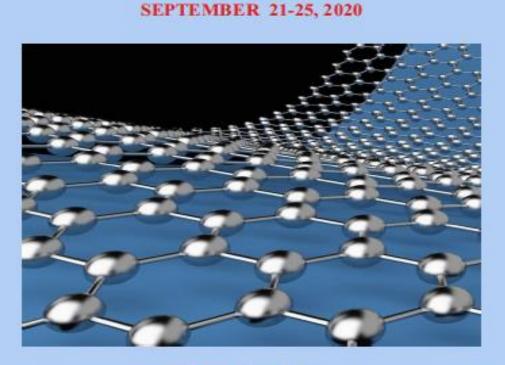




RTU(ATU) TEQIP-III SPONSORED FACULTY DEVELOPMENT PROGRAM ON "EMERGING TRENDS IN NANO-ELECTRONICS" (ETNE-2020)



Organized by

Rajasthan Technical University, Kota &

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



Host Institute

Department of Electronics & Communication Engineering Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur-302017 www.skit.ac.in





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Report

on

Five Days

Faculty Development Program Emerging Trends in Nano Electronics ETNE-2020

21-25 September 2020

Sponsored by TEQIP III



RTU Event Coordinator:

Dr. M L Meena

Mr. Riyaz Ahmad

Host Institute Coordinators:

Prof. Mukesh Arora

Prof. Praveen Jain

Dr. Rukhsar Zafar

Dr. Shubhi Jain

Organized By

Rajasthan Technical University, Kota

&

Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur

Host Institute

Department of Electronics and Communication Engineering Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur

Approval Letter

Notice



RAJASTHAN TECHNICAL UNIVERSITY

Rawatbhata Road, Akelgarh, Kota-324 010 TEQIP III-RTU(ATU) OFFICE
Phone: 0744-2473060 Fax: 2473002 Email: rtuteqip@rtu.ac.in

No. RTU/TEQIP-III/F(56)/2020-21/ 4892- 97

DATE: 05/08/20

In commutation of office order RTU/TEQIP-HI/F(56)/2018-19/4752-58 dated 10/07/2020, following dates and RTU coordinators are approved for the faculty development programmes (FDPs) mentioned as below.

S. No	Name of the Institute	Title of the FDP	No. of Days	RTU Coordinator	Dates
	ACERC Jaipur	Image Processing Techniques for real world applications	5	Harish Sharma	8-12 Aug 2020
2	Anand International College of Engineering	Technology and Innovation in Math	5	Dr. Kamlesh "Jangid	14-18 Sept 2020 10-12 Sep 2020
3	Anand International College of Engineering	Artificial Intelligence and Machine Learning Using Python	3	Mr. Vikash Tripathi	
4	Arya College of Engineering & Research Centre	Data Science	2	Dr. Harish Sharma	12-13 Sept 2020
5	Arya College of Engineering & Research Centre	Machine Learning	3	Dr. Harish Sharma	16-18 Sept 2020
6	Arya Institute of Engineering 8 Technology	Practical Exposure on Image Processing using	2	Dr. Harish Sharma	29-30 Aug 2020
7	BK Birla Institute of Engg. & Tech., Pilani	MATLAB Applications of Optimizationa Techniques in Science	5	Dr. S.D. Purohit	23-27 Aug 2020
8	Chartered Institute of Technology, Aburoad	and Engineering Energy Auditing and Management	3	Dr.Rajeev Gupta	4-6 Sept 2020
9	GEETANJALI INSTITUTE OF TECHNICAL STUDIES, UDAIPUR	ETANJALI INSTITUTE OF POWER ELECTRONICS 3 Mr. Sawan Single CHNICAL STUDIES, CONVERTERS:		Mr. Sawan Singh	10-12 Aug 2020
10	GEETANJALI INSTITUTE OF TECHNICAL STUDIES, UDAIPUR	Solar Design and Drafting	5	Dr K.B.Rana & Dr. Pankaj Sharma	21-25 Sept 2020
11	GEETANJALI INSTITUTE OF TECHNICAL STUDIES,	Machine Learning and Its Aspects	3	Dr. Harish Sharma	23-25 Aug 2020
12	UDAIPUR Jagan Nath Gupta Institute of Engineering and Technology,	IOT (Internet of Things)	3	Ms. PARUL CHAUHAN	19-21 Aug 2020
13	Jaipur JAIPUR INSTITUTE OF TECHNOLOGY-GROUP OF INSTITUTIONS, JAIPUR	EMPLOYABILITY SKILLS FOR ENGINEERING GRADUATES	5	Dr ,Irum Alvi	7-11 Sept 2020
14	JEC KUKAS	Recent advances in renewable energy technologies for sustainable development	2	Mr. Sawan Singh	21-22 Aug 2020
15	JEC KUKAS	RECENT ADVANCES N FIELD OF PHYSICAL SCIENCES	2	Ms. Priyanka Agarwal	7-8 Aug 2020
6	JEC KUKAS	Artificial Intelligence & IOT	2	Dr. Harish Sharma	19-20 Sept 2020
7	JEC KUKAS	Transient stability in power system	2	Prof. Dinesh Birla	11-12 Sept 2020





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Phone: 0744-2473060 Fax: 2473002 Email: rtuteqip@rtu.ac.in

o. I-	PTU/TEQIP-III/F(56)/2020- RIET JAIPUR	21/ 4895-97 IMERGING ISSUES IN ENVIRONMENT ENGINEERING AND DISASTER MANAGEMENT	5	Dr Munish Bindal	DATE:- 05/03 21-25 Sept 2020
38	RIET jaipur	Drone Technology	5	Dr S. S. Godara	25-29 Aug 2020
39	Sawai Madhopur College of Engineering & Technology, Sawai Madhopur	Smart Agriculture	1	Dr Rajeev Gupta	29-Aug-20
40	Sawai Madhopur College of Engineering & Technology, Sawai Madhopur	Green Energy Technologies	2	Munish Bindal	3-4 Sept 2020
41	Shankara Institute of Technology	Entrepreneurship Development	2	T V S KALYAN CHAKRAVARTHI	18-19 Sept 2020
42	Shrinathji Institute of Technology & Engineering Nathdwara	Artificial Intelligence & Data Analytics with Matlab	5	Dr Harish Sharma	8-Aug 12 2020
43	Shrinathji Institute of Technology & Engineering, Nathdwara	Advance Microgrids, Smart Renewable & Distributed Energy System	3	Prof Dinesh Birla	24-26 Sept 2020
44	Shrinathij Institute of Technology and Engineering, Nathdwara	Fuel additives for C.I. Engine And Performmance Evaluation	3	Mr. VAIBHAV GUPTA	10-12 Sept 2020
45	SRI BALAJI COLLEGE OF ENGINEERING AND TECHNOLOGY	RECENT TRENDS IN RENEWABLE ENERGY	3	Dr Munish Bindal	10-12 Sept 2020
46	SRI BALAJI COLLEGE OF ENGINEERING AND TECHNOLOGY	MAT LAB AND IT'S APPLICATIONS	3	Dr S. S. Godara	1-3 Sept 2020
47	SRI BALAJI COLLEGE OF ENGINEERING AND TECHNOLOGY	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	3	Mr. Vipin Prakash Yadav	7-9 Sept 2020
48	SRI BALAJI COLLEGE OF ENGINEERING AND TECHNOLOGY	ELECTRICAL VEHICLE	3	Dr D. K. Yadav	4-6 Sept. 2020
49	SRI BALAJI COLLEGE OF ENGINEERING AND TECHNOLOGY	MULTI VARIABLE MULTI RESPONSE OPTIMIZATION	5	Dr. Rahul Jain	14-18 Sept 2020
50	SRI BALAJI COLLEGE OF ENGINEERING AND TECHNOLOGY	OF BUILDING	5	Dr. K B Rana & Dr. Pankaj Sharma	7-11 Sept 2020
51	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN	AATMNIRBHAR BHARAT: ENCOURAGING ENTERPRISE IN RURAL COMMUNITIES AND REMOTE REGIONS	3	Prof Rajesh Singal	4-6 Sept 2020
52	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN	Embedded Systems and IoT	5	Ms. PARUL CHAUHAN	4-8 Aug 2020
53	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT 8	Emerging Trends in Nano Electronics (ETNE)	5	Dr. M. L. Meena & Riyaz Ahmad	21-25 Sept 2020



ABOUT FDP

The motivation of this faculty development program (FDP) is to bring together faculty members from different institutions to share and exchange their ideas and research findings in the field of emerging advanced nano-electronics, their processing as well as their sustain ability and applicability in different fields of interest. Through this forum, the participants will have opportunities to discuss innovations, encountered challenges and their probable solutions in the field of nano-electronics. This program could provide a virtual environment for faculty members to collaborate and to contribute to the collective effort in developing a knowledge-based sustainable society.

