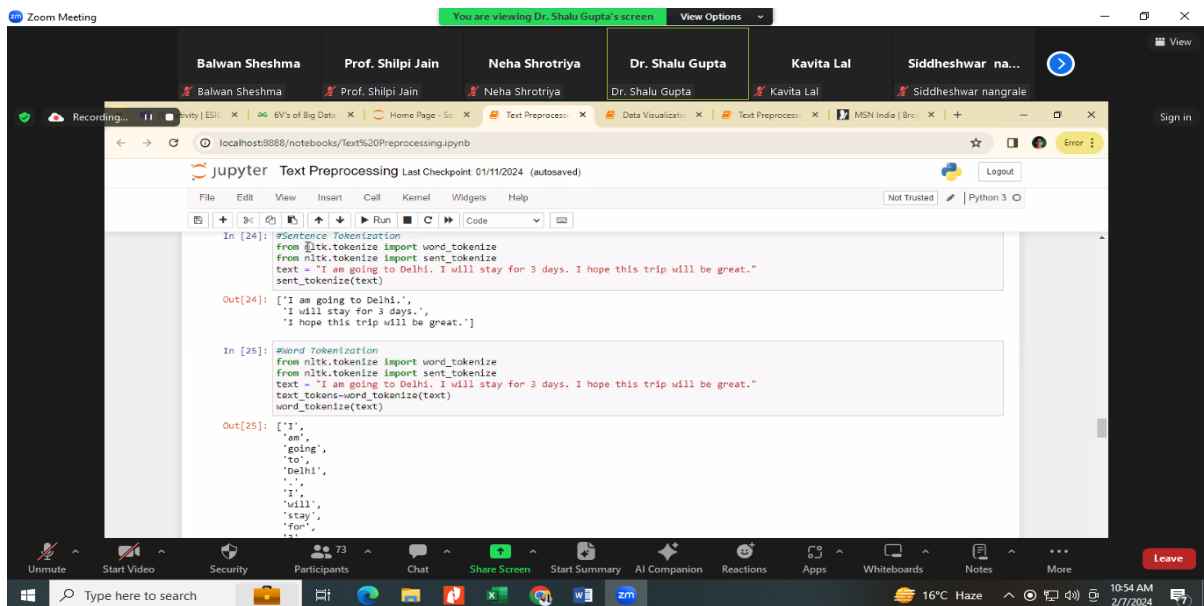
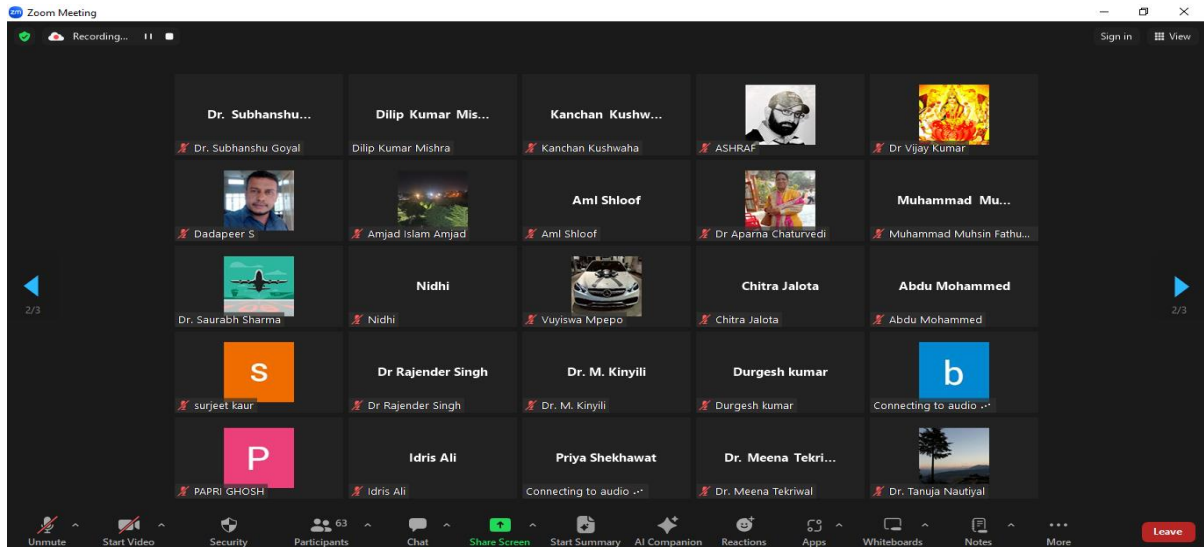
Whiteboards

Notes

More

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Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poonima College of Engineering
ISI-6, FIICO Institutional Area
Ghatapada, JAIPUR



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Participants: Balwan Sheshma, Neha Shrotriya, Dr. Shalu Gupta, Kavita Lal, Siddheshwar na...

Recording...

localhost8888/notebooks/Text%20Preprocessing.ipynb

Jupyter Text Preprocessing Last Checkpoint: 01/11/2024 (autosaved)

```

In [55]: # Import the necessary libraries
import nltk #Natural Language Toolkit
import string
import re
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize

In [59]: # Text Lowercase (To Change the text into lower case)
def text_lowercase(text):
    return text.lower()
input_str = "Hello, How are you?"
print(text_lowercase(input_str)) #calling of a function
Hello, How Are You?

In [61]: #To Search digit pattern
import re
def remove_digits(text):
    pattern=re.compile("[0-9]{3}")
    return pattern.sub("",text)
text = "Roll Nos. are 8463734923 453 657 567"
print(remove_digits(text))
Roll Nos. are 3
  
```

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Participants (68)

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- AG Adinew Gebremichael Mery
- A Akhilesh Latoria
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- DK Dr KD Gupta

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localhost8888/notebooks/Text%20Preprocessing.ipynb

Jupyter Text Preprocessing Last Checkpoint: 01/11/2024 (autosaved)

```

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Roll Nos. are 3
  
```

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Dr. Anurika Mehta K.Kattaswamy Nitesh Mudgal Prof. Ajay Pagare dinesh sharma

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Dr. Mayank Gupta Dilip Kumar Mishra ASHRAF Dr Vijay Kumar Dadapeer S

Dr Aparna Chaturvedi Muhammad Mu... Chitra Jalota surjeet kaur

Dr Aparna Chaturvedi Muhammad Muhsin Fathu... Vuyiswa Mpepo Chitra Jalota surjeet kaur

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- Chandan Kumar
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- Dadapeer S
- Dr Aparna Chaturvedi
- DK Dr KD Gupta

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Session-VI

Topic: AI-driven Research Projects: Showcasing successful AI-driven Research Projects, Collaborative Discussion on Potential Research Ideas, Group Activity: Designing and AI-driven Research Proposal.

Date & Day: February 07th, 2024 & Wednesday.

Time: 01:30 PM to 03:30 PM

Resource Person: Dr. Aparna Kumari



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Faculty Development Programme for STEM Professionals on

Advancing Research Methodology through Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-6/13:30-15:30

AI-driven Research Projects: Showcasing successful AI-driven research projects, Collaborative discussion on potential research ideas, Group activity: Designing an AI-driven research proposal

Resource person

Dr. Aparna Kumari

Department of CSE, Institute of Technology,
Nirma University, Ahmedabad, Gujarat, INDIA

