

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

Report on 6-days Short Term Training Program

- TITLE AND DURATION: "Artificial Intelligence & 5G Communication Technology" from October 26-31, 2020.
- **SPONSORS:** AICTE Quality Improvement Scheme (AQIS)
- **SUPPORTERS:** Nil.
- ORGANIZERS: Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.
- **OBJECTIVES:** The objective of general AI is to design a system capable of thinking for itself just like humans do. Currently, general AI is still under research, and efforts are being made to develop machines that have enhanced cognitive capabilities.

EXPECTED OUTCOMES:

- 1. Evaluate the advantages, disadvantages, challenges, and ramifications of human–AI augmentation.
- Design and develop symbiotic human—AI systems that balance the information processing power of computational systems with human intelligence and decision making.
- 3. Explain the benefits, limitations, and tradeoffs of designing engaging and ethical conversational user interactions, including those supported by chat bots, smart speakers, and other AI-driven, voice-based technologies.
- 4. Design and evaluate conversational interfaces for different users and contexts of use.

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
131-0, Fulco Institutional Area

BROCHURE / POSTER / LEAFLET / FLYER:



Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Peornima College of Engineering
ISI-6, RIICO Institutional Area
Silapura, JAIPUR

SPEAKERS

Prof. R. Gangopadhyay Research Professor, LNMIT, Jaipur

Dr. Priti Srinivas Sajja Professor, Sardar Patel University Vallabh Vidyanagar Gujarat

Dr. Sanjay Singh Principal Scientist, CEERI Pilani

Dr. Preetam Kuma Associate Professor, IIT, Patna

Dr. Jagdish Chand Bansal or, South Asian University, New Delhi

Dr. Surbhi Sharama

Associate Professor, Thapar Institute of Engineering & Technology

Dr. Himanshu B. Mishra

Assistant Professor, IIT Dhanbad

Dr. Neelakandan Rajamohan Assistant Professor, IIT Goa

Dr Manisha Bharti Assistant Professor, NIT Delhi

Dr. Navin Kumar Associate Professor, Amrita Vishwa Vidyapeetham, Bengaluru.

Dr. Swaminathan Ramabadran Assistant Professor, IIT Indore

Dr. Amit Rathi

Associate Professor (Senior Scale), Manipal University, Jaipur

Dr. Prabhat Kumar Sharma Assistant Professor, VNIT, Nagpur

Javad Baig D

Embedded Engineer, EdGate Technologies Pvt Ltd |, Bangalore

Jeevaprasath A
Embedded System Engineer, EdGate Technologies Pvt Ltd |, Bangalore

Mr, Puneet Mathu

ALCONSULTANT, Bengaluru, Karnataka, India

REGISTRATION AND FEE PARTICULARS

- search Scholars from Universities/ AICTE re
- No Registration Fees
- Last Date of Registration: October 23, 2020
- . E-Certificates will be provided after successful completion of STTP
- Registration Link: http://tiny.cc/aict2

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in institutes.

IMPORTANT DATES

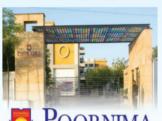
Last date for Registration October 23, 2020 Intimation of selection by mail October 24, 2020 October 26-31, 2020 STTP Duration

CORRESPONDENCE

Dr. Garima Mathur

Head, Department Electronics & Communication Engineering. Poornima College of Engineering, Jaipur ©:+91-9829393517

□ : drg.mathur@poornima.org



COLLEGE OF ENGINEERING ISI-6, RIICO Institutional Area, Sitapura, Jaipur www.pce.poornima.org





Organized by Department of

Electronics & Communication Engineering



POORNIMA COLLEGE OF ENGINEERING

Poornima College of Engineering (PCE), established as a brand of Technical Education in the year 2000, has its own glorious legacy of leading the young engineers to the mammoth sky of success. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. PCE left no stone unturned since its establishment in turning the glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional

- prospects. Glorious glimpses of PCE:
 Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE. EE. ME. IT. CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

 • An excellent institution building its rapport in all sectors of
- education, research and development

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in year 2003. National Board of Accre (NBA) accredited the ECE department in the year 2009, 2016 & 2018 for subsequent three years. It has intake capacity of 180. It also offers M. tech in VLSI Design with intake capacity of 18 students. The department has highly qualified committed and research oriented faculty members. The department has laboratories as per Rajasthan Technical University Syllabus with State-of-the-Art facilities in diversified fields such as Electronic Circuits, VLSI Design, DSP (Digital signal processing), Embedded Systems, Advanced Wireless ication and Microwave etc. Research is being carried out in the areas of Antenna Design and Wireless Communication, and VLSI design. The department also has to his credit three labs, (i) Microwave Engineering lab & (ii) Advance Antenna & Wireless Communication lab (iii) Advancement of Wireless and Optical Fiber Lab supported by MODROBS Grants of AICTE, New Delhi.