Contents

- Nano Materials for Gas Sensors
- Nano Materials for Optical Detectors
- Nano Materials for Hydrogen Energy Applications
- Nano-Photonics Waveguides
- Nano-Photonics assisted Solar Cells
- Spintronics
- Supercapacitors

Dr. Govind, Senior Principal Scientist & Professor (AcSIR), NPL, New Delhi Title of Talk: Fabrication of Next Generation Optical Detectors for Ultraviolet Radiations Dr. Mahesh Kumar, IIT Jodhpur Title of Talk: Growth of MoS2 Nano Materials for NO2 Gas Sensor Dr. Aditya Jain, Inst. of Materials Science and Engineering, NUAA, China Title of Talk: Multi Layer Ceramic Capacitors for Energy Storage Applications Dr. Mohan S. Mahata, DTU, New Delhi Development and Applications of Nano Sized Luminescent Materials Dr. Anshu Sharma, Central University of Haryana Title of Talk: Nano Materials for Hydrogen Energy Applications Dr. Praveen Kumar IACS-Kolkata, and Chair of the MCAA Indian Chapter Title of Talk: Material Science Innovations for Hydrogen Generation from Water Dr. Pooja D., Senior Scientist, CSIR-CSIO, Chandigarh Title of Talk: Carbon Quantum Dots: A Promising Platform for Water Pollutants Monitoring Dr. Rakesh Ranjan .NIT Patna Title of Talk: Nano-Photonics Waveguides and Its Applications Prof. Vijay Janyani, MNIT, Jaipur Title of Talk: Photonic Crystal Assisted Solar Cells Dr. Sanjeev Yadav, GEC, Ajmer Title of Talk: Nano Antennas and Metamaterial Dr. Anurag Gaur, NIT Kurukshetra Title of Talk: Spintronics based Magnetoresistive and Multiferroic Materials Dr. Balwinder Raj, Associate Professor, NITTTR Chandigarh Title of Talk: Multi Gate Nano-Electronics Devices Dr. Kanupriya Sachdev, Professor, MNIT Jaipur Title of Talk: Carbon Nano-Materials and their Applications Dr. Rishi Vyas, Associate Professor, SKIT Title of Talk: Aspects of Conductometric Gas Sensors Dr. Anurag Gaur, NIT Kurukshetra Title of Talk: Super-capacitors: The future energy storage devices	S.No	Expert Name, Affiliation and Title of Talk
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Title of Talk: Photonic Crystal Assisted Solar Cells Dr. Sanjeev Yadav, GEC, Ajmer Title of Talk: Nano Antennas and Metamaterial Dr. Anurag Gaur, NIT Kurukshetra Title of Talk: Spintronics based Magnetoresistive and Multiferroic Materials Dr. Balwinder Raj, Associate Professor, NITTTR Chandigarh Title of Talk: Multi Gate Nano-Electronics Devices Dr. Kanupriya Sachdev, Professor, MNIT Jaipur Title of Talk: Carbon Nano-Materials and their Applications Dr. Rishi Vyas, Associate Professor, SKIT Title of Talk: Aspects of Conductometric Gas Sensors Dr. Anurag Gaur, NIT Kurukshetra	U	Title of Talk: Nano-Photonics Waveguides and Its Applications
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Title of Talk: Multi Gate Nano-Electronics Devices Dr. Kanupriya Sachdev, Professor, MNIT Jaipur Title of Talk: Carbon Nano-Materials and their Applications Dr. Rishi Vyas, Associate Professor, SKIT Title of Talk: Aspects of Conductometric Gas Sensors Dr. Anurag Gaur, NIT Kurukshetra	11	Title of Talk: Spintronics based Magnetoresistive and Multiferroic Materials
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Title of Talk: Carbon Nano-Materials and their Applications Dr. Rishi Vyas, Associate Professor, SKIT Title of Talk: Aspects of Conductometric Gas Sensors Dr. Anurag Gaur, NIT Kurukshetra	12	Title of Talk: Multi Gate Nano-Electronics Devices
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Title of Talk: Aspects of Conductometric Gas Sensors Dr. Anurag Gaur, NIT Kurukshetra	1/	Dr. Rishi Vyas, Associate Professor, SKIT
	14	Title of Talk: Aspects of Conductometric Gas Sensors
Title of Talk: Super-capacitors: The future energy storage devices	15	Dr. Anurag Gaur, NIT Kurukshetra
		Title of Talk: Super-capacitors: The future energy storage devices

Event Coordinator

Dr. M L Meena

(RTU Event Coordinator)

Assistant Professor

Department of Electronics Engineering

Rajasthan Technical University, Kota

Mr. Riyaz Ahmad

(RTU Event Coordinator)

Assistant Professor

Department of Electronics Engineering

Rajasthan Technical University, Kota

Host Institute Co-Ordinator Details

1. Dr. Mukesh Arora

Professor and Head

Department of Electronics and Communication Engineering

Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

Email id: hodece@skit.ac.in

Phone no: 9829630099

2. Dr. Praveen Kumar Jain

Professor and Dy, Head

Department of Electronics and Communication Engineering

Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

Email id: pkjain@skit.ac.in

Phone no: 9928652224

3. Dr. Rukhsar Zafar

Associate Professor

Department of Electronics and Communication Engineering

Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

Email id: rzafar@skit.ac.in

Phone no: 8058318786

4. Dr. Shubhi jain

Assistant Professor

Department of Electronics and Communication Engineering

Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

Email id: shubhijain19@gmail.com

Phone no: 9468783437

Resource Person

The Various sessions of the FDP preceded by the experts from IITs, NITs and other reputed institutes.

Registration Fee

There is No Registration Fee.

Targeted Audience

Faculty of various engineering institutes affiliated to Rajasthan Technical University, Bikaner Technical University and other academic institutions.

FDP Schedule

Rajasthan Technical University, Kota and Swami <u>Keshyanand</u> Institute of Technology, Management & <u>Gramothan</u>, Jaipur One Week Faculty Development <u>Programme</u>



Date (Day)	9:00 am-10:00 am	10:15 am -11:15 am	12:00 pm -1:00 pm	1:00 pm -2:00 pm
21.09.2020 (Monday)	Inauguration (9:30 am -10:00 am)	Dr. Govind, Senior Principal Scientist & Professor (AcSIR) NPL, New Delhi Title of Talk: Fabrication of Next Generation Optical Detectors for Ultraviolet Radiations	Dr. Mahesh Kumar, IIT Jodhpur Title of Talk: Growth of MoS ₂ Nano Materials for NO ₂ Gas Sensor	Dr. Aditya Jain Inst. of Materials Science and Engineering, Nanjing University of Aeronautics & Astronautics, China Title of Talk: Multi Layer Ceramic Capacitors for Energy Storage Applications
22.09.2020 (Tuesday)	Dr. Mohan S. Mahata DTU, New Delhi Development and Applications of Nano Sized Luminescent Materials	Dr. Anshu Sharma, Central University of Haryana Title of Talk: Nano Materials for Hydrogen Energy Applications	Dr. Praveen Kumar IACS-Kolkata, and Chair of the Marie Curie Alumni Association (MCAA) Indian Chapter Title of Talk: Material Science Innovations for Hydrogen Generation from Water	
23.09.2020 (Wednesday)	Dr. Pooja D., Senior Scientist, CSIR-CSIO, Chandigarh Title of Talk: Carbon Quantum Dots: A Promising Platform for Water Pollutants Monitoring	Dr. Rakesh Ranjan NIT Patna Title of Talk: Nano-Photonics Waveguides and Its Applications	Prof. Vijay Janyani MNIT, Jaipur Title of Talk: Photonic Crystal Assisted Solar Cells	
24.09.2020 (Thursday)	Dr. Sanjeev Yadav GEC, Ajmer Title of Talk: Nano Antennas and Metamaterial	Dr. Anurag Gaur, NIT Kurukshetra Title of Talk: Spintronics based Magnetoresistive and Multiferroic Materials	Dr. <u>Balwinder</u> Raj, Associate Professor NITTIR Chandigarh Title of Talk: Multi Gate Nano- Electronics Devices	
25.09.2020 (Friday)	Dr. Kanupriya Sachdey Professor, MNIT Jaipur Title of Talk: Carbon Nano- Materials and their Applications	Dr. Rishi Vyas Associate Professor, SKIT Title of Talk: Aspects of Conductometric Gas Sensors	Dr. Anurag Gaur, NIT Kurukshetra Title of Talk: Super-capacitors: The future energy storage devices	Valedictory (1:15 pm – 1:30 pm)

RTU Event Coordinator Dr. M. L. Meena Mr. Riyaz Ahmad

HOST Institute Coordinator

Dr. Praveen Kumar Jain Dr. Mukesh Arora Dr. Rukhsar Zafar

Principal-Host Institute Dr. Ramesh Kumar Pachar

List of Participants

Rajasthan Technical University, Kota and Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur One Week Faculty Development Programme

on

Emerging Trends on Nano-Electronics (ETNE-2020) (21/09/2020 to 25/09/2020)

Host Institute: Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur List of Participants