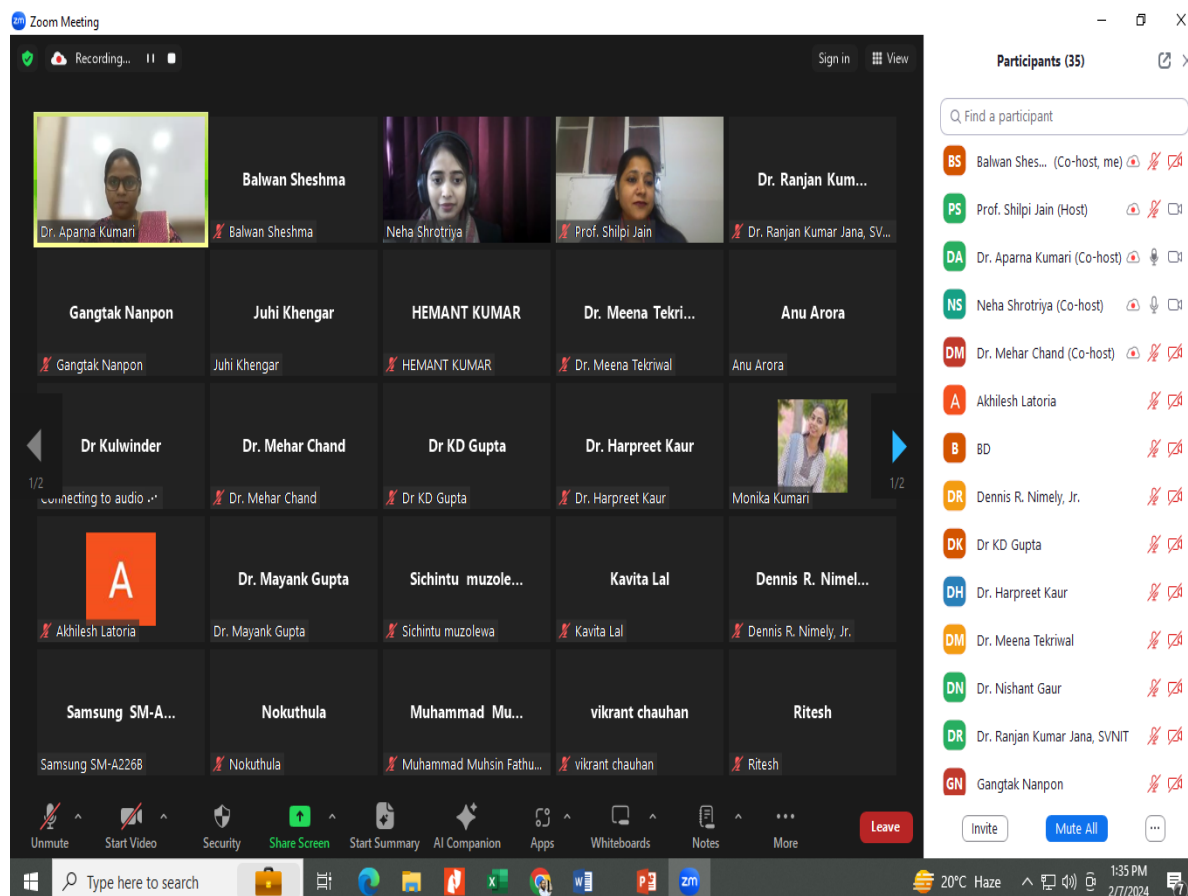
Dr. Aparna Kumari, is associated with the Department of Computer Science and Engineering, Institute of Technology, Nirma University, Ahmedabad, Gujarat, India. She is having more than 13+ years of experience and focuses on cutting-edge research and teaching. Her broad research area includes Smart Grid Systems, Blockchain Technology, Electric Vehicles, and Renewable Energy Sources. Recently, She has won Shri P Prahlada Chabaria Award-2023 for Best women Profession- as a Runner up from Hope foundation, IEEE India council, IEEE affinity group, IEEE pune section and WIE. She has been listed in the world's Top 2% Scientists as per the list published by Stanford University's USA in the years 2021,2022, and 2023. Two of her novel works on COVID-19 have been approved by the WHO and included in their "COVID-19 Global literature on coronavirus disease" database. She authored/coauthored 40 publications (28 in peer-reviewed SCI-indexed International journals, 10 papers presented in top-tier IEEE International conferences, and 02 book chapters in Springer and IET). She is an active member of IEEE and Women in Engineering (WIE) India. She strives to contribute to

society through her outreach to societal projects. She aims to facilitate access to resources for underprivileged students.

About the Session:

AI-driven research projects leverage artificial intelligence (AI) technologies to address complex problems, generate new insights, and advance knowledge in various fields. These projects harness the capabilities of machine learning, natural language processing, computer vision, and other AI techniques to analyze data, automate tasks, and make predictions or recommendations.

These examples demonstrate the diverse applications of AI-driven research projects in advancing knowledge, solving complex problems, and driving innovation across various domains. As AI technologies continue to evolve and mature, they will play an increasingly important role in shaping the future of research and discovery.



Zoom Meeting

Balwan Sheshma, Neha Shrotriya, Dr. Aparna Kumari, Dr. Ranjan Kum..., Prof. Shilpi Jain

Recording...

Outline

- Introduction
- Evolution of AI in Writing
- Impact on Traditional Writing and AI-based Writing
- Applications of AI in writing Research projects
- Collaborative discussion on potential research ideas
- AI Challenges and Limitations
- Future Trends in AI-driven Research Projects
- Group activity: Designing an AI-driven research proposal
- Conclusion

Jaipur, RJ, India
Sitatapura, Jaipur, 302022, RJ, India
Lat 26.765707, Long 75.853168
02/07/2024 01:36 PM GMT+05:30
Note : Captured by GPS Map Camera

Participants (36)

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- PS Prof. Shilpi Jain (Host)
- DA Dr. Aparna K... (Co-host)
- NS Neha Shrotriya (Co-host)
- DM Dr. Mehar Chand (Co-host)
- Akhilesh Latoria
- BD
- DR Dennis R. Nimely, Jr.
- DK Dr. KD Gupta
- DR Dr. Rajender Singh
- DH Dr. Harpreet Kaur
- DM Dr. Meena Tekriwal
- DN Dr. Nishant Gaur
- DR Dr. Ranjan Kumar Jana, SVNIT

GPS Map Camera

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Balwan Sheshma, Dr. Aparna Kum..., Neha Shrotriya, Dr. Ranjan Kum..., Prof. Shilpi Jain

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Figure 3: AI Landscape

Participants (44)

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- DM Dr. Mehar Chand (Co-host)
- NS Neha Shrotriya (Co-host)
- AM Abdu Mohammed
- A Akhilesh Latoria
- AM Amjad Islam Amjad
- BD
- DR Dennis R. Nimely, Jr.
- DK Dr. KD Gupta
- DR Dr. Rajender Singh
- DH Dr. Harpreet Kaur
- DM Dr. Meena Tekriwal

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Balwan Sheshma, Dr. Mehar Chand, Dr. Aparna Kum..., Gangtak Nanpon, Amjad Islam Amjad

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barf.google.com/chat/8cbf29759d913b7

Bard Experiment

New chat

Recent

- Cancer Prediction System Mo...
- Understanding System Model ...
- Figure Explained
- Show more

The list of references is not exhaustive and can be expanded based on your specific focus.

I hope this literature survey provides a starting point for your exploration of this important topic.

generate the budget for this project "Designing a Deep Learning-Powered Cancer Detection System for Women in India"

View other drafts

Unfortunately, I cannot definitively generate a complete budget for the project "Designing a Deep Learning-Powered Cancer Detection System for Women in India" due to the immense variability in factors.

write budget

Ahmedabad, Gujarat, India
From your IP address · Update location

Participants (56)

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- DA Dr. Aparna K... (Co-host)
- DM Dr. Mehar Chand (Co-host)
- NS Neha Shrotriya (Co-host)
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- A Akhilesh Latoria
- AK AMIT KUMAR MANDAL
- AM Amjad Islam Amjad
- ASHRAF
- BD
- DR Dennis R. Nimely, Jr.
- DK Dr. KD Gupta
- DR Dr. Rajender Singh

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Balwan Sheshma

Dr. Aparna Kum...

Gangtak Nanpon

Neha Shrotriya

Recording...

Group Activity: Designing an AI-driven Research Proposal

- Group Formation
- Structure of the Group Activity
 - Brainstorming Session
 - Collaborative Design
 - Role Allocation
 - Feedback and Iteration
 - Presentation Preparation
- Guidance for Group Activity:
 - Integration of AI
 - Effective Collaboration
 - Adaptability
 - Real-world Relevance
 - Creativity and Innovation

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Zoom Meeting

Participants (59)

Find a participant

BS Balwan Shes... (Co-host, me)

PS Prof. Shilpi Jain (Host)

Amjad Islam Amjad

GN Gangtak Nanpon

DA Dr. Aparna Kumari (Co-host)

DM Dr. Mehar Chand (Co-host)

NS Neha Shrotriya (Co-host)

2N 23 navseerat I c

AM Abdu Mohammed

A Akhilesh Latoria

AK AMIT KUMAR MANDAL

Chandan Kumar

CJ Chietra Jalota

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Participants (57)

Find a participant

BS Balwan Shes... (Co-host, me)

PS Prof. Shilpi Jain (Host)

AM Abdu Mohammed

DA Dr. Aparna Kumari (Co-host)

DM Dr. Mehar Chand (Co-host)

NS Neha Shrotriya (Co-host)

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A Akhilesh Latoria

AK AMIT KUMAR MANDAL

Chandan Kumar

CJ Chietra Jalota

DR Dennis R. Nimely, Jr.

DK Dr KD Gupta

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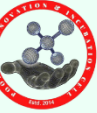

Session-VII

Topic: Introduction to Artificial Intelligence: Basics of AI and its Relevance in Research, AI Tools for Data Analysis, Hands-on Experience with AI Applications

Date & Day: February 08th, 2024 & Thursday.

Time: 09:30 AM to 11:30 AM

Resource Person: Dr. Ihtiram Raza Khan

Faculty Development Programme for STEM Professionals on Advancing Research Methodology through Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-5/09:30-11:30

Introduction to Artificial Intelligence: Basics of AI and its relevance in research, AI tools for data analysis, Hands-on experience with AI applications

Resource person

Prof. (Dr.) Ihtiram Raza Khan
Academician at Jamia Hamdard University,
Delhi, INDIA


Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-0, RICO Institutional Area
Gulapura, JAIPUR

Prof. (Dr.) Ihtiram Raza Khan, a distinguished senior academician currently serving at Jamia Hamdard, Delhi. With over 26 years of extensive experience, Dr. Khan holds a PhD in the field of software engineering and neural networks. His research expertise spans across a multitude of domains including Software Engineering, Computer Graphics, Machine and Deep Learning, Big Data Analytics, Cybersecurity, and IoT.