IETE Student Forum (IFS) of the Department has been recognized as Most Active ISF for session 2016-17 by IETE Rajasthan Center, Jaipur. The department also has state of the art lab facility for the value added IBM Career Education Programs for faculty members and students on emerging technologies such as IBM BlueMix for Cloud, IBM Cognos for Business Intelligence and IoT Application ment & Deployment using IBM BlueMix.

ABOUT STTP

The aim of this STTP is to enhance the AI research also overlaps with tasks such as robotics, control systems, scheduling, data mining, logistics, speech recognition, facial recognition and many others Upgrading the new era in 5G to handle data from millions more IoT devices and install low-power sensors. 5G is not only important because it has the potential to support millions of devices at ultrafast speeds, but also because it has the potential to transform the lives of people around the world. Improvements in 5G technology can help make life better.

Course Modules

- Recent Trends in Cognitive Radio Commi
- 5G New Radio : Understanding IMT 2020 Radio Interface
- . 5G Communications : Specifications, Use cases, and PHY layer techniques
- A Survey of 5G Communication: Emerging Technologies & Future Aspects
- · Novel Modulation Scheme for the Next Generation of Wireless Communications
- 5G, MSA and Optimization of MSA Using PARTICLE Swarm Optimization Operational Research Method
- Signal Processing in 5G mmWave Massive MIMO
- · Metaheuristic based Artificial Intelligence for the Deployment of 5G
- · Introduction to Python Programming
- · Development of Real-time Intelligent Systems for Various Computer Vision Applications
- · Artificial Intelligence and Machine Learning Applications on Post COVID Era
- · Introduction to Machine Learning Model
- . Wireless Communication systems for 5G or beyond . Building IOT applications using Machine Learning
- · Computational Intelligence Vs Artificial Intelligence
- · Reliable communication in UWB Body Area Network
- Enabling Techniques for 5G The New Radio
- · 5G: Challenges and Enabling Technologies

OBJECTIVES OF STTP

- To provide an exposure to the participants regarding curren scenario in advanced communication technologies & their
- . To provide the knowledge of cutting edge researches and developments carried out/observed by the Eminent Speakers in advance communication domains (from IITs, NIITs, other Esteemed Institutions & Industry), for products having immediate industrial applications for self-reliance of the Country

PATRON

Dr. Mahesh Bundele

rincipal & Director Poornima College of Engineering, Jaipur

ADVISORS

Mr. Pankai Dhemi

Vice Principal, Poo lege of Engineering, Jaipur

Dr. Rekha Nair

Dean, First Year, Poornima College of Engineering, Jaipur

Mr. Devendra Somwanshi

Registrar, Poornima College of Engineering, Jaipur CONVENOR

Dr. Garima Mathur Head of Department ECE, Poornima College of Engineering

COORDINATORS

Dr. Payal Bansal ECE, PCE

Mr. Tarun Mishra ECE, PCE

CO-COORDINATOR

Mr. Jitendra Gupta Assistant Professor, ECE, PCE

PCE ORGANIZING COMMITTEE

Dr. Anila Dingra Associate Professor, ECE Mr. Amit Kumar Jain Assistant Professor, ECE Mr. Durgesh Kumar Mr. Manish Sharma Assistant Professor, ECE Assistant Professor, ECE Ms. Manisha Kumawat Assistant Professor, ECE

> Dr. Mahesh Bundele B.E., M.E., Ph.D. Director cornima College of Engineering 131-6, Fill CO Institutional Area Stapura, JAIPUR

PROGRAM SCHEDULE:



Department of Electronics & Communication Engineering

Second AICTE-AQIS Sponsored Short Term Training Program (STTP) on Artificial Intelligence and 5G Communication Technology from October 26-31, 2020