					RTU/BTU		Attendo	nce (Da	y Wise)		Feedback	Assignment
Sr.N	Salute	Name	Institute	Email Id		Day-1	Day-2	Day-3	Day-4	Day-5	Submitted (Yes/No)	Submitted (Yes/No)
<u>_</u>	Mr.	Abhishek Kumar	JECRC FOUNDATION, JAIPUR	abhishekkum2009@gmail.com	No	P	P	P	P	P	Yes	Yes
2		Abhishek Kumar		ak64810@gmail.com	No	P	P	P	P	P	Yes	Yes
_			Gaya College of Engineering, Gaya			-	_		_	_		
3		Ananya Barman	IIS College of Engineering	ananya.barman@jiscollege.ac.in	No	P	P	P	P	P	Yes	Yes
4	Mr.	Kalpit Jain	Poomima College of Engineering	kalpit.jain@poornima.org	Yes	P	P	P	P	P	Yes	Yes
5	Mr.	Ganesh Dubey	Vivekananda Institute of Technology East	mariner.dubey@gmail.com	Yes	P	P	P	P	P	Yes	Yes
6	Ms.	Shweta Agrawal	Shankara Institute of Technology Kukas Jaipur	29shweta.agarwal@gmail.com	Yes	P	P	P	P	P	Yes	Yes
7	Mr.	Abhas Kumar Singh	ISROSET, INDIA	abhasnith@gmail.com	No	P	P	P	P	P	Yes	Yes
8	Mr.	Bhavanesh sharma	Arya College of Engineering and IT	bhavaneshsharma2009@gmail.com	Yes	P	P	P	P	P	Yes	Yes
9	Ms.	Sheilly Padda	CEC LANDRAN	cecm.cse.sheilly@gmail.com	No	P	P	P	P	P	Yes	Yes
10	Mr.	Ch Sandeep Reddy	KLEF(Deemed to be University), Hyderabad	chintakuntlasandeep@gmail.com	No	P	P	P	P	P	Yes	Yes
11	Mr.	Balaji Dhopte	SVNIT,Surat	dhoptebalaji@gmail.com	No	P	P	P	P	P	Yes	Yes
12	Mr.	Dinesh Bhatia	University Departments, RTU	dinbhatia@gmail.com	Yes	P	P	P	P	P	Yes	Yes
13	Dr.	Hredeya Mishra	Jaihind College of Engineering , Kuran Pune	drhredeyamishra@gmail.com	No	P	P	P	P	P	Yes	Yes
14	Dr.	Niketa Sharma	Swami Keshvanand Institute of Technology, Management & Gramothan Jaipur	dmiketa@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
15	Ms.	Sonali Gupta	CEC	er.sonaligupta@gmail.com	No	P	P	P	P	P	Yes	Yes
16	Prof.	Sanjeev Gupta	Government College of Engineering and Technology Jammu	fdpsanjeevpreeti@gmail.com	No	P	P	P	P	P	Yes	Yes
17	Mr.	G.Boopathi Raja	Velalar College of Engineering and Technology	g.boopathiraja14@gmail.com	No	P	P	P	P	P	Yes	Yes
18	Ms.	Gayathri Priya. S	RMD Engineering College	gayathripriyaselvamuthu@gmail.com	No	P	P	P	P	P	Yes	Yes
19	Mr.	Dipankar Gogoi	NIT Arunachal Pradesh	gogoidipankar784160@gmail.com	No	P	P	P	P	P	Yes	Yes
20	Mr.	Shailendra Goswami	Engineering College Baran	goswamishailendra7@gmail.com	Yes	P	P	P	P	P	Yes	Yes
21	Dr.	Gyanesh Soni	IIS DEEMED TO BE UNIVERSITY, JAIPUR	gyaneshsoni10@gmail.com	No	P	P	P	P	P	Yes	Yes
22	Mr.	Syed Hasan Parvez	Jamia Millia Islamia University, New Delhi	hasansyed695@gmail.com	No	P	P	P	P	P	Yes	Yes
23	Mr.	Hemraj Kumawat	SBNITM Jaipur	hemraj.kum@gmail.com	Yes	P	P	P	P	P	Yes	Yes
24	Mr.	H Ganesh	NPA CENTENARY POLYTECHNIC COLLEGE, KOTAGIRI	hiriganesh@yahoo.co.in	No	P	P	P	P	P	Yes	Yes
25	Mr.	Jay Kumar Pandey	Shri Ramswaroop Memorial University	jay.pandey@srmu.ac.in	No	P	P	P	P	P	Yes	Yes
26	Mr.	Kalyan Kumar Jena	PMEC, Berhampur	kalyankumarjena@gmail.com	No	P	P	P	P	P	Yes	Yes

27	Mr.	Pankaj Keshari	Jadavpur University	kesharipankaj 1992@gmail.com	No	P	P	P	P	P	Yes	Yes
28	Dr.	Kiran Sharma	Graphic Era Deemed to University Dehradun Uttarakhand	kkiransharma@gmail.com	No	P	P	P	P	P	Yes	Yes
29	Dr.	Komal Sharma	Swami Keshvanand Institute of Technology, Management and Gramothan	komal.sharma@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
30	Mr.	SHANKAR BALU KO	Pandit Nehru Vidhyalaya and Junior College, Kavalapur	kondhalkars.b@gmail.com	No	P	P	P	P	P	Yes	Yes
31	Mr.	Laiju Lukose	Government Engineering College Wayanad	laijulukose@gecwyd.ac.in	No	P	P	P	P	P	Yes	Yes
32	Ms.	Laishangbam Chanu So	Manipur University	laishangbamsonia@gmail.com	No	P	P	P	P	P	Yes	Yes
33	Ms.	Madhu Bala	Krishna Engineering College	madhu.bhatt@krishnacollege.ac.in	No	P	P	P	P	P	Yes	Yes
34	Ms.	R. Mahalakshmi	NPA Centenary Polytechnic College	mahasena2009@gmail.com	No	P	P	P	P	P	Yes	Yes
35	Dr.	Mahendra Singh Yadav	Pragati Private Industrial Training Institute, Raigarh, Alwar (Raiasthan)	mahsinyad@gmail.com	No	P	P	P	P	P	Yes	Yes
36	Ms.	Malathi L	SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY	malathi.ece@srit.org	No	P	P	P	P	P	Yes	Yes
37	Mr.	Mangesh Awale	Davanand Science College Latur	mangeshawale09@gmail.com	No	P	P	P	P	P	Yes	Yes
38	Mr.	Suresh Babu M	NPA CENTENARY POLYTECHNIC COLLEGE, Kotagini	manick.suresh2k.npa@gmail.com	No	P	P	P	P	P	Yes	Yes
39	Dr.	Manikandan J	Sri Sairam Engineering College	manikandan.mangai@gmail.com	No	P	P	P	P	P	Yes	Yes
40	Mr.	Manish Bhaskar	Guru Ghasidas Vishwavidyalaya Koni Bilaspur Chhattisgarh (a Central University)	manishbhaskarl5@gmail.com	No	P	P	P	P	P	Yes	Yes
41	Mr.	P. P. M. Prasad	Bapatla Engineering College	manohar.padyala@gmail.com	No	P	P	P	P	P	Yes	Yes
42	Dr.	Anthoni Praveen Mene	Mangalore Institute of Technology and Engineering	mapraveen.80@gmail.com	No	P	P	P	P	P	Yes	Yes
43	Mr.	Loveneet Mishra	Galgotias University	mishraloveneet@gmail.com	No	P	P	P	P	P	Yes	Yes
44	Mr.	Shanmugaraj M	VSVN Polytechnic College	mshanraj@gmail.com	No	P	P	P	P	P	Yes	Yes
45	Mr.	Muhammad Tabish	XJTU	mtabish17@me.ceme.edu.pk	No	P	P	P	P	P	Yes	Yes
46	Dr.	Omar B. Mohammed	Ninevah University	omar.mohammed@uoninevah.edu.iq	No	P	P	P	P	P	Yes	Yes
47	Mr.	Palvinder Singh	Sanatan Dharma College Ambala Cantt	palvinder4us2006@gmail.com	No	P	P	P	P	P	Yes	Yes
48	Ms.	PAWANJEET KAUR	GD GOENKA UNIVERSITY	pawanjeet514@gmail.com	No	P	P	P	P	P	Yes	Yes
49	Dr.	Prince Firdoos Iqbal	Government Degree College Pulwama Kashmir	pfiqbal@gmail.com	No	P	P	P	P	P	Yes	Yes
50	Mr.	Prabhu Raj M	Dr. Mahalingam College of Engineering and Technology	prabhu.yem@gmail.com	No	P	P	P	P	P	Yes	Yes
51	Mr.	Rajesh Kanwadia	Shankara Institute of Technology, Jaipur	rajesh.kanwadia 1984@gmail.com	Yes	P	P	P	P	P	Yes	Yes
52	Mr.	Rajinder Tiwari	Model Institute of Engineering & Technology, Jammu	rajinder.ece@mietjammu.in	No	P	P	P	P	P	Yes	Yes
53	Dr.	M. Ramesh Babu	A. P. A. College of Arts and Culture	rameshbabucgc@gmail.com	No	P	P	P	P	P	Yes	Yes
54	Mr.	Ramesh kumar	Govt. Polytechnic College, Dausa	Rameshkhatkar86@gmail.com	No	P	P	P	P	P	Yes	Yes
55	Mr.	B. Ramesh	NPA CENTENARY POLYTECHNIC COLLEGE	rameshnpacpc@gmail.com	No	P	P	P	P	P	Yes	Yes
56	Dr.	Y. Mary Reeja	St Xavier's Catholic College of Engineering, Nagercoil	reeja@sxcce.edu.in	No	P	P	P	P	P	Yes	Yes
57	Dr.	Richa Mehta	Bholabhai Patel College of Computer Studies	richamehtalearning@gmail.com	No	P	P	P	P	P	Yes	Yes
58	Dr.	Sandip D Satav	JSPM's Jayawantro Sawant COE Pune	sandy_satav@yahoo.co.in	No	P	P	P	P	P	Yes	Yes
59	Prof.	Sanjeev Gupta	Government College of Engineering and Technology Jammu	sanjeevgupta2208@gmail.com	No	P	P	P	P	P	Yes	Yes