Notably, Dr. Khan has actively contributed to training and placement activities, holding key positions and providing consultancy to more than 15 companies. His prolific academic career is underscored by the acquisition of over 20 international and Indian patents and copyrights, authorship of over 20 books and 30 book chapters, and publication of 75+ research papers in esteemed SCI/Scopus/Springer journals.

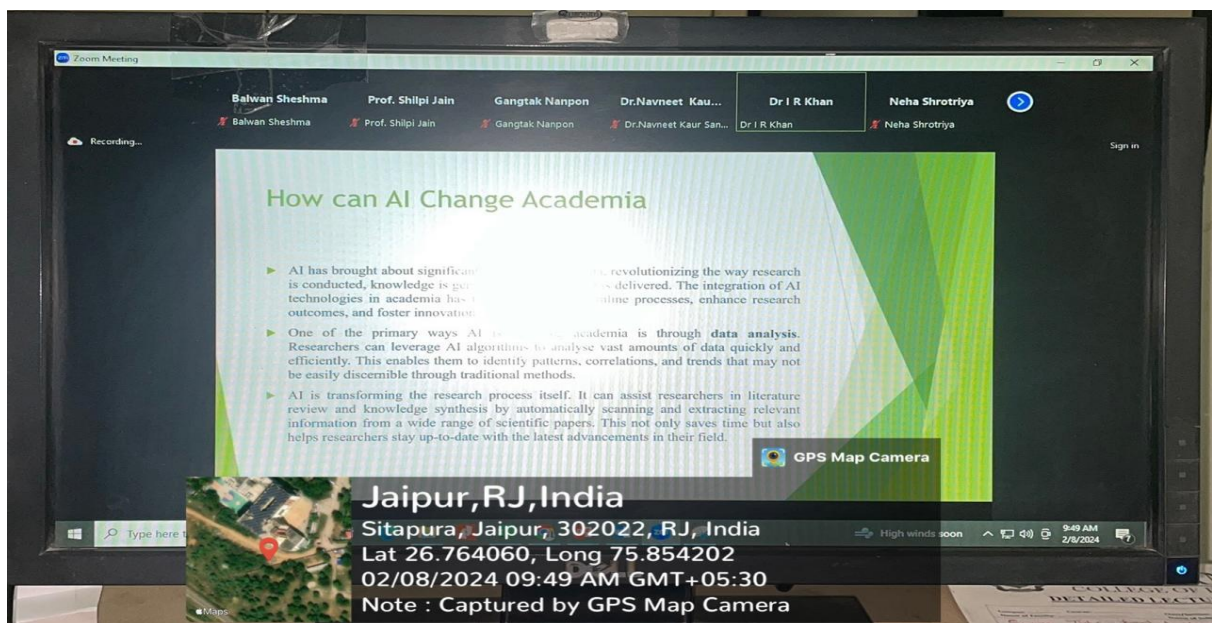
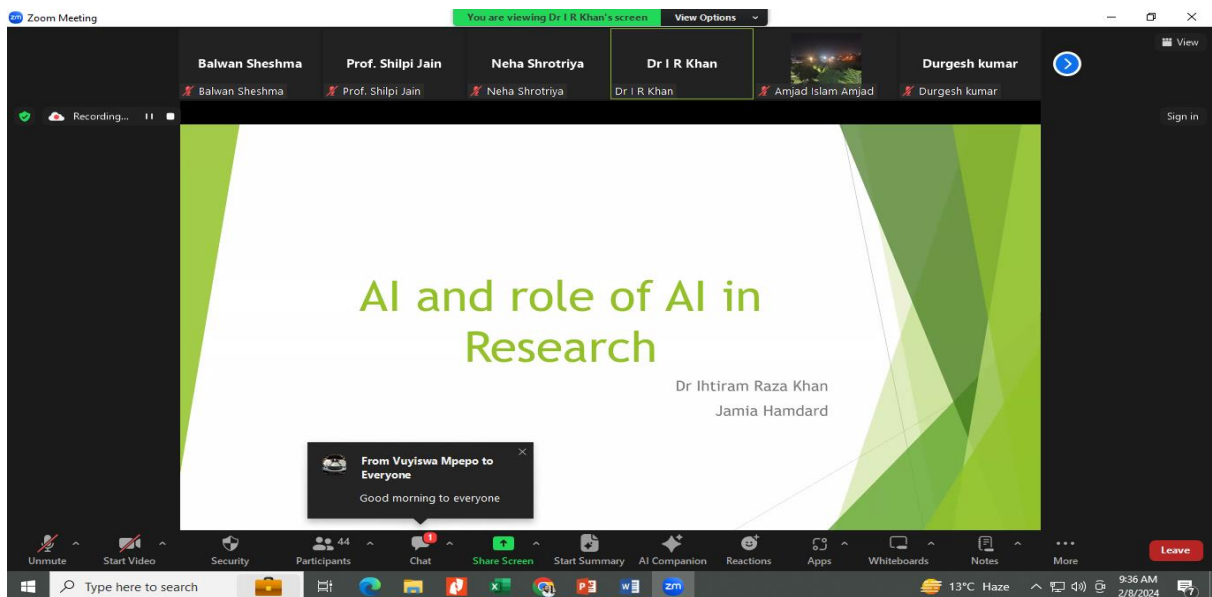
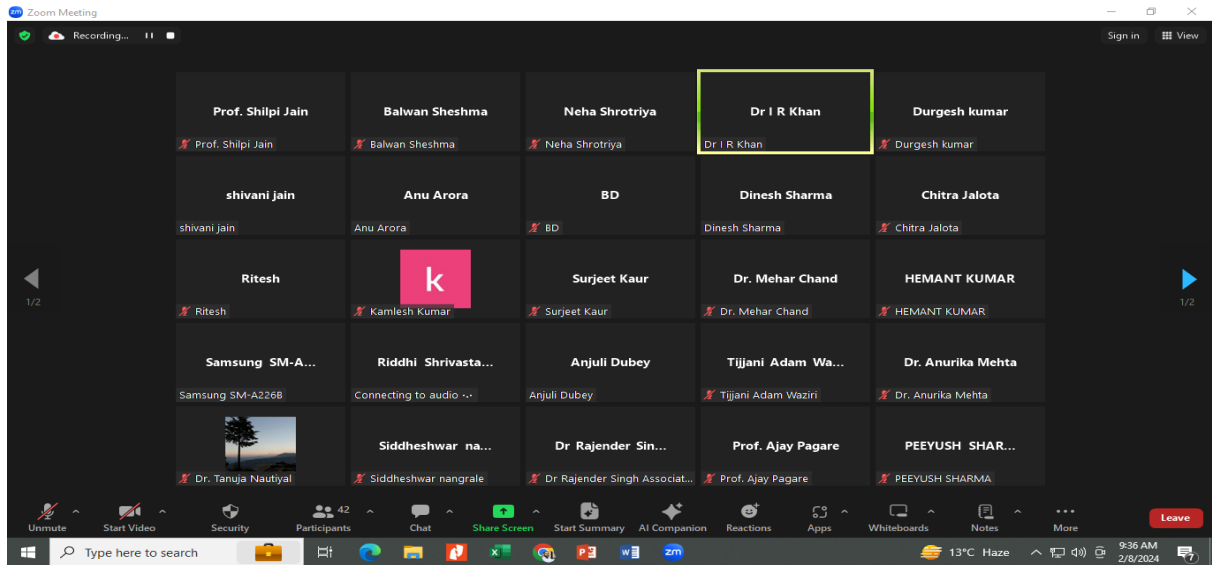
Dr. Khan's influence extends globally through his involvement in over 55 invited talks and 25 keynote addresses, solidifying his reputation as a renowned international speaker. Additionally, he serves as an Associate Editor at the International Journal of End-User Computing and Development (IJEUCD), and as a reviewer for Springer Nature and the International Journal of Engineering Research and Technology (IJERT).

As a senior member of IEEE, CSI, and ISTE, Dr. Khan continues to shape the landscape of academia and research with his profound contributions and expertise.

About the Session:

Artificial Intelligence (AI) has emerged as a transformative technology with vast implications across various sectors, from healthcare to finance, transportation to entertainment. Understanding the basics of AI, its relevance in research, and its practical applications is crucial in today's rapidly advancing technological landscape. This introduction aims to provide a foundational understanding of AI, its significance in research endeavors, tools for data analysis, and hands-on experience with AI applications.

As AI continues to evolve, understanding its fundamentals, relevance in research, and practical applications becomes increasingly essential. By grasping the basics of AI, harnessing its tools for data analysis, and gaining hands-on experience with AI applications, researchers and practitioners can unlock new opportunities for innovation and drive meaningful impact across various domains.



Zoom Meeting

Balwan Sheshma Prof. Shilpi Jain Dr I R Khan Chitra Jalota Ritesh

Recording...

