



POORNIMA

COLLEGE OF ENGINEERING

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A Report on "Recent Trends in Communication, Computing & Networking"

NAME OF ACTIVITY: "Recent Trends in Communication, Computing & Networking"

DATE & DURATION: 08-12 January 2024

TYPE OF ACTIVITY: Extra-Curricular

ORGANIZED BY: Department of Electronics & Communication Engineering

LEARNING OUTCOMES:

LO1-Students will be able to enhance their knowledge of Computing Communication.

LO2-Students will be able to recognize the different scopes of Electronics Engineering in Computing Communication.

LO3-Students will be able to analyze their future perspective in the field of the Computing Communication.

MAPPINGS WITH PO AND PSO:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO1	PSO2	PSO3
LO-1						3	3	3	3	3		3	3		3
LO-2						3	3	3	3	3		3	3		3
LO-3						3	3	3	3	3		3	3		3


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

Poornima College of Engineering
ISI-0, RILCO Institutional Area
Ghatapada, JAIPUR

NOTICE:



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PCE/EC/2023-24/08

Date: 03-1-2024

NOTICE

Department of Electronics and Communication

It is to inform you all that RTU Recognized Centre of Excellence Advanced Wireless Communication, Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur is going to organize a Short Term Training Program “Recent Trends in Communication, Computing & Networking,” on January 8-12, 2024.

Venue:- Online Mode


Dr. Garima Mathur

Head, Department of Electronics and Communication Engineering

CC:

- To All Concerned
- To Department Notice Board


Dr. Mahesh Bunde
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Director

Poornima College of Engineering
ISI-0, FIICO Institutional Area
Ghatapada, JAIPUR

FLYER/POSTER:



SHORT TERM TRAINING PROGRAM (STTP)
ON
RECENT TRENDS IN COMMUNICATION
COMPUTING & NETWORKING



January 08-12, 2024

Department of Electronics & Communication Engineering, Poornima College of Engineering
Cordially invite you to Inaugural Session



Bhagirath Singh, IPRS
Chief Guest
Sr. Deputy Minister, Radio
Govt. of India, Ministry of Communications
New Delhi



Dr. Mahesh M. Bunde
Director & Principal
RTU, Jaipur



Dr. Pankaj Dhemla
Vice-Chancellor
ICR, Jaipur



Ar. Rahul Singh
Director
Poornima Group, Jaipur



Dr. Garima Mathur
Head, Department of ECE
ICR, Jaipur

Resource Persons



Dr. Seema Verma
Professor
NIT Raigarh



Dr. Manish Tiwari
Professor
National Institute of Technology



Dr. Anil Kumar
Professor, National College
of Engineering, Bikaner



Dr. Anshu Arora
Professor, Jodhpur Institute of Engineering &
Technology, Bikaner



Dr. Rajeev Kumar
Professor
NIT Raigarh



Dr. Satyashil Jagan Nath Varda
Associate Professor
NIT Raigarh



Dr. Sanjeev Yadav
Associate Professor
Central Institute of Technology



Dr. Pushpendra Singh
Associate Professor
School of Electronics, Bikaner



Dr. Hegaraj M. Lalinath
Associate Professor, Department
of ECE & Electronics, Bikaner



Dr. Anil Kumar Gang
Associate Professor, Bikaner
Institute of Technology



Dr. Adilga Singh
Associate Professor
NIT Raigarh



Sushma Shrivastava
Associate Professor, Department
of Electronics, Bikaner

Organized by

RTU-COE AWC, Department of Electronics & Communication Engineering



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Coordinators



Dr. Meeta Negi
Associate Professor
Department of ECE, RTU, Kota



Dr. Nilesh Mudgal
Associate Professor
Department of ECE, RTU, Kota

Inaugural Q-Sheet



POORNIMA

COLLEGE OF ENGINEERING



SHORT TERM TRAINING PROGRAM

on



Recent Trends in Communication, Computing &
Networking, January 8-12, 2024

Organized by

RTU Recognized Centre of Excellence Advanced Wireless Communication
Department of Electronics & Communication Engineering,
Poornima College of Engineering, Jaipur

Date: January 8, 2024

Time: 11:00 A.M. – 11:50 A.M.

Venue: Online (meet.google.com/wti-bxxy-qsk)

Q-Sheet Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of STTP by Dr. Meetu Nag, Associate Professor ECE, PCE • Bhagirath Singh, IRRS, Sr. Deputy Wireless Adviser, Govt. of India, Ministry of Communications, New Delhi (Chief Guest) • Ar. Rahul Singhi, Director, Poornima Group • Dr. Mahesh Bundele, Director & Principal, PCE, Jaipur • Dr. Pankaj Dhemla, Vice Principal, PCE, Jaipur • Dr. Garima Mathur, Professor and Head, ECE, PCE, Jaipur	05 Min	11:00 A.M. -11:05 A.M.
2.	Welcome Address by Dr. Mahesh Bundele, Director & Principal, PCE, Jaipur	10 Min	11:05 A.M. -11:15 A.M.
3.	Motivational Words by Ar. Rahul Singhi, Director, Poornima Group	05 Min	11:15 A.M. - 11:20 A.M.
4.	Detail Introduction of STTP by Dr. Garima Mathur, Professor and Head, ECE, PCE, Jaipur	05 Min	11:20 A.M. -11:25 A.M.
5.	Inaugural Address by Bhagirath Singh, IRRS, Sr. Deputy Wireless Adviser, Govt. of India, Ministry of Communications, New Delhi (Chief Guest)	20 Min	11:25 A.M. -11:45 A.M.
6.	Vote of Thanks by Dr. Rajesh Bathija, Professor, ECE, PCE	05 Min	11:45 A.M. 11:50 A.M.

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

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

Detailed Schedule of STTP:-



Poornima College of Engineering, Jaipur

Department of Electronics & Communication Engineering



Short Term Training Program (STTP) on Recent Trends in Communication, Computing & Networking, January 8-12, 2024

	09:30 AM -11:00 AM	11:30 AM -01:00 PM	01:30 PM - 03:00 PM
Monday 08.01.2024		Inaugral Session (11:00 A.M. -12:00 Noon) Chief Guest Bhagirath Singh, IRRS Sr. Deputy Wireless Adviser Govt. of India, Ministry of Communications, New Delhi	Peak to Power Average Ratio Analysis in 5G Waveform Dr. Arun Kumar, Professor New Horizon College of Engg., Bangaluru
Tuesday 09.01.2024	Optical Fiber Based Surface Plasmon Resonance Sensors Dr. Manish Tiwari, Professor & Head Manipal University Jaipur	Demystifying Aircraft Ad-hoc Networks Dr. Seema Verma, Professor NITTTR Bhopal	Flexible Optical Access Networks & Applications Dr. Amit Kumar Garg, Assistant Professor Indian Institute of Information Technology Kota
Wednesday 10.01.2024	Role of Microwaves in Communication: Frequency Selective Surfaces, Absorbers & Resonators Dr. Sanjeev Yadav, Associate Professor Central University, Jammu	Simulation of Wireless Network Using NS3 Dr. Nagaraj M. Lutimath, Associate Professor Information Science & Engineering, Bengaluru	Generative Artificial Intelligence: Tools, Model & Applications Dr. Aditya Sinha, Assistant Professor Manipal University Jaipur
Thursday 11.01.2024	Industrial Need & Application of Smart Sensors & IoT Dr. Amrita Rai, Professor Lloyd Institute of Engineering & Technology, Greater Noida	Computer Vision Based Bio-medical Image Processing Using Machine Learning Sushma Sheshadri, Assistant Professor Maharaja Institute of Technology, Mysore	Machine learning & Its Applications: Different Perspectives Dr. Rajeev Kumar, Professor MIT, Morarabad
Friday 12.01.2024	On the Hypercomplex Numbers & Normed Division Algebra of All Dimensions: A Unified Multiplication Dr. Pushpendra Singh, Associate Professor School of Engineering, JNU Delhi	Intelligent Algorithms For Design of Digital Communication Channel Equalizer Dr. Satyasai Jagannath Nanda, Associate Professor MNIT Jaipur	Valedictory Session (1:00 P.M. -1:30 P.M.) Chief Guest Dr. Satyasai Jagannath Nanda, Associate Professor MNIT Jaipur

Dr. Mahesh Bunde
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Inaugural Ceremony

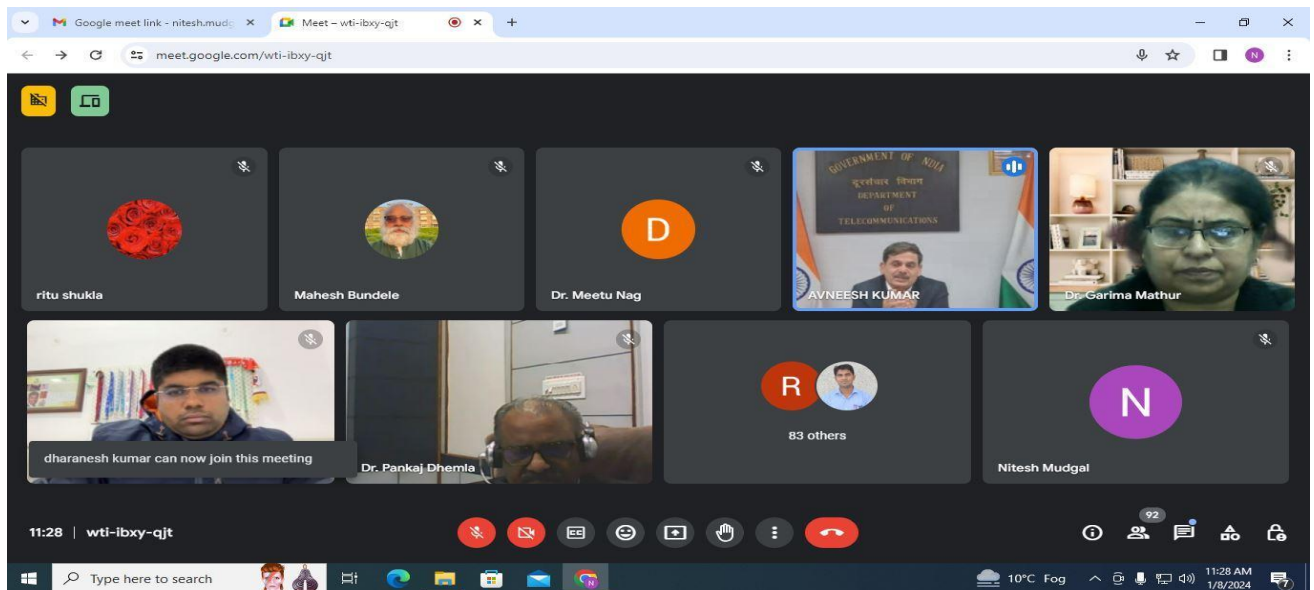
Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur organized Four Days IEEE, RTU Online Refresher program on "Recent Trends in Communication, Computing & Networking" from January 08-12, 2024 in three sessions daily through online mode.

The objective of this refresher program is intended to impart knowledge and training on the fundamentals of Recent Trends in Communication, Computing & Networking, its use in various domains via medical, agricultural, public sector etc. On 8th January program was inaugurated by **Chief Guest Mr. Bhagirath Singh, IRRS, Sr. Deputy Wireless Adviser, Govt. of India, Ministry of Communications, New Delhi** (Chief Guest) Jaipur was Guest of Honor of the program. Architect, Rahul singhi, Director. Poornima Group, Dr. Mahesh M. Bundeale, Director, PCE, Dr. Pankaj Dhemia, Vice Principal, PCE and Dr. Garima Mathur, HOD, department of Electronics & Communication Engineering, PCE also graced the program. In this program more than 200 faculties from all over India got registered. 15 Technical Sessions were scheduled. Eminent speakers from all over India gave their knowledge on the upcoming topics like Peak to Power Average Ratio Analysis in 5G Waveform, Optical Fiber Based Surface Plasmon Resonance Sensors, Demystifying Aircraft Ad-hoc Networks, Flexible Optical Access Networks & Applications, Role of Microwaves in Communication: Frequency Selective Surfaces, Absorbers & Resorbers, Simulation of Wireless Network Using NS3, Generative Artificial Intelligence: Tools, Model & Applications, Industrial Need & Application of Smart Sensors & IoT, Computer Vision Based Bio-medical Image Processing Using Machine Learning, Machine learning & Its Applications: Different Prepective, On the Hyper complex Numbers & Normed Division Algebra of All Dimensions: A Unified Multiplication, etc Speakers also shared their thoughts that Smart Sensors & IoT applications in Healthcare, Agriculture, Business and Security etc. AI is an emerging technology that shall be used almost all applications / technologies/ systems in one or other form.

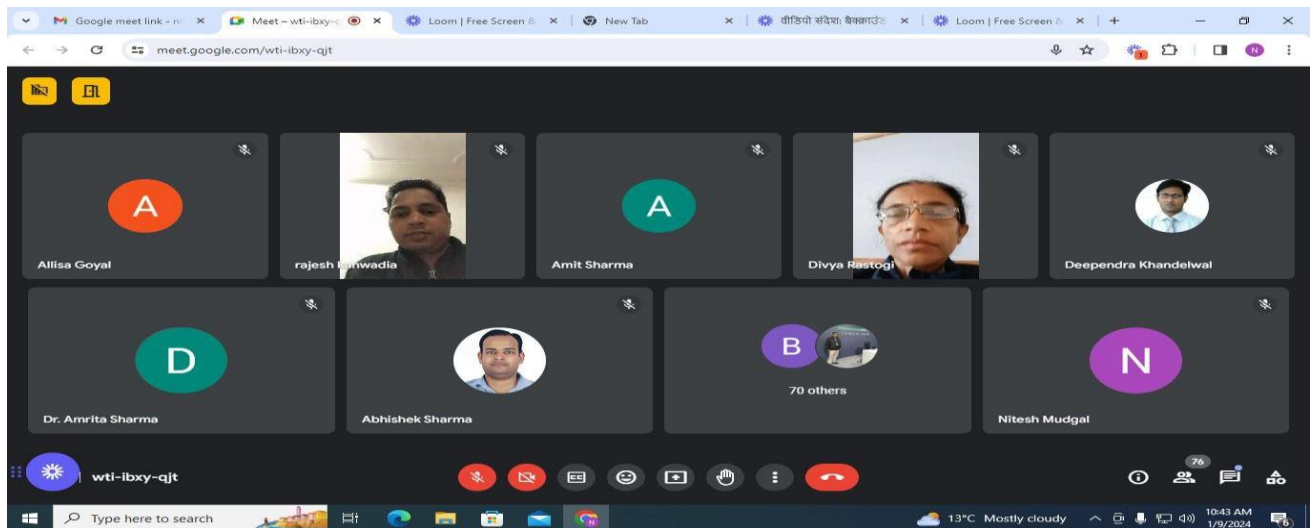
GLIMPSES:

Inaugural Session (11:00 A.M. -12:00 Noon)