60	Dr.	Sanjeev Kumay	Defence Metallurgical Research Laboratory- DRDO Hudev	sanjeevphy85@gmail.com	No	P	P	P	P	P	Yes	Yes
61	Mr.		P.T.Lee CHENGALVARAYA NAICKER COLLEGE OF ENGINEERING AND TECHNOLOGY	sathish14@gmail.com	No	P	P	P	P	P	Yes	Yes
62	Dr.	SAURABH KUMAR T	SRI RAM KUMAR BHARTIYA G. D. PG MAHAVIDHYALAYA PHAPHUND AURAIYA	saurabht60@gmail.com	No	P	P	P	P	P	Yes	Yes
63	Ms.	Sharmila S	DG VAISHNAV COLLEGE	sharmi25348@gmail.com	No	P	P	P	P	P	Yes	Yes
64	Ms.	Shivani	Chitkara University	shivanigohri16@gmail.com	No	P	P	P	P	P	Yes	Yes
65	Ms.	SHRADHANJALI PAN	Modern Institute of Technology and Management	shradhacet@gmail.com	Yes	P	P	P	P	P	Yes	Yes
66	Ms.	Shwetapadma Panda	National Institute of Science and Technology, Berhampur	shweta25.er@gmail.com	No	P	P	P	P	P	Yes	Yes
67	Dr.	Sandeep Kumar Pundir	University of Lucknow	skpnagali@gmail.com	No	P	P	P	P	P	Yes	Yes
68		Dimple soni	SKIT, Jaipur	sonidimple412@gmail.com	Yes	P	P	P	P	P	Yes	Yes
69	Ms.		Rajasthan Technical University, Kota	stanwar@rtu.ac.in	Yes	P	P	P	P	P	Yes	Yes
70	Mr.	Sudarshan Kumar Jain		sudarshan.mnit@gmail.com	No	P	P	P	P	P	Yes	Yes
71	Mr.	Suman Dutta	Л.D Engineering & Management College	sumanduttajldcem@gmail.com	No	P	P	P	P	P	Yes	Yes
72	Mr.	Sumanta Kumar Kundu	Maharaja Agrasen Institute of Technology New Delhi	sumantakumarkundu@gmail.com	No	P	P	P	P	P	Yes	Yes
73	Ms.	Tamanna Nazeer	NIT Srinagar	tamanna.nazeer@gmail.com	No	P	P	P	P	P	Yes	Yes
74	Ms.	Umayalakshmi R	Ayya Nadar Janaki Ammal Polytechnic College	umayalravi@gmail.com	No	P	P	P	P	P	Yes	Yes
75	Mr.		NPA CENTENARY POLYTECHNIC COLLEGE KOTAGIRI	velmurugan131972@gmail.com	No	P	P	P	P	P	Yes	Yes
76	Mr.	Vineet Jaiswal	Teerthanker Mahaveer University	vineet.engineering@tmu.ac.in	No	P	P	P	P	P	Yes	Yes
77	Dr.	Aditya Mahabhai Vora	Department of Physics, Gujarat University, Ahmedabad, Gujarat	voraam@gmail.com	No	P	P	P	P	P	Yes	Yes
78	Mr.	Abdul Samad	Xi'an jiaotong University China.	abdulsmd16@gmail.com	No	P	P	P	P	P	Yes	Yes
79	Dr.	Abhishek Sharma	JECRC University, Jaipur	abhishek.sharma@jecrcu.edu.in	No	P	P	P	P	P	Yes	Yes
80	Mr.	Ankit Agarwal	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	ankitsagarwal@gmail.com	Yes	P	P	P	P	P	Yes	Yes
81	Mr.	Ankit Goyanar	IEHE Bhopal	goankitgoyl@gmail.com	No	P	P	P	P	P	Yes	Yes
82	Dr.	Hira Joshi	Gargi College, University of Delhi	hirajoshi123@gmail.com	No	P	P	P	P	P	Yes	Yes
83		Jaymin Ray	Uka Tarsadia University	Jayminray@gmail.com	No	P	P	P	P	P	Yes	Yes
84			B V RAJU INSTITUTE OF TECHNOLOGY	jyothilakshmi.a@bvrit.ac.in	No	P	P	P	P	P	Yes	Yes
85	Dr.	Karunesh Tiwari	Babu Banarasi Das University	karunesh@bbdu.ac.in	No	P	P	P	P	P	Yes	Yes
86	Ms.	Kiran Rathi	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	kiran.rathi@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
87	Dr.	Kalavakunta V Pavan K	Lingaya's Institute of Management and Technology	kvpy26@gmail.com	No	P	A	P	P	P	Yes	Yes
88	Mr.	S. EDWIN LAWRENC	St.Xavier's Catholic College of Engineering	lawerance@sxcce.edu.in	No	P	P	P	P	P	Yes	Yes
89	Dr.	Lawrence Zonunmawia	Govt. Zirtiri Residential Science College	lawrencechhangte@gzrsc.edu.in	No	P	P	A	P	P	Yes	Yes
90	Dr.	Madhur Deo Upadhaya	CLO AT 1 TTO 19	madhur deo@vahoo.com	No	P	P	P	P	P	Yes	Yes

			I						_			
91	Dr.	Manasvi Dixit	Swami Keshwanand Institute of Technology, Management & Gramothan, Jaipur	manasvi.spsl@gmail.com	Yes	P	P	P	P	P	Yes	Yes
92	Ms.	Manju Choudhary	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	manju.choudhary@skit.ac.in	Yes	P	P	P	P	A	Yes	Yes
93	Ms.		Post Graduate Government College for Girls	mehaksood88@gmail.com	No	P	P	P	P	P	Yes	Yes
94	Dr.	Mukesh Kumar	Shree Guru Gobind Singh Tricentenary University, Gurugram	mukesh kumar@sgtuniversity.org	No	P	P	A	P	P	Yes	Yes
95	Mr.	Nand Kishore	LNCT Bhopal	nkmeena83@gmail.com	No	P	P	P	P	P	Yes	Yes
96	Mr.		Roland Institute of Technology, Odisha	partha padhy@gmail.com	No	P	P	P	P	P	Yes	Yes
97		KULATHURAAN. K	Arulmigu Palaniandavar College of Arts and Culture	pkkmaterials@gmail.com	No	P	P	P	P	A	Yes	Yes
98	Mr.	Pavan Kunchur	Gogte Institute of Technology	pnkunchur@git.edu	No	P	P	P	P	P	Yes	Yes
99	Dr.	Rajesh Yadav Mudi	Vishnu Institute of Technology	rajeshyadav.m@vishnu.edu.in	No	P	P	P	P	P	Yes	Yes
100	Dr.	Md Shahidul Islam Kha	Pandit Deendayal Upadhyaya Adarsha, Mahavidyalaya, Amjonga	rakhakshik786@gmail.com	No	A	P	P	P	P	Yes	Yes
101	Dr.	RAVI	GJUS&T	ravipharman@gmail.com	No	P	P	P	P	P	Yes	Yes
102	Ms.	Rina Sharma	S.S. Jain Subodh PG College, Jaipur	rina.physics1@gmail.com	No	P	P	P	A	P	Yes	Yes
103	Dr.	MOHAMED JAFFER S	YUNNAN UNIVERSITY	sadiomsc@gmail.com	No	P	P	P	P	P	Yes	Yes
104	Dr.	Sanjiv Mishra	Allenhouse Institute of Technology, Kanpur	sanjivkanpur@gmail.com	No	P	P	A	P	P	Yes	Yes
105	Ms.	SANTANA DAS	GURU NANAK INSTITUTE OF TECHNOLOGY	santana.das@gnit.ac.in	No	P	P	P	P	P	Yes	Yes
106	Ms.	SARADA MARELLAF	GLOBAL INSTITUTE OF ENGINEERING AND TECHNOLOGY	saradas2012@gmail.com	Yes	P	P	P	A	P	Yes	Yes
107	Mr.	Shakir Sultan	Xian Jiaotong University	shakir635@gmail.com	No	P	P	P	P	P	Yes	Yes
108			Chameli Devi Group of Institutions, Indore	sharma.rahul5656@gmail.com	No	P	A	P	P	P	Yes	Yes
109	Ms.	C.SHEEJA HEROBIN	St.Xavier's Catholic College of Engineering	sheeja@sxcce.edu.in	No	P	P	P	P	P	Yes	Yes
110	Ms.	Shweta Dnyaneshwar I	Dayanand Science College Latur	shweta.lokhande266488@gmail.com	No	P	P	P	A	P	Yes	Yes
111	Mr.	Priya Singh	SRMGPC, LUCKNOW	singh.priya15691@gmail.com	No	P	P	P	P	P	Yes	Yes
112	Ms.	Snehal Marathe	Army Institute of Technology	smarathe@aitpune.edu.in	No	A	P	P	P	P	Yes	Yes
113	Mr.	Sanjeeb Limbu	North Eastern Hill University, Shillong	snjblimbu.hgsg@gmail.com	No	P	P	P	P	P	Yes	Yes
114	Mr.	Thuta BHASKARARA	ZPHSCHOOL DANDU GOPALAPURAM	thutabhaskararao@gmail.com	No	P	P	A	P	P	Yes	Yes
115	Mr.	G. VENKATESH	PANIMALAR ENGINEERING COLLEGE	venkateshgeie@gmail.com	No	P	P	P	P	P	Yes	Yes
116	Dr.	K Viswanath Allamraju	Institute of Aeronautical Engineering	akvn87@gmail.com	No	P	P	P	P	A	Yes	Yes
117	Mr.	Amir Sultan	Comsats University Islamabad Pakistan	amirmoon042@gmail.com	No	P	P	A	P	P	Yes	Yes
118	Ms.	Abha singh	MLVTEC, Bhilwara	anirudhsingh345@gmail.com	Yes	A	P	P	P	P	Yes	Yes
119	Ms.	Anju Yadav	Government College Todaraisingh	anjuuorphy@gmail.com	No	P	P	P	P	P	Yes	Yes
120	Mr.	ANOOP JATAV	Global institute of technology, Jaipur	anoopbanshiwalhnd98@gmail.com	Yes	P	A	P	P	P	Yes	Yes
121	Ms.	Darshi Jain	SMU	darshijain45@gmail.com	No	P	P	A	P	P	Yes	Yes
122	Dr.	Sandip Kumar Dash	Berhampur University	dashsandipkumar@gmail.com	No	P	P	P	P	P	Yes	Yes
123		Deepak Kumar	Graphic Era Deemed to be University Dehradun	deepakphysics20@gmail.com	No	P	P	P	P	P	Yes	Yes
124	Mr.	Pandurang Arjun Ghad	Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur	ghadagepa@gmail.com	No	P	P	P	P	A	Yes	Yes
125	Dr.	IMRUL HUSSAIN	Nabajyoti College, Kalgachia, Barpeta, Assam	imrulhussain123@gmail.com	No	P	A	P	P	P	Yes	Yes
126	Mr.	ARUN PRATAP SING	Graphic Era Dehradun	major.rathod@gmail.com	No	P	P	P	P	P	Yes	Yes

