FACULTY DEVELOPMENT PROGRAM

EMERGING TRENDS AND ADVANCES IN COMPUTATIONAL INTELLIGENCE-2022

REPORT

FDP Scheme and Schedule

BBDITM

BABU BANARASI DAS
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(FORMERLY KNOWN AS BABU BANARASI DAS NATIONAL INSTITUTE OF TECHNOLOGY AND MANAGEMENT)

DEPARTMENT OF INFORMATION TECHNOLOGY
ONE-WEEK FACULTY DEVELOPMENT PROGRAM
ON
EMERGING TRENDS AND ADVANCES IN COMPUTATIONAL INTELLIGENCE
tcs (ETACi-2022) BBDITM acm

IN COLLABORATION WITH TCS & ACM
28th Feb-05th Mar 2022

REGISTRATION DETAILS

Last Date of Registration: 26 Feb
Note: No Registration Fee
Participation e-Certificate will be given to all participants

Please Scan for Apply

RESOURCE PERSONS

Dr. Surya Prasath
Professor

Dr. Sudeep Tanwar

Dr. Prabu Kanna
Associate Professor

Dr Prakani R. Nair

Dr. Sunil Kr Pandey
Professor

Dr. C Nisher Kumar Reddy
Associate Professor

Dr. Celestine Iwendi
Professor

Prof. Siva Rama Krishna
B.M.S College of Engineering, Karnataka

Dr. R. Sujeetha
Associate Professor

Mr. Kiru Kimuru

Dr. Ramya G
Assistant Professor Senior Grade

CHIEF PATRON
Smt. Alka Das
Hon'ble Chairperson, BBDEG, Lucknow
Mr. Viraj Sagar Das
Hon'ble President BBDEG, Lucknow
Ms. Sonakshi Das
Hon'ble Vice President, BBDEG, Lucknow

PATRON
Prof.(Dr.) Shailendra Singh Chauhan
Director, BBDITM, Lucknow

CHIEF CONVENER
Dr. Manuj Darbari (Head-R&D)
Dr. Anurag Tiwari (Head-IT)

CO-ORDINATORS
Mr. Gyanendra Dixit Mr. Ankit Kumar
Ms. Eram Fatima

TECHNICAL COMMITTEE MEMBER
Mrs. Richa Sharma Mrs. Dolley Srivstava
Mr. Ankur Srivstava Mr. Asit Gahalaut
Mrs. Shailja Pandey Mrs. Nida Hasib
Mr. Sandeep Mishra Mr. Hemant Kumar
Mr. Girjesh Mishra Mr. Abhinav Singh

STUDENT COMMITTEE MEMBERS
Diwakar Tripthi Anil Shukl
Subhyang Kumar Sumit Agrahari

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FDP Theme and Institution

ABOUT THE INSTITUTE

Babu Banarasi Das Institute of Technology & Management, Lucknow established in the year 1998. Babu Banarasi Das Institute of Technology & Management, Lucknow (BBDITM) is one of the efforts to Cherish the memory of the great and noble soul Babu Banarasi Das Ji, Ex. Chief Minister, Govt. of Uttar Pradesh. The College is affiliated with Dr. A.P.J. Abdul Kalam Technical University, Lucknow. BBDITM offers education in various courses at UG and PG level. The cause of Education, based on the ideals of "Babu ji" is being nourished by various Educational Institutions, under the umbrella of Babu Banarasi Das Educational Group, that have come together to pool in their resources and intellectual capital, creating a Campus full of synergy and meaningful learning. The Institutions take full advantage of collective efforts and optimization of resources while still maintaining their distinct identities in a spirit of camaraderie and healthy competition. The students gain greater exposure through interaction with their counter parts from other streams, which leads to holistic learning. The institute was established with the purpose of providing quality education to the students in the field of Engineering. It aims at providing an open opportunity to the young generation for evolving their core competencies and builds their career as world class professionals with broad-based foundation, in-depth knowledge and versatile personality to meet the challenges of Global Economy.

DEPARTMENT OF INFORMATION TECHNOLOGY

Department of Information Technology was established in 1999. The department emphasizes on proactive learning coupled with various organization to abreast the students with new Technology and the concepts in the market. Strong emphasis is also given to industrial training so as to make the students ready to face major challenges the fast placed technology. The department has qualified and experienced faculty and technically competent supporting staff on its rolls.

The department conducts bridge courses for the students during the regular working hours of the institution to keep the students abreast with technological developments. The department has an established capability to advice and carries out research projects in the areas of Software Engineering, Data warehousing, Storage Area Networks and Distributed Databases. The department also interacts with the industries on a regular basis to develop the capabilities in latest technologies.

FDP THEME

Computational Intelligence is the theory, design, application and development of biologically and linguistically motivated computational paradigms. An Emerging Trends in Computational Intelligence present the latest issues surrounding related to the data implementation using AI systems used by management for Information Technology in organizations. This program provides the platform to the researchers, experts, students and private sector parties from all over the world to show not only the original research work performed by them but also give an excellent opportunity to share the ideas, latest trends, innovation, findings regarding this area.