Challenges and Ethical Considerations in AI-Driven Academic Research

While AI-driven academic research offers significant benefits, there are also several challenges and ethical considerations that researchers must address. Here are some of the key challenges and ethical considerations associated with AI in academic research:

- **Data bias and fairness:** AI systems are trained on data, and if the training data is biased or reflects societal prejudices, the AI models can perpetuate these biases. Researchers need to carefully curate and preprocess data to ensure fairness and mitigate bias in AI models.
- **Privacy and data protection:** AI research often involves handling large amounts of data, including personal and sensitive information. Researchers must ensure that data collection, storage, and analysis adhere to relevant privacy regulations and obtain informed consent from participants.

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DM Dr. Mehar Chand (Co-host)

NS Neha Shrotriya (Co-host)

AM Abdu Mohammed

AG Adinew Gebremichael Mery

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Akinwunmi Adeoye

AS Aml Shloof

B BD

B Bharti

Chandan Kumar

CJ Chitra Jalota

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Zoom Meeting

Balwan Sheshma Prof. Shilpi Jain Dr I R Khan Chitra Jalota Ritesh

Recording...

The Future of AI in Academic Research

The future of AI in academic research holds immense potential for transformative advancements. Here are some trends, opportunities, and potential impacts to consider:

- **Interdisciplinary collaboration:** AI brings together researchers from different disciplines, fostering collaboration and enabling breakthrough insights.
- **Data-driven discoveries:** AI algorithms extract valuable insights from large datasets, revolutionizing research across disciplines.
- **Personalized and adaptive learning:** AI technologies provide tailored educational experiences, assessing student performance and offering targeted feedback.
- **Enhanced scientific discovery:** AI assists researchers in hypothesis generation, experiment design, and data analysis, accelerating the research process.
- **Ethical considerations and responsible AI:** Researchers address bias, transparency, privacy, and accountability to ensure ethical and responsible AI use.

Participants (63)

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NS Neha Shrotriya (Co-host)

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Zoom Meeting

Balwan Sheshma Prof. Shilpi Jain Dr I R Khan Chitra Jalota Ritesh

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Applications of AI in Smart Cities

ADVANCED SECURITY CAMERA

ADVANCED SURVEILLANCE SYSTEM

SMART WASTE MANAGEMENT

TRANSFORMATIVE APPLICATIONS OF AI IN SMART CITIES

ADVANCED FLYING OBJECTS

FACE DETECTION CAMERAS

TRANSPORTATION

► Applications of AI in smart cities

Participants (56)

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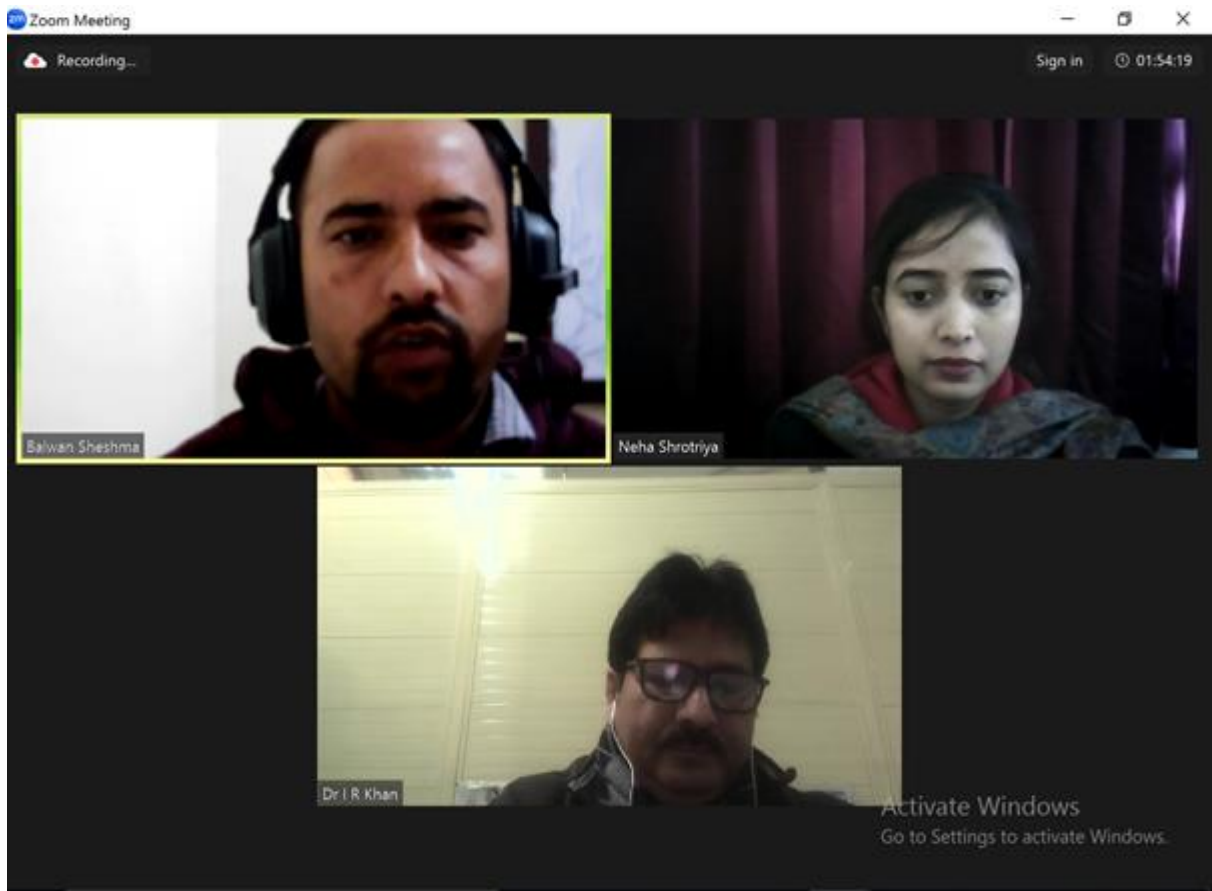
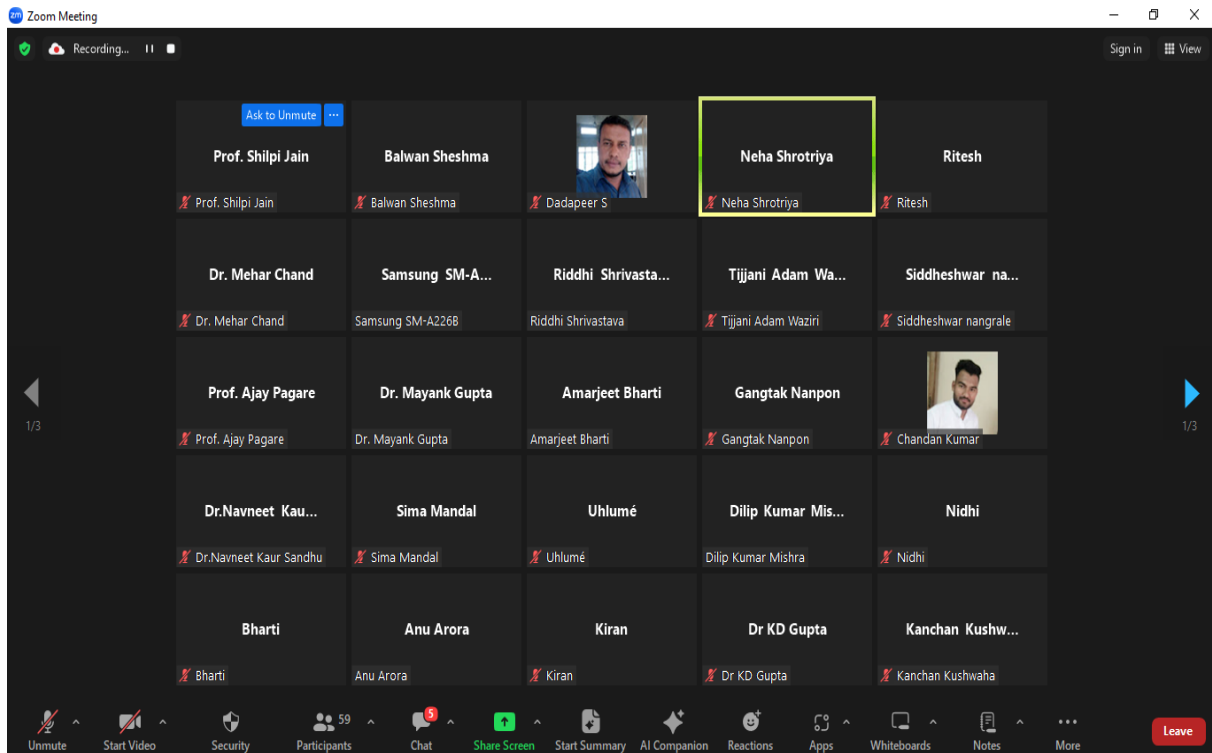
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DR Dr Rajender Singh

DR Dr Rajender Singh Associate Pr...