127	Ms.	Mamta Jain	Swami Keshvanand Institute of Technology, Management and Gramothan	mamta.jain@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
128	Mr.	Nikhil Jain	Arya College of Engineering and I.T.	nikhiliain.ec@arvacollege.in	Yes	P	P	P	P	P	Yes	Yes
129	Mr.	Nitesh Kumar	University Departments-RTU Kota	nitesh.npiu.ece@rtu.ac.in	Yes	P	P	P	P	P	Yes	Yes
130	Mr.	RANCHITH KUMAR	University College of Engineering Arani	pranchithkumar@gmail.com	No	P	P	P	P	A	Yes	Yes
131	Mr.	Oazi Abdul Havee	Xian Jiaotong University	gazi ahayee@gmail.com	No	P	P	P	P	P	Yes	Yes
132	Dr.	Renu Upadhyay	Amity University, Jaipur	renuupadhyay25@yahoo.co.in	No	P	P	P	P	P	Yes	Yes
133	Mr.	Revnolds Duddu	Bhilai Institute of Technology Durg	revnoldsnitr@gmail.com	No	À	P	P	P	P	Yes	Yes
134	Ms.	Rosalin Pradhan	Indira Gandhi Institute of Technology Sarang	rosalin.prdhn@gmail.com	No	P	P	P	P	P	Yes	Yes
135	Mr.	Sandeep Kumar Jain	Vivekananda Global University, Jaipur	sandeep jain@vgu.ac.in	No	P	P	P	A	P	Yes	Yes
136	Dr.	Sanieev Tvagi	MJP Rohilkhand University	sanieev.ei@ieee.org	No	P	P	P	P	P	Yes	Yes
137	Mr.			shiva konade@rediffmail.com	No	P	P	P	P	P	Yes	Yes
138	Dr.	SHRUTI KALRA	G V Acharya College, Shelu Mumbai JAIPUK ENGINEEKING COLLEGE AND	shrutisumitkalra@gmail.com	Yes	P	P	P	P	A	Yes	Yes
139	Mr.	M Sudarshan	RESEARCH CENTER IAIRLIR		No	P	P	P	P	P	Yes	Yes
140			FACT Cochin St. Xaviers Catholic College of Engineering	sudarshanfact@gmail.com suitha@sxcce.edu.in	No	P	P	P	P	P	Yes	Yes
	Dr.				No Yes						Yes	Yes
141	Ms.	Sukriti Solanki	RTU Kota Dr. B.C.Roy Engineering College, Durgapur	sukriti.solanki93@gmail.com	Yes No	P	P	A P	P	P	Yes	Yes
142				tribeniprasad.banerjee@bcrec.ac.in	No Yes	P	P	P	P	P	Yes	Yes
143	Mr.	Vijay Bhan Singh Kaja Dr. Vishal Mathur	Engineering College Baran	vijaybanna407@gmail.com	Yes No	P		P	P	P	Yes	Yes
144			Sur University College	wishalmathur@gmail.com		_	A	_	_	_		
145	Ms.	Almas Ambreen	AISSMS College of Engineering Pune	aambreen@aissmscoe.com	No	P	P	P	P	P	Yes	Yes
146	Dr.	M.Athimoolam	Agni College of Technology	aathi.ml01@gmail.com	No	P	P	P	P	P	Yes	Yes
147	Mr.	ANABATHULA SOM	INSTITUTE OF AERONAUTICAL ENGINEERING	anabathula.somaiah@gmail.com	No	P	P	A	P	P	Yes	Yes
148	Mr.	Anand kumar	IETE	anandnihaniwal@gmail.com	No	P	P	P	P	P	Yes	Yes
149	Mr.	Anuj Kr. Yadav	BIET Jhansi	anuj.y9@gmail.com	No	P	P	P	P	P	Yes	Yes
150	Ms.	Tenali Anusha	ST.MARY'S GROUP OF INSTITUTIONS GUNTUR	anusharajburuga@gmail.com	No	A	P	P	P	P	Yes	Yes
151	Ms.	CHATTU BHARGAVI	ST.MARY'S GROUP OF INSTITUTIONS, GUNTUR.	bhargavi.chattu506@gmail.com	No	P	P	P	P	P	Yes	Yes
152	Mr.	Deependra Khandelwal	JEC Kukas-Jaipur	d.khandelwal2021@yahoo.co.in	Yes	P	P	P	P	P	Yes	Yes
153	Ms.	Deepali Newaskar	RMD Sinhgad School of Engineering	deepali.newaskar@gmail.com	No	P	P	P	A	P	Yes	Yes
154	Ms.	Monika sarodia	Bhartiya skill development university	gunnu208@gmail.com	No	P	P	P	P	P	Yes	Yes
155	Ms.	Bapita Rov	GNIT	head_aeie.gnit@jisgroup.org	No	P	P	P	P	P	Yes	Yes
156	Mr.	Idris Opeyemi OLAYIV	CIMAV	itiarz@gmail.com	No	P	A	P	P	P	Yes	Yes
157	Mr.	Ravi Kumar Jangir	Swami Keshvanand Institute of Technology, Management and Gramothan	jangir.rj89@gmail.com	Yes	P	P	P	P	A	Yes	Yes
158	Ms.	Mayuri Dhanraj Patil	R.C.Patel Arts,Commerce and Science College,Shirpur	mayuripatilshreyul@gmail.com	No	P	P	P	P	P	Yes	Yes
159	Mr.	Prashant Kumar	CSIR-NATIONAL PHYSICAL LABORATORY NEW DELHI	prashantkhichi92@gmail.com	No	P	P	P	P	P	Yes	Yes
160	Dr.	Dr. Rashmi Jain	DUDITAR	rashmishubhi@gmail.com	No	P	P	P	A	P	Yes	Yes
161	Dr.	Dr Rekha Annigeri	Government College (Autonomous), Kalaburagi	rekha_annigeri@yahoo.co.in	No	P	P	P	P	P	Yes	Yes
162	Mr.	Rajkumar Bairwa	UD RTU, Kota	rkumar.npiu.me@rtu.ac.in	Yes	P	P	P	P	P	Yes	Yes

			B K Birla Institute of Engineering and Technology				_	_	_	_		
163	Ms.	Ruchi Sharma	(BKBIET)-PILANI	ruchi.sharma@bkbiet.ac.in	Yes	A	P	P	P	P	Yes	Yes
164		Manoj Kumar Sain	The LNMIIT, Jaipur	sain439@gmail.com	No	P	P	P	P	P	Yes	Yes
165		Manoj Kumar sain	The LNMIIT, Jaipur	sain439@gmail.com	No	P	P	P	P	P	Yes	Yes
166	Mr.	DEEPAK TIWARI	SSIPMT, RAIPUR	tiwan.ritik.9831@gmail.com	No	P	P	P	P	P	Yes	Yes
167	Mr.	Vikas Pathak	SKIT, Jaipur	vikas.pathak@skit.ac.in	Yes	P	P	P	P	A	Yes	Yes
168	Dr.	Dr. Vishakha Kaushik	DIT UNIVERSITY, DEHRADUN	vishakha kaushik@dituniversity.edu.in	No	P	P	P	P	P	Yes	Yes
169	Mr.	Vishal tandon	Govt Holkar Science College Indore	vishal.tandon126@gmail.com	No	P	A	P	P	P	Yes	Yes
170	Mr.	Ajay Kumar Sharma	Swami Keshvanand Institute of Technology, Management & Gramothan	ajaymnit19@gmail.com	Yes	P	P	P	P	P	Yes	Yes
171	Prof.	Archana Saxena	Swami Keshvanand Institute of Technology, Management & Gramothan	archanasaxena@skit.ac.in	Yes	P	P	P	A	P	Yes	Yes
172	Mr.	Lalit kumar lata	Swami Keshvanand Institute of Technology, Management & Gramothan	lalit.lata2008@gmail.com	Yes	P	P	P	P	P	Yes	Yes
173	Mr.	Ankit Vijayvargiya	Swami Keshvanand Institute of Technology, Management & Gramothan	ankitvijay@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
174	Mr.	Dhurendra Singh	Swami Keshvanand Institute of Technology, Management & Gramothan	dhurendra.kite@gmail.com	Yes	P	P	A	P	P	Yes	Yes
175	Mr.	Deendayal Singh Dhak	Swami Keshvanand Institute of Technology, Management & Gramothan	dkdhaked08@gmail.com	Yes	P	P	P	P	P	Yes	Yes
176	Dr.	Vikash Gautam	Swami Keshvanand Institute of Technology, Management & Gramothan	gautam.mnitj@gmail.com	Yes	A	P	P	P	P	Yes	Yes
177	Ms.	Gloria Joseph	Swami Keshvanand Institute of Technology, Management & Gramothan	gloria.joseph@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
178	Mr.	Harshal Nigam	Swami Keshvanand Institute of Technology, Management & Gramothan	hrshlnigam@gmail.com	Yes	P	P	P	P	P	Yes	Yes
179	Mr.	Neeraj jain	Swami Keshvanand Institute of Technology, Management & Gramothan	neerajengi24@gmail.com	Yes	P	P	A	P	P	Yes	Yes
180	Ms.	Pooja Choudhary	Swami Keshvanand Institute of Technology, Management & Gramothan	pooja.choudhary@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
181	Mr.	Rajiv Kumar	Swami Keshvanand Institute of Technology, Management & Gramothan	rkjiit@gmail.com	Yes	P	P	P	P	P	Yes	Yes
182	Prof.	Dr. R. K. Jain	Swami Keshvanand Institute of Technology, Management & Gramothan Swami Keshvanand institute or rechnology,	rkskit@gmail.com	Yes	P	P	P	P	A	Yes	Yes
183	Ms.	Archana Jain	Swami Keshvanand institute of Technology,	archanajain.rbt@gmail.com	Yes	P	A	P	P	P	Yes	Yes
184	Dr.	Anurag Sharma	Swami Keshvanand Institute of Technology, Management & Gramothan	anurag@skit.ac.in	Yes	P	P	P	P	P	Yes	Yes
185	Prof.	Satya N Vijayvergiya	Swami Keshvanand Institute of Technology, Management & Gramothan	satyan.vijay@skit.ac.in	Yes	P	P	A	P	P	Yes	Yes
186	Dr.	Satya Pal Nehra	Deenbandhu Chhotu Ram University of Science and Technology	spnehra.energy@dcrustm.org	No	P	P	P	P	P	Yes	Yes
187	Prof.	Mithilesh Kumar	Rajasthan Technical University Kota	mkumar@rtu.ac.in	Yes	P	P	P	P	A	Yes	Yes
188	Dr.	Neha Sharma	Vishwavidyalaya Engineering College, Lakhanpur	neha.phy@gmail.com	No	P	P	P	P	P	Yes	Yes