This FDP will be provides knowledge related to the latest trends and challenges dealing with all aspects of Computational Intelligence & its application.

HOW TO APPLY ?

The applicants can register through this link :

https://forms.gle/6DYNJpe481u3iJWRA

VISION & MISSION

INSTITUTION VISION

To become a leading institute of providing professionally competent and socially responsive technocrats with high moral values

DEPARTMENTAL VISION

Vision of the department to transform the students to be skilled IT professionals, Innovative leaders, and environmentally receptive citizens.

INSTITUTION MISSION

To create an eco-system for dissemination of technical knowledge, to achieve academic excellence.

To develop technocrats with creative skills and leadership qualities, to solve local and global challenges.

To impart human values and ethics in students, to make them socially and Eco-friendly responsible.

DEPARTMENTAL MISSION

To develop and deliver quality academic programs in emerging and innovative fields of engineering to empower the students to meet industry standards.

To provide students with the ethical and professional tools to become productive & become continuous Learners.

To inculcate professional behaviour, positive attitude, and communication skills.

BBD City, Faizabad Road, Lucknow Uttar Pradesh– 226028 India Website: www.bbdnitm.ac.in

Guest Speakers

Program Scheduler		
Inaugural Session 9:15 -9:20 AM 28 Feb,2020		
28-Feb	**Session Start Time:** 9:30 to 11:00 AM **Dr. Prashant R.Nair,** Vice-Chairman, Internal Quality Assurance Cell (IQAC), Associate Professor, Dept. of Computer Science & Engg, Amrita School of Engineering, Amrita Vishwa Vidyapeetham Nodal Officer, University Grants Commission (UGC),	Session Start Time: 02:00 PM to 03:30 PM **Dr C Kishor Kumar Reddy ,** Associate Professor at Stanley College of Engineering and Technology for Women Hyderabad, Telangana, India
01-Mar	Session Start Time: 10:30 AM to 12:00 PM **Dr. Sudeep Tanwar** World's Top 2% Scientists (2020, 2021), Full Professor and PG Coordinator (CSE), Nirma University, Ahmedabad, India | SMIEEE | Associate Editor of IJCS-Wiley, COMCOM-Elsevier, CSA-Elsevier, Frontiers in Blockchain	Session Start Time: 02:00 PM to 03:30 PM **Dr. Sunil Kr Pandey** Professor & Director (IT & UG Campus) I.T.S, Mohan Nagar, Ghaziabad - 201007
02-Mar	Session Start Time:9:30 to 11:00 AM **Dr.Praba Karan,** Associate Professor at Pontificia Universidad Javeriana Cali, Colombia.	Session Start Time: 02:00 PM to 03:30 PM **Prof.Siva Rama Krishna ,** B. M. S. College of Engineering, Bangalore Urban, Karnataka, India Incharge, B S Narayan Centre For Advanced Learning and Software Development , BMSCE , TechBharat Organizing Committee member (Governemen of India)
03-Mar	Session Start Time:9:30 to 11:00 AM **Dr.Surya Prasath** Professor, Cincinnati Children's, University of Cincinnati, USA	Session Start Time: 02:00 PM to 03:30 PM **Dr. Ramya Govindaraj** School of Information Technology and Engineering, Vellore Institute of Technology-Vellore campus Tamilnadu.
04-Mar	Session Start Time: 10:30 AM to 12:00 PM **Mr. Kiran Kinnera Senior** Technical Officer 2 at CSIR-IIICT | AI Researcher	Session Start Time: 02:00 PM to 03:30 PM **Mr. Anshu Dixit** Tata Consultancy Services
05-Mar	Session Start Time: 10:30 AM to 12:00 PM **Mr. Anshu Dixit** Tata Consultancy Services	Session Start Time: 03:00 PM to 04:30 PM **Celestine Iwendi** **Professor** School of Creative Technologies University of Bolton, United Kingdom

FDP Objectives:-

- The Faculty Development Programme (FDP) intends to provide financial assistance to facilitate up-gradation of knowledge, skill and intends to provide opportunities for induction training to teachers employed in disciplines Engineering & Technology, AI, Machine learning and the related technologies.
- A award Faculty Development Programme (FDP) to cover areas such as technical education policy, new concepts, methods and techniques, theory and skills development and up gradation of pedagogy educational technology, motivation, communication skills, management and other relevant issues to keep pace with the changing scenario in Technical Education.
- The scheme is designed to enhance the teaching and other skills of the faculty. And to make them aware about modern teaching tools and methodologies. It provide an opportunity to acquire knowledge about current technological developments in relevant fields. It will not only promote the professional practices relevant to technical education but also motivates the faculty to achieve competitive teaching and learning environment, thus channelizing development with respect to academic qualifications and personal matters.