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Session-VIII

Topic: Deep Learning for Research: Understanding Deep Learning Concepts, Applications of Deep Learning in Research, Practical Implementation of Deep Learning Algorithms

Date & Day: February 08th, 2024 & Thursday.

Time: 01:30 PM to 03:30 PM

Resource Person: Dr. Tanmoy Hazra



Facility Development Programme for STEM Professionals on
Advancing Research Methodology through
Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-8/13:30-15:30

Deep Learning for Research: Understanding deep learning concepts, Applications of deep learning in research, Practical implementation of deep learning algorithms

Resource person
Dr. TANMOY HAZRA
 Department of Artificial Intelligence,
 SVNIT Surat, INDIA


Dr. Mahesh Bundele
 B.E., M.E., Ph.D.
 Director
 Poornima College of Engineering
 ISI-0, RILCO Institutional Area
 Silapura, JAIPUR

About the Session:

Deep Learning, a subset of machine learning, has emerged as a powerful tool in solving complex problems across various domains. Understanding its concepts, exploring applications in research, and mastering practical implementations of deep learning algorithms are essential for researchers and practitioners alike. This guide aims to delve into the fundamentals of deep learning, showcase its diverse applications in research, and provide insights into its practical implementation.

Deep learning has revolutionized research across diverse domains, offering powerful tools for solving complex problems and driving innovation. By understanding deep learning concepts, exploring its applications in research, and mastering practical implementation techniques, researchers and practitioners can leverage its capabilities to address real-world challenges and unlock new opportunities for discovery and advancement.

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Faculty Development Programme for STEM Professors

Advancing Research Methodology through Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-8/13:30-

Deep Learning for Research: Understanding deep learning concepts, Applications of deep learning in research, Practical implementation of deep learning algorithms

Resource person
Dr. TANMOY HAZRA
Jaipur, RJ, India

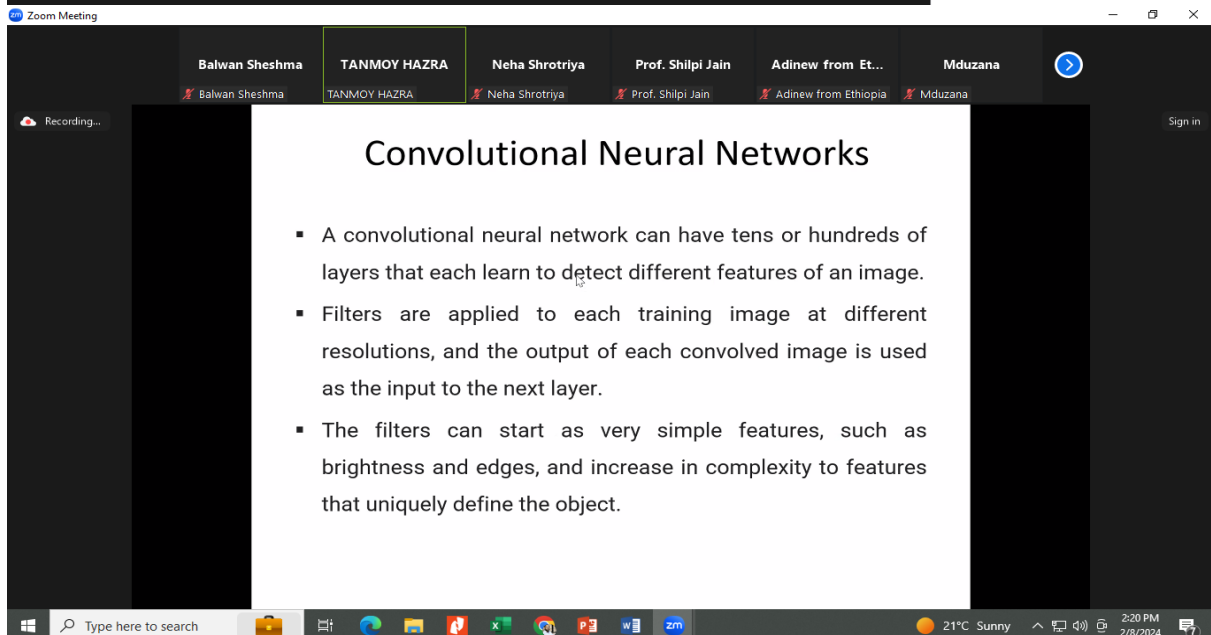
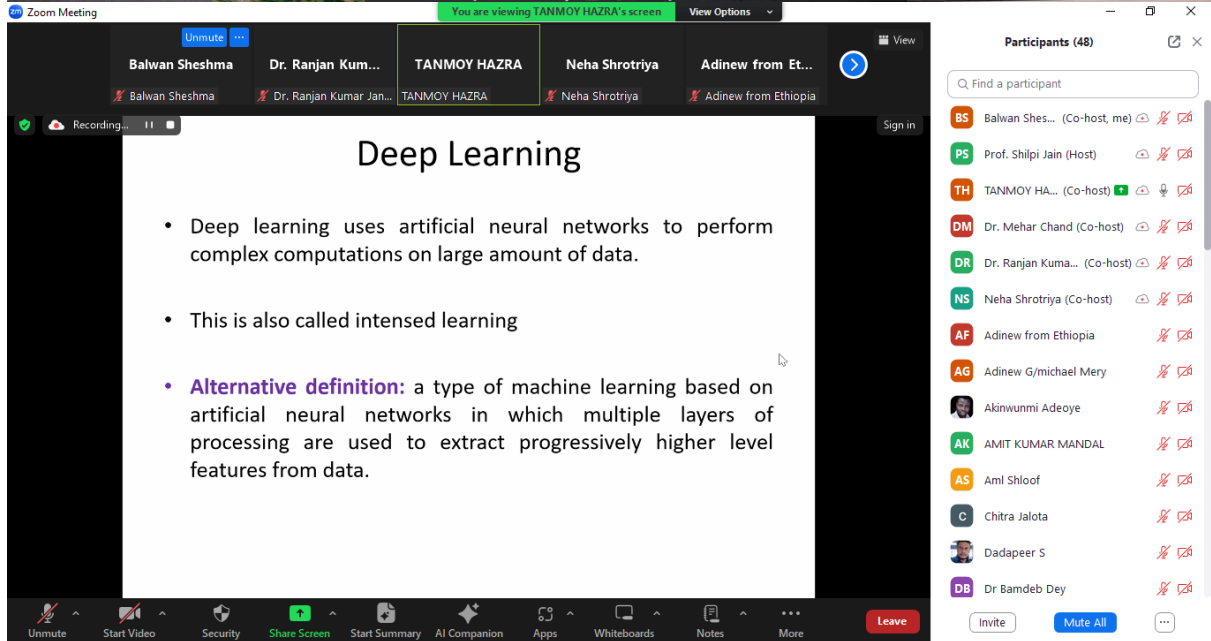
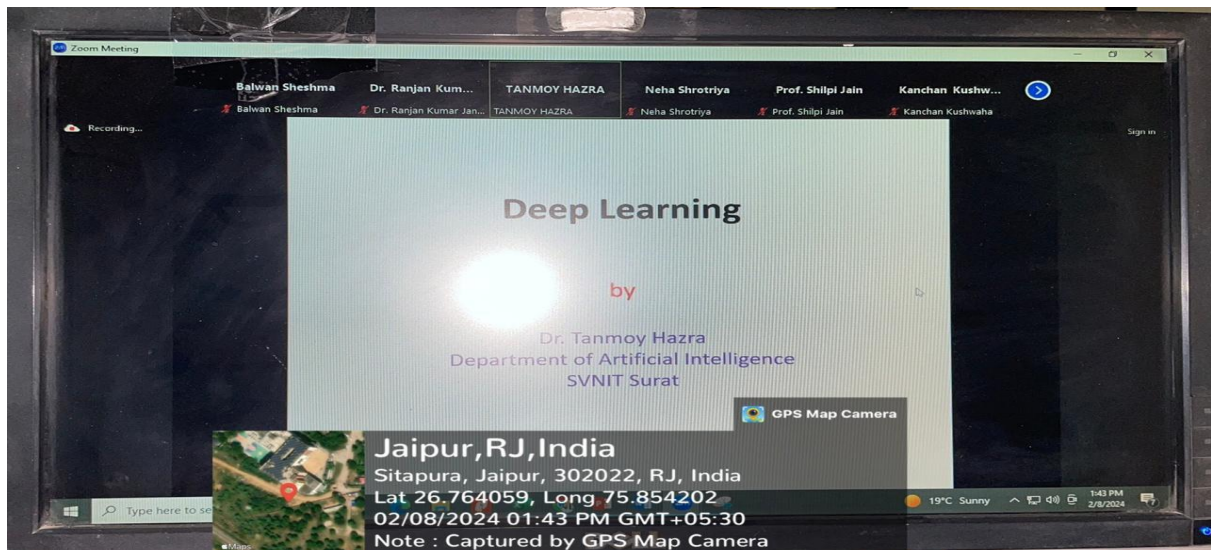
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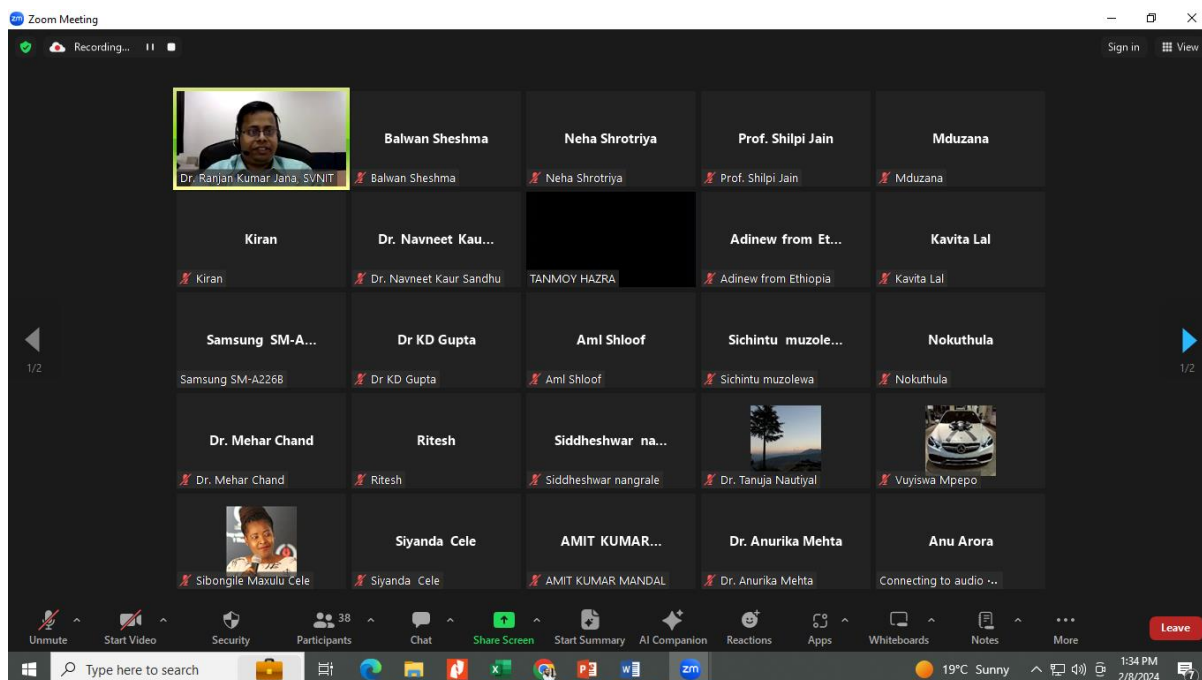
Dr. Ranjan Kumar Jana, SVKIT