189 Mr. 190 Ms. 191 Dr. 192 Dr.	. Harshita Agarwal	• • •	chandraprakash.gupta@jaipur.manipal	No	P	P	P	P	P	Yes	Yes
191 Dr.		Jaipur Engineering College, Jaipur									
	Dheerai Bhardwai		agarwal91harshita@gmail.com	Yes	P	P	P	A	P	Yes	Yes
192 Dr.		Birla Institute of Technology, Mesra, Jaipur Campu	dbhardwaj@bitmesra.ac.in	No	P	P	P	P	P	Yes	Yes
	Minal Bafna	Agrawal P G College, Jaipur	drminalphysics@rediffmail.com	No	A	P	P	P	P	Yes	Yes
193 Dr.	Giriraj Kumar Prajapati	Sree Chaitanya Institute of Technological Science I	prajapatigiri38@gmail.com	No	P	P	P	P	P	Yes	Yes
194 Dr.	Radhika Gautamkumar	Shri Shivaji College of Arts Commerce and Science	radhikadeshmukh35@gmail.com	No	P	P	P	P	P	Yes	Yes
195 Prof	f. R. S. Meena	Rajasthan Technical University Kota	rsmeena@rtu.ac.in	Yes	P	A	P	P	P	Yes	Yes
196 Dr.	Vipin Kumar Jain	JK Lakshmipat University, Jaipur	vipinjain7678@gmail.com	No	P	P	P	P	P	Yes	Yes
197 Mr.	VIVEK BHOJAK	Anand International College of Engineering, Jaipu	viveksec@gmail.com	Yes	P	P	P	P	P	Yes	Yes
198 Ms.	Yazusha Sharma	J. E. C. R. C. Jaipur	yazushasharma@gmail.com	Yes	P	P	A	P	P	Yes	Yes
199 Dr.	Muhammad Bilal Hanif	Xi'an Jiaotong University	bilalhanuf46@mail.ru	No	P	P	P	P	P	Yes	Yes
200 Dr.	Reema Jain	Manipal University, Jaipur	reema.jain@jaipur.manipal.edu	No	P	P	P	P	P	Yes	Yes
201 Mr.	Vedant Sen	Engineering College Baran	vedantsen886@gmail.com	Yes	P	P	P	P	A	Yes	Yes
202 Dr.	Raghvendra Singh	PSIT, Kanpur	raghvendra.singh@psit.ac.in	No	A	P	P	P	P	Yes	Yes
203 Ms.	. Sana Qayyum	Institute of Chemistry University of the Punjab Lah	sanaqayyuml3@gmail.com	No	P	P	P	P	P	Yes	Yes
204 Mr.	. Pawan Kumar Jain	Swami Keshvanand Institute of Technology, Mana	pawan_hep@yahoo.com	Yes	P	A	P	P	P	Yes	Yes
205 Mr.	SUBHANI SHAIK	St.Marys Group of Institutions, Guntur	subhanishaik2613@gmail.com	No	P	P	P	P	P	Yes	Yes
206 Mr.	SOUMEN MAITY	BELDA COLLEGE (VIDYASAGAR UNIVERSIT	soumyaphysicsmaity@gmail.com	No	P	P	P	P	P	Yes	Yes
207 Mr.	Shubham Kumar	Gaya College of Engineering, Gaya	shubhamcai845449@gmail.com	No	P	P	P	A	P	Yes	Yes
208 Ms.	. Sheetal Vaishnav	Oriental Institute of Science and Technology	sheetal.vsh@gmail.com	No	P	P	P	P	P	Yes	Yes
209 Ms.	. Shashi Sharma	S.S.Jain Subodh PG Autonomous College Jaipur	sharmashashi85@gmail.com	No	A	P	P	P	P	Yes	Yes
210 Dr.	Yogesh Kumar Verma	LOVELY PROFESSIONAL UNIVERSITY PUNI	yogesh.25263@lpu.co.in	No	P	P	P	P	P	Yes	Yes
211 Dr.	Sharmila S	PSG Polytechnic College,Coimbatore	sgh.dec@psgpolytechnic.ac.in	No	P	P	P	P	P	Yes	Yes
212 Mr.	Saurabh Gupta	Bansal Institute of Science and Technology, Bhopa	guptasaurabhengg@gmail.com	No	P	P	P	A	P	Yes	Yes
213 Prof	f. G. D. Gupta		profgdgupta@gmail.com	No	P	P	P	P	P	Yes	Yes
214 Dr.	Sarfaraz Nawaz	SKIT Jaipur	eesarfaraz1983@gmail.com	Yes	A	P	P	P	P	Yes	Yes

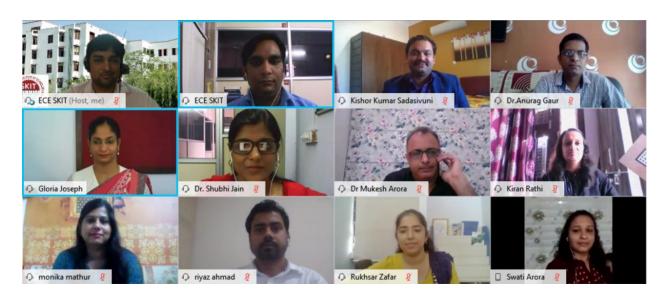
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Event Photographs

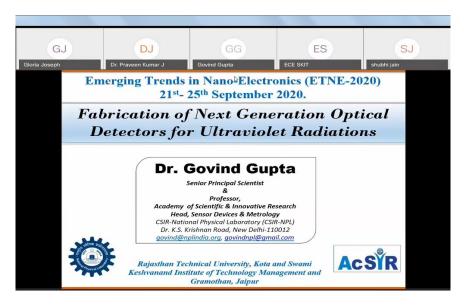


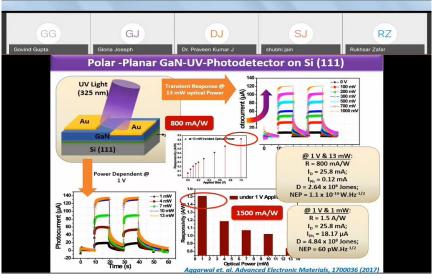
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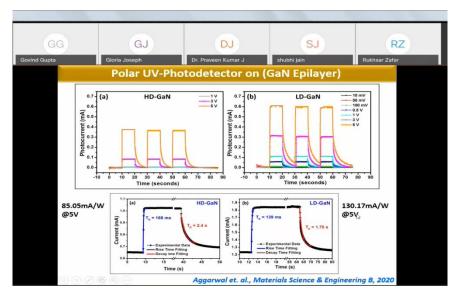


(Valedictory Session: 25.09.2020)

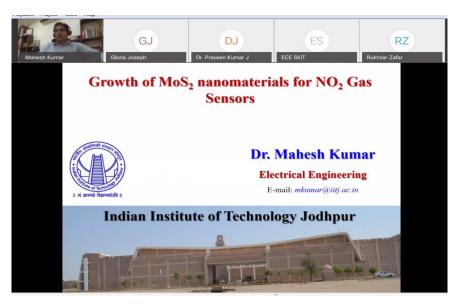
Dr. Govind, NPL New Delhi

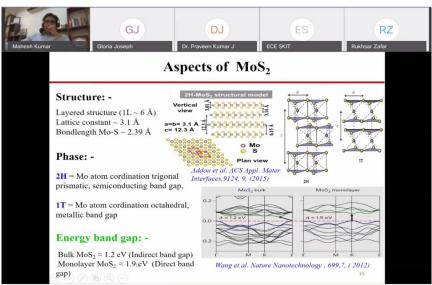


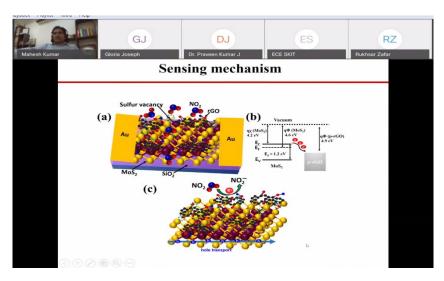




Dr. Mahesh Kumar, IIT Jodhpur







Dr. Aditya Jain, NUAA China







Dr. Mohan S. Mehata



Development and Applications of Nanosized Luminescent Materials

Dr. Mohan Singh Mehata Laser-Spectroscopy Laboratory, Department of Applied Physics Delhi Technological University

(Formerly Delhi College of Engineering) Bawana Road, Delhi-42 E-mail: msmehata@dtu.ac.in https://www.sites.google.com/site/mohansmehata

proteins or protein domains

ETNE-2020 (22.09.2020)

Why Photoluminescence/fluorescence? Fluorescence is very-3 sensitive! Work with subnano molar conc. Electric Femtomolar and single molecule can be Ions Field Fluorescence Viscosit Probe ature It provides information on the Polarity molecular environment It provides information on dynamic processes on the nanosecond time scale Fluorescence probes are essentially molecular stopwatches, which monitor dynamics events occurs during the excited state lifetime such as moment of



Dr. Anshu Sharma

Nanomaterials for Hydrogen Energy Applications



FDP on Emerging Trends in Nano-Electronics (ETNE-2020)

Dr. Anshu Sharma **Assistant Professor** Department of Physics School of Engineering & Technology Central University of Haryana, Mahendergarh

E-mail: anshushsharda@gmail.com; anshuphysics@cuh.ac.in Contact: +91-9871153252; 9413542121

22nd September, 2020

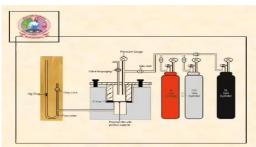


Fig. Gas Permeability set-up

The permeability constant has been calculated by Fick's formula-

Flux (J) X Membrane thickness (I) Pressure difference (△P)

The measurements were taken at room temperature and at 40 psi.

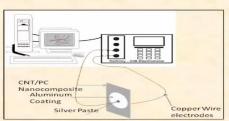
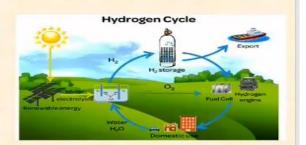


Fig. Keithley-238 high current source measuring unit

For I-V characteristics, electrode contacts have been made using silver paste.