FDP Outcomes:-

- After attending FDP, participants will get in depth understanding of research and its implications in decision making process.
- Gain better understanding on how to design a valid research project to answer specific research questions.
- Use descriptive and predictive statistical tools using robust analytical softwares.
- To make the participants familiar with univariate, bivariate and multivariate statistical Techniques.
- The participants able to clear their doubts and challenges they face in using emerging technologies.
- All the speakers have shared his deep experience in emerging computational paradigms and also discussed the challenges inside it.
- Speakers discussed the implementation of emerging AI based technologies and its applications. Speakers also interacted with various participants and cleared their doubts.

Scope:-

- The organized FDP has its academics and industrial scope. The FDP on emerging technology has scope in government sector also.

- The FDP on emerging computational trends can be used to conduct big projects of government to develop smart system.
- The FDP is signification in the development of smart algorithms for robotic devices.
- The FDP on emerging trends in computation paradigm takes a role in multi-disciplinary sector including electronics, mechanical, aeronautics, environment engineering etc.
- The FDP on ETACi2022 is significant in elevating faculty knowledge which can be used to minimize the gap between academic institutions and the academics.
- The FDP on ETACi2022 is signification of students to get good placement opportunities in various industries.

Topic and discussion by various guest speakers:-

Dr. Prashant R.Nair:-

Agile Software Development Methodology. Dr. Prashant R.Nair discussed about digital transformation, Industry 4.0, remote work, javascript, python, micro services, kubernetes and the related emerging technologies. He discussed the design, development and the deployment of the various AI based software. He also discussed the various tools used in agile software development methodology.

Dr. Sudeep Tanwar

Emerging trends on Block chain and its Applications. Dr. Sudeep Tanwar has discussed that how the block chain technology is really sophisticated and emerging in the latest research based application. The significance of block chain technology is its decentralized structure and security. He also describe that the technology is interdependent on various host rather depending on a single host. In his presentation, he has described the various applications and security norms of the block chain technology.

Dr. Sunil Kr Pandey

Machine Learning and its Applications. Dr. Sunil Kr Pandey has discussed about machine learning and its various application. He has discussed the implementation of machine learning algorithms on various real time projects and innovations. In his presentation, he discussed various advantages of machine learning applications.

Prof. Shiv Rama Krishna

Python and stock market. Dr Praba Karan has discussed the various applications based on python programming language. He also discussed about stock market prediction using python and machine learning techniques. In his presentation, he presented the significance of python programming language over other tools.

Dr. Surya Prasath

AI, Image Processing and its Application in Biomedical sector. Dr. Surya Prasath has discussed the use of AI technology in biomedical images. He discussed the relevance of image processing for the feature extraction from the biomedical radiographic images. He discussed about the identification and classification of diseases of human body from his/her radiographic images such as X-ray, CT scan etc using computational algorithms. He has also discussed the challenges in the recognition of diseases by neural network and other AI based technologies.

