

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

- TITLE AND DURATION: "Advancements in Signal Processing and Optimization Techniques in WSN" from September 21-25, 2020.
- **SPONSORS:** TEQIP-III, Rajasthan Technical University Kota.
- **SUPPORTERS:** Rajasthan Technical University Kota.
- ORGANIZERS: Rajasthan Technical University, Kota, and Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.

• OBJECTIVES:

The aim of the Faculty Development Program is provide an opportunity to faculty members and on-going researchers to equip and advance their knowledge in the area of communication, signal processing and image processing and also, identify the prospective areas for novel research. You are requested to kindly circulate the same among your friends and colleagues.

EXPECTED OUTCOMES:

- 1. Bringing together the advancement of wireless system among faculties and to discuss the Latest applications and issues in the area of Signal Processing.
- 2. Identify industry challenges and sensitize about latest trends and technologies in adopting different optimization techniques for reduction of fabrication cost.
- 3. To provide use-case demonstrations, and research oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of wireless sensor network.

BROCHURE



ABOUT TEQIP-III

The Project, third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Ywelff Priva-yer Plan objectives for Technical Education as a key component for improving the quality of Empireching Education are sites of special consideration for Low Leonors States and Special Category States and support to strengthen few affiliated technical universities to Improve their

RAJASTHAN TECHNICAL UNIVERSITY

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan. The University currently affiliates about 125 orgineering Colleges, 64 Arch., 41 MCA Colleges, 95 MSA Colleges, 44 M.Tech. Colleges and 3. Hotel Management and Carliering institutes. The University aims to provide quality schincial education which may help Rajasthan in its technical development and will boost technical environment in the country.

POORNIMA COLLEGE OF ENGINEERING

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Pormina College of Fingineering PCID, stabilished as a brand of berhincial
education in the year 2000, has its own glorious legacy of leading the yeung
engineers be the marmods sky of success. Its accomplishments forecast his
journey through the hardships and its triumph over them one after another.
PCE left no stone untruned since its establishment in timing 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 renovanied affiltated factinical institution all over
Highly recognized and renovated affiltated inschinical institution all over
Administed to RTU, Kota & approved by AICTE. New Delhi
The most preferred MBA Accredited Engineering College with running of
six specializations of Engineering at US Lewe (CSE. ECE. EE. ME. Ti. Civi)
and how at The Verew (CSE ALV.SI).
The only institution permitted by RTU to admit FNVPIQ-Gutf students &
designated as centre of oxederone by Bild.

DEPT. OF ELECTRONICS & COMM. ENGINEERING

DEPT. OF ELECTROMICS & COMM. ENTITLE ENTITY.

The Department of Electrovices and Communication Engineering (ECF) was established in year 2003. National Beard of Accreditation (RBA) accredited the ECE department in the year 2018. So 2016 for subsequent three years. It has intake capacity of 180. It also offers M. beth in VLSI Design with intake capacity of 180. It also offers M. beth in VLSI Design with intake capacity of 180. It also offers M. beth in VLSI Design with intake research oriented faculty members. The department has belovatories as per Registration Technical University Syllatow MS State-of-the-Art califies in diversitied fields such as Electronic Circuits, VLSI Design, DSP (Digital signal processing), Emborated Systems, Advanced Writelses Communication and Microwave etc. Research is being carried out in the areas of Anterna Design and Writelses Communication. and VLSI Selsey. The department also has to his credit three labs. (i) Microwave Engineering lab & (ii) Advance Anterna 8. Wireless Communication bid (iii) Advance Interna 8. Wireless Communication bid (iii) Advance Internation 18. Wireless Communication bid (iii) Advance Internation Internation Internation Internation Internation Internation In

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 beter differ at labality for the value admid IBM Canner Education Programs for faculty members and students on emerging technologies such as IBM BluelMir (Codu, IBM Cognos for Business Intelligence and IoT Application Development & Deployment using IBM

ABOUT FACULTY DEVELOPMENT PROGRAM

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Signal processing is concerned with the representation, manipulation and transformation of signals and the information that they carry. R provides techniques for processing acquired time-series data for the purpose efficient analysis and styribes. Nor they want, that been developed to give great advancements in the areas of microchips, digital systems and computer hardware. The applications of signal processing are vest and interdisciplinary, ranging from engineering to economics and astronomy to belogy. The research in many areas such as signal coloring and enoising has paved the path for advancements. Recent decade has witnessed major provide in a communication and processing of digital media. As a consequence solutions to major problems in processing, transmission and eventual research separations. This program without provide an opportunity to highlight recent benefit and developments to identify energing and fluture areas of great in the second provides and developments for identify energing and fluture areas of great in the case of the control of the control