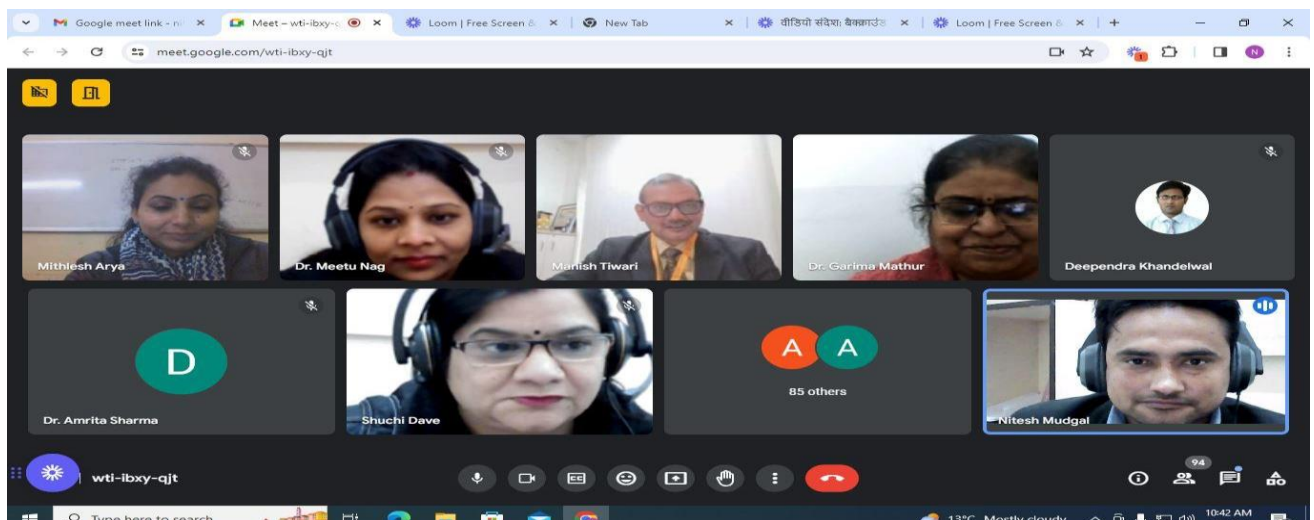
Chief Guest Bhagirath Singh, IRRS Sr. Deputy Wireless Adviser Govt. of India, Ministry of Communications, New Delhi




Inaugural Session



Inaugural Session



Inaugural Session


Dr. Mahesh Bunde
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DAY 1:- SESSION 1

Peak to Power Average Ratio Analysis in 5G Waveform

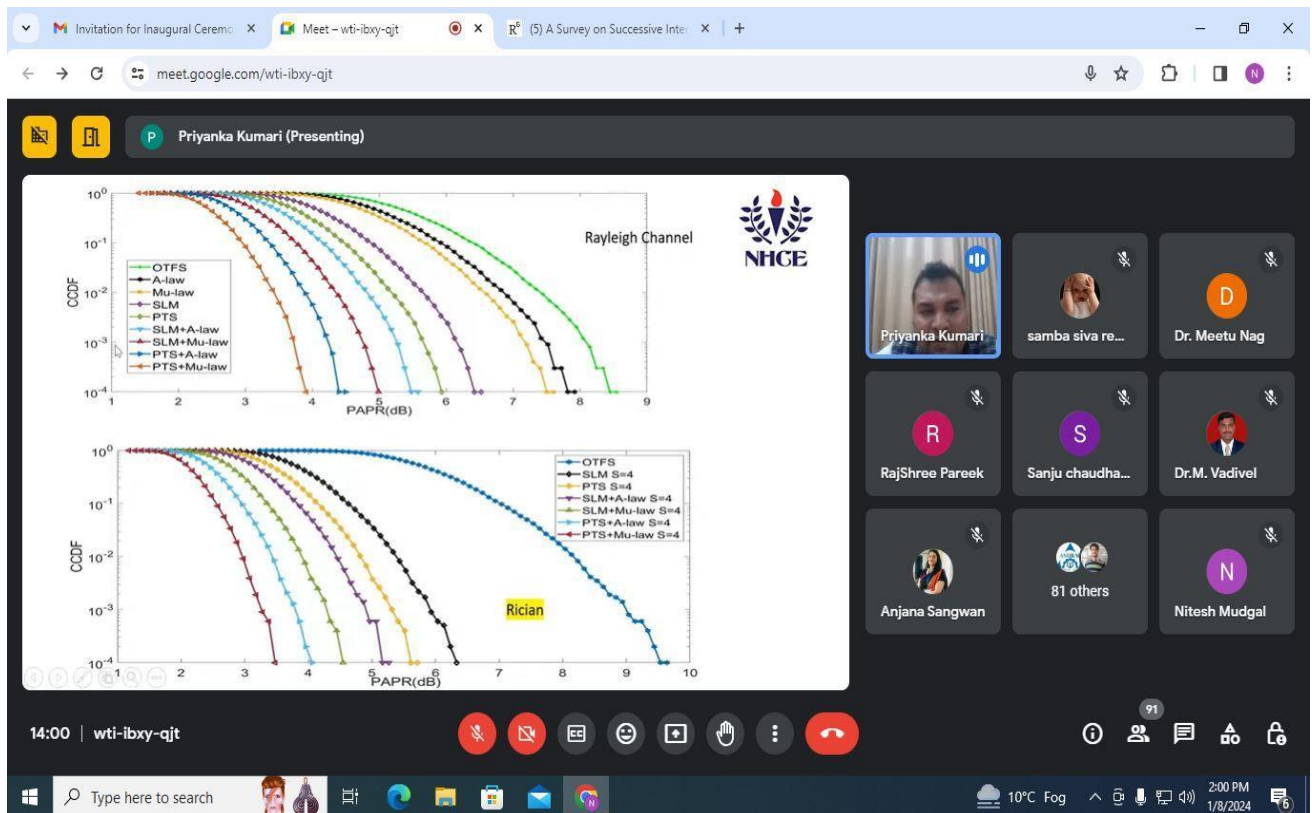
Dr. Arun Kumar, Professor New Horizon College of Engg., Bangaluru

Multicarrier Waveform (MCW) has several advantages and plays a very important role in cellular systems. Fifth generation (5G) MCW such as Non-Orthogonal Multiple Access (NOMA) and Filter Bank Multicarrier (FBMC) are thought to be important in 5G implementation. High Peak to Average Power Ratio (PAPR) is seen as a serious concern in MCW since it reduces the efficiency of amplifier use in the user devices. The paper presents a novel Divergence Selective Mapping (DSL_M) and Divergence Partial Transmission Sequence (D-PTS) for 5G waveforms. It is seen that the proposed D-SLM and PTS lower PAPR with low computational complexity. The work highlighted a combination of multi-data block partial transmit schemes along with tone reservation. In this, an overlapping factor is used to determine the number of data blocks for every group. Here, considering only those data blocks that have minimum signal power, the use of DSL_M and DPTS are required to eliminate the segment's peaks. Simulation results reveal that the suggested hybrid technique proves to be better than the conventional PTS scheme. Furthermore, the power saving performance of FBMC and NOMA is compared with the Orthogonal Frequency Division Multiplexing (OFDM) waveform.

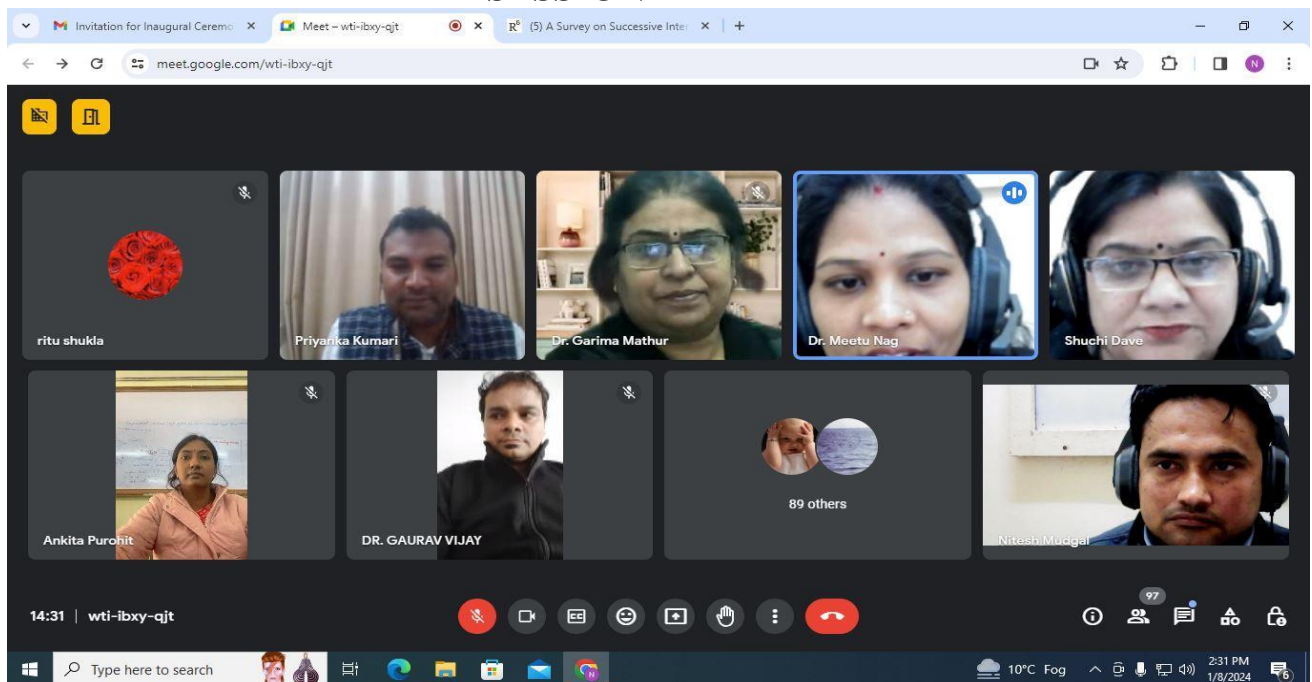
The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "Recent Trends in Communication, Computing & Networking, January 8-12, 2024: Poornima College of Engg." with the NHCE logo. The slide content includes "PAPR Analysis on Advanced waveforms : Problem in 5G and Beyond 5G" and a profile for Dr. Arun Kumar, a Top 2% Scientist Elsevier and Stanford University 2024, with a Scopus H-Index of 14. The slide also shows Scopus statistics: 748 citations by 375 documents, 107 documents, and 14 h-index. A video thumbnail of Dr. Meetu Nag is visible in the top right corner of the slide area. On the right side of the Meet window, a "People" panel lists participants: Ruqaiya Khanam (SET Pr...), samba siva reddy Mula, Shashank Shriramwar, Shirish Nagar, Shuchi Dave, Sonam Gour, and Vipin Jain. The bottom of the screen shows the Windows taskbar with the time 13:10 and date 1/8/2024.

SESSION 1


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SESSION 1



DAY 2:- SESSION 1

Optical Fiber Based Surface Plasmon Resonance Sensors

Dr. Manish Tiwari, Professor & Head Manipal University Jaipur

Surface Plasmon resonance technique in collaboration with optical fiber technology has brought tremendous advancements in sensing of various physical, chemical, and biochemical parameters. In this review article, we present the principle of SPR technique for sensing and various designs of the fiber optic SPR probe reported for the enhancement of the sensitivity of the sensor. In addition, we present few examples of the surface Plasmon resonance- (SPR-) based fiber optic sensors. The present review may provide researchers valuable information regarding fiber optic SPR sensors and encourage them to take this area for further research and development.

The screenshot shows a Google Meet interface with a presentation slide titled "The Nonlinear Schrödinger Equation". The slide contains the following text:

Assuming that the input electric field propagates in the z direction and is polarized in the x direction,

$$\frac{\partial A}{\partial z} = -\frac{\alpha}{2} A + \sum_{n=2}^{\infty} \frac{i^n}{n!} \beta_n \frac{\partial^n A}{\partial T^n} + i\gamma \left(1 + \frac{T}{n_b} \frac{\partial}{\partial T} \right) \left(A \int_{-\infty}^{\infty} R(T') A(z, T-T')^2 dT' \right)$$

where I, II, III, IV and V terms on R.H.S. represent linear attenuation, dispersion, Kerr effect, self steepening and stimulated Raman scattering respectively, and the quantities in the above equation denote the following

- $A(z, t)$: the envelope of the optical field,
- T : time,
- β_n : the n th derivative of the propagation constant β
- γ : the nonlinear coefficient.

The bottom of the screen shows a video call interface with participants: Manish Tiwari, Deependra Khand..., Dr. Amrita Sharma, 92 others, and RajShree Pareek. The time is 10:04 and the date is 1/9/2024.

The screenshot shows a Google Meet interface with a presentation slide titled "Hoop-Cut PCF SPR Biosensor". The slide contains the following text:

S. Mittal *et al.*, "Design and Performance Analysis of a Novel Hoop-Cut SPR-PCF Sensor for High Sensitivity and Broad Range Sensing Applications," in *IEEE Sensors Journal*, doi: 10.1109/JSEN.2023.3339813.

The slide includes a diagram of the sensor structure and a measurement setup. The diagram shows a cross-section of a hexagonal lattice PCF with a central core, surrounded by cladding layers (Air holes, Silica, Gold Layer, TiO₂ Layer, and Analyte Layer). The measurement setup shows a light source, a polarizer controller, a PCF sensor, a computer, and a data acquisition system.

Fig. 1: (a) Cross-section view of the proposed hexagonal lattice PCF- SPR with diameter of air hole (d)= $0.40 \times \Lambda$, pitch (Λ)= $3.1 \mu\text{m}$, Gold layer (T_g)= 40nm , TiO_2 layer (T_{TiO_2})= 70nm , Hoop diameter= $5.14 \mu\text{m}$ (b) Measurement setup of the proposed sensor.

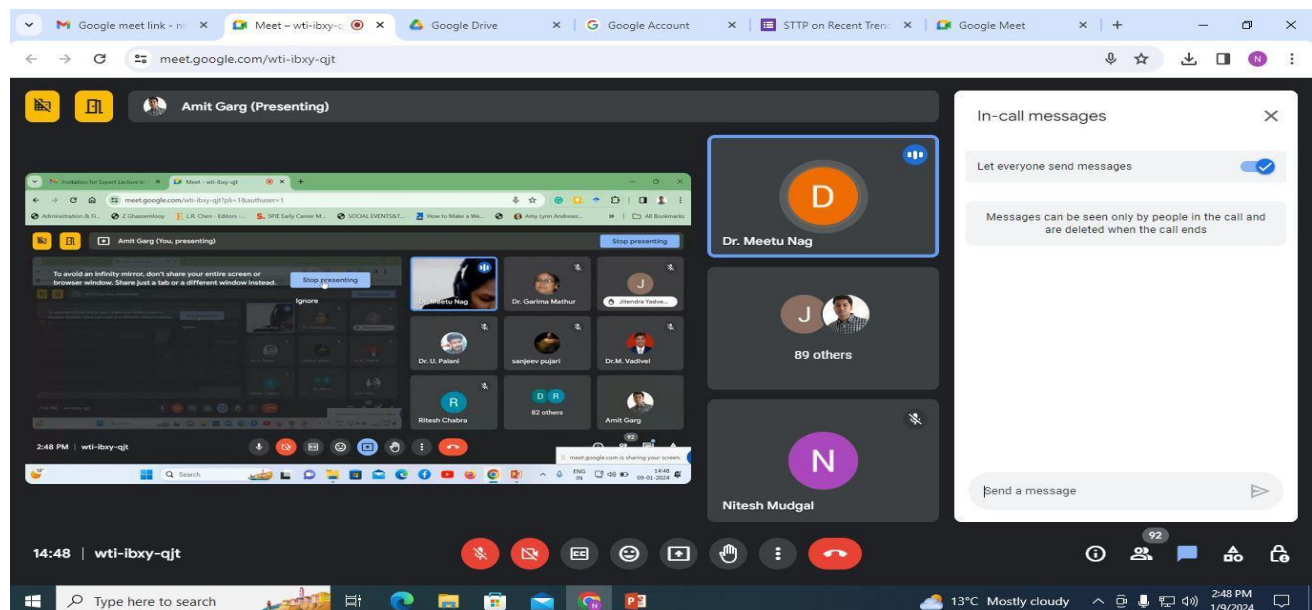
The bottom of the screen shows a video call interface with participants: Manish Tiwari, Deependra Kh..., Periasamy Sha..., Dr. Amrita Shar..., Pooja Verma, Siva Kumar, 93 others, and RajShree Pareek. The time is 10:27 and the date is 1/9/2024.