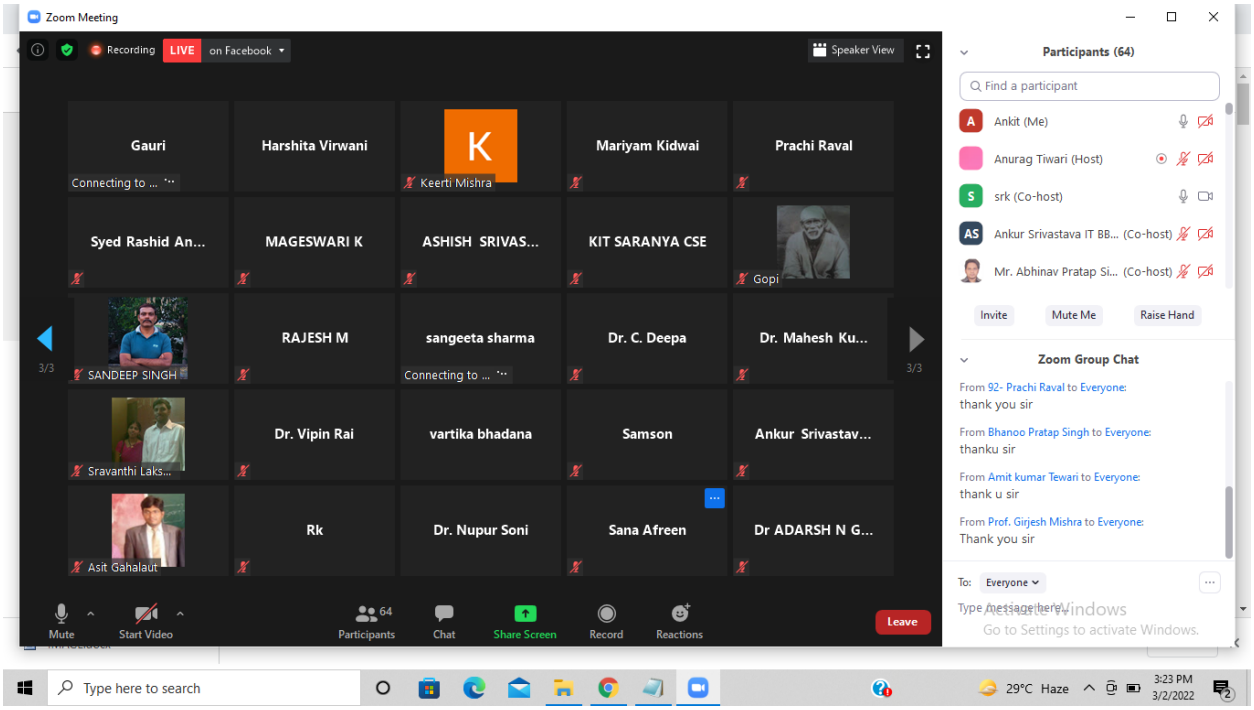
Mr. Anshu Dixit

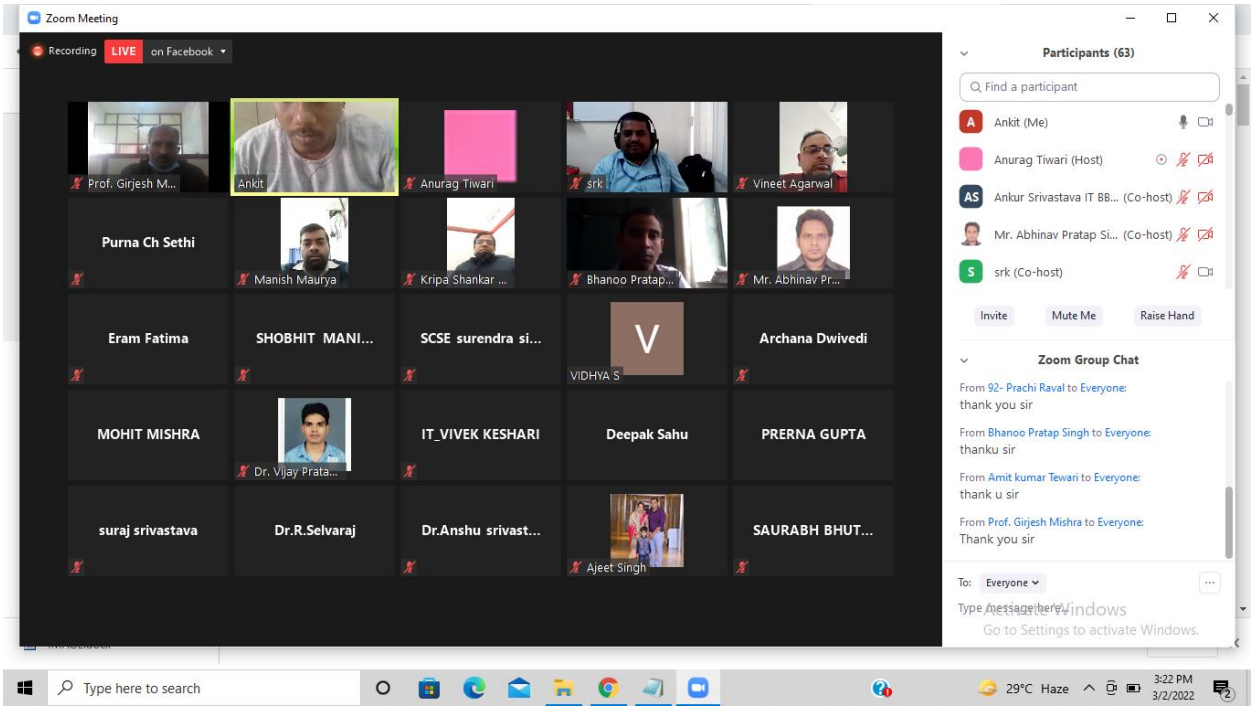
Artificial Intelligence and Machine Learning. Mr. Anshu Dixit discussed his working experience on AI in IT Industry. He has also discussed his worked on programming languages like C#, Java and on various tools like IBM Integrator, etc. He has discussed the various challenges coming in developing AI based product. He discussed supervised learning, unsupervised learning, deep learning, neural networks etc. In his presentation, he cumulate the design and the implementation of AI based model.