	9:30 AM	10:00AM -11:30 AM	11:45 AM 01:15 PM	02:00 PM 03:30 PM
Monday (26.10.20)	Inaugural Session Chief Guest: Dr. Vimal Bhatiya, Professor, IIT Indore	Recent Trends in Cognitive Radio Communications Dr. Vimal Bhatiya, Professor, IIT Indore	5G New Radio: Understanding IMT 2020 Radio Interface Technology Dr. Navin Kumar, Associate Professor, Amrita Vishwa Vidyapeetham, Bengaluru.	5G Communications: Specifications, Use cases, and PHY layer techniques Dr. Swaminathan Ramabadran, Assistant Professor, IIT Indore
Tuesday (27.10.20)		A Survey of 5G Communication: Emerging Technologies & Future Aspects Dr. Manisha Bharti, Assistant Professor, NIT Delhi	Novel Modulation Scheme for the Next Generation of Wireless Communications Dr. Himanshu B. Mishra, Assistant Professor, IIT Dhanbad	5G, MSA and Optimization of MSA Using PARTICLE Swarm Optimization Operational Research Method Dr. Amit Rathi, Associate Professor (Senion Scale), Manipal University, Jaipur
Wednesday (28.10.20)		Signal Processing in 5G mmWave Massive MIMO Dr. Neelakandan Rajamohan, Assistant Professor, IIT Goa	Metaheuristic based Artificial Intelligence for the Deployment of 5G Dr. Surbhi Sharma, Associate Professor, Thapar Institute of Engineering & Technology	Introduction to Python Programming Javad Baig D, Embedded Engineer, EdGate Technologies Pvt. Ltd, Bangalore
Thursday (29.10.20)		Development of Real-time Intelligent Systems for Various Computer Vision Applications Dr. Sanjay Singh, Principal Scientist, CEERI Pilani	Artificial Intelligence and Machine Learning Applications on Post COVID Era Dr. Priti Srinivas Sajja, Professor, Sardar Patel University, Vallabh Vidyanagar, Gujarat	Introduction to Machine Learning Model Jeevaprasath, Embedded System Engineer, EdGate Technologies Pvt Ltd, Bangalore
Friday (30.10.20)		Wireless Communication systems for 5G or Beyond Dr. Prabhat Kumar Sharma, Assistant Professor, VNIT, Nagpur	Building IOT Applications Using Machine Learning Mr. Puneet Mathur, Al Consultant, Bengaluru, Karnataka	Computational Intelligence Vs Artificial Intelligence Dr. Jagdish Chand Bansal, Associate Professor, South Asian University, New Delhi
Saturday (10.10.20)		Reliable communication in UWB Body Area Network Dr. Sushmita Das, Dean(FW), Professor, NIT. Rourkela	Enabling Techniques for 5G - The New Radio Prof. R. Gangopadhyay, Research Professor, LNMIT, Jaipur	5G: Challenges and Enabling Technologie Dr. Preetam Kumar, Associate Professor, IIT, Patna

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INAUGURAL SESSION:



SHORT TERM TRAINING PROGRAM



Artificial Intelligence & 5G Communication Technology October 26 -31, 2020

Sponsored by AICTE Quality Improvement Scheme (AQIS) Organized by Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur

Date: October 26, 2020 Time: 09:30 - 10:05 AM

Venue: Online (https://meet.google.com/eaf-ufri-utt)

Q- Sheet Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of STTP by Dr. Garima Mathur, Head & Professor ECE, PCE	03 Min	09:30 am-09:33 am
	Dr. Vimal Bhatia, Professor, IIT Indore (Chief Guest)		
	S Uday Kiran Reddy, IES, INMMS, Joint Controller of Procurement (Naval stores), Kochi (Guest of Honour)		
	 Ar. Rahul Singhi, Director, Poornima Group 		
	Dr. Mahesh Bundele, Director & Principal, PCE, Initial Principal Initial Principal		
	Jaipur Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur		
2.	Welcome address by Dr. Mahesh Bundele , Director & Principal, PCE, Jaipur	05 Min	09:33 am-09:38 am
3.	Motivational Words by Ar. Rahul Singhi, Director, Poornima Group	05 Min	09:38 am- 09:43 am
4.	Welcome Address by Guest of Honour S Uday Kiran Reddy, IES, INMMS, Joint Controller of Procurement (Naval stores), Kochi	10 Min	09:43 am- 09:53 am
5.	Inaugural Address by Chief Guest Dr. Vimal Bhatia, Professor, IIT Indore	10 Min	09:53 am-10:03 am
6.	Vote of Thanks by Dr. Payal Bansal , Associate Professor, ECE, PCE	02 Min	10:03 am-10:05am