DAY 2:- SESSION 2

Demystifying Aircraft Ad-hoc Networks

Dr. Seema Verma, Professor NITTTR Bhopal

Millimeter-wave (mmWave) networking represents a core technology to meet the demanding bandwidth requirements of emerging connected vehicles. However, the feasibility of mmWave vehicle-to-everything (V2X) connectivity has long been questioned. One major doubt lies in how the highly directional mmWave links can sustain under high mobility. In this paper, we present the first comprehensive reality check of mmWave V2X networks. We deploy an experimental tested to mimic a typical mmWave V2X scenario, and customize a COTS mmWave radio to enable microscopic investigation of the channel and the link. We further construct a high-fidelity 3D ray-tracer to reproduce the mmWave characteristics at scale. With this toolset, we study the mmWave V2X coverage, mobility and blockage, codebook/beam management, and spatial multiplexing. Our measurement debunks some common misperceptions of mmWave V2X networks. In particular, due to the constrained roadway network structures, we find the beam management can be handled easily by the often-denounced beam scanning schemes, as long as the codebook is properly designed. Blockage can be almost eliminated through proper base station deployment and cooperation. Highly effective spatial multiplexing can be realized even without sophisticated MIMO radios. Our work points to possible ways to realize efficient and reliable mmWave networks under high mobility, while maintaining the simplicity of standard network protocols.



DAY 2:- SESSION 3

Flexible Optical Access Networks & Applications

Dr. Amit Kumar Garg, Assistant Professor Indian Institute Information and Technology Kota

Flexible line rate is one of the key features for future optical access networks offering optimized throughput to multiple fiber-to-the-X users with different channel conditions and service priority; meanwhile, considerations should focus on technological transition from single-wavelength 50G higher-speed PON (G.hsp) based on optical direct detection systems to future digital coherent technology 100G/λ and beyond. In this paper, we propose a single-carrier modulation scheme that can achieve flexible line rates with arbitrary rational oversampling ratios without altering sampling rate of the transceiver. In the proposed scheme, the waveforms are based on the well-shaped Dirichlet kernel using discrete Fourier transforms (DFT). However, in comparison to conventional single-carrier frequency-division multiplexing (SC-FDM), the Dirichlet waveform of the proposed modulation algorithm is real-valued; in such a way, the proposed algorithm can be readily applied for both pulse amplitude modulation (PAM) for direct detection PON and, with forward compatibility to, future digital coherent PON with e.g., quadrature amplitude modulation (QAM). To validate the feasibility of the proposed system, experiments were carried out and flexible data rates from 62.1 to 174.5 Gbit/s with up to 8-ary PAM was successfully demonstrated for IM/DD-based PON using a fixed sampling rate at 64 GSa/s. The experiments show that the oversampling ratio can be arbitrary rational numbers no less than 1 to adjust the signal Baud rate. As a result, the proposed scheme is promising for offering optimal bandwidth allocation for current IM/DD-based and future coherent PON.

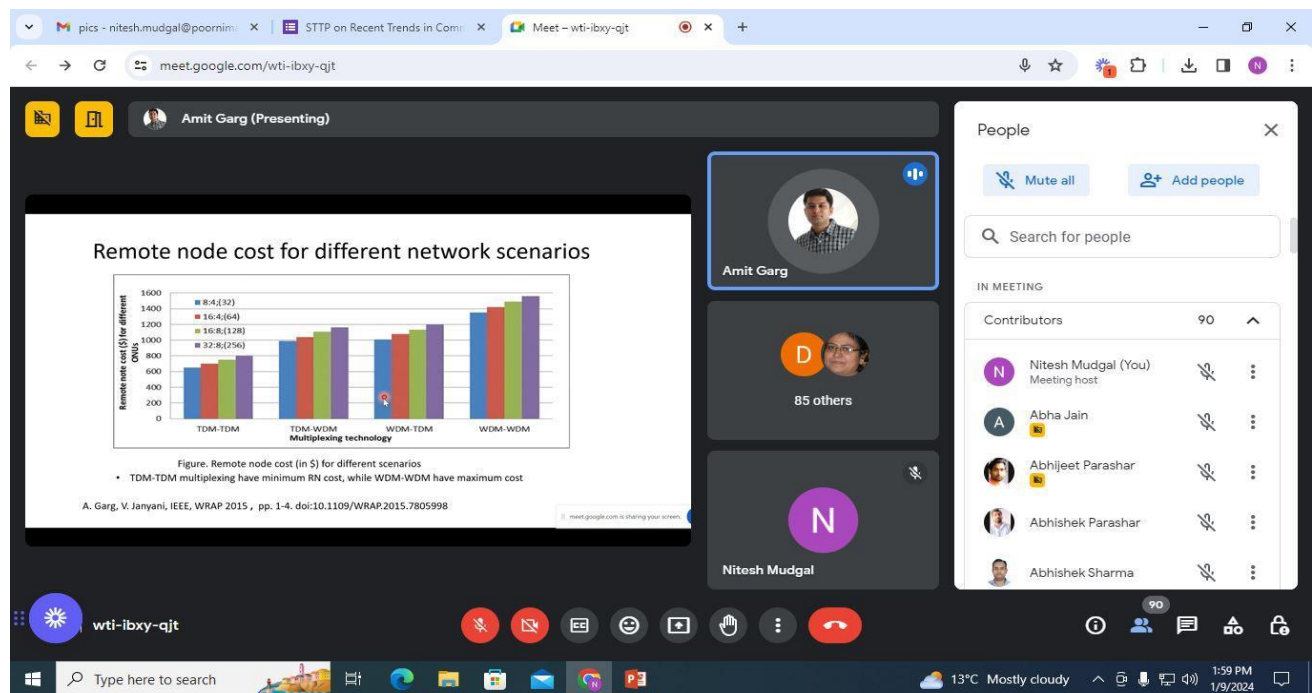
Assumptions

M	N	Supported ONU
8	4	32
16	4	64
16	8	128
32	8	256

Remote node combinations and supported ONUs

Splitter Ports : Cost(\$)	AWG Ports : Cost(\$)
4:300\$	4:640\$
8:350\$	8:710\$
16:400\$	16:780\$
32:450\$	32:850\$

Cost associated with AWG is given by $500+70*\log_2(X)$ while for power splitter it is approximately $200+50*\log_2(X)$ [6].$$

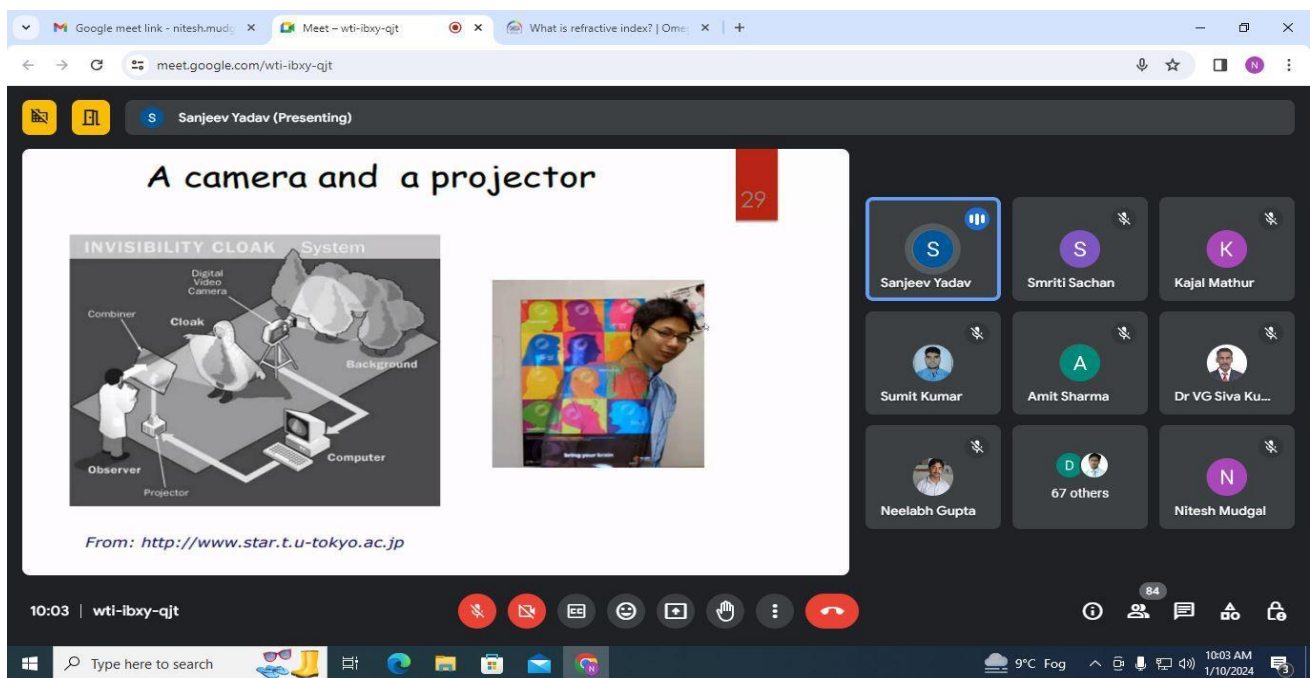
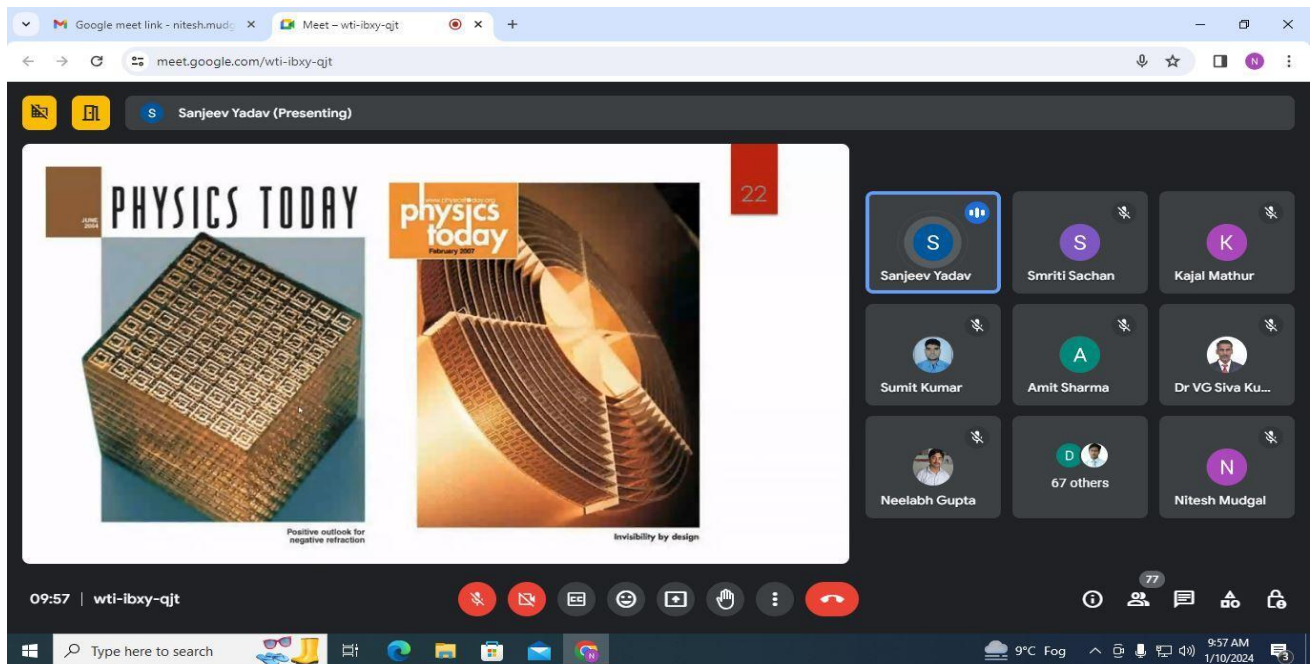


DAY 3:- SESSION 1

Role of Microwaves in Communication: Frequency Selective Surfaces, Absorbers & Rasorbers

Dr. Sanjeev Yadav, Associate Professor Central University, Jammu

A frequency-selective surface (FSS) can be employed as a spatial filter for incident electromagnetic (EM) waves, which are most often used in redone design to protect the antennas and to reduce the radar cross section (RCS) of the antenna system [1] – [3] . In-band signals transmit through the FSS with little power loss, while out-of-band incoming waves are reflected strongly, making them detectable by radar. Thus, to further reduce the biostatic/multistate RCS of the redone, circuit analog absorbers or absorbing materials are introduced into the redone design. As a result, the out-of-band signals are absorbed and reflection is reduced.



DAY 3:- SESSION 2

Simulation of Wireless Network Using NS3Dr

Dr. Nagaraj M. Lutimath, Associate Professor Information Science & Engineering, Bengaluru

NS3 Wireless Simulation builds a dynamic library for future events maintained in sorted Event List and supports Events model packet transmission, receipt, timers. We Assist Engineering students and Research scholars in Implementing Ns3 Wireless simulation Projects with best customer support and 100% Guaranteed Output.