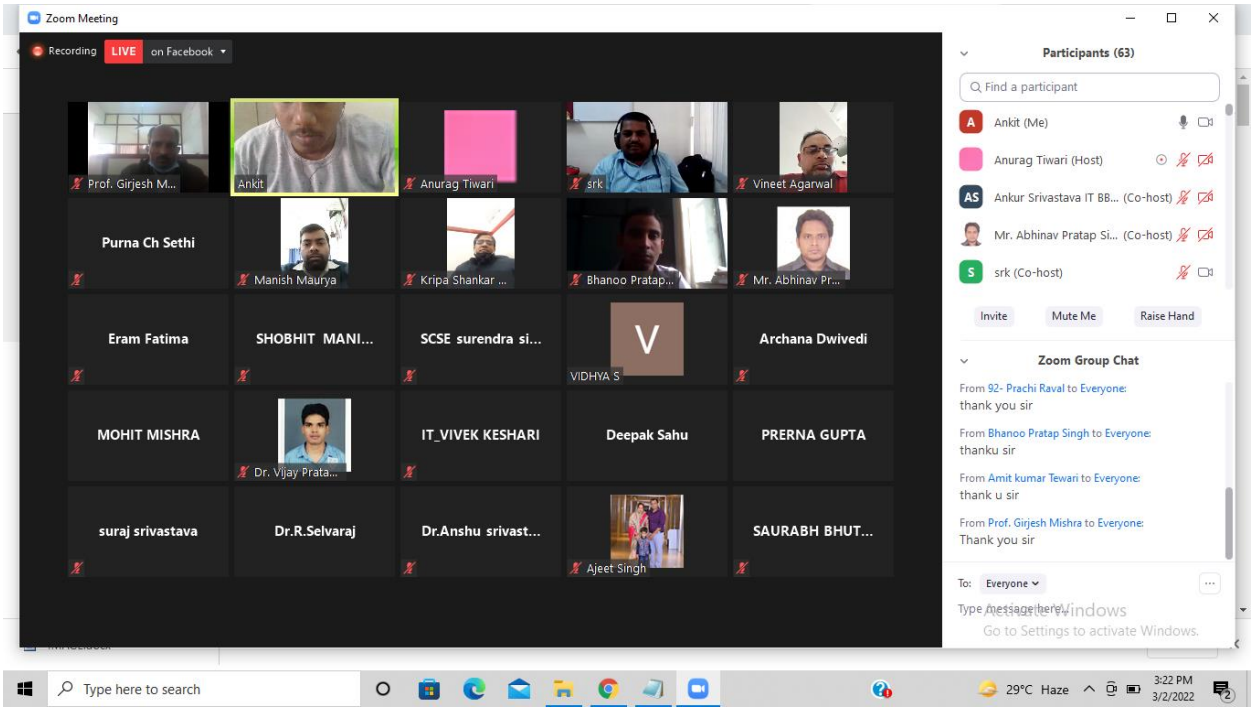
Dr. Celestine Iwendi :-

Next Generation Artificial Inteligence: Security Issues and Industry 5.0. Dr. Celestine discussed various emerging artificial intelligence based technologies and discussed its challenges and application in industrial purpose. He discussed the design principles of AI based industry. He also reveals the AI 2.0 for sustainable future. In his presentation, he discussed the various best practices involved in industry 5.0.