Neha Shrotriya

Prof. Shilpi Jain

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Session-IX

Topic: Interdisciplinary Research Approaches: Importance of Interdisciplinary Collaboration, Identifying Interdisciplinary Research Opportunities, and Case Studies of Successful Interdisciplinary Projects

Date & Day: February 09th, 2024 & Friday.

Time: 09:30 AM to 11:30 AM

Resource Person: Dr. Avinita Gautam



Facility Development Programme for STEM Professionals on
Advancing Research Methodology through
Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-9/09:30-11:30

Interdisciplinary Research Approaches: Importance of interdisciplinary collaboration, Identifying interdisciplinary research opportunities, Case studies of successful interdisciplinary projects

Resource person
Dr. Avinita Gautam
 Department of Drug and Health Sciences,
 University of Catania, ITALY


Dr. Mahesh Bunde
 B.E., M.E., Ph.D.
 Director
 Poornima College of Engineering
 ISI-6, PILCO Institutional Area
 Silapura, JAIPUR

Dr. Avinita Gautam is a distinguished post-doctoral fellow at the University of Catania, Italy, where she contributes significantly to the realm of scientific exploration. With a rich academic journey, Dr. Gautam has honed her expertise through various prestigious fellowships, including the esteemed Newton-Bhabha Fellowship at the University of Cambridge and the DST-INPIRE Fellowship at DST-CIMS, Institute of Science, Banaras Hindu University.

Her research interests span across a diverse spectrum, with a particular focus on mathematical modeling of biological scenarios, dynamical systems, epidemiology, and neuronal dynamics. Dr. Gautam's contributions have been profound, shedding light on intricate phenomena and pushing the boundaries of scientific understanding.

Notably, her academic prowess is underscored by her achievement as an M.Sc. Gold Medalist, reflecting her exceptional dedication and scholarly excellence. Dr. Avinita Gautam continues to inspire and drive innovation in the scientific community, leaving an indelible mark in her field of expertise.

About the Session:

Interdisciplinary research approaches involve integrating knowledge, methods, and perspectives from multiple disciplines to address complex problems or questions that cannot be adequately tackled within the scope of a single discipline.

By adopting these interdisciplinary research approaches, scholars can address complex challenges more effectively and generate new insights that transcend traditional disciplinary boundaries.

Interdisciplinary collaboration is crucial for addressing complex challenges that often transcend the boundaries of individual disciplines.

These case studies demonstrate the diverse range of interdisciplinary projects and their significant contributions to scientific knowledge, technological innovation, and societal progress.

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Balwan Sheshma Avinita Gautam Neha Shrotriya Prof. Shilpi Jain Kamlesh Kumar Gangtak Nanpon

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Faculty Development Program on "Advancing Research Methodology through Scientific Tools and Artificial Intelligence"

February 05-09, 2024

Presented By
Dr. Avinita Gautam
Post Doc, University of Catania, Italy
Ph.D. Mathematics, DST-CIMS, BHU, India
Newton-Bhabha Fellow 2020, University of Cambridge, U.K.
DST-INSPIRE Fellow, DST-CIMS, BHU, India

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INTERDISCIPLINARY RESEARCH APPROACHES: IMPORTANCE OF INTERDISCIPLINARY COLLABORATION, IDENTIFYING INTERDISCIPLINARY RESEARCH OPPORTUNITIES, CASE STUDIES OF SUCCESSFUL INTERDISCIPLINARY PROJECTS

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2. Transdisciplinary Research

- It goes beyond interdisciplinary collaboration and involves researchers working across disciplinary boundaries to develop a shared understanding of the problem.
- Aims to create new frameworks and concepts that transcend traditional disciplinary boundaries.

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PS	Prof. Shilpi Jain (Host)				
AG	Avinita Gauta...	(Co-host)			
DM	Dr. Mehar Chand (Co-host)				
NS	Neha Shrotriya (Co-host)				
AA	Abid Ali				
A	Akhlesh Latoria				
AM	Amsjad Islam Amsjad				
AS	Ami Shloof				
BB	Bharti Bhardwaj				
CK	Chandan Kumar				
CI	Chitra Jalota				
D	Dadapeer S				
DB	Dr. Bamdeb Dey				

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Dr. Mahesh Bunde
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Director
Poonima College of Engineering
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Sitapura, JAIPUR

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Balwan Sheshma Neha Shrotriya Prof. Shilpi Jain

Balwan Sheshma Avinita Gautam Neha Shrotriya Prof. Shilpi Jain Kamlesh Kumar

Smart Cities Initiatives

- Disciplines Involved: Urban Planning, Information Technology, Sociology, Environmental Science, Economics
- Various smart city initiatives around the world bring together experts from urban planning, information technology, sociology, environmental science, and economics. These projects aim to enhance the quality of life through the integration of technology and data to improve urban infrastructure and services.

https://smartcities.gov.in/

Projects - 6,717 (83%) ₹1,33,211 Cr.

Projects - 1,302 (17%) ₹37,518 Cr.

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- AM Abdu Mohammed
- AG Adinew Gebremichael Mery
- A Akhilesh Latoria
- AS Aml Shloof
- B Bharti
- CK Chandan Kumar
- CJ Chitra Jalota
- Dr Aparna Chaturvedi
- DB Dr Bamdeb Dey

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Balwan Sheshma Neha Shrotriya Prof. Shilpi Jain Abdu Mohammed

Balwan Sheshma Avinita Gautam Neha Shrotriya Prof. Shilpi Jain Abdu Mohammed

Mathematical Ecology of Population Dynamics

- Disciplines Involved: Population Biology, Mathematics, Statistics
- Mathematical ecology explores population dynamics, including the interactions between species, competition for resources, and predator-prey relationships. Models help ecologists understand the factors influencing population growth, stability, and biodiversity.

nature > review articles > article

Review Article | Published: 01 September 1977

Mathematical models in applied ecology

Gordon R. Conway

Nature 269, 291–297 (1977) | Cite this article

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- DM Dr. Mehar Chand (Co-host)
- NS Neha Shrotriya (Co-host)
- AM Abdu Mohammed
- AF Adinew from Ethiopia
- A Akhilesh Latoria
- AS Aml Shloof
- AP Amos POPOOLA (PhD)
- BU Bashir Umar Kalgo
- B Bharti
- CK Chandan Kumar
- CJ Chitra Jalota

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Avinita Gautam Balwan Sheshma Neha Shrotriya Prof. Shilpi Jain Gangtak Nanpon

Dilip Kumar Mis... Kamlesh Kumar Dr Rajender Sin... Dr. Mehar Chand Dr. Navneet Kau...