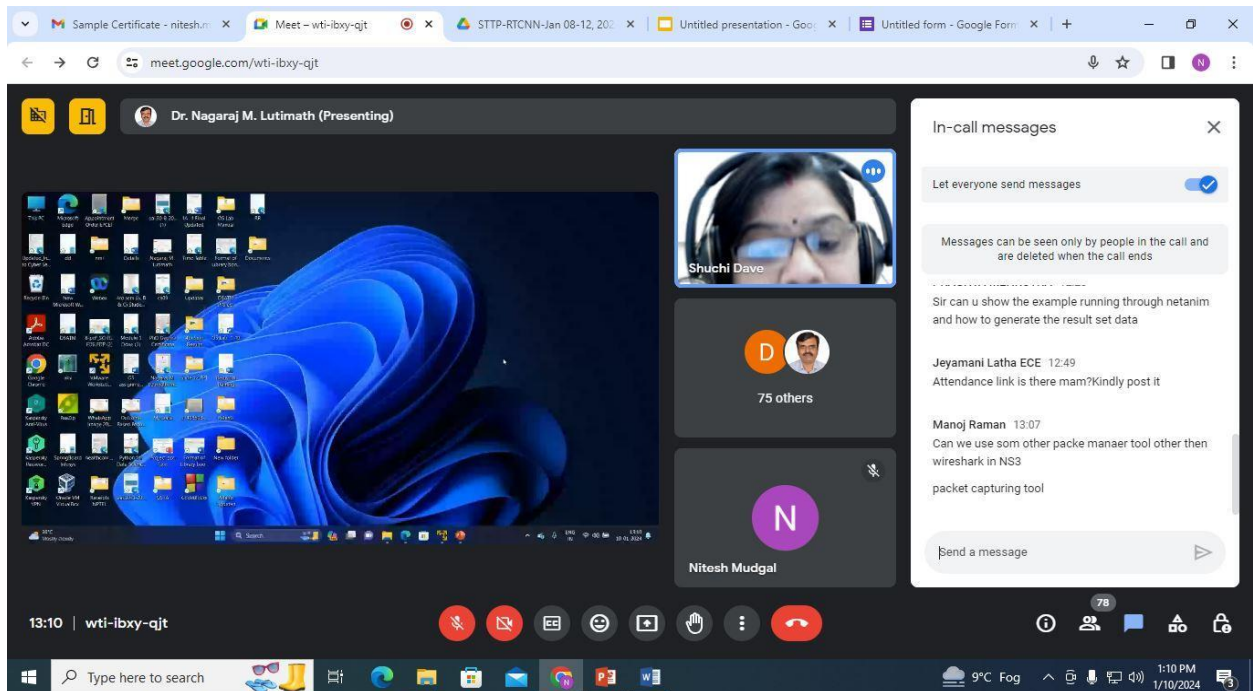

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DAY 3:- SESSION 3

Generative Artificial Intelligence: Tools, Model & Applications

Dr. Aditya Sinha, Assistant Professor Manipal University Jaipur

Generative AI is powered by foundation models (large AI models) that can multi-task and perform out-of-the-box tasks, including summarization, Q&A, classification, and more. Plus, with minimal training required, foundation models can be adapted for targeted use cases with very little example data.

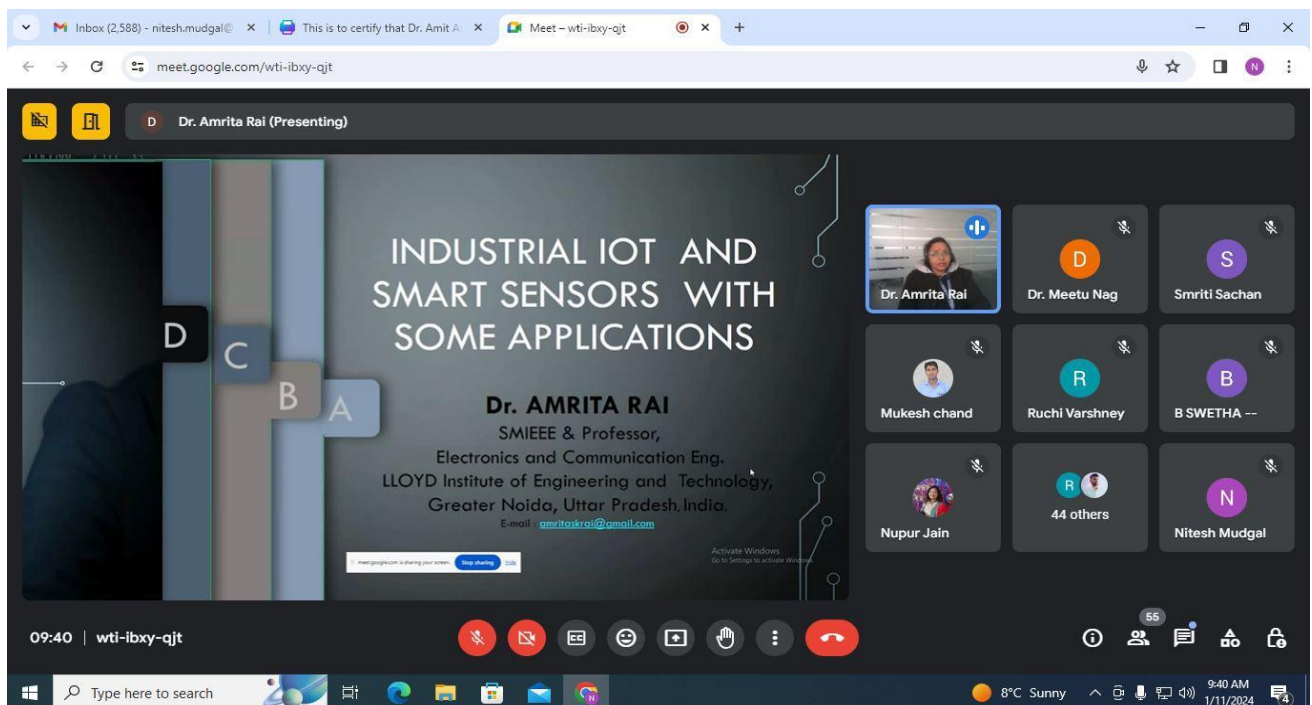


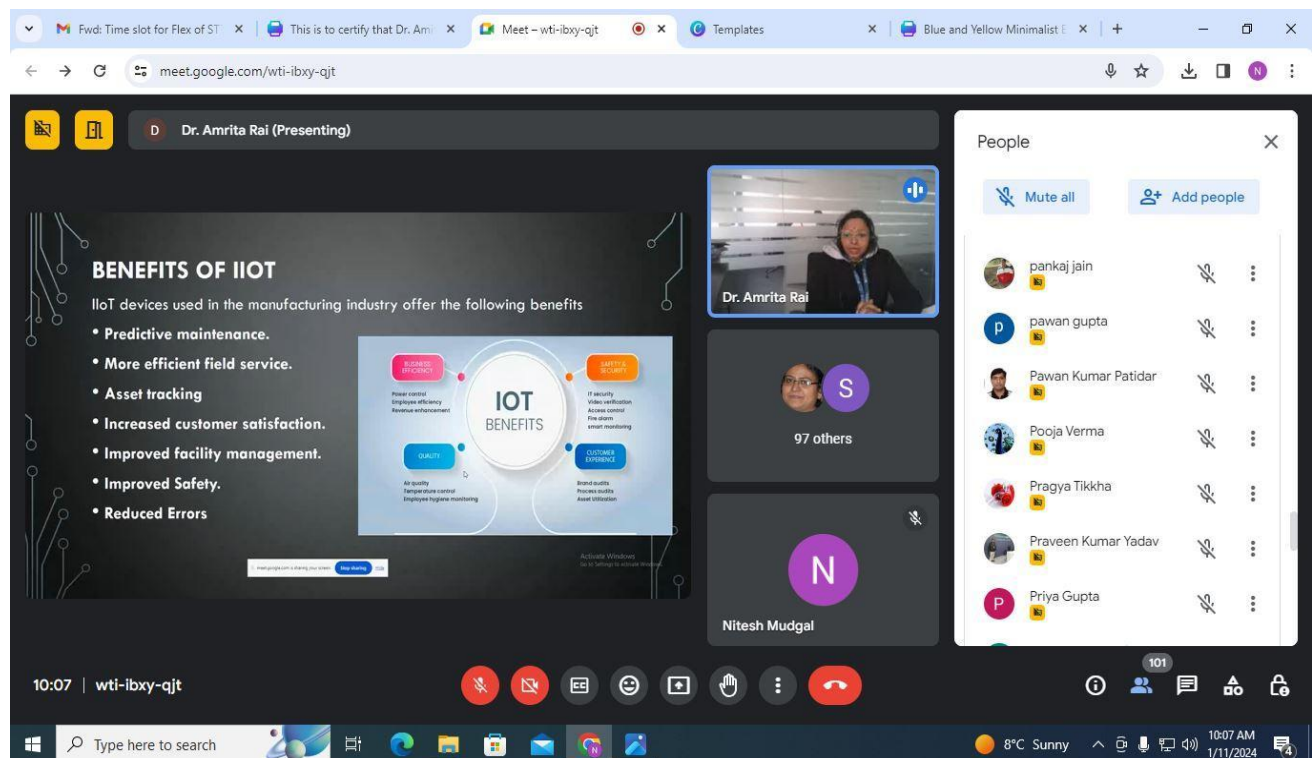
DAY 4:- SESSION 1

Industrial Need & Application of Smart Sensors & IoT

Dr. Amrita Rai, Professor Lloyd Institute of Engineering & Technology, Greater Noida

Smart sensors are used to monitor different industrial processes, collecting data, taking measurement, and sending the data to centralized cloud computing platforms where information is collected and analyzed for patterns. This data can be monitored by key decision makers at any time.





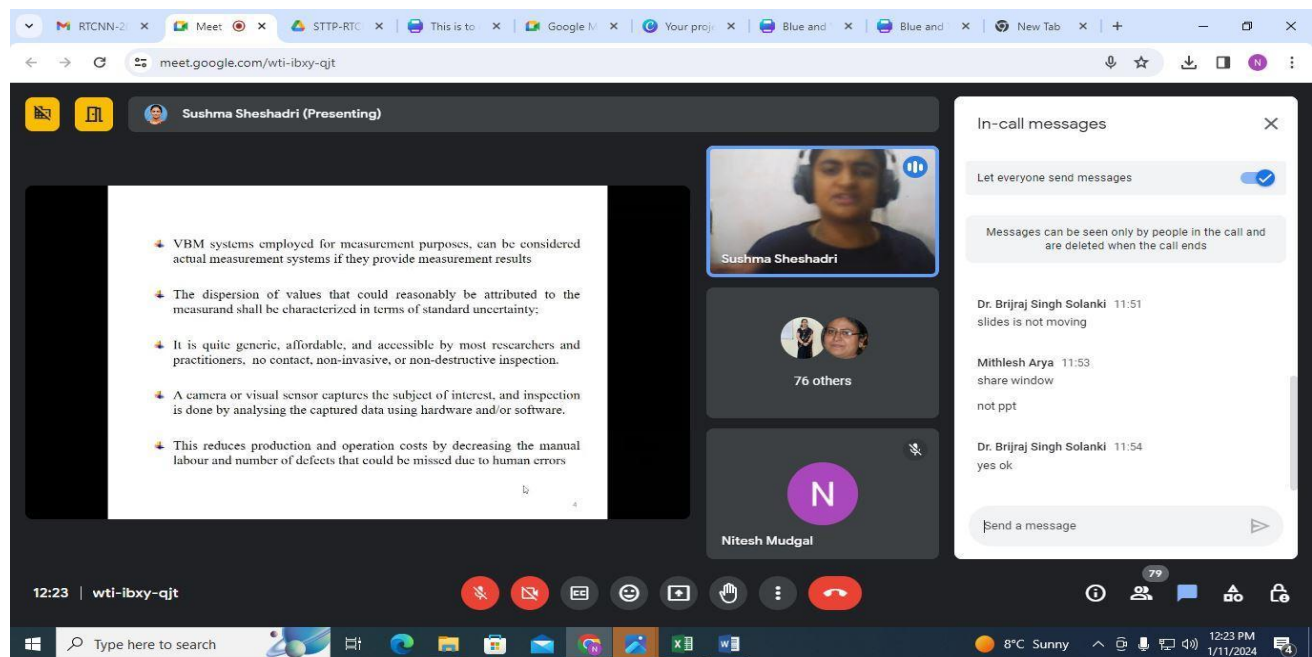
DAY 4:- SESSION 2

Computer Vision Based Bio-medical Image Processing Using Machine Learning

Sushma Sheshadri, Assistant Professor **Maharaja Institute of Technology, Mysore**

Computer vision is a branch of artificial intelligence and computer science that enables computers to acquire a high level of comprehension from digital images or recordings, analogous to how humans perceive and interpret visual information. It involves the development of algorithms and techniques that enable machines to analyze visual data and derive meaningful information from it. Computer vision algorithms for biomedical image processing typically explore and present the latest advancements, research, and applications of computer vision techniques explicitly tailored to analyzing biomedical images.

This Special Issue aims to bring together researchers and practitioners from the fields of computer vision and biomedical imaging to showcase cutting-edge developments in computer vision algorithms and their applications in biomedical image processing. The goal is to foster the exchange of knowledge and ideas and to promote the dissemination of high-quality research in this interdisciplinary area.

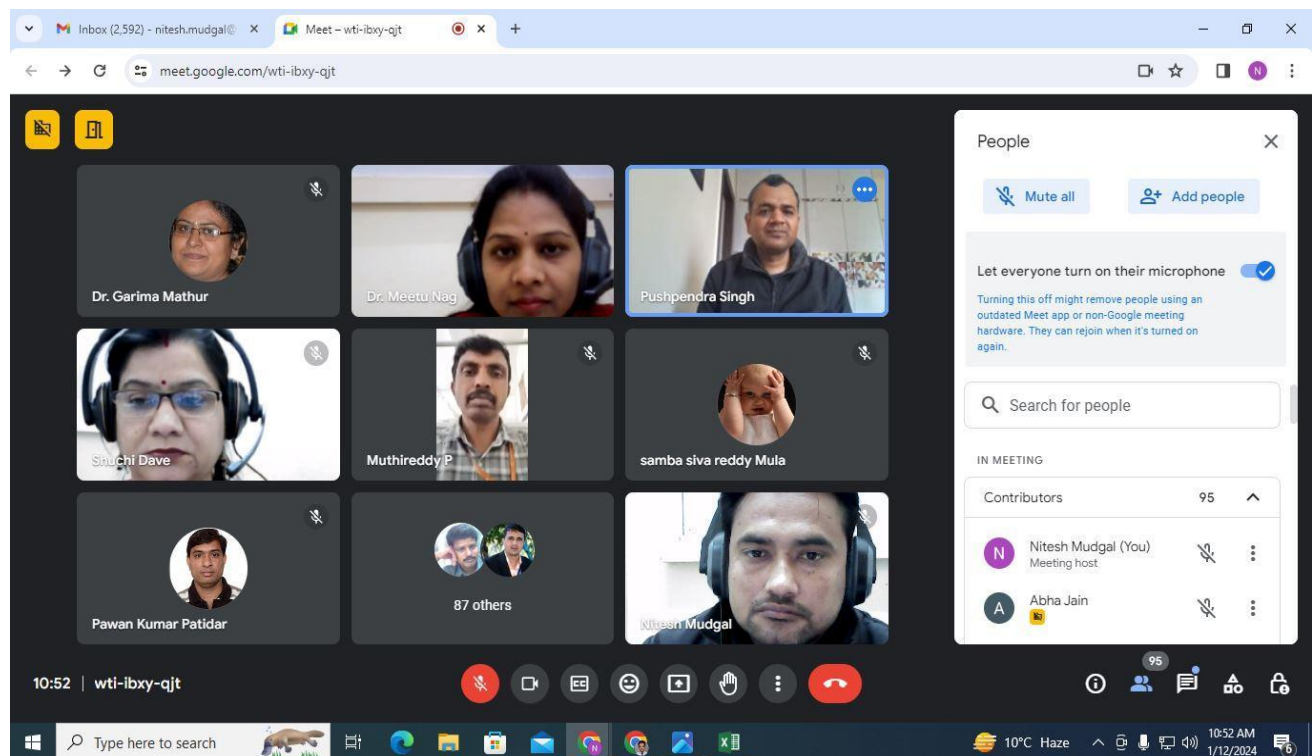


DAY 5:- SESSION 1

On the Hyper complex Numbers & Normed Division Algebra of All Dimensions: A Unified Multiplication

Dr. Pushpendra Singh, Associate Professor School of Engineering, JNU Delhi

Mathematics is the mother of all the sciences, engineering and technology, and a normed division algebra of all finite dimensions is the mathematical holy grail. In search of a real three-dimensional, normed, associative, division algebra, Hamilton discovered quaternion's that form a non-commutative division algebra of quadruples. Later works showed that there are only four real division algebras with 1, 2, 4, and 8 dimensions. This work overcomes this limitation and introduces generalized hyper complex numbers of all dimensions that are extensions of the traditional complex numbers. The space of these numbers forms non-distributive normed division algebra that is extendable to all finite dimensions. To obtain these extensions, we defined a unified multiplication, designated as scaling and rotative multiplication, fully compatible with the existing multiplication. Therefore, these numbers and the corresponding algebras reduce to distributive normed algebras for dimensions 1 and 2. Thus, this work presents a generalization of \mathbb{C} in higher dimensions along with interesting insights into the geometry of the vectors in the corresponding spaces.