Few glimpses of the events






Zoom Meeting
Recording LIVE on Facebook
Prof. Girjesh M...
Ankit
Anurag Tiwari
srk
Vineet Agarwal
Purna Ch Sethi
Manish Maurya
Kripa Shankar ...
Bhanoo Pratap...
Mr. Abhinav Pr...
Eram Fatima
SHOBHIT MANI...
SCSE surendra si...
VIDHYA S
Archana Dwivedi
MOHIT MISHRA
Dr. Vijay Prata...
IT_VIVEK KESHARI
Deepak Sahu
PRERNA GUPTA
suraj srivastava
Dr.R.Selvaraj
Dr.Anshu srivast...
Ajeet Singh
SAURABH BHUT...
Participants (63)
Find a participant
Ankit (Me)
Anurag Tiwari (Host)
Ankur Srivastava IT BB... (Co-host)
Mr. Abhinav Pratap Si... (Co-host)
srk (Co-host)
Invite
Mute Me
Raise Hand
Zoom Group Chat
From 92- Prachi Raval to Everyone:
thank you sir
From Bhanoo Pratap Singh to Everyone:
thanku sir
From Amit kumar Tewari to Everyone:
thank u sir
From Prof. Girjesh Mishra to Everyone:
Thank you sir
To: Everyone
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Go to Settings to activate Windows.
Type here to search
29°C Haze
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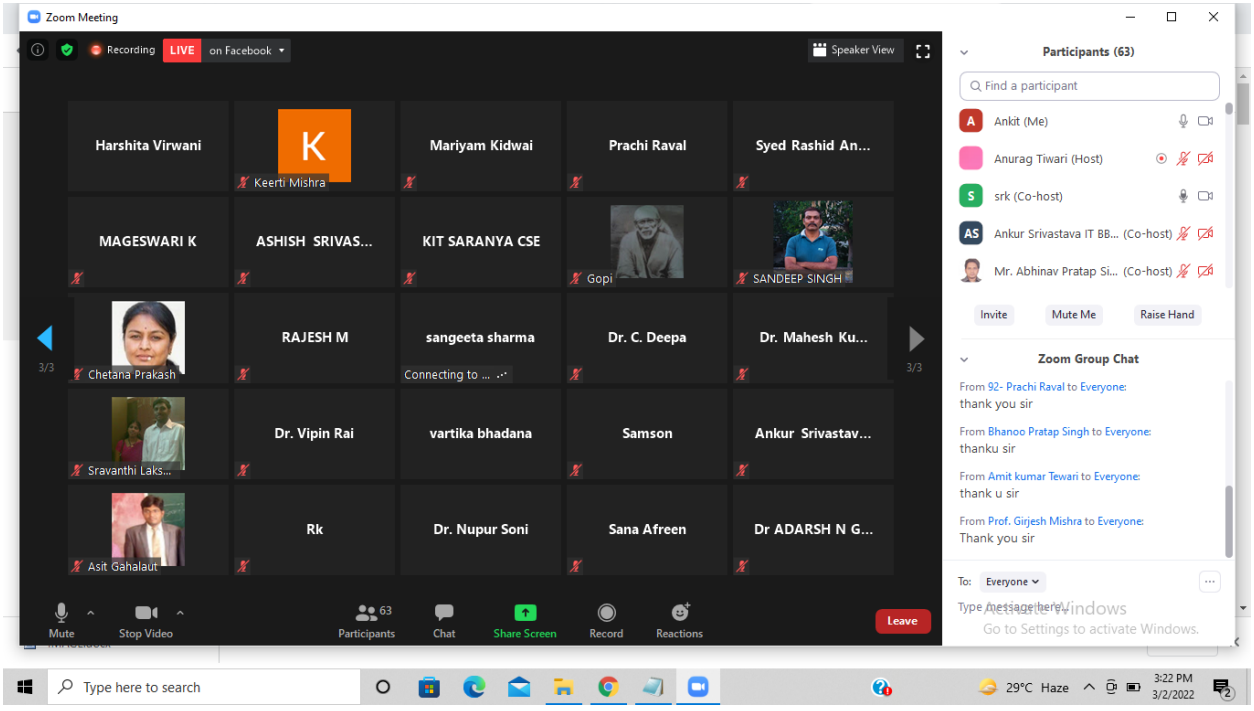
3/2/2022

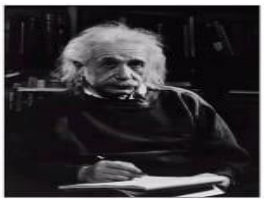

Zoom Meeting
Recording LIVE on Facebook
Speaker View
Harshita Virwani
Keerti Mishra
Mariyam Kidwai
Prachi Raval
Syed Rashid An...
MAGESWARI K
ASHISH SRIVAS...
KIT SARANYA CSE
Gopi
SANDEEP SINGH
Chetana Prakash
RAJESH M
sangeeta sharma
Connecting to ...
Dr. C. Deepa
Dr. Mahesh Ku...
Sravanthi Laks...
Dr. Vipin Rai
vartika bhadana
Samson
Ankur Srivastav...
Asit Gahalaut
Rk
Dr. Nupur Soni
Sana Afreen
Dr ADARSH N G...
3/3
Mute
Stop Video
63
Participants
Chat
Share Screen
Record
Reactions
Leave
Participants (63)
Find a participant
Ankit (Me)
Anurag Tiwari (Host)
srk (Co-host)
Ankur Srivastava IT BB... (Co-host)
Mr. Abhinav Pratap Si... (Co-host)
Invite
Mute Me
Raise Hand
Zoom Group Chat
From 92- Prachi Raval to Everyone:
thank you sir
From Bhanoo Pratap Singh to Everyone:
thanku sir
From Amit kumar Tewari to Everyone:
thank u sir
From Prof. Girjesh Mishra to Everyone:
Thank you sir
To: Everyone
Type message here...
Activate Windows
Go to Settings to activate Windows.
Type here to search
29°C Haze
3:22 PM
3/2/2022

9:44 AM

REC LIVE

Image Processing/Computer Vision

What we see



What a computer sees

Prasath Lab (BMI, CCHMC, UC) | Biomedical Imaging Informatics | Classical to Deep Learning | 2 / 115

Surya Prasath's screen

2:03 PM

LIVE

OUR EMINENT SPEAKER

C Kishor Kumar Reddy

Associate Professor, Dept. of Computer Science and Engineering,
Stanley College of Engineering and Technology for Women, Hyderabad.
published more than 50+ research papers in National and International Conferences, Book Chapters, and Journals indexed by Scopus and Web of Science