TOPICS TO BE COVERED

- Fundamentals of adaptive signal processing
 Load Balanced Clustering in Wireless Senson Networks
 Reinforcement Learning
 Classical Optimization and Unsupervised Learning Techniques
 Evolutionary and Rather Inspired Optimization Techniques
 Mutil-Objective Optimization Techniques

OBJECTIVES OF THE FDP

- The Programme aims at equipping bachers with skills and knowledge in the field of communication, signal processing and image processing that exesserable for incocating learning values in students and guiding and monitoring their progress towards their career. To discuss state of the art developments and emerging techniques in Writeless Searce Networks

- Wireless Sensor Networks
 To provide an opportunity to laculty members and on-going researchers to equip and advance their knowledge in these application areas and also, identify the prospective areas for nowledge research.
 To exchange views, ideas the latest innovations in the field off Wireless sensor Networks. Lt also offers learning on adaptive signal Processing, evolutionary learning in WSN.

FDP COMMITTEE

CHIEF PATRON

Prof. (Dr.) R. A. Gupta Homble Vice Chancellor, RTU Kota

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

RTU (ATU) TEQIP-III COORDINATOR Prof. (Dr.) Dhirendra Mathur

RTU EVENT COORDINATOR

Dr. Deepak Bhatia (RTU, Kota)

RTU (ATU) TEQIP-III COMMITTEE

Dr. S. D. Purohit
Dr. Irum Alvi
Mr. Santosh Sharma

HOST INSTITUTE COORDINATOR

Dr. Anila Dhingra Dr. Garima Mathur

Associate Professor Professor & Head ECE



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

FLAYER



DETAILS OF RESOURCE PERSONS:

- Dr. P.Prakasam, Professor, School of Electronics Engineering (SENSE), Vellore Institute of Technology (VIT), Vellore
- 2. Dr. Rajender Kumar , Assistant Professor Electronics and Communication Engineering, NIT Kurukshetra
- 3. Dr. Nithin V. George, TEOCO Chair Associate Professor, Electrical Engineering, Indian Institute of Technology, Gandhinagar.
- 4. Dr. Amit Sehgal, Director, Sharda Launchpad Professor, Electronics and Communication Engineering
- Dr. Rajiv Mishra, Associate Professor Computer Science & Engineering Department, IIT Patna
- 6. Dr. Renu Kumawat, Associate Professor, Electronics and Communication Engineering

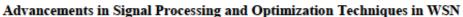
- , Manipal University, Jaipur
- 7. Dr. Surjit Singh, Assistant Professor & Coordinator M.E.(CSE), Computer Science & Engineering Department Thapar Institute of Engineering & Technology Patiala, Punjab
- 8. Dr. Chandrakant J. Gaikwad Professor and Head, Department of Electronics and Telecommunication Engineering Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, Maharashtra.
- 9. Dr. Satyasai Jagannath nanda, Assistant Professor, Electronics and Communication Engineering, MNIT, Jaipur.
- 10. Dr. Amrita Rai, Associate Professor, Electronics and Communication
- 11. Engineering, GL Bajaj Institute of Technology & Management, Noida
- 12. Dr. Lokesh Tharani, Associate Professor Department of Electronics and communication Engineering, RTU, Kota.

INAUGURAL SESSION:



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Poornima College of Engineering TEQIP-III RTU (ATU) SPONSORED



Five Days Faculty Development Program (September 21-25, 2020)