CONCLUSION

- Sophisticated battery for energy storage.
- High potential as a relatively clean fuel of the future.
- ☑ Negative net energy i.e. it takes more energy to produce it than it contains.
- Very low calorific value.
- Requires larger and heavier fuel tanks.
- Extraction methods are extremely energy intensive (e.g., Electrolysis of water).



Dr. Praveen Kumar





Dr. Praveen Kumar School of Materials Science,

Indian Association for the Cultivation of Science, Kolkata

|Member| National Academy of Science India (NASI)

|Chair| Marie Curie Alumni Association, Indian Chapter (EU)

|Editorial Board Member| Materials Letters, Elsevier

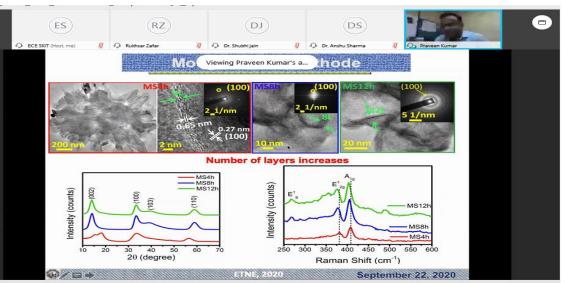
Email: praiitr@gmail.com, praveen.kumar@iacs.res.in



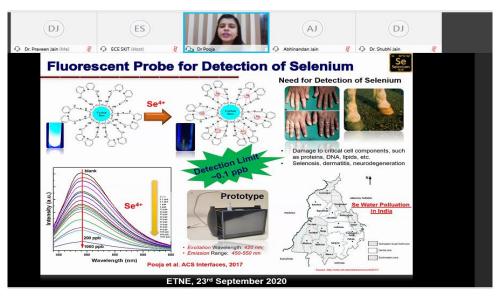


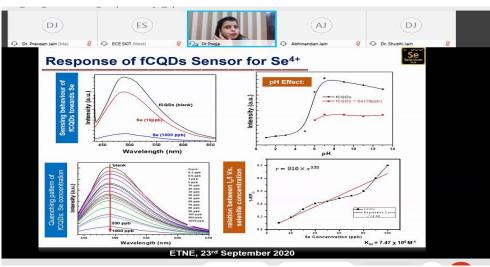


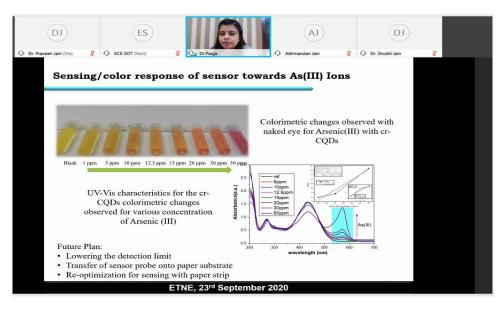




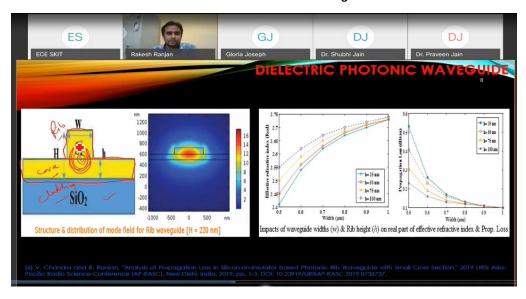
Dr. Pooja D. Sharma

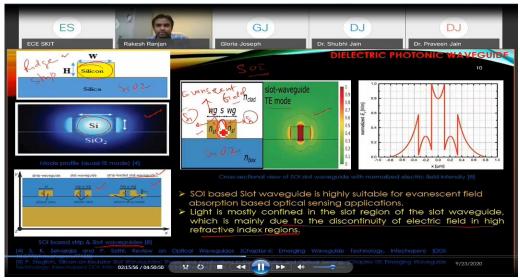


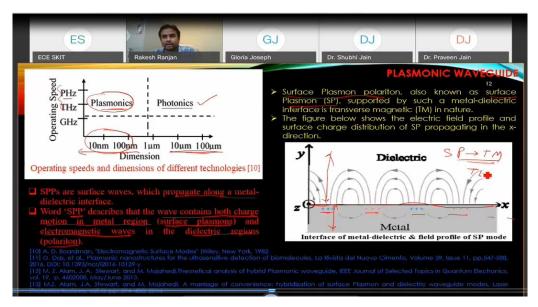




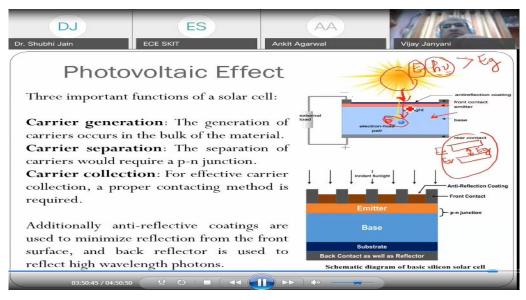
Dr. Rakesh Ranjan

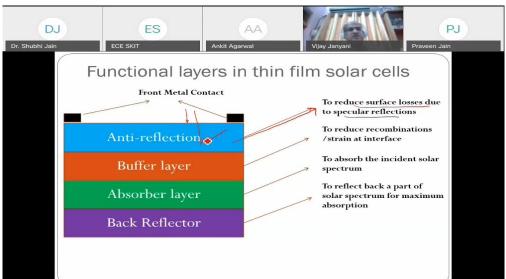


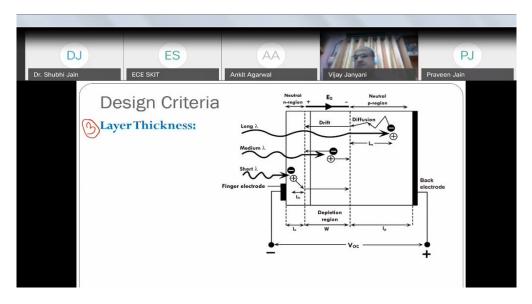




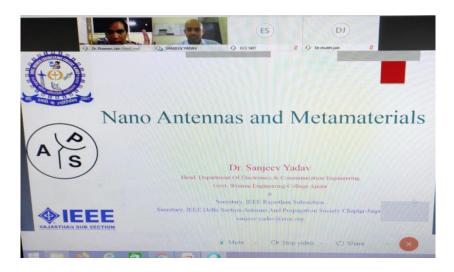
Dr. Vijay Janyani







Dr. Sanjeev Yadav



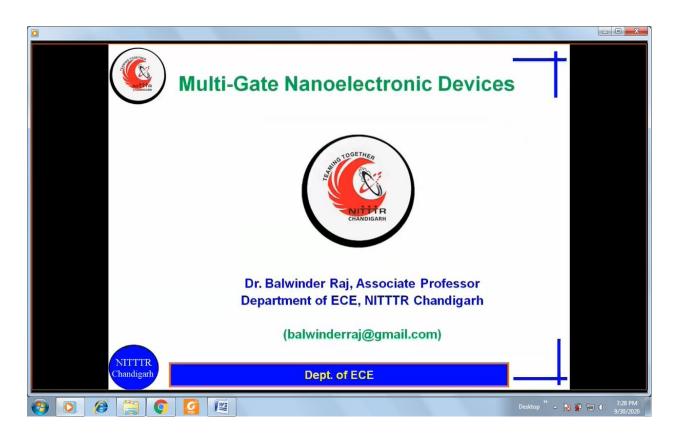
Optical Metamaterials

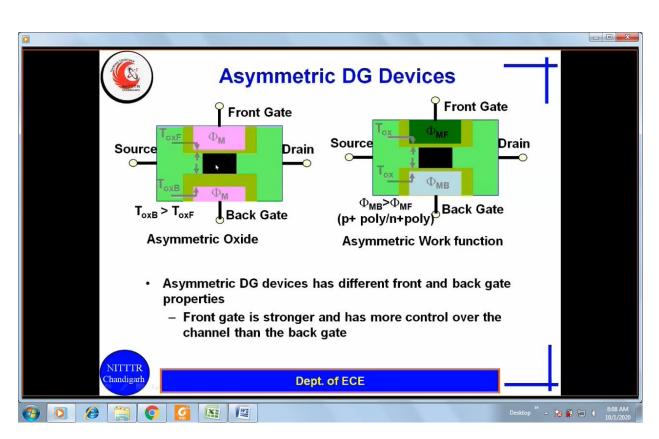
44

<u>Fabrication/Design Challenges for optical metamaterials:</u>

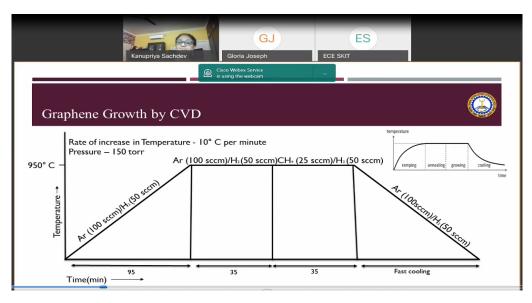
- ▶ Smaller wavelength = smaller features
 - Coupling between elements becomes more serious
- ▶ Metal's response to electromagnetic waves changes at higher frequencies.
 - Metal no longer behaves as perfect electrical conductors
 - (dielectric losses need to be taken into account)
 - A frequency is eventually reached where the energy of the oscillating, excited electrons becomes comparable to the electric field. When this occurs, the metal's response is known as plasmonic
 - Resistive and dielectric losses become much more significant