Ankit Kumar's screen

10:57 AM

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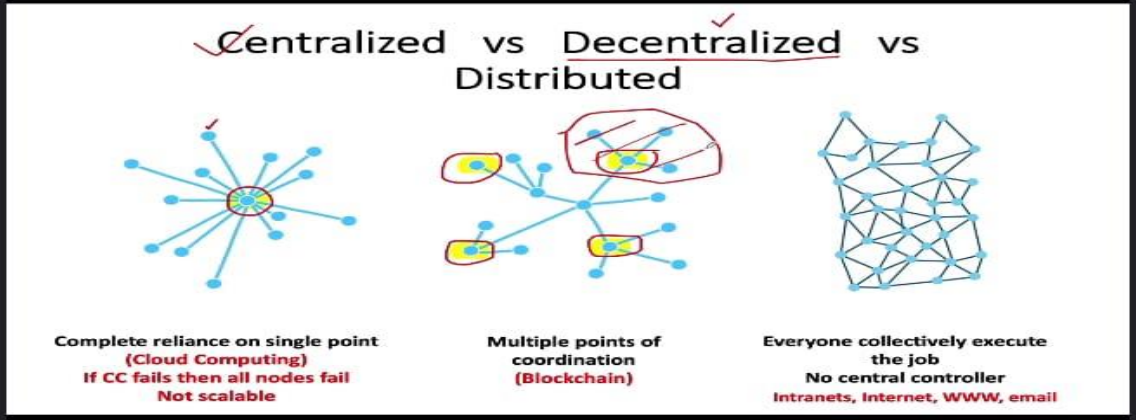