Dr. Mahesh Bundele B.E., M.E., Ph.D. ornima College of Engineering 131-6, RIICO Institutional Area Stapura, JAIPUR

• DETAILS OF RESOURCE PERSONS:



Department of Electronics & Communication Engineering

Second AICTE-AQIS Sponsored Short Term Training Program (STTP) on Artificial Intelligence and 5G Communication Technology from October 26-31, 2020

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Day 1: 26Th October, 2020:

Inaugural session witnessed the presence of Chief Guest Prof, Vimal Bhatia Professor IIT Indore, Guest of honour Mr. S. Uday Kiran Reddy, IES, INMMS, joint director controller of procurement, Kochi ,Dr. Mahesh Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur convenor of STTP & Dr. Payal Bansal Coordinator of STTP, PCE, participants along with the faculty members. The event started with the online inaugural ceremoney in presence of chief guest Prof. Vimal Bhatia Professor IIT Indore, Guest of honour Mr. S. Uday Kiran Reddy, IES, INMMS, joint director controller of procurement, Kochi & Dr. Mahesh Bundele, Director PCE. Dr Garima Mathur addressed the participants about the STTP & Its area of learning and its content. In welcome address Dr. Mahesh M. Bundele, director, PCE, update the participants about the new techniques related to Artificial Intelligence. Dr. Vimal Bhatia addressed the gathering with his knowledgeable words, & then after Mr. Reddy updated the participants about the new technologies to be on work. In last the inaugural session concluded by vote of thanks delivered by Dr. Payal Bansal.

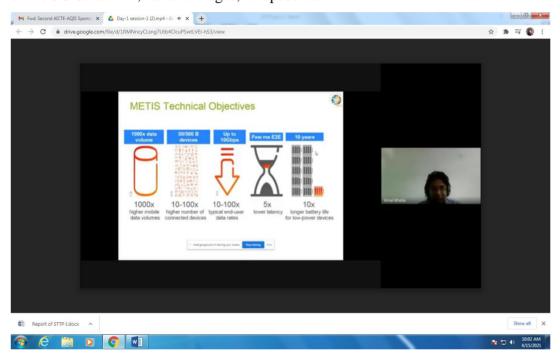
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Topic: Recent Trends in Cognitive Radio Communications

Resource Person: Prof. Vimal Bhatia, IIT Indore

Venue: Online Via Google Meet

Prof. Vimal Bhatia, IIT Indore delivered his talk on **Recent Trends in Cognitive Radio Communications**. He told us about the current radio, its applications etc. He also update about the new unique features bring some new challenges in the design of the new transreceivers with 5G Communication. Also brief about the security aspects of the 5G & its BW, Its advantages, its speed etc.



Expert Talk-2

Topic: 5G New Radio: Understanding IMT 2020 Radio Interface Technology Resource Person: Dr. Navin Kumar, Associate Professor, Amrita Vishwa Vidyapeetham, Bengaluru.

Venue: online

Expert Talk-3

Topic: 5G Communications: Specifications, Use cases, and PHY layer techniques

Resource Person: Dr. Swaminathan Ramabadran, Assistant Professor, IIT

Indore

Venue: online

Expert Talk-4

Topic: A Survey of 5G Communication: Emerging Technologics & Journe

Aspects

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Resource Person: Dr Manisha Bharti, Assistant Professor, NIT Delhi

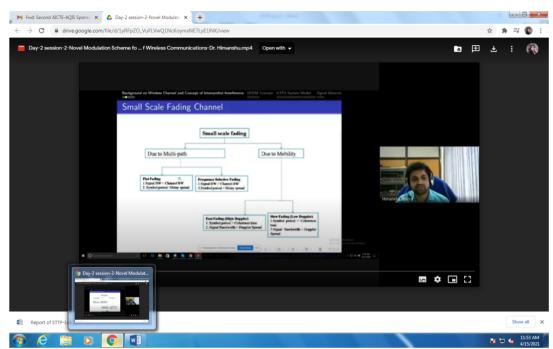
Venue: online

Expert Talk-5

Topic: Novel Modulation Scheme for the Next Generation of Wireless Communications

Resource Person: Dr. Himanshu B. Mishra, Assistant Professor, IIT Dhanbad

Venue: online



Expert Talk-6

Topic: 5G Communications: Specifications, Use cases, and PHY layer techniques

Resource Person: Dr. Amit Rathi , Associate Professor (Senior Scale), Manipal University, Jaipur