Dilip Kumar Mishra Dr Rajender Singh Associat... Dr. Mehar Chand Dr. Navneet Kaur Sandhu

HEMANT KUMAR Ritesh Dr KD Gupta Dr. Mayank Gupta

HEMANT KUMAR Ritesh Monika Kumari Dr KD Gupta Dr. Mayank Gupta

Samsung SM-A... Chandan Kumar Durgesh kumar Dr. Nishant Gaur

Samsung SM-A2268 Chandan Kumar Durgesh kumar Dr. Nishant Gaur ASHRAF

Neha Riddhi Shrivasta... Amarjeet Bharti

Neha Riddhi Shrivastava Amarjeet Bharti Dr Vijay Kumar

From Gangtak Nanpon to Everyone

Thank you for the good presentation

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Participants (65)

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- DM Dr. Mehar Chand (Co-host)
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- AF Adinew from Ethiopia
- A Akhilesh Latoria
- AS Aml Shloof
- AP Amos POPOOLA (PhD)
- ASHRAF
- BU Bashir Umar Kalgo
- CK Chandan Kumar
- CJ Chitra Jalota
- DK Dilip Kumar Mishra
- Dr Aparna Chaturvedi

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Session-X

Topic: Research Proposal Development and Funding Opportunities: Crafting Effective Research Proposals, Navigating Funding Opportunities

Date & Day: February 09th, 2024 & Friday.

Time: 01:30 PM to 03:00 PM

Resource Person: Dr. Dhanraj Sharma



Facult Development Programme for STEM Professionals on
Advancing Research Methodology through
Scientific Tools and Artificial Intelligence

05-09 February 2024 Session-10/13:30-15:00

Research Proposal Development and Funding Opportunities: Crafting effective research proposals, Navigating funding opportunities

Resource person
Dr. Dhanraj Sharma
Department of Financial Administration,
Central University of Punjab, INDIA

Dr. Dhanraj Sharma is an esteemed Assistant Professor in the Department of Financial Administration at the School of Management, Central University of Punjab. Holding a Ph.D. in Commerce from Aligarh Muslim University, Dr. Sharma's academic journey has been marked by excellence, further supported by his M.Com. Degree in Accounting and Finance along with a UGC-JRF certification.

With a career dedicated to academia, Dr. Sharma has been serving as an Assistant Professor at the Central University of Punjab since January 2018, where he imparts his extensive knowledge in the field of Financial Administration. Prior to this, he worked as a Post-Doctoral Fellow at Aligarh Muslim University under the UGC- Dr. S. Radharkrishnan Post-Doctoral Fellowship in Humanities and Social Sciences.

Dr. Sharma's research interests are diverse and include areas such as Mutual Funds, Market Anomalies, Corporate Governance, and Financial Performance. He has successfully completed various research projects, notably the project titled "Performance Evaluation of Indian Mutual Fund Industry: An application of Conditional and Unconditional Models," funded under

Research Seed Money Grant.

His contributions to academia extend beyond teaching and research. Dr. Sharma is actively involved as a reviewer for esteemed journals such as Sage, Inderscience, and Emerald. He is a lifetime member of prominent academic associations including the Indian Commerce Association (ICA), The Indian Econometrics Society (TIES), and the Indian Accounting Association (IAA).

Throughout his career, Dr. Sharma has been recognized for his outstanding contributions. He received the Best Teacher Award at the Central University of Punjab in February 2020 and has been honored with several accolades including best paper awards in international conferences. His publications span across reputed journals, showcasing his prolific research output.

Beyond his academic pursuits, Dr. Sharma is deeply involved in institutional building and curricular development. He actively contributes to various committees and boards within the university, demonstrating his commitment to academic excellence and fostering a conducive learning environment.

With a passion for teaching, a dedication to research, and a commitment to institutional growth, Dr. Dhanraj Sharma stands as a beacon of academic excellence in the field of Financial Administration.

About the Session:

In the realm of academia and research, securing funding for projects is often essential for their execution and success. Crafting effective research proposals and navigating the complex landscape of funding opportunities are crucial skills for researchers seeking to advance their work. This guide aims to provide comprehensive insights into the process of developing research proposals and exploring various funding opportunities available to researchers.

Developing effective research proposals and navigating funding opportunities are essential skills for researchers seeking to advance their work and secure support for their projects. By understanding the fundamentals of proposal development, crafting compelling narratives, and exploring diverse funding resources, researchers can enhance their chances of success in securing funding and advancing their research agendas.

Zoom Meeting

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Participants (39)

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DR Dennis R. Nimely, Jr.

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DR Dr Rajender Singh Associate Pr...

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AW Addisie Wubie Wassie

AF Adinew from Ethiopia

A Akhilesh Latoria

CJ Chitra Jalota

DR Dennis R. Nimely, Jr.

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DR Dr Rajender Singh

DR Dr Rajender Singh Associate Pr...

DA Dr. Anurika Mehta

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RESEARCH PROPOSAL DEVELOPMENT AND FUNDING OPPORTUNITIES

Dr. DHANRAJ SHARMA
Assistant Professor
Department of Financial Administration
Central University of Punjab, INDIA

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NS Neha Shrotriya (Co-host)

AW Addisie Wubie Wassie

AF Adinew from Ethiopia

A Akhilesh Latoria

CJ Chitra Jalota

DR Dennis R. Nimely, Jr.

DK Dr KD Gupta

DR Dr Rajender Singh

DR Dr Rajender Singh Associate Pr...

DA Dr. Anurika Mehta

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Key Parts of Research Proposal

- Background and Rationale
- Literature Review
- Objective(s) of the study
- Methodology
- Expected Outcomes & Implications
- Estimated Budget and Timeframe
- Details of the primary investigator, Co-investigator. Internal and external collaborators
- References

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Participants (61)

Find a participant

BS Balwan Shes... (Co-host, me) PS Prof. Shilpi Jain (Host) DS Dhanraj Shar... (Co-host) DM Dr. Mehar Chand (Co-host) NS Neha Shrotriya (Co-host) AM Abdu Mohammed AW Addisie Wubie Wassie AF Adinew from Ethiopia A Akhilesh Latoria A Aml Amos POPOOLA (PhD) B Bharti Dadapeer S Dennis R. Nimely, Jr.

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Funding Opportunities

- Fellowships
- Research Grants
- Entrepreneurship and Innovation Grants
- Collaborative Grants
 - International Collaborative Grants
 - International Exchange Grants
- Travel Grants
- Meeting and Event Grants
- Awards
- Other Grants and Fellowships

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Participants (57)

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Current Call for Proposals (DST)

Call for proposal under innovation & STEM demonstration	Throughout the year
Call for applications for ASEAN-India Research Training Fellowships.	Throughout the year
Call for R & D proposal under ASEAN-India science & Technology Cooperation Program.	Throughout the year
Abdul Kalam Technology Innovation National Fellowship.	Throughout the year
SERB Research Scientist Scheme	Throughout the year
Announcement for Inviting Technologies/Innovation/Idea for support under ASEAN-India S & T Development Fund.	Throughout the year
WISE-SCOPE Fellowship	31-01-2024

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Participants (61)

Find a participant

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Neha Shrotriya Balwan Sheshma OUSMANE FOMBA Dr Rajender Singh

Dr. Mehar Chand Yashasvi Dr KD Gupta Akhilesh Latoria Adinew from Ethiopia

HEMANT KUMAR Prof. Shilpi Jain Yogikumar Agrawat

Dr. Anurika Mehta Dr. Mehar Chand Amarjeet Bharti Ritesh Nokuthula

Dr. Navneet Kaur Sandhu Mdazana Dr Rajender Singh Association Sichintu muzolewa Riddhi Shrivastava

VALEDICTORY CEREMONY

Q-SHEET:



Five Days Faculty Development Programme (FDP)
on
Advancing Research Methodology through Scientific Tools and Artificial Intelligence

Jointly Organized by:
Sardar Vallabhbhai National Institute of Technology, Surat, India
Poornima College of Engineering, Jaipur, India
Nexus University, South Africa
Research and Development Cell, PCE, Jaipur, India
MathTech Thinking Foundation, Fazilka, India

Q- Sheet of Valedictory Session
Friday, 9th February, 2024

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries by the anchor	01 Min	03:00 pm-03:01 pm
2.	Welcome of Chief Guest Prof. Susheel Verma , Head, Department of Botany, University of Jammu, Jammu by Dr. Mahesh Bundele , Director, Poornima College of Engineering with bouquet and memento	01 Min	03:01 pm-03:02 pm
3.	Event Report of FDP by Dr. Mohar Chand , Professor, Department of Mathematics, BPC, Bathinda & President of MTTF, Fazilka	04 Min	03:02 pm-03:06 pm
4.	Feedback by the Participants	03 Min	03:06 pm-03:09 pm
5.	Welcome Address by Dr. Mahesh Bundele , Director, Poornima College of Engineering	04 Min	03:09 pm-03:13 pm
6.	Address by Chief Guest Prof. Susheel Verma , Head, Department of Botany, University of Jammu, Jammu	07 Min	03:13 pm-03:20 pm
7.	Closing Address by Dr. Ajay Shukla , Department of Mathematics, Sardar Vallabhbhai National Institute of Technology, Gujarat, INDIA	03 Min	03:20 pm-03:23 pm
8.	Certificate Distribution to Participants	03 Min	03:23 pm-03:26 pm
9.	Vote of Thanks by Dr. Shilpi Jain , Professor, Department of Mathematics, PCE	02 Min	03:26 pm-03:28 pm
10.	Group Photograph	02 Min	03:28 pm-03:30 pm




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director



Poornima College of Engineering
ISO 9001:2015 Certified Institutional Area
Gulapura, JAIPUR

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Balwan Sheshma Yashasvi Dr KD Gupta Dr. Mehar Chand Neha Shrotriya

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MathTech Thinking Foundation
A Society of Corporate Affairs, Incorporated in India Registered

**Faculty Development Programme for STEM Professionals on
Advancing Research Methodology through
Scientific Tools and Artificial Intelligence**

05-09 February 2024

Welcome to the Valedictory Ceremony!