Dr. Sudeep is presenting

Dr. Sudeep

Adarsh

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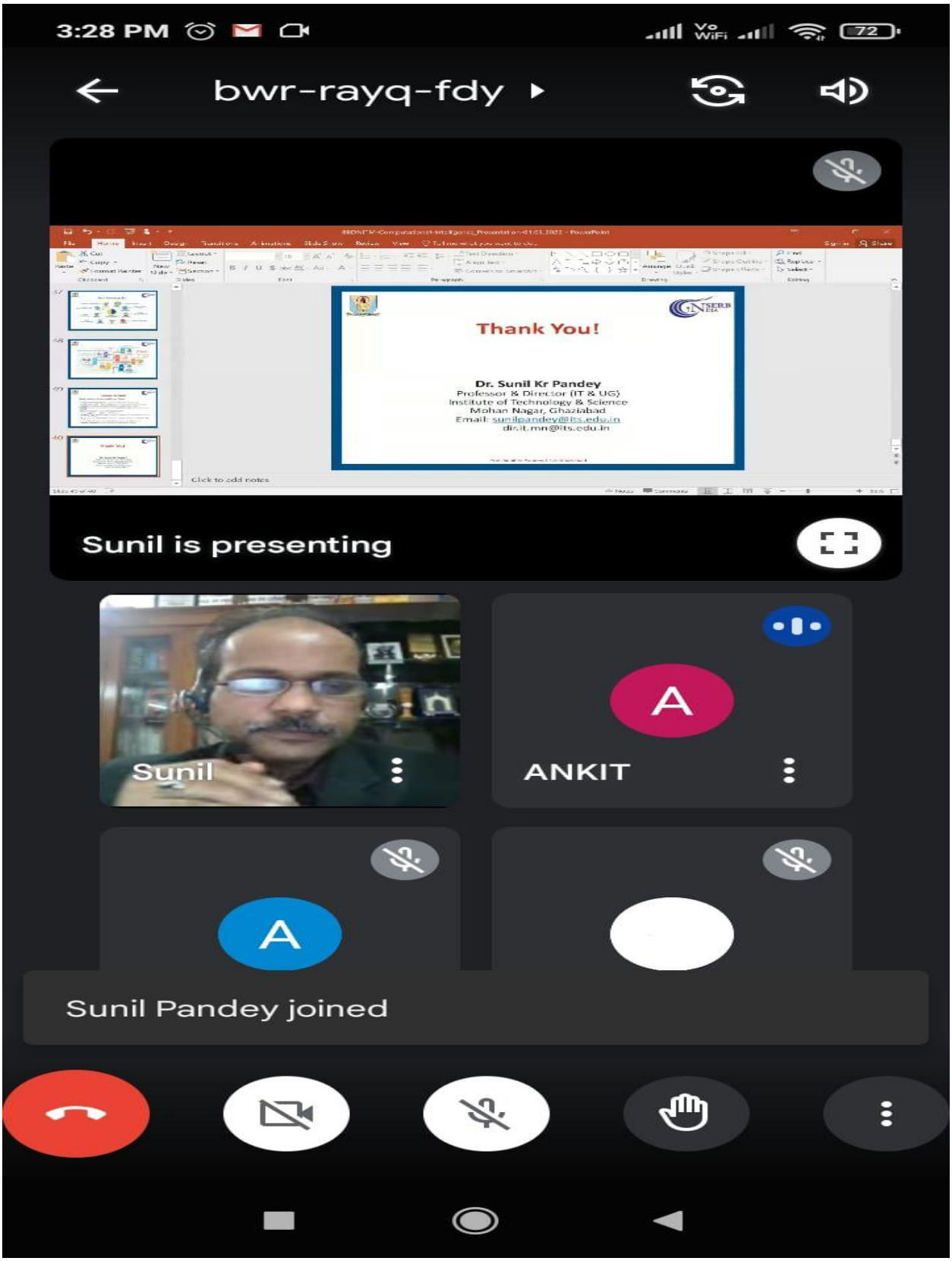
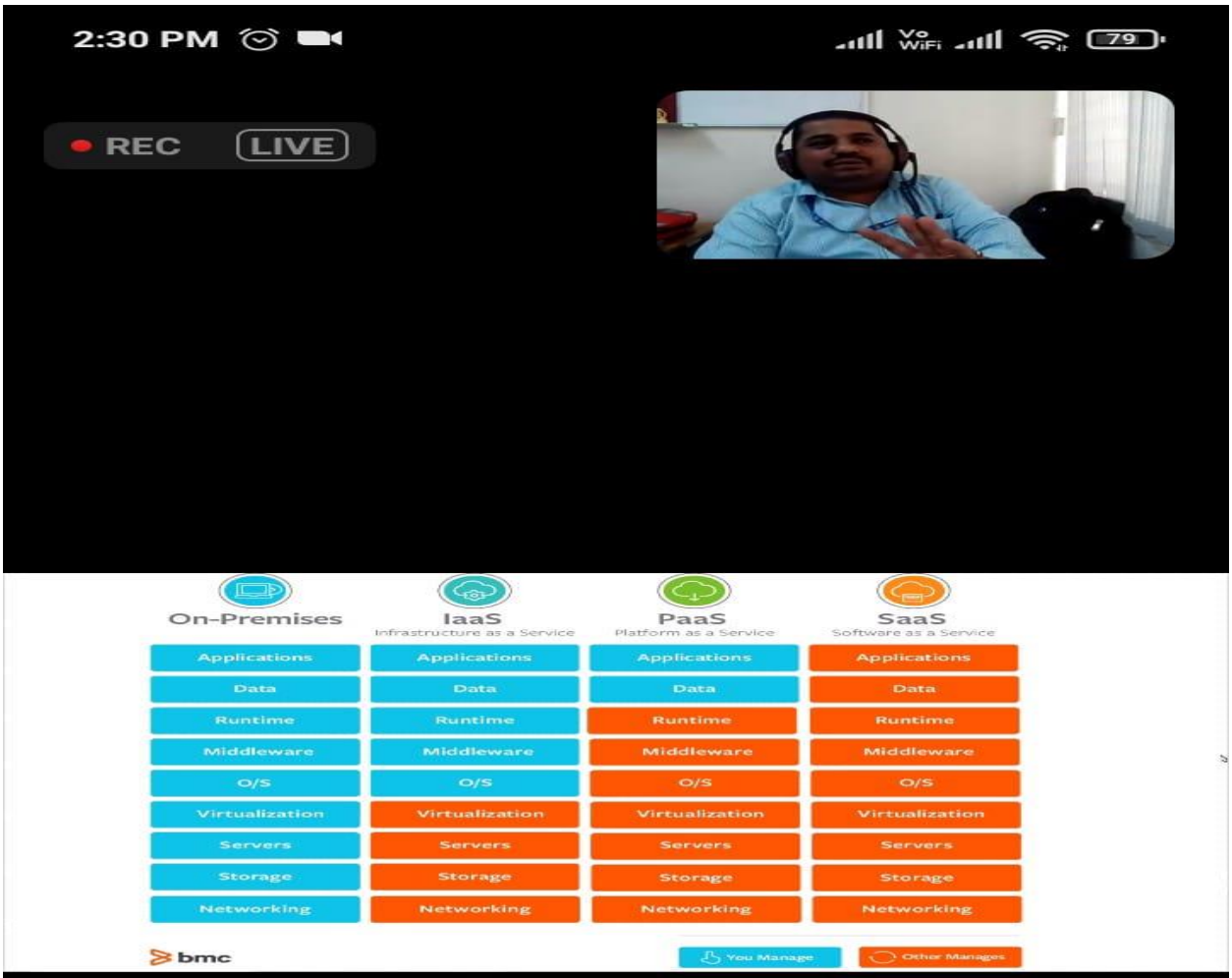
62 others


3:28 PM
bwr-rayq-fdy
Thank You!
Dr. Sunil Kr Pandey
Professor & Director (IT & UG)
Institute of Technology & Science
Mohan Nagar, Ghaziabad
Email: sunilpandey@its.edu.in
dir.it.mn@its.edu.in
Sunil is presenting
Sunil
ANKIT
Sunil Pandey joined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REC
LIVE
On-Premises
IaaS
Infrastructure as a Service
PaaS
Platform as a Service
SaaS
Software as a Service
Applications
Data
Runtime
Middleware
O/S
Virtualization
Servers
Storage
Networking
bmc
You Manage
Other Manages