Venue: online

Expert Talk-7

Topic: Signal Processing in 5G mmWave Massive MIMO

Resource Person: Dr. Neelakandan Rajamohan, Assistant Professor, IIT Goa

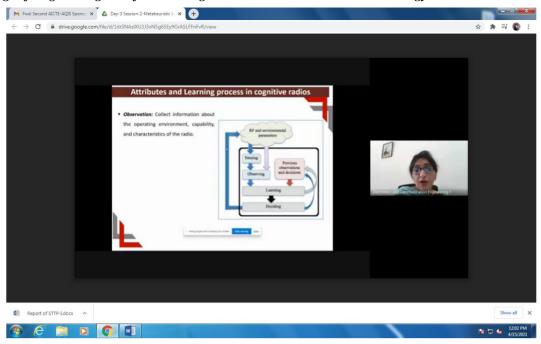
Venue: online

Expert Talk-8

Topic: Metaheuristic based Artificial Intelligence for the Deployment of 5G Resource Person: Dr. Surbhi Sharama, Associate Professor, Thapar Institute of Engineering & Technology

Venue: online

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Topic: Introduction to Python Programming

Resource Person: Javad Baig D, Javad Baig D, EdGate Technologies Pvt Ltd|,

Bangalore

Venue: online

Expert Talk-10

Topic: Development of Real-time Intelligent Systems for Various Computer

Vision Applications

Resource Person: Dr. Sanjay Singh, Principal Scientist, CEERI Pilani

Venue: online



Topic: Artificial Intelligence and Machine Learning Applications on Post COVID Era

Resource Person: Dr. Priti Srinivas Sajja, Professor, Sardar Patel University,

Venue: online

Expert Talk-12

Topic: Introduction to Machine Learning Model

Resource Person: JEEVAPRASATH A, Embedded System Engineer, EdGate

Technologies Pvt. Ltd, Bangalore.

Venue: online

Expert Talk-13

Topic: Wireless Communication systems for 5G or beyond

Resource Person: Dr. Prabhat Kumar Sharma, Assistant Professor, VNIT,

Nagpur.

Venue: online

Expert Talk-14

Topic: BUILDING IOT APPLICATIONS USING MACHINE LEARNING

Resource Person: Dr. Sanjeev Yadav, HOD, Assistant Professor, GWEC,

Ajmer

Venue: online



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

Topic: Computational Intelligence v/s Artificial Intelligence

Resource Person: Dr. Jagdish Chand Bansal, Associate Professor, South Asian

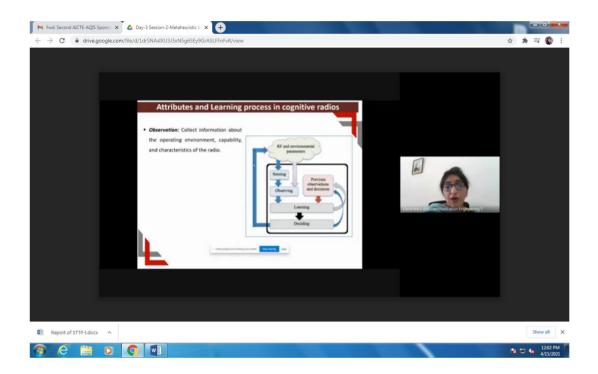
University, New Delhi

Venue: online **Expert Talk-16**

Topic: Reliable communication in UWB Body Area Network

Resource Person: Dr. Sushmita Das, Dean (FW), Professor, NIT, Rourkela

Venue: online



Expert Talk-17

Topic: Enabling Techniques for 5G - The New Radio

Resource Person: Prof. R. Gangopadhyay, Research Professor, LNMIIT,

Jaipur

Venue: online

Expert Talk-18

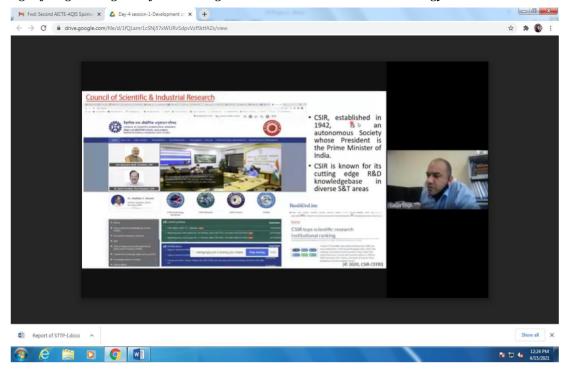
Topic: 5G: Challenges and Enabling Technologies