Date: September 21, 2020 Time: 9:00-9:30 AM

Venue: Online

Q-Sheet-Inaugural Session

S. No	Activity	Duration	Time
ı.	 Welcome of Dignitaries and Introduction of FDP by Dr. Anila Dhingra, (Associate Prof.) Coordinator, PCE Prof. (Dr.) R.A. Gupta, Hon'ble Vice Chancellor, RTU Kota (Chief Guest) Prof. (Dr.) Dhirendra Mathur, RTU (ATU) TEQIP-III Coordinator (Guest of Honour) Dr. P.Prakasam, Professor, School of Electronics Engineering(SENSE), VIT, Vellore (Guest of Honour) Dr. Deepak Bhatia, Assistant Professor, RTU Event Coordinator Ar. Rahul Singhi, Director, Poornima Group, Jaipur Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur Er. Pankaj Dhemla, Vice-Principal, Poornima College of Engineering, Jaipur Dr. Garima Mathur, HOD, ECE, Poornima College of Engineering 	05 Min	9:00 AM -9:05 AM
2.	Welcome Address by Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur	05 Min	9:05 AM -9:10 AM
3.	Address by Ar. Rahul Singhi, Director, Poornima Group, Jaipur	05 Min	9:10 AM -9:15 AM
4.	Introduction of Guest of Honour & Address by Guest of Honour Prof (Dr.) Dhirendra Mathur, RTU (ATU) TEQIP-III Coordinator Dr. P.Prakasam, Professor, School of Electronics Engineering(SENSE), VIT, Vellore.	05 Min	9:15 AM - 9:20 AM
5.	Introduction to Faculty Development Program by Dr. Deepak Bhatia, Assistant Professor, RTU Event Coordinator.	05 Min	9:20 AM -9:25 AM
6.	Introduction of Chief Guest & Inaugural Address by the Chief Guest Prof. (Dr.) R.A. Gupta, Hon'ble Vice Chancellor, RTU Kota	10 Min	9:25 AM - 9:35 AM
7.	Vote of Thanks by Dr. Garima Mathur , HOD, ECE, PCE	05 Min	9:35 AM - 9:40 AM

GLIMPSES OF CONDUCTION:

Inaugural session

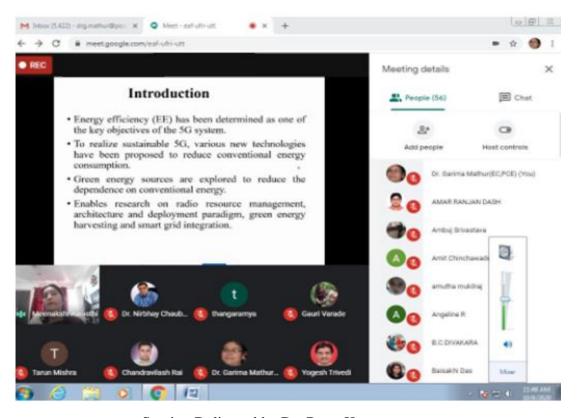


Welcome address by Dr. Payal Bansal (Coordinator FDP)

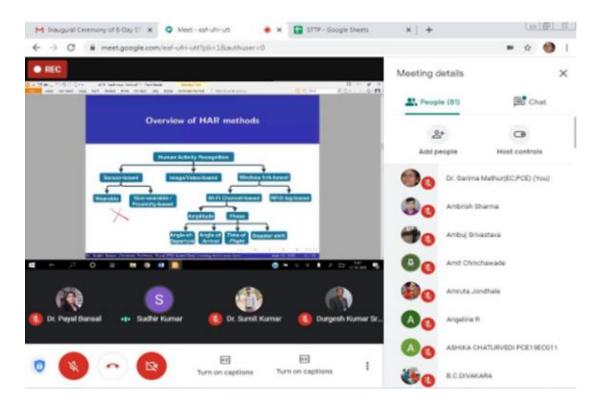


Motivational speech by Dr. Mahesh M Bundele (Director PCE)

CONTENT DELIVERY / PRACTICAL SESSIONS:



Session Delivered by Dr. Renu Kumawat



Session Delivered by Dr. Lokesh Tharani

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



Session Delivered by Dr. Lokesh Tharani

Vote of Thanks by Dr. Garima Mathur



LIST OF PARTICIPANTS:

S. No.	Name of Participants	Affiliation	
1	Madhu Jain	Jaypee Institute of Information Technology, Noida	
2	Manish Sharma	Poornima College of Engineering, Jaipur	
3	Manish Sharma	Department of Information Technology and Communication, Govt. of Rajasthan	
4	Manish Dubey	Poornima College of Engineering, Jaipur	
5	Manish Sharma	Apex institute of engineering and technology	
6	Manisha Kumawat	Poornima College of Engineering, Jaipur	
7	Ms. S. Caroline	St. Xavier's Catholic College of Engineering	
8	Ambrish Kumar Sharma	Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV)	
	Ms. Monika Malik	Jss Academy of Technical Education, Noida	
9	Mr. Jigar Maheshbhai Patel	Bhailalbhai And Bhikhabhai Institute of Technology (Gia)	
10	Dr. Beena A.O.	Saintgits College of Engineering	
11	Kamlesh Gautam	Arya Institute of Engineering Technology and Management, Jaipur	
12	Kana Ram Mali	Rajasthan Technical University, Kota	
13	Krushna Chandra Sahoo	Dreims Aotonomous Engineering College, Cuttack	
14	Kusum Yadav	JECRC Jaipur	
15	Lakshya Rustagi	Poornima college of engineering	
16	Lokesh Dashora	Laxmi Builders Private limited	
17	Vadiraj Manvi	Maharani Lakshmi Ammanni College For Women	
18	Dr. Rashmirekha Ram	Siksha O Anusandhan Deemed to be University	
19	Dr. Krishna Chandra Roy	kautilya Institute of Technology and Engineering	
20	Mohit Soni	Poornima College of engineering	