DAY 5:- SESSION 2

Intelligent Algorithms For Design of Digital Communication Channel Equalizer

Dr. Satyasai Jagannath Nanda, Associate Professor MNIT Jaipur

Wireless communication systems have evolved and offered more smart and advanced systems like ad hoc and sensor-based infrastructure fewer networks. These networks are evaluated with two fundamental parameters including data rate and spectral efficiency. To achieve a high data rate and robust wireless communication, the most significant task is channel equalization at the receiver side. The transmitted data symbols when passing through the wireless channel suffer from various types of impairments, such as fading, Doppler shifts, and Intersymbol Interference (ISI), and degraded the overall network performance. To mitigate channel-related impairments, many channel equalization algorithms have been proposed for communication systems. The channel equalization problem can also be solved as a classification problem by using Machine Learning (ML) methods. In this paper, channel equalization is performed by using ML techniques in terms of Bit Error Rate (BER) analysis and comparison. Radial Basis Functions (RBFs), Multilayer Perception (MLP), Support Vector Machines (SVM), Functional Link Artificial Neural Network (FLANN), Long-Short Term Memory (LSTM), and Polynomial-based Neural Networks (NNs) are adopted for channel equalization.

Google meet link - nitesh.mudg... x Meet - wti-ibxy-qjt x Google Meet x +

meet.google.com/wti-ibxy-qjt

Satyasai Nanda (Presenting)

Digital Communication

11:35 | wti-ibxy-qjt

People

All muted Add people

- Ruchi Varshney
- samba siva reddy Mula
- Satyasai Nanda Meeting host
- Satyasai Nanda Presentation
- Shubham Patel
- Shuchi Dave Meeting host
- shweta Agarwal

41 others

Nitesh Mudgal

Type here to search

10°C Haze 11:35 AM 1/12/2024

Google meet link - nitesh.mudg... x Meet - wti-ibxy-qjt x Google Meet x +

meet.google.com/wti-ibxy-qjt

Satyasai Nanda (Presenting)

Digital Channel Equalization

11:34 | wti-ibxy-qjt

People

All muted Add people

- Ruchi Varshney
- samba siva reddy Mula
- Satyasai Nanda Meeting host
- Satyasai Nanda Presentation
- Shubham Patel
- Shuchi Dave Meeting host
- shweta Agarwal

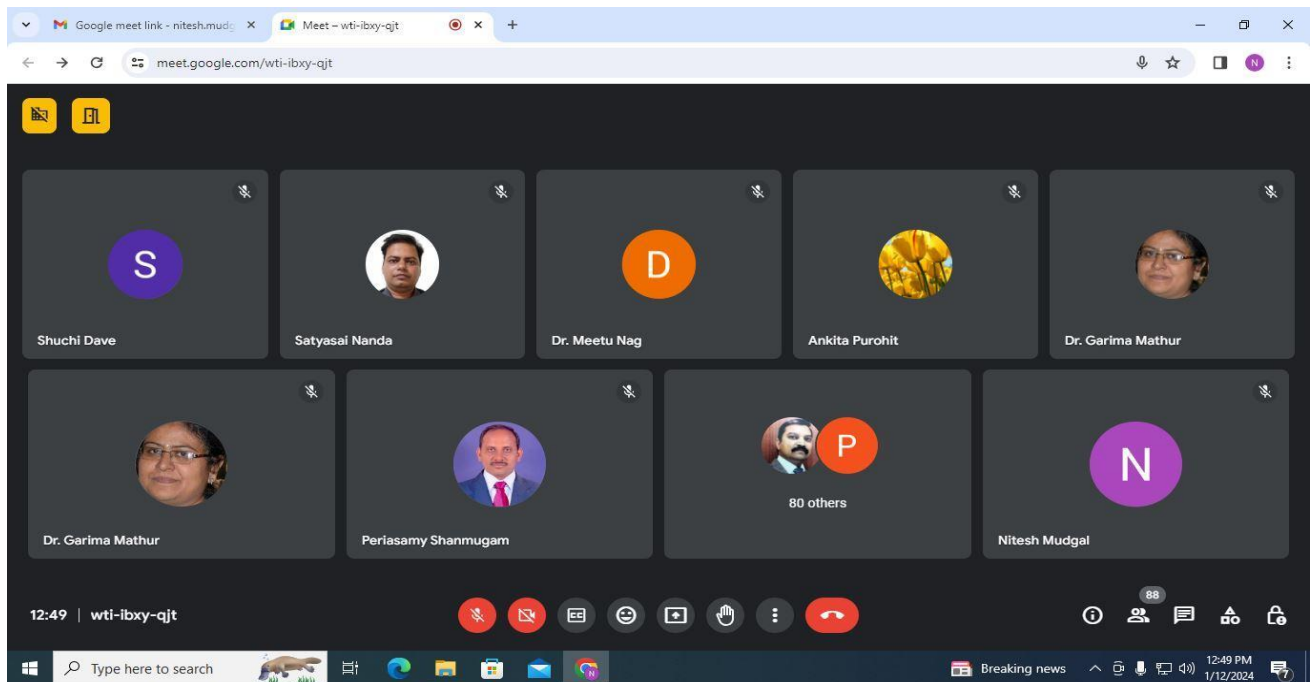
41 others

Nitesh Mudgal

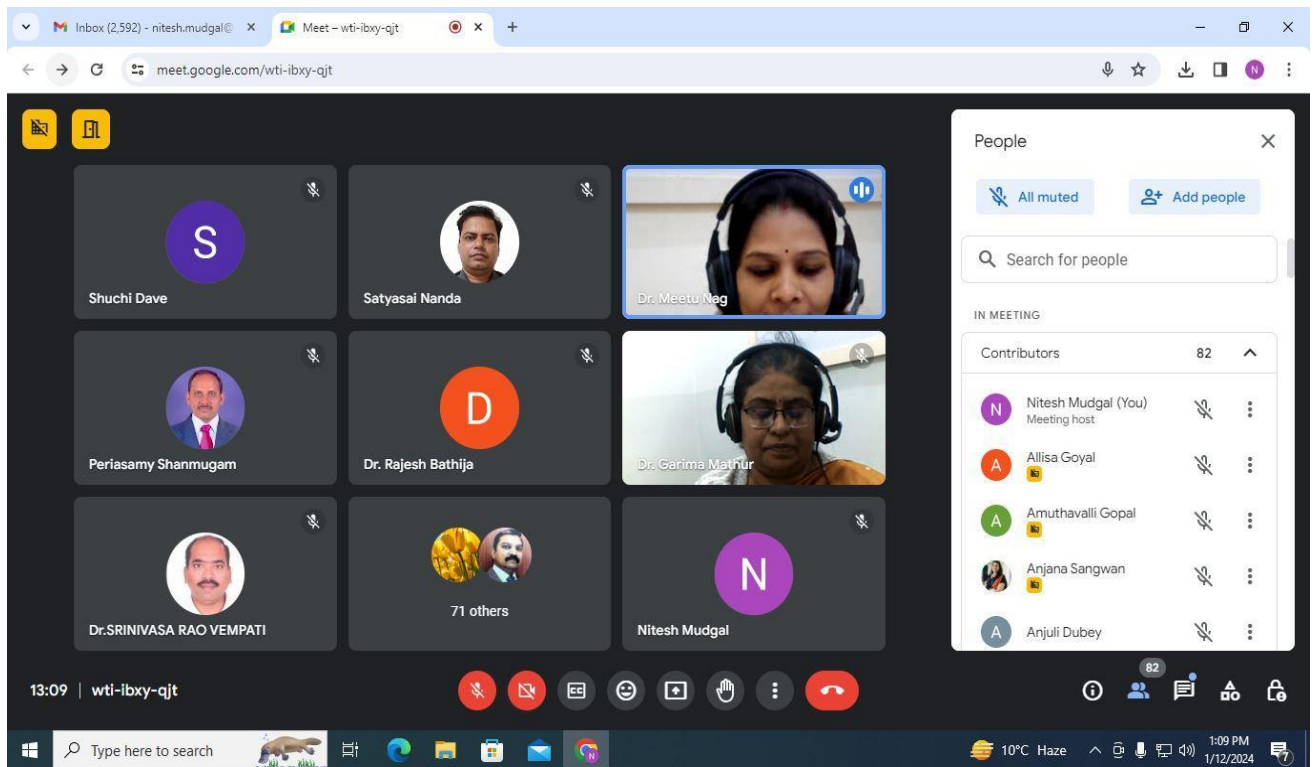
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Poornima College of Engineering-Activity Report



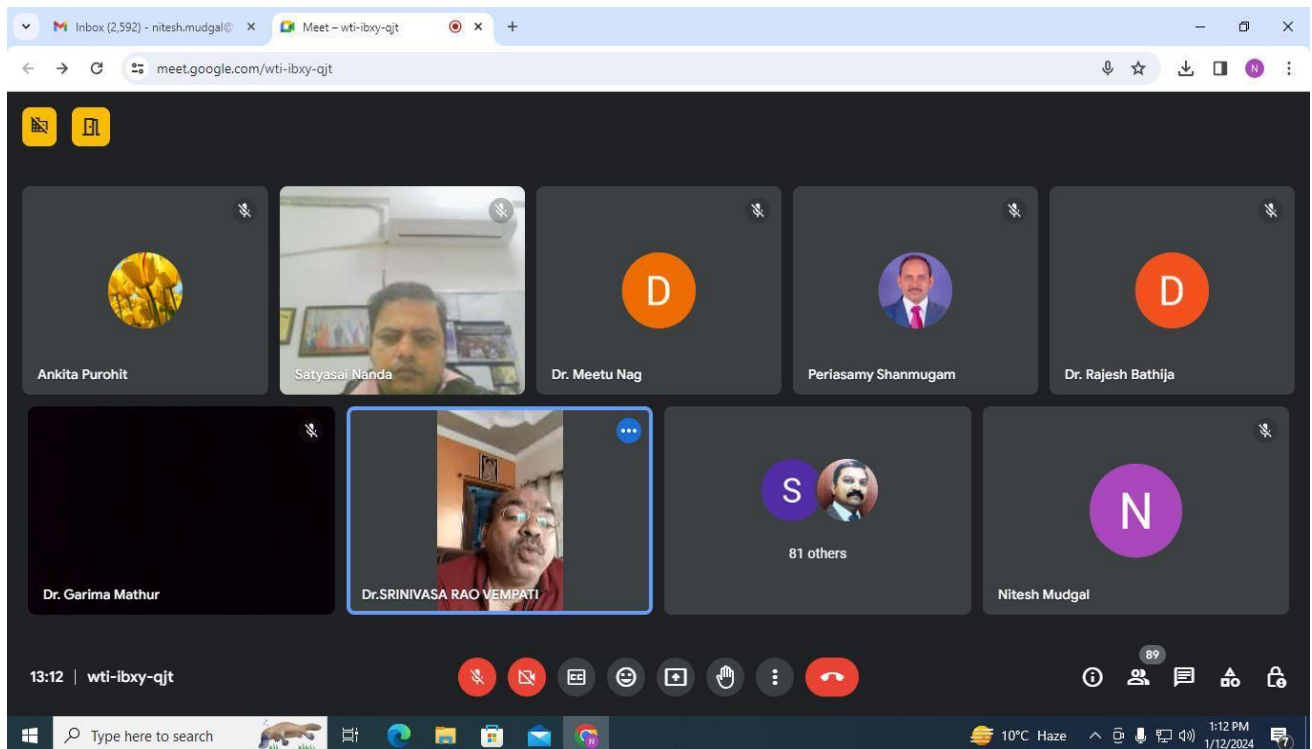
VALEDICTORY:-



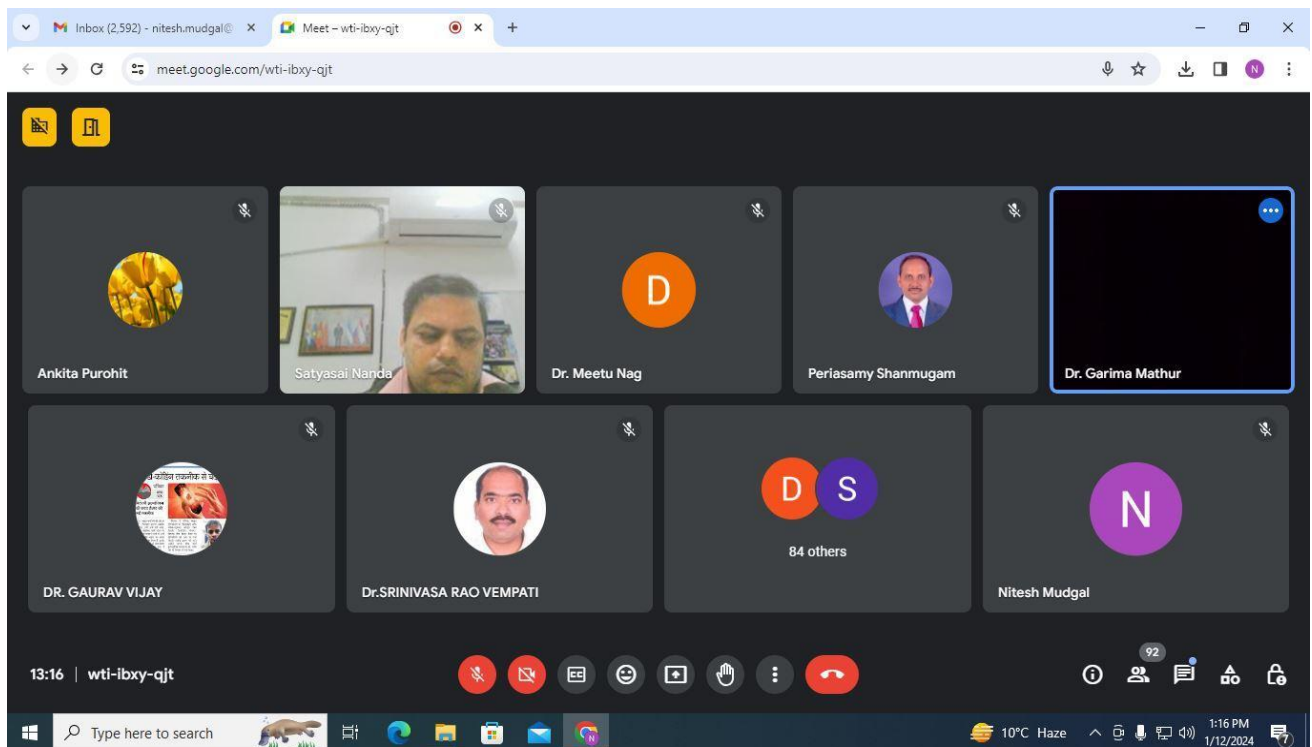
Valedictory


Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISO 9001:2015 Certified
Gulapura, JAIPUR

Poornima College of Engineering-Activity Report



Valedictory



Valedictory


Dr. Mahesh Bunde
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISO 9001:2015 Certified
GILCO Institutional Area
Gulapura, JAIPUR

CERTIFICATE:



POORNIMA
COLLEGE OF ENGINEERING

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



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Poornima College of Engineering, Jaipur
Student Branch STB08621

PCE/EC/RTCCN-2024/161

Certificate of Participation

This is to certify that **Mr./Ms./Dr. Durgesh Kumar** from **Poornima College of Engineering, Jaipur** has attended a Five Days Short Term Training Program (STTP) on **“Recent Trends in Communication, Computing & Networking”** Organized by RTU Recognized Centre of Excellence Advanced Wireless Communication, Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur during January 08-12, 2024.