Resource Person: Dr. Preetam Kumar (Final), Associate Professor, IIT, Patna

Venue: online

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Poornima College of Engineering - Artificial Intelligence & 5G Communication Technology



VALEDICTORY SESSIONS:

After Lunch valedictory session was held. Dr. Preetam Kumar, Associate Professor, IIT Patna. Chief Guest, Dr. Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, Dr. Payal Bansal Coordinator, PCE, participants and faculty members attended the session. It started with the felicitation of Chief Guest Dr. Preetam Kumar, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on worksop was presented by Dr. Payal Bansal, Valuable feedback was taken from the participants. The Certificate of participation was awarded to all the participants who successfully completed the Program. Dr. Mahesh M Bundele congratulated the participants for taking keen interest in learning the new technologies in his address. He also appreciated the organizing team. Dr. Preetam Kumar said that active involvement of most prominent speakers and delegates and their innovative ideas will create a stimulating atmosphere for the further development of multi-disciplinary and convergent research in the area of network security and smart antenna. Dr. Payal Bansal, Associate Professor, ECE Deptt., PCE proposed the Vote of Thanks. At the end of he session a group photograph was taken with the Dignitaries including participants.

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O- Sheet Valedictory Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Refresher Program by Dr. Garima Mathur, Head & Professor ECE, PCE Prof. Vimal Bhatia, IIT Indore, (Chief Guest) Ar. Rahul Singhi, Director, Poornima Group Dr. Mahesh Bundele, Director & Principal, PCE Mr. Pankaj Dhemla, Vice Principal, PCE	05 Min	03:30 PM - 03:35 PM
2.	Welcome address by Dr. Mahesh Bundele, Director & Principal, PCE	05 Min	03:35 PM - 03:40 PM
3.	Motivational Words by Ar. Rahul Singhi, Director, Poornima Group	05 Min	03:40 PM - 03:45 PM
4.	Inaugural Address by Chief Guest Dr. Sudhir Kumar, Assistant Professor IIT Patna	10 Min	03:45 PM - 03:55 PM
5.	Vote of Thanks by Dr. Payal Bansal, Associate Prof., ECE, PCE	05 Min	03:55 PM - 04:00 PM

LIST OF PARTICIPANTS:

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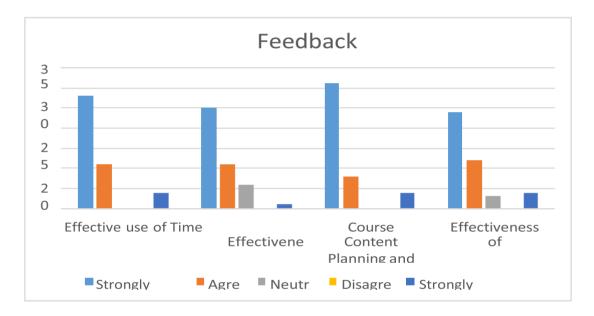
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Virtual feedback and views shared by the participants about the FDP. The FDP has successfully fulfilled the objectives of the FDP set forth. All the participants in their oral feedback has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

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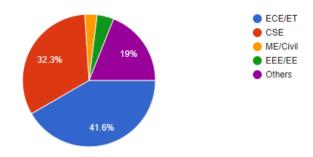
• FEEDBACK ANALYSIS:

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands on Sessions
Strongly Agree	28	25	31	24
Agree	11	11	8	12
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4

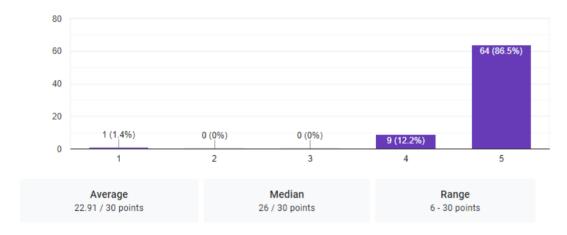


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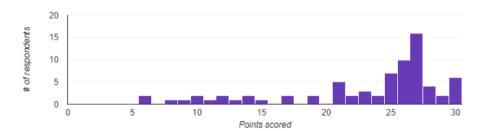
SWOT ANALYSIS:



How satisfied were you with the STTP content?



Total points distribution



• BUDGET & ACTUALS: NIL

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