Dr. Mahesh Bundele
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Director
Peornima College of Engineering
131-6, FUICO Institutional Area
Stlapura, JAIPUR

21	Mukesh Chand	Poornima College of Engineering, Jaipur	
22	Neha	Poornima college of engineering	
23	Om Prakash Kumawat	IEI Kolkata	
24	Pabitra Kumar Nayak	Synergy Institute of Engineering and Technology, Dhenkanal	
25	Mr. A Sai Suneel	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	
26	Dr. S. Maria Seraphin Sujitha	St.Xaviers Catholic College of Engg	
27	Mr. Ramesh Dhulipudi	GIET College of Engineering	
28	Pankaj Dadheech	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	
29	Pruthwijeet Patnayak	NPTI, NAGPUR	
30	Rahul Rathi	Poornima College of Engineering	
31	Rahul Sharma	Poornima College of Engineering	
32	Raj Kumar Jain	Poornima college of engineering	
33	Ramesh Chand Meena	STPI, Ministry of Electronics and IT	
34	Ravi Prakash Meghwanshi	Rajasthan Technical University, Kota	
35	Reenal Jain	UBS	
36	Riyanshi Jain	Rajasthan Technical University, Kota	
37	Sakshi Tiwari	Arya college of engineering &IT	
38	Sana Firoz	Poornima college of engineering	
39	Shefali Sharma	Jaipur National University	
40	Shikha Shrivastava	Jaipur Engg College and Research Centre	
41	Shivali Sisodiya	Rajasthan Technical University Kota	
42	Shubham Sharma	Rajasthan technical Univercity	
43	Sumit kumar manna	Vidyasagar Metropolitan College	
44	Sunil Kumar Mahapatro	Regional College for Education, Research and Technology, Sitapura, Jaipur, Rajasthan	
45	Ms. Gauri Arun Varade	Sir Visvesvaraya Institute of Technology	

46	Dr. Manikandan J	Sri Sairam Engineering College
47	Mr. Shivaji Sinha	JSS Academy of Technical Education, Noida
48	Dr. Pokkuluri Kiran Sree	Shri Vishnu Engineering College for Women
49	Mr. Mehaboob Mujawar	Goa College of Engineering
50	Ms. Gauri Arun Varade	Sir Visvesvaraya Institute of Technology
51	Dr. A. Mary Joy Kinol	Sathyabama Institute of science and technology
52	Dr. S. Srinivasulu Raju	Velagapudi Ramakrishna Siddhartha Engineering College
53	Monika Rani	IKGPTU

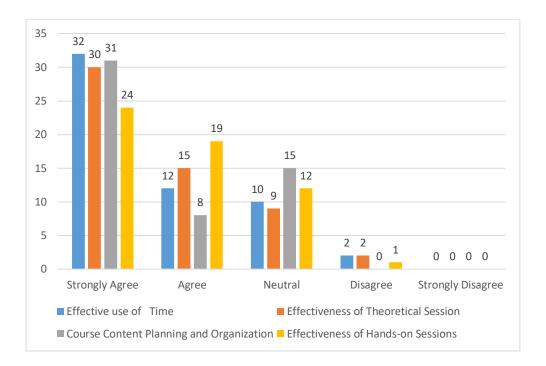
ONLINE FEEDBACK

• 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 have given positive remarks in all respects and shown their satisfaction with all the arrangements and the time management

FEEDBACK ANALYSIS:

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands-on Sessions
Strongly Agree	32	3	31	24
Agree	12	15	8	19
Neutral	10	9	15	12
Disagree	2	2	0	1
Strongly Disagree	0	0	0	0

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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
131-6, PilCO Institutional Area
Stlapura, JAIPUR