Dr. Garima Mathur
Convenor

Dr. Pankaj Dhemia
Vice Principal

Dr. Mahesh M. Bunde
Director & Principal

Reg. Form:-

2/6/24, 8:41 AM

Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on January 8-12, 2024 (Virtual Mode)

Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on January 8-12, 2024 (Virtual Mode)

* Indicates required question

1. Email *

2. Email: *

<https://docs.google.com/forms/d/TVV1r0Rf1oayy02dLan94dy6e7yLwFdiC3bWYU7weY/edit>

14

2/6/24, 8:41 AM

Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on January 8-12, 2024 (Virtual Mode)

3. Prefix (as required on certificate): *

Mark only one oval.

- ☐ Prof.
☐ Dr.
☐ Mr.
☐ Ms.
☐ Mrs

4. Name of Participant without Prefix (As required on certificate): *

5. Age:

Tick all that apply.

☐ Option 1

2/6/24, 8:41 AM

Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on January 8-12, 2024 (Virtual Mode)

6. *

Mark only one oval.

☐ Option 1

7. Department: *

8. Designation: *

9. Highest Qualification: *

10. Name of Institution/College/University/Industry with Place (As required on certificate): *

11. City: *

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3/4

2/6/24, 8:41 AM

Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on January 8-12, 2024 (Virtual Mode)

12. State: *

13. Mobile No. (WhatsApp No.): *

14. Declaration: *

Tick all that apply.

☐ The given information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the programme.

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

PARTICIPANTS DETAILS:

S. No.	Name of Participant without Prefix (As required on certificate):	Department:	Name of Institution/College/University/Industry with Place (As required on certificate):
1	Vineet Sharma	Electrical Engineering	Poornima College of Engineering
2	Sonam Gour	ECE	Poornima College of Engineering
3	MUKESH CHAND	ELECTRONICS AND COMMUNICATION ENGINEERING	POORNIMA COLLEGE OF ENGINEERING
4	NEHA MAHALA	Computer Engineering	Poornima College of Engineering Jaipur
5	ANJULI DUBEY	Computer Engineering	Poornima College of Engineering, Jaipur (Rajasthan)
6	Basudha	ECE	Poornima University Jaipur
7	POOJA RANI	COMPUTER SCIENCE AND ENGINEERING	NA
8	Sharbari Deb	Electrical Engineering	Poornima University
9	GM	ECE	PCE
10	ASHWINI KUMAR	ELECTRONICS AND COMMUNICATION ENGINEERING	POORNIMA UNIVERSITY
11	Pankaj Bairwa	CSE	Poornima college of engineering
12	Tarun Mishra	Computer Science & Engineering	Poornima Univeristy
13	UMESH KUMAR SHARMA	ECE	Arya college of engineering and I. T.
14	MADHAV SHARMA	Computer science	Poornima University Jaipur
15	Kashifa Khan	Computer Science and Engineering	Poornima Institute of Engineering and Technology, Jaipur
16	Vishal Jain	CSE	Sharda University, Greater Noida
17	ABHISHEK SHARMA	COMPUTER ENGINEERING	POORNIMA COLLEGE OF ENGINEERING, JAIPUR
18	Pramod Sharma	Electronics and Communication Engineering	Regional College for Education Research and Technology
19	SANDEEP VYAS	Electronics and Communication Engineering	Jaipur Engineering College & Research Centre
20	Meenakshi Nawal	Computer Science and Engineering	Swami Keshvanand institute of technology, management and Gramothan
21	Smriti Sachan	ECE	G. L. Bajaj Institute of Technology and Management, Greater Noida
22	Rishi Kumar Jalwal	Computer Science and Engineering	Poornima University
23	Nidhi Srivastav	CSE	Swami keshvanand Institute of Technology Management & Gramothan, Jaipur
24	KRISHANU KUNDU	ECE	G L Bajaj Institute of Technology & Management, Greater Noida
25	Aditya Kumar Singh Pundir	Electronics and Communication Engineering	Arya College of Engineering and Information Technology
26	Achin Srivastav	Mechanical Engineering	SKIT Jaipur
27	Kamlesh Gautam	Advance Computing	Poornima College of Engineering
28	Mamta Rani	Ece	JECRC
29	Priya Gupta	CSE	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur
30	Arpita Sharma	Computer science engineering	SKIT jaipur
31	Mithlesh Arya	Computer Science and Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur

			Gramothan
32	Hemlata Panwar	IT	Poornima College of Engineering
33	VIVEK BHOJAK	SCIT	Anand International College of Engineering
34	Shikha Shrivastava	Information technology	SKIT, Jagatpura Jaipur
35	Harpreet Singh Gill	CSE	SKIT, Jaipur
36	Dolly Mittal	Information Technology	SKIT, M&G, Jaipur
37	Archika Jain	CSE	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur
38	Rekha Rani Agarwal	First year department	Poornima Institute of Engineering and Technology
39	Ritu Shukla	Information Technology	Swami Keshvanand Institute of Technology, Management & Gramothan
40	Pankaj Dadheech	Computer Science & Engineering	Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT)
41	Nikhar Bhatnagar	IT	Swami Keshvanad Institute of Technology
42	Megha Gupta	CSE	Swami Keshavanand Institute of Technology Management and Gramothan, Jaipur
43	Naveen Jain	IT	Skit jaipur
44	Amrita Rai	ECE	Lloyd institute of engineering and technology
45	Dr Himani Goyal Sharma	Electrical Engineering	Chandigarh University
46	Amit Kumar Jain	Electrical & Electronics Engineering	Poornima University
47	ASHA SAFANA M	Department of Mathematics	Anna University Regional Campus Coimbatore
48	Ankita mishra	Electronics and communication	GL bajaj Institute of technology and management
49	Neha Mathur	Computer Science and Engineering	Swami keshvanand Institute of Technology, management and Gramothan (SKIT)
50	Harendra Singh	Electronics and Communication Engineering	G.L. Bajaj Institute of Technology and Management Greater Noida
51	Snehanshu Shekhar	Electronics and Communication Engineering	Birla Institute of Technology Mesra, Jaipur Campus
52	RAJESH RAJAAN	Computer Science and Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan
53	SOHAN LAL GUPTA	CSE	Swami keshvanand Institute of Technology management and gramothan
54	PRIYANKA SHARMA	CSE	Swami Keshvanand Institute of Technology, Management and Gramothan
55	Sanjay Annu Pujari	Electronics and Communications	Klescet Chikodi
56	Praveen Kumar Yadav	Information Technology	Swami Keshvanand Institute of Technology and Management, Gromothan
57	Jyotsna Joshi	Electronics and communication	Veermata Jijabai Technological Institute (VJTI), Mumbai
58	Dr. Neeraj Kumar Misra	School of Electronics Engineering	VIT-AP University
59	Raju Hebbale	Electronics & Communication Engineering	KLECET CHIKODI
60	Seema Arya	Computer science and engineering	Modi institute of technology

61	Amit Shrivastava	Electrical Engineering	Poornima Institute of Engineering and Technology
62	Agilesh M B	EEE	Sri Sairam Engineering College
63	Vipin Jain	IT	Swami Keshvanand Institute of Technology, Jaipur
64	Palika Jajoo	CSE	M.Tech.
65	Pankaj Jain	Electronics & Communication Engineering	Modi Institute of Technology
66	Gaurav Kapoor	Electrical Engineering	Modi Institute of Technology Kota
67	Krishan Kumar Soni	Electronics & Communication Engineering	Modi institute of technology Kota
68	Mukesh Chaudhary	Electronics and Communication Engineering	Modi Institute of Technology, Kota
69	MANISH BHARDWAJ	CSE	SKIT, Jaipur
70	Neelabh Gupta	Mechanical	Modi Institute of Technology
71	Mahender Kumar Beniwal	Computer Science and Engineering	Swami Keshvanand Institute of Technology Management and Gramothan
72	Manoj Raman	Information technology	Swami keshvanand institute of technology management gramothan
73	Ritesh Chhabra	ECE	Modi Institute of Technology
74	SUMIT KUMAR	CSE	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
75	Aisha Rafi	Mathematics	poornima institute of engineering and technology
76	Sanwta Ram Dogiwal	IT	SKIT
77	Anjana Sangwan	CSE	SKIT, JAIPUR
78	Ravi Kant Prasad	Electronic and Communication Engineering	Lloyd Institute of Engineering and Technology, Greater Noida
79	Richa Sharma	CSE	Swami Keshwanand Institute of Technology, Management & Gramothan
80	Sunil Dhankhar	Computer Science and Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan
81	CHINA RAMU SAMPATHIRAO	Computer Science and Engineering	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
82	KAMESH M	Electronics and Communication Engineering	Velammal Institute of Technology
83	Govindaraj V	Electronics and communication engineering	Dr NGP Institute of technology
84	DIVYA ROHATGI	CSE	POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY, SITAPURA
85	C.N.Ravi	EEE	Vidya Jyothi Institute of Technology
86	Shuchi Dave	Mathematics, EC	Poornima College of Engineering
87	M.Moorthi	Biomedical Engineering	Saveetha Engineering College
88	Geeta Tiwari	Computer Science	Poornima College of Engineering
89	Pawan Kumar Patidar	Computer Science and Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur
90	JEBA NEGA CHELTHA	CSE	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT AND GRAMOTHAN
91	Deependra Khandelwal	EC	JEC, Kukas Jaipur
92	Sarabjeet Singh Sethi	Computer Science Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur- 302017 (Rajasthan) India
93	Rishabh Yadav	Electronics and	GL Bajaj Institute of Technology and

		Communication	Management
94	Ashish Kumar Sharma	Electrical Engineering	Modi Institute of Technology, Kota
95	Shashank Shriramwar	Industrial IoT	Priyadarshini College of Engineering
96	Mrs. Ruchi Varshney	Electronics & Communication Engineering	MIT Moradabad
97	Seethalakshmi V	ECE	KPR Institute of Engineering and Technology, Coimbatore
98	Pramod Sharma	Electronics and Communication Engineering	Regional college for Education Research and Technology
99	Sagar from	Electronics and Communication	Indian Institute of Information Technology, Nagpur
100	DAULAT RAM BENIWAL	CSE	PIET, JAIPUR
101	R.Hemalatha	ECE	Velammal Institute of Technology
102	Sunita Gupta	Information Technology	Swami Keshvanand Institute of Technology management and Gramothan Jaipur
103	Sunita Gupta	Information Technology	Swami Keshvanand Institute of Technology management and Gramothan Jaipur
104	M Vadivel	ECE	Vidya Jyothi Institute of Technology
105	CHINA RAMU SAMPATHIRAO	Computer Science and Engineering	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
106	G. RAMASUBBA REDDY	Computer Science & Engineering	Mother Theresa Institute of Engineering and Technology
107	Richa Rawal	IT	Swami Keshvanand Institute of Technology Management and Development
108	Vempati Srinivasa Rao	ECE	Anurag Engineering College
109	Sanju Choudhary	IT	Swami Keshvanand Institute of Technology, Management & Gramothan
110	GUDUPUDI RAVIKUMAR	ECE	Anurag Engineering College
111	DHARAVATH RAJEEV NAIK	ECE	ANURAG ENGINEERING COLLEGE
112	VALAPARLA DAVID	ECE	Anurag engineering college autonomous
113	Allisa Goyal	CSE	Swami keshwanand institute of technology management and garmothan
114	NITHYA S	ECE	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY
115	Ganesan P	ECE	VJIT
116	Reena Sharma	Advance Computing	Poornima College of Engineering
117	P Ranjith kumar	Electronics and Communication Engineering	PSR Engineering College, Sivakasi
118	M BASHA	ECE	Anurag Engineering College
119	Loveleen Kumar	Computer Science and Engineering	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
120	Ruqaiya Khanam	Electronics and Communication Engineering	Sharda University
121	P.S.PERIASAMY	ELECTRONICS AND COMMUNICATION ENGINEERING	K S R COLLEGE OF ENGINEERING
122	ABHISHEK SINGH RAJAWAT	ECE	Poornima college of engineering
123	Shirish Nagar	Computer Science and Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan Jaipur
124	Ruchi Dave	Computer Science	St Wilfred's PG College