Date: 09 February 2024 Time: 15:00-15:30 IST
11:30-12:00 SAST

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Participants (61)

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- SK sonu kumar yadav (Co-host)
- DM Dr. Mehar Chand (Co-host)
- NS Neha Shrotriya (Co-host)
- AM Abdu Mohammed
- AW Addisie Wubie Wassie
- AF Adinew from Ethiopia
- A Akhilesh Latoria
- AS Aml Shloof
- Amos POPOOLA (PhD)
- ASHRAF
- B Bharti
- CJ Chietra Jalota

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- NS Neha Shrotriya (Co-host)
- DM Dr. Mehar Chand (Co-host)
- Y Yashasvi
- AM Abdu Mohammed
- Abdul Ahmed Abdul
- AF Adinew from Ethiopia
- AG Adinew Gebremichael Mery
- A Akhilesh Latoria
- AS Aml Shloof
- AB Archana Bhardwaj
- ASHRAF

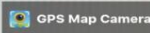
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Welcome

- Prof. Susheel Verma, Head, Department of Botany, University of Jammu, Jammu
- Prof. (Dr.) Mahesh Bunde, Director, Poonima College of Engineering, Jaipur
- Prof. (Dr.) Pankaj Dhema, Vice President, Poonima College of Engineering, Jaipur
- Prof. Ms. Kgomotso Morotolo, President, Nexus University, SOUTH AFRICA
- Prof. Dr. Ajay Shukla, Department of Mathematics, Sardar Vallabhbhai National Institute of Technology, Gujarat, INDIA
- Prof. (Dr.) Mehar Chand, President, MathTech Thinking Foundation, Fazilka, INDIA
- Prof. (Dr.) Shilpi Jain, Convener FDP, Poonima College of Engineering, Jaipur



Jaipur, RJ, India
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Balwan Sheshma Dr. Mehar Chand HOD BOTANY Neha Shrotriya Prof. Shilpi Jain Mahesh M's iPh...

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Event Report of the FDP



Prof. (Dr.) Mehar Chand
Event Coordinator
President, MathTech Thinking
Foundation, Fazilka, INDIA



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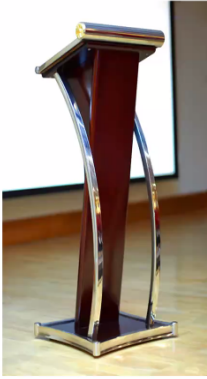
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Ask to Unmute Dennis R. Nimel... Balwan Sheshma Dr KD Gupta Neha Shrotriya Neha

Dennis R. Nimely, Jr. Balwan Sheshma Dr KD Gupta Neha Shrotriya Neha

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Feedback & Suggestions by the Participants



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Participants (55)

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- SK sonu kumar ... (Co-host)
- DR Dennis R. Nimely, Jr.
- DM Dr. Mehar Chand (Co-host)
- NS Neha Shrotriya (Co-host)
- N Neha
- AM Abdu Mohammed
- Abdul Ahmed Abdul
- AF Adinew from Ethiopia
- AG Adinew Gebremichael Mery
- A Akhilesh Latoria
- Akinwunmi Adeoye

1 Invite Mute All


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Akinwunmi Adeoye Balwan Sheshma Neha Shrotriya Mahesh M's iPhone (2) Dennis R. Nimely, Jr.

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Felicitations by Bouquet and Memento



Prof. (Dr.) Mahesh M. Bunde
Director & Principal,
Poornima College of Engineering



Prof. (Dr.) Susheel Verma
Head, Department of Botany, University of Jammu

Prof. (Dr.) Susheel Verma
Head, Department of Botany, University of Jammu

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Participants (56)

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- Abdul Ahmed Abdul
- AF Adinew from Ethiopia
- AG Adinew Gebremichael Mery
- A Akhilesh Latoria
- Akinwunmi Adeoye
- AK AMIT KUMAR MANDAL
- AS Aml Shloof

Invite Mute All


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Thank You Sir.

I would like to invite our chief guest Prof. Susheel Verma, Head, Department of Botany, University of Jammu, Jammu to address the session.

Thank you sir.

I would like to call Dr. Ajay Shukla, Department of Mathematics, Sardar Vallabhbhai National Institute of Technology, Gujarat, INDIA for the closing address.

I would like to call Dr. Shilpi Jain, Professor, Department of Mathematics, PCE for the vote of thanks.

Chief Guest

Prof. (Dr.) Susheel Verma
Head, Department of Botany
University of Jammu, Jammu

Closing Address

Prof. Dr. Ajay Shukla
Department of Mathematics, Sardar
Vallabhbhai National Institute of Technology
Gujarat, INDIA

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Idris Ali	Muted
Irum Alvi	Muted
Karam Chand	Muted
Maresh M's iPhone (2)	Muted
Miduzana	Muted
Mohammad Sajid	Muted
Nexus University	Muted
Nokuthula	Muted
OLUKUNLE OLAWOLE	Muted
OUSMANE FOMBA	Muted
Prof. Ajay Pagare	Muted
Ritesh	Muted

Participants (49)

Name	Status
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Evitha	Muted
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HOD BOTANY	Muted
Idris Ali	Muted
Irum Alvi	Muted
Karam Chand	Muted
Maresh M's iPhone (2)	Muted
Miduzana	Muted
Mohammad Sajid	Muted
Nexus University	Muted
Nokuthula	Muted
OLUKUNLE OLAWOLE	Muted
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Balwan Sheshma Dr. Mehar Chand Prof. Shilpi Jain Nexus University Dr. Pankaj Dhemla

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Vote of Thanks



Prof. (Dr.) Shilpi Jain
Host Institute Coordinator
Poornima College of Engineering



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- b bhanupratap singh
- B Bharti

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OLUKUNLE OLAWOLE Balwan Sheshma Dr. Mehar Chand Prof. Shilpi Jain Prof. Ajay Pagare

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Dr KD Gupta

Dr. Mehar Chand Nokuthula Dr. Navneet Kau... Mduzana Dr. Rajender Sin...

Dr. Mehar Chand Nokuthula Dr. Navneet Kaur Sandhu Mduzana Dr. Rajender Singh Associat...

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Dr. Avinita Goutam
Department of Drug and Health Sciences,
University of Catania, ITALY

has delivered a talk on "Interdisciplinary Research Approaches: Importance of interdisciplinary collaboration, Identifying interdisciplinary research opportunities, Case studies of successful interdisciplinary projects" at the **Faculty Development Programme for STEM Professionals on Advancing Research Methodology through Scientific Tools and Artificial Intelligence** held from 05-09 February 2024. We deeply acknowledged and honored for his/her exemplary contribution as the keynote speaker. This program is jointly organized by the Sardar Vallabhbhai National Institute of Technology, Surat, INDIA; Poornima College of Engineering, Jaipur, INDIA; Nexus University, SOUTH AFRICA; Research and Development Cell, PCE, Jaipur, INDIA; MathTech Thinking Foundation, Fazilka, INDIA.



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Certificate of Participation

This is to certify that

Rajesh Kumar
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has successfully participated in the **Faculty Development Programme for STEM Professionals on Advancing Research Methodology through Scientific Tools and Artificial Intelligence** held from 05-09 February 2024. He / She has actively engaged in enriching sessions, workshops/trainings, and discussions aimed at enhancing research skills and methodologies in the field of Science, Technology, Engineering and Mathematics (STEM). This collaborative initiative is jointly organized by the Sardar Vallabhbhai National Institute of Technology, Surat, INDIA; Poornima College of Engineering, Jaipur, INDIA; Nexus University, SOUTH AFRICA; Research and Development Cell, PCE, Jaipur, INDIA; MathTech Thinking Foundation, Fazilka, INDIA.



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