125	Chandraveer Singh	School of Automation	Banasthali Vidyapith
126	ATUL SHARMA	ECE	Global institute of technology
127	Dinesh Kumar T	ECE	SCSVMV Deemed university
128	D. JEYAMANI LATHA	ELECTRONICS AND COMMUNICATION ENGINEERING	VELAMMAL INSTITUTE OF TECHNOLOGY
129	Dr.M.A.ARCHANA	Ece	SCSVMV UNIVERSITY
130	SAMBA SIVA REDDY MULA	Electronics and Communication Engineering	Lakireddy Bali Reddy College of Engineering
131	Dheeraj Singh	Electronics and Communications Engineering	central university of rajasthan
132	Shiwangi Sharma	AI and DS	Poornima Institute of Engineering and Technology
133	Nemichand	EE	PCE
134	Sunil Gupta	Computer and Systems Sciences	Jaipur National University
135	Neeraj Garg	CSE	SKIT Jaipur
136	SWETHA B	E. C. E	Anurag Engineering College, Kodad
137	Ashutosh Kumar	Electrical Engineering	Central University Of Haryana
138	Agilesh M B	EEE	Sri Sairam Engineering College
139	Abhishek Sharma	Electronics and Communication Engineering	Stani Memorial College of Engineering and Technology
140	Chandrasekaran	ECE	Saveetha school of Engineering
141	RAJASEKARAN.A	CSE	SIMATS, SAVEETHA DEEMED UNIVERSITY
142	Tamilselvan	Cse	Saveetha School of Engineering, SIMATS, Chennai
143	R. THALAPATHI RAJASEKARAN	CSE	Saveetha school of engineering, SIMATS chennai
144	E Anbalagan	CSE	Saveetha School of engineering
145	Pawan Gupta	Computer Science & Engineering	Modi Institute of Technology
146	PRAVIN SONWANE	ELECTRICAL ENGINEERING	POORNIMA COLLEGE OF ENGINEERING
147	S.K.SARAVANAN	CSE	Saveetha School of Engineering, SIMATS
148	VINOD BHAGAUR	CIVIL ENGINEERING	STANI MEMORIAL COLLAGE & ENGINEERING TECHNOLOGY PHAGI JAIPUR
149	PARTHIPAN V	Computer Science and Engineering	Saveetha School of Engineering /SIMATS
150	MUGUNTHAN VEERAPPAN	Electronics and Communication Engineering	Velammal Institute of Technology
151	Ganesh narayan prajapat	cs	poornima university
152	POONGAVANAM N	CSE	SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES
153	Suchita Wasudeo Varade	Electronics and Telecommunication Engg	Priyadarshini College of Engineering, Nagpur
154	NUPUR JAIN	FIRSTYEAR(CHEMISTRY)	POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY,JAIPUR
155	Rachit Saxena	Electrical Engineering	Poornima College of Engineering
156	Ashwini Kumar	Electrical and Electronics Engineering	Lloyd Institute of Engineering and Technology Greater Noida
157	bhasker sharma	EE	Lloyd Institute of Engineering & Technology Greater Noida
158	BHARATHI A	INFORMATION TECHNOLOGY	Bannari Amman Institute of Technology, Sathyamangalam
159	RAJASEKARAN.A	CSE	SIMATS SAVEETHA DEEMED UNIVERSITY

160	RAGHAVENDRA PATIDAR	Electronics & Communication Engineering	Arya College of Engineering & IT
161	Mudita Sharma	Mathematics & Computing	Thapar Institute of Engineering & Technology
162	Y. SUJATHA	Mecchanical Engineering	BVC Engineering college oldalarevu, Autonomous
163	Santhakumar G	ECE	Sri Krishna College of Technology
164	GAURAV VIJAY	ECE	CAREER POINT UNIVERSITY
165	Devender Kumar Dhaked	CSE	Manipal University
166	MONIKA MALIK	Electronics and Communications Engineering	JSS Academy Of Technical Education , Noida
167	Indu Bala	School of Electronics and Electrical Engineering	Lovely Professional University, Punjab
168	Ankita Purohit	Electronics and Communication Engineering	JIET, Jodhpur
169	DEEPAK GARG	Electronics and Communication Engineering	IIMT Engineering College
170	Arpit Kumar Gupta	Electrical Engineering	Poornima College of Engineering
171	Suresh Kumar Lohar	ECE	Poornima College of Engineering
172	Rajshree Pareek	ECE	Poornima college of engineering
173	Monika Gupta	Pharmaceutical Chemistry and Drug design	Amar Shaheed Baba Ajit Singh Jhujhar Singh memorial College of Pharmacy, Bela, Topar
174	Hemant Kaushik	Electrical Engineering	Poornima College of Engineering, Jaipur
175	Shipra	ECE	BIT Mesra off campus Patna
176	Sanjay Annu Pujari	Electronics and Communications	KLECET CHIKODI
177	Praghya Mehrotra	Computer Engineering & Applications	Gla University
178	Prashant Mathur	Electronics & Communication Engineering	Amity University Rajasthan, Jaipur
179	U. PALANI	ECE	IFET College of Engineering, Villupuram
180	Dr. G. Amuthavalli	ECE	Sri Venkateshwaraa College of Engineering & Technology
181	Barkha Jain	Computer science	Swami Keshvanand Institute of Technology Management and Gramothan
182	Sonam Gour	Electronic and Communication Engineering	Poornima College of Engineering Jaipur
183	Shikha Shrivastava	Information technology	SKIT, Jagatpura
184	LAKSHAMENDRA KUMAR JANGID	COMPUTER SCIENCE AND ENGINEERING	STANI MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY PHAGI JAIPUR
185	Mohammad Firdos Sheikh	Computer Science Engineering	Poornima University, Jaipur
186	Brijraj Singh Solanki	Computer Engineering	Poornima College of Engineering
187	Deepali Chaudhary	Faculty of computer science Department	Poornima University
188	Prarthana Sharma	Computer science and engineering	Poornima University
189	AMIT SHARMA	ECE	ACEIT
190	Shubham Patel	Computer Engineering	Poornima College of Engineering
191	Vinay Agrawal	Computer Engineering and Applications	GLA University , Mathura
192	Ramesh Bharti	E&T	JAGANNATH UNIVERSITY, JAIPUR
193	Shivangi Khandelwal	CSE	Poornima Institute of Engineering and Technology
194	Imran Mirza	Computer Science Engineering	Poornima University
195	Ashish Pant	CSE	Swami Keshvanand Institute of Technology Management & Gramothan,

			Jaipur
196	Ritika	IT	GLBITM
197	Nagendra Kumar	EEE	GL Bajaj Institute of Technology and Management, Greater Noida
198	Jyoti Thakur	Information Technology	G.L Bajaj Institute of Technology & Management
199	Arun Kumar Takuli	IT	G.L. Bajaj Institute of Technology and Management
200	Priyanka Datta	Electrical and Electronics Engineering	G L Bajaj Institute of Technology and Management, Greater Noida, U.P.
201	SANGITA WATEGAONKAR	ELECTRONICS AND COMMUNICATION ENGINEERING	KLE COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKODI
202	Abhishek Parashar	Computer science engineering	Poornima college of engineering
203	M.L. RAVI CHANDRA	ECE	Srinivasa Ramanujan Institute of Technology
204	D MARUTHI KUMAR	Electronics and communication engineering	Srinivasa Ramanujan Institute of technology
205	Y Madhusudhana	ECE	Srinivasa Ramanujan Institute of Technology
206	Mohd Aslam Ansari	Electrical Engineering	FET, MJP ROHILKHAND UNIVERSITY BAREILLY
207	Abhijeet Parashar	Faculty of computer engineering	Poornima university
208	Majhrul Israr	EED	Mnnit allahabad
209	Seema chauhan	Electronics and instrumentation engineering	Bundelkhand University, Jhansi Uttar Pradesh
210	Mandli Rami Reddy	ECE	Srinivasa Ramanujan Institute of Technology
211	INDU	Electronics & Communication Engineering	Shri Ram Group of Colleges
212	Vivek Ahlawat	Electrical Engineering	Shri Ram Group of Colleges
213	Meenal Joshi	Computer Science & Engineering	Geetanjali Institute of Technical Studies
214	Manish Sharma	Electronics & Communication Engineering	Indian Institute of Information Technology Kota
215	SONIKA PARASHAR	Management (BBA)	Poornima University
216	Karabi Kalita	Electronics & Communication Engg	Lloyd Institute of Engineering and Technology
217	Kanupriya	Electronics and Communication Engineering	Shri Ram Group of Colleges
218	Shweta Agrawal	Electronic and communications	Shankara institute of technology
219	Rajesh Kanwadia	Electronics and Communications	Shankara Institute of Technology
220	Abha Jain	CS	SKIT, Jaipur
221	Dr. Hemant Kumar Gupta	Electronics and Communication Engineering	Arya College of Engineering and I.T.
222	RAJESH RAJAAN	Computer Science and Engineering	Swami Keshvanand Institute of Technology, Management and Gramothan
223	RAHUL DEV	ELECTRONICS & COMMUNICATION ENGG.	GL BAJAJ INSTITUTE OF TECHNOLOGY & MANAGEMENT, GREATER NOIDA
224	Chhavi Saxena	Computer Science and Engineering	Arya College of Engineering and IT
225	Allamaprabhu	CSE-AIML	Vardhaman College of Engineering Hyderabad
226	MUTHIREDDY P	School of computing and Information Technology	School of Computing and Information Technology, REVA University
227	Nagashetty B Kolar	Computer Science and Engineering	Vardhaman College of Engineering
228	MEGHA J	AIML	M.S. Ramaiah Institute of Technology

229	Rajkumar B Patil	Computer Science and Engineering	Vardhaman College of Engineering Hyderabad
230	Ashish Chauhan	CSE	Shri Ram Group of Colleges
231	Subrahmanya H M	CSE	GCEM
232	M. L. RAVI CHANSRAECE	ECE	Srinivasa Ramanujan Institute of Technology
233	Dr.K.Muthulakshmi	ECE	Sri Krishna College of Technology
234	Dr.P VANAIAKSHI	Information Science and Engineering	Vivekananda Institute of Technology Kumbalagodu Bengaluru
235	SIVAKUMAR VG	ELECTRONICS AND COMMUNICATION ENGINEERING	VIDYAJYOTHI INSTITUTE OF TECHNOLOGY
236	S. THULASI PRASAD	ECE	Vidya Jyothi Institute of Technology (Autonomous)
237	Rajeshwari Kisan	Cse	SGBIT
238	Kangana WM	Cse	Sgbit
239	DHARANESHKUMAR M L	Computer Science and Engineering	Channabasaveshwara Institute of Technology, Gubbi
240	Shaziya Nusrath SK	ISE	Sri Siddhartha Institute of Technology, SSAHE University
241	MARIA NAVIN J R	Information Science and Engineering	Sri Venkateshwara College of Engineering, Bangalore
242	Shivanand M Patil	Computer Science and Engineering	S G Balekundri Institute of Technology
243	NAGESWARARAO MALISETTI	ECE	DVR & Dr. HS MIC College of Technology
244	Nagaraj M. Lutimath	Computer Science and Engineering	Dayananda Sagar Academy of Technology and Management
245	Raghvendra Tiwari	Electrical Engineering	G H Raisoni Institute of engineering and technology
246	SHUAIB AKHTAR	ELECTRONICS & COMMUNICATION ENGINEERING	DUMKA ENGINEERING COLLEGE
247	Ratna Kumari	Electronic and communication engineering	Dumka engineering college dumka
248	Rajat Bhardwaj	CSE,ASET	Amity University Bengaluru
249	Gyanendra Tiwary	CSE	R V University, Bangalore

ATTENDANCE SHEET:-

S. No.	Name of Participant	DAY I Session I	DAY II Session I	DAY II Session II	DAY II Session III	DAY III Session I	DAY III Session II	DAY III Session III	DAY IV Session I	DAY IV Session II	DAY V Session I	DAY V Session II
1	Vineet Sharma	P	P	P	P	P	P	P	P	P	P	P
2	Sonam Gour	P	P	P	P	P	P	P	P	P	P	P
3	MUKESH CHAND	P	P	P	P	P	P	P	P	P	P	P
4	NEHA MAHALA	P	P	P	P	P	P	P	P	P	P	P
5	ANJULI DUBEY	P	P	P	P	P	P	P	P	P	P	P
6	Basudha	P	P	P	P	P	P	P	P	P	P	P
7	POOJA RANI	P	P	P	P	P	P	P	P	P	P	P
8	Sharbari Deb	P	P	P	P	P	P	P	A	P	P	P
9	GM	P	P	P	P	P	P	P	P	P	P	P
10	ASHWINI	P	P	P	P	P	P	P	P	P	P	P

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	KUMAR											
11	Pankaj Bairwa	P	P	P	P	A	P	P	P	P	P	P
12	Tarun Mishra	A	P	P	P	P	P	P	P	P	P	P
13	UMESH KUMAR SHARMA	P	P	P	P	P	P	P	P	P	P	P
14	MADHAV SHARMA	P	P	P	P	P	P	P	A	P	P	P
15	Kashifa Khan	P	P	P	P	P	P	P	P	P	P	P
16	Vishal Jain	P	P	P	P	P	P	P	P	P	P	P
17	ABHISHEK SHARMA	P	P	P	P	P	P	P	P	P	P	P
18	Pramod Sharma	P	P	P	P	P	P	P	P	P	P	P
19	SANDEEP VYAS	P	P	P	P	P	P	P	P	P	P	P
20	Meenakshi Nawal	P	P	P	P	P	A	P	P	P	P	P
21	Mithlesh Arya	P	P	P	P	P	P	P	P	P	P	P
22	Hemlata Panwar	P	P	P	P	P	P	P	P	P	P	P
23	VIVEK BHOJAK	P	P	P	P	P	P	P	P	P	P	P
24	Shikha Shrivastava	P	P	P	P	P	P	P	P	P	P	P
25	Harpreet Singh Gill	P	P	P	P	P	P	P	P	P	P	P
26	Dolly Mittal	P	P	P	P	P	P	A	P	P	P	P
27	Archika Jain	P	P	P	P	P	P	P	P	P	P	P
28	Rekha Rani Agarwal	P	P	P	P	P	P	P	P	P	P	P
29	Ritu Shukla	A	P	P	P	P	P	P	P	P	P	P
30	Pankaj Dadheech	P	P	P	P	P	P	P	P	P	P	P
31	Nikhil Bhatnagar	P	P	P	P	P	P	P	P	A	P	P
32	Megha Gupta	P	P	P	P	P	P	P	P	P	P	P
33	Naveen Jain	P	P	P	P	P	P	P	P	P	P	P
34	Amrita Rai	P	P	P	P	P	P	P	P	P	P	P
35	Dr Himani Goyal Sharma	P	P	P	P	P	P	P	P	P	P	P
36	Amit Kumar Jain	P	P	P	P	P	P	P	P	P	P	P
37	ASHA SAFANA M	P	P	P	P	P	P	P	P	P	P	P
38	Ankita mishra	P	P	P	P	P	P	P	P	P	P	P
39	Neha Mathur	P	P	P	P	P	A	P	P	P	P	P
40	Harendra Singh	P	P	P	P	P	P	P	P	P	P	P
41	Snehanshu Shekhar	P	P	P	P	P	P	P	P	P	P	P
42	Pankaj Jain	P	P	P	P	P	P	P	P	P	P	P
43	Gaurav Kapoor	A	P	A	P	P	P	P	P	P	P	P

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44	Krishan Kumar Soni	P	P	P	P	P	P	P	P	P	P	P
45	Mukesh Chaudhary	P	P	P	P	P	P	P	P	P	P	P
46	MANISH BHARDWAJ	P	P	P	P	P	P	P	P	P	P	P
47	Neelabh Gupta	P	P	P	P	P	P	P	P	P	P	P
48	Mahender Kumar Beniwal	P	P	P	P	P	P	P	P	P	P	P
49	Manoj Raman	P	P	P	P	P	P	P	P	P	P	P
50	Ritesh Chhabra	P	P	P	P	P	A	P	P	P	P	P
51	SUMIT KUMAR	P	P	P	P	P	P	P	P	P	P	P
52	Aisha Rafi	P	P	P	P	P	P	P	P	P	P	P
53	Sanwta Ram Dogiwal	P	P	P	P	P	P	P	P	P	P	P
54	Anjana Sangwan	P	P	P	P	P	P	P	P	P	P	P
55	Ravi Kant Prasad	P	P	P	P	P	P	P	P	P	P	P
56	Richa Sharma	P	P	P	P	P	P	P	P	P	P	P
57	Sunil Dhankhar	P	P	P	P	P	P	P	P	P	P	P
58	CHINA RAMU SAMPATHIR AO	P	P	P	P	P	P	P	P	P	P	P
59	KAMESH M	P	P	P	A	P	P	P	P	A	P	P
60	Govindaraj V	P	P	P	P	P	P	P	P	P	P	P
61	DIVYA ROHATGI	P	P	P	P	P	P	P	P	P	P	P
62	C.N.Ravi	P	P	P	P	P	P	P	P	P	P	P
63	Shuchi Dave	P	P	P	P	P	P	P	P	P	P	P
64	M.Moorthi	P	P	P	P	P	P	P	P	P	P	P
65	Geeta Tiwari	P	P	P	P	P	P	P	P	P	P	P
66	Pawan Kumar Patidar	P	P	P	P	P	P	P	P	P	P	P
67	JEBA NEGA CHELTHA	P	P	P	P	P	P	P	P	P	P	P
68	Deependra Khandelwal	P	P	P	P	P	P	P	P	P	P	P
69	Sunita Gupta	P	P	P	P	P	P	P	P	P	P	P
70	Sunita Gupta	P	P	P	P	P	P	P	P	P	P	P
71	M Vadivel	P	P	P	P	P	P	P	P	P	P	P
72	CHINA RAMU SAMPATHIR AO	P	P	P	P	P	P	P	P	P	P	P
73	G. RAMASUBB A REDDY	P	P	P	P	P	P	P	P	P	P	P
74	Richa Rawal	P	P	P	P	P	P	P	P	P	P	P
75	Vempati Srinivasa	P	P	P	P	P	P	P	P	P	P	P

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	Rao											
76	Sanju Choudhary	P	P	P	P	P	P	P	P	P	P	P
77	GUDUPUDI RAVIKUMAR	P	P	P	P	P	P	P	P	P	P	P
78	DHARAVAT H RAJEEV NAIK	P	A	P	P	P	P	P	P	P	P	P
79	VALAPARLA DAVID	P	P	P	P	P	P	P	P	P	P	P
80	Allisa Goyal	P	P	P	P	P	P	P	P	P	P	P
81	NITHYA S	P	P	P	P	P	P	P	P	P	P	P
82	Ganesan P	P	P	P	P	P	P	P	P	P	P	P
83	Reena Sharma	P	P	P	P	P	A	P	P	P	P	P
84	P Ranjith kumar	P	P	P	P	P	P	P	P	P	P	P
85	M BASHA	P	P	P	P	P	P	P	P	P	P	P
86	Loveleen Kumar	P	P	P	P	P	P	P	P	P	P	P
87	Ruqaiya Khanam	P	P	P	P	P	P	P	P	P	P	P
88	P.S.PERIAS AMY	P	P	P	P	P	P	P	P	P	P	P
89	ABHISHEK SINGH RAJAWAT	P	P	P	P	P	P	P	P	A	P	P
90	Shirish Nagar	P	P	P	P	P	P	P	P	P	P	P
91	Ruchi Dave	P	P	P	P	P	P	P	P	P	P	P
92	Chandraveer Singh	P	P	P	P	P	P	P	P	P	P	P
93	ATUL SHARMA	P	P	P	P	P	P	P	P	P	P	P
94	Dinesh Kumar T	P	P	P	P	P	P	P	P	P	P	P
95	D. JEYAMANI LATHA	P	P	P	P	P	P	P	P	P	P	P
96	Dr.M.A.ARC HANA	P	P	P	P	P	P	P	P	P	P	P
97	SAMBA SIVA REDDY MULA	P	P	P	P	P	P	P	P	P	P	P
98	Dheeraj Singh	P	P	P	P	P	P	P	P	P	P	P
99	Shiwangi Sharma	P	P	P	P	P	P	P	P	P	P	P
100	RAJASEKARAN.A	A	P	P	P	P	P	P	P	P	P	P
101	Tamilselvan	P	P	P	P	P	P	P	P	P	P	P
102	R. THALAPATHI RAJASEKARAN	P	P	P	P	P	P	P	P	P	P	P
103	E Anbalagan	P	P	P	P	P	P	P	P	P	P	P


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104	Pawan Gupta	P	P	P	P	P	P	P	P	P	P	P
105	PRAVIN SONWANE	P	P	P	P	P	P	P	P	P	P	P
106	RAJASEKAR AN.A	P	P	P	P	P	P	P	P	P	P	P
107	Suresh Kumar Lohar	P	P	P	P	P	P	P	P	P	P	P
108	Rajshree Pareek	P	P	A	P	P	P	P	P	P	P	P
109	Monika Gupta	P	P	P	P	A	P	P	P	P	P	P
110	Hemant Kaushik	P	P	P	P	P	P	P	P	P	P	P
111	Shipra	P	P	P	P	P	P	P	P	P	P	P
112	Sanjay Annu Pujari	P	P	P	P	P	P	P	P	P	P	P
113	Praghya Mehrotra	P	A	P	P	P	P	P	P	P	P	P
114	Prashant Mathur	P	P	P	P	P	P	P	P	P	P	P
115	U. PALANI	P	P	P	P	P	P	P	P	P	P	P
116	Dr. G. Amuthavalli	P	P	P	P	P	P	P	P	P	P	P
117	Barkha Jain	P	P	P	P	P	P	P	P	P	P	P
118	Sonam Gour	A	P	P	P	P	P	A	P	P	P	P
119	Shikha Shrivastava	P	P	P	P	P	P	P	P	P	P	P
120	LAKSHAME NDRA KUMAR JANGID	P	P	P	P	P	P	P	P	P	P	P
121	Mohammad Firdos Sheikh	P	P	P	P	P	P	P	P	P	P	P
122	Brijraj Singh Solanki	P	P	P	P	P	P	P	P	P	P	P
123	Deepali Chaudhary	P	P	P	P	P	P	P	P	P	P	P
124	Prarthana Sharma	P	P	P	P	P	P	P	P	P	P	P
125	AMIT SHARMA	P	P	P	P	P	P	P	P	P	P	P
126	Shubham Patel	P	P	P	P	P	P	P	P	P	P	P
127	Vinay Agrawal	P	P	P	P	P	P	P	P	P	P	P
128	Ramesh Bharti	P	P	P	P	P	P	P	P	P	P	P
129	Shivangi Khandelwal	P	P	P	P	P	A	P	P	P	P	P
130	Imran Mirza	P	A	P	P	P	P	P	P	P	P	P
131	Ashish Pant	P	P	P	P	P	P	P	P	P	P	P
132	Ritika	P	P	P	P	P	P	P	P	P	P	P

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133	Nagendra Kumar	P	A	P	P	P	P	P	P	P	P	P
134	Jyoti Thakur	P	P	P	P	P	P	P	P	P	P	P
135	Arun Kumar Takuli	P	P	P	P	P	P	P	P	P	P	P
136	Priyanka Datta	P	P	P	P	P	P	P	P	P	P	P
137	SANGITA WATEGAON KAR	P	P	A	P	P	P	P	P	P	P	P
138	Abhishek Parashar	P	P	P	P	P	P	P	P	P	P	P
139	M.L. RAVI CHANDRA	P	P	P	P	P	P	P	P	P	P	P
140	D MARUTHI KUMAR	P	P	P	P	P	P	P	P	P	P	P
141	Y Madhusudhana	P	P	P	P	P	P	P	P	P	P	P
142	Mohd Aslam Ansari	A	P	P	P	P	P	P	P	P	P	P
143	Abhijeet Parashar	P	P	P	P	P	P	P	P	P	P	P
144	Majhrul Israr	P	P	P	P	P	P	P	P	P	P	P
145	Shweta Agrawal	P	P	P	P	P	P	P	A	P	P	P
146	Rajesh Kanwadia	P	A	P	P	P	P	P	P	P	P	P
147	Abha Jain	P	P	P	P	P	P	P	P	P	P	P
148	Dr. Hemant Kumar Gupta	P	P	P	P	P	P	P	P	P	P	P
149	RAJESH RAJAAN	P	P	P	P	P	A	P	P	P	P	P
150	RAHUL DEV	P	P	P	P	P	P	P	P	P	P	P
151	Chhavi Saxena	P	P	P	P	P	P	P	P	P	P	P
152	Allamaprabhu	P	P	P	P	P	P	P	P	P	P	P
153	MUTHIREDDY P	P	P	P	P	P	P	P	P	P	P	P
154	Kangana WM	P	P	P	P	P	P	P	P	P	P	P
155	DHARANES HKUMAR ML	P	P	P	P	P	P	P	P	P	P	P
156	Shaziya Nusrath SK	P	P	P	P	P	A	P	P	P	P	P
157	MARIA NAVIN J R	P	P	P	P	P	P	P	P	P	P	P
158	Shivanand M Patil	P	P	P	P	P	P	P	P	P	P	P
159	NAGESWAR ARAO MALISETTI	P	P	A	P	P	P	P	P	P	P	P
160	Nagaraj M. Lutimath	P	P	P	P	P	P	P	P	P	P	P
161	Raghvendra	P	A	P	P	P	P	P	P	P	P	P

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1	Tiwari											
16	SHUAIB	A	P	P	P	P	P	P	P	P	P	P
2	AKHTAR											
16	Ratna	P	P	P	P	P	P	P	A	P	P	P
3	Kumari											
16	Rajat	P	P	P	P	P	P	P	P	P	P	P
4	Bhardwaj											
16	Gyanendra	P	P	P	P	P	P	P	P	P	P	P
5	Tiwary											


Dr. Garima Mathur
Head, ECE

Feedback Form

2/6/24, 8:41 AM

Feedback form for Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on Jan 8-12, 2024

Feedback form for Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on Jan 8-12, 2024

Dear Participant,

Thank you for participating in this STTP. We are committed to continually improving our events and would appreciate your feedback. Please take a few moments to complete this evaluation survey. Your responses will be kept confidential and will help us to better understand your experience and make improvements for future events.

* Indicates required question

1. Email *

2. Name of the Participant *

https://docs.google.com/forms/d/1j_m_Sp8fTpg28hjLQWq7JPCwCYPr8naL3tgPH-ZgMMedl

1/6

2/6/24, 8:41 AM

Feedback form for Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on Jan 8-12, 2024

3. Name of the Institute/Organization *

4. E-Mail ID *

5. Was the content of the sessions relevant to your professional development needs? *

Mark only one oval.

- ☐ Strongly Agree
☐ Agree
☐ Neutral
☐ Disagree
☐ Strongly Disagree

https://docs.google.com/forms/d/1jm_5Pv8FTpg2R9Hj.QWq7.JPQeCYPr8aL3tqPN-ZgMM/edit

2/6

2/6/24, 8:41 AM

Feedback form for Five Days Short Term Training Programme (STTP) On "Recent Trends in Communication, Computing & Networking" Scheduled on Jan 8-12, 2024

6. How would you rate the quality of the speakers presentations? *

Mark only one oval.

- ☐ Excellent
☐ Good
☐ Average
☐ Poor
☐ Very Poor

7. How satisfied were you with the level of interaction and engagement in the sessions? *

Mark only one oval.

- ☐ Extremely satisfied
☐ Satisfied
☐ Neutral
☐ Dissatisfied
☐ Extremely Dissatisfied

https://docs.google.com/forms/d/1jm_5Pv8FTpg2R9Hj.QWq7.JPQeCYPr8aL3tqPN-ZgMM/edit

3/6

2/6/24, 9:41 AM

Feedback form for Five Days Short Term Training Programme (STTP) On "Recent Trends In Communication, Computing & Networking" Scheduled on Jan 5-12, 2024

8. How would you rate your overall experience? *

Mark only one oval.

- ☐ Extremely satisfied
☐ Satisfied
☐ Neutral
☐ Dissatisfied
☐ Extremely Dissatisfied

9. Mention Key Learning from the sessions, *

10. Any other suggestion: *

https://docs.google.com/forms/d/1jm_SPh8Tpg29Hj_QWq7JPCwCYFm8raL3tqPN-ZgMM/edit

4/6

Media Coverage

कम्युनिकेशन, कंप्यूटिंग व नेटवर्किंग से अपडेट हो रहे स्टूडेंट्स

ब्यूरो/नवज्योति, जयपुर। पूर्णिमा कॉलेज ऑफ इंजीनियरिंग (नैक ए प्लस) की ओर से रीसेंट ट्रेंड्स इन कम्युनिकेशन, कंप्यूटिंग एंड नेटवर्किंग विषय पर शॉर्ट टर्म ट्रेनिंग प्रोग्राम किया जा रहा है। इसमें देश के विभिन्न



कॉलेजों व यूनिवर्सिटीज के 200 से अधिक प्रतिभागी शामिल हुए हैं। केंद्र सरकार के संचार मंत्रालय के वरिष्ठ उप वायरलेस सलाहकार भागीरथ सिंह इसके उद्घाटन समारोह के मुख्य अतिथि थे। इस अवसर पर पूर्णिमा ग्रुप के डायरेक्टर राहुल सिंघी, मेजबान पीसीई के डायरेक्टर डॉ. महेश बुंदले, वाइस प्रिंसिपल डॉ. पंकज धेमला, ईसीई डिपार्टमेंट की एचओडी डॉ. गरिमा माथुर और एसटीटीपी के को-ऑर्डिनेटर डॉ. मीतू नाग और डॉ. नितेश मुद्गल भी उपस्थित रहे। एक सप्ताह के इस प्रोग्राम में प्रतिभागियों को कम्युनिकेशन, कंप्यूटिंग और नेटवर्किंग में लेटेस्ट ट्रेंड्स की जानकारी दी जा रही है।


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कम्यूनिकेशन, कम्प्यूटिंग व नेटवर्किंग के लेटेस्ट ट्रेंड्स से अपडेट हो रहे हैं प्रतिभागी



जयपुर। पूर्णिमा कॉलेज ऑफ इंजीनियरिंग की ओर से 'रीसेंट ट्रेंड्स इन कम्यूनिकेशन कम्प्यूटिंग एंड नेटवर्किंग' विषय पर शॉर्ट टर्म ट्रेनिंग प्रोग्राम का आयोजन किया जा रहा है। वर्चुअली आयोजित प्रोग्राम में देश के विभिन्न कॉलेजों व यूनिवर्सिटीज के 200 प्रतिभागी शामिल हुए। भारत सरकार के संचार मंत्रालय के वरिष्ठ उपवायरलेस सलाहकार भागीरथ सिंह उद्घाटन समारोह के मुख्य अतिथि थे। प्रोग्राम में प्रतिभागियों को कम्यूनिकेशन, कम्प्यूटिंग और नेटवर्किंग में लेटेस्ट ट्रेंड्स की जानकारी दी जा रही है। प्रोग्राम न सिर्फ प्रतिभागियों के नॉलेज में बढ़ोतरी करेगा, बल्कि उन्हें तकनीकी नवाचारों के लिए भी सक्षम बनाएगा। पूर्णिमा ग्रुप के डायरेक्टर राहुल सिंघी समेत अन्य पदाधिकारियों ने इसमें हिस्सा लिया।


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