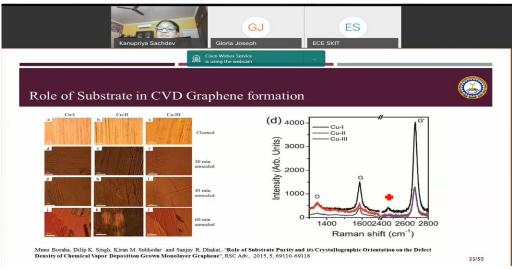
Dr. Balwinder Raj

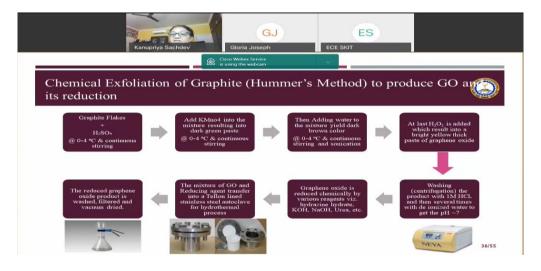




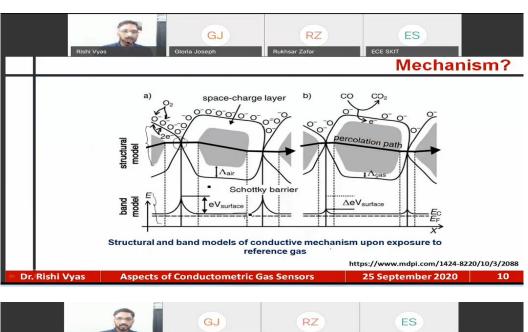
Dr. Kanupriya Sachdev

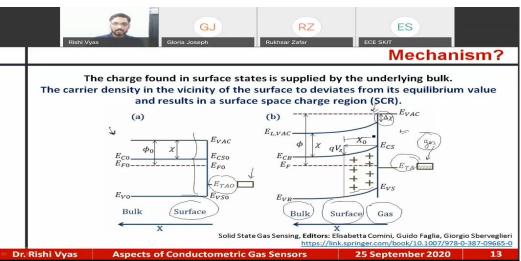


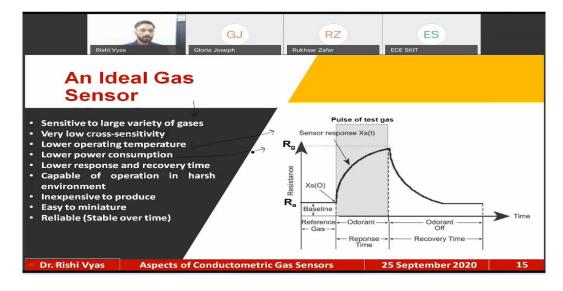




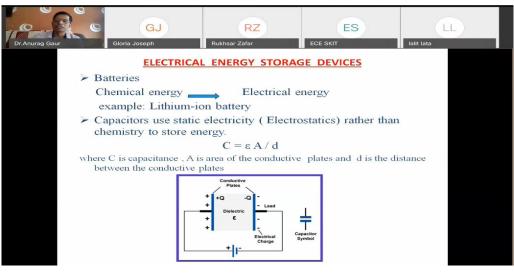
Dr. Rishi Vyas

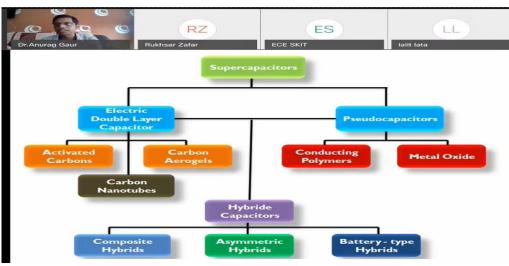


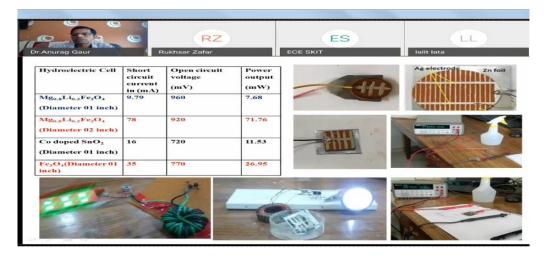




Dr. Anurag Gaur







Report of the Event

Faculty Development Program on *Emerging Trends in Nano Electronics* (ETNE-2020) is jointly organized by Rajasthan Technical University, Kota & Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 21th September 2020 to 25th September, 2020. This FDP was fully sponsored by RTU (ATU) under Technical Education Quality Improvement Program phase III (TEQIP-III) and conducted on Webex online platform.

Dr. M.L Meena and Mr. Riyaz Ahmad were the RTU Coordinators of this FDP. Dr. Praveen Kumar Jain, Dr. Mukesh Arora, Dr. Rukhsar Zafar and Dr. Shubhi Jain were the coordinators from the host institute.

Dr. Govind, Senior Principal Scientist & Professor (AcSIR), National Physical Laboratory, New Delhi was chief guest and Dr. Preetam Singh, Principle Scientist National Physical Laboratory New Delhi was guest of honour of the inaugural ceremony of this FDP. The FDP began with the welcome address by Prof. Mukesh Arora (Head, ECE SKIT). Prof. Praveen K. Jain (Dy. Head, ECE, SKIT) Highlighted the achievements of the Institute in Past one year as well as put lighting how the institute is motivating the faculty members in enhancing research and Development skills. Dr. Ruksaar Zafar (Jointly Coordinator of This FDP) conveyed the complete Schedule to be followed in five days of this FDP and share the details related to Expert area to all the resource person in FDP. Inauguration ceremony also witnesses the Dr. S. K. Bhatnagar, Dr. Shubhi Jain, Dr. presence of Monika Mathur, Dr. Swati Arora, Ms. Kiran Rathi, Ms. Gloria Joseph as a panelist members.

In the first session of the first day **Dr**. **Govind**, Senior Principal Scientist & Professor (AcSIR) delivered an expert talk on Fabrication of Next Generation Optical Detectors For

Ultraviolet Radiations. He discuss about optical detectors and the Fabrication process of these detectors. In the second session **Dr. Mahesh Kumar, Associate Professor, IIT Jodhpur** shared his experiences in the field of Growth of MoS₂ Nano Materials for NO₂ Gas sensor. In the subsequent session, **Dr Aditya Jain,** Nanjing University of Aeronautics & Astronautics, China, Deliver an Expert talk on Multi Layer Ceramic Capacitors for Energy Storage Applications.

Second day was started with an expert lecture of **Dr. Mohan S. Mahata,** Delhi Technological University, New Delhi. He enlightened the participants with the overview of development and applications of Nano sized Luminescent Materials. In Second session **Dr.Anshu Sharma** (**Central University of Haryana**) shared his experiences about Nano Materials for Hydrogen Energy Applications. Day two was ended with an expert lecture of Dr. Praveen Kumar Assistant Professor-IACS-Kolkata as well as chair of the Marie Curie Alumni Association (MCAA) Indian Chapter. He Delivered his talk on Material Science Innovation from Hydrogen Generation from Water.

Third day was started with an expert lecture of **Dr. Pooja Sharma, Senior Scientist CSIR-CSIO**, **Chandigarh.** She delivered a talk on Carbon Quantum Dots: A Promising Platform for water pollutants monitoring. The Next lecture is followed **Dr. Rakesh Ranjan** (**NIT Patna**). He shared his knowledge on **Nano** –**Photonics Waveguides and Its Applications.** The day third was ended with an expert lecture of **Professor Vijay Janyani** (**MNIT**, **Jaipur**) shared his Experience on Photonics Crystal Assisted Solar cells.

Day 4 started with the session of – **Dr. Sanjeev Yadav (Govt Engineering College, Ajmer).** He enlightens with the knowledge of Nano **Antennas and Metamaterials.** In next session **Dr. Anurag Gaur, NIT Kurukshetra** shared his

experience with the participants on **Spintronics based Magneto resistive and Multi ferroic Materials.** In subsequent to that, **Dr. Balwinder Raj**, Associate Professor, (NITTTR Chandigarh) delivered a talk on Multi Gate Nano-Electronics Devices.

Day 5 was opened with the session of Carbon Nano Materials and their Applications delivered by **Dr. Kanupriya Sachdev** (**Professor, MNIT Jaipur**). Next Talk was by **Dr. Rishi Vyas** (**Associate Professor, SKIT Jaipur**). **He presented Aspects of Conduct metric Gas Sensors.** Day 5 is ended with an expert lecture of **Dr. Anurag Gaur** (**NIT kurukshetra**) shared his experience in the field of Super Capacitors i.e the future energy storage devices. The discussed areas are of great benefit for the participants as they are enlightened with the most widely used advance tools, strategies and techniques being used in Nano Electronics. The assignment, feedback was collected from the participants

The assignment, feedback was collected from the participants in valedictory session.

Media Coverage

Print Media News

FACULTY DEVELOPMENT PROGRAM

CITY FIRST

he one-week Faculty development program (FDP) on Emerging Trends in Nanoelectronics (ETNE 2020) witnessed its inaugural ceremony at Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur on Monday, 21 September. This FDP is sponsored by RTU (ATU) TEQIP III, RTU Kota and is jointly organized by Rajasthan Technical University (RTU) Kota and Swami keshvanand Institute of Technology Management and Gramothan (SKIT), Jaipur. The program was graced by Dr Govind, Principal Scientist and Professor (AcSIR), NPL New Delhi and Dr Preetam Singh, Principal Scientist NPL New



Delhi as chief guest and Guest of honor of ceremony respectively. Dr ML Meena and Riyaz Ahmad, RTU Kota were the RTU coordinators of this FDP.

Professor Mukesh Arora, Head, ECE department SKIT welcomed the guests and inspired the gathering with his words of motivation. Prof. PK Jain, Professor & Dy. Head, ECE Department SKIT highlighted the achievements of the Institute in past one year and also put light on how the institute is motivating the faculty members in enhancing re-

search and development skills. Dr Rukhsar Zafar, joint coordinator (ETNE 2020) conveyed the complete schedule to be followed in the five-days of this FDP and also shared the details related to expert areas of all the resource persons of this FDP.

cityfirst@firstindia.co.in

City First: 22.09.2020

'इमर्जिंग ट्रेंड्स इन नैनो इलेक्ट्रॉनिक्स' विषय पर पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम का हुआ समापन



जयपुर। राजस्थान तकनीकी विश्वविद्यालय (आरटीयु) कोटा और स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट और ग्रामोधन (एसकेआईटी), जयपुर द्वारा संयुक्त रूप से आयोजित और आरटीयू (एटीयु) टीईक्युआईपी -III द्वारा प्रायोजित 'इमर्जिंग टेंड्स इन नैनो इलेक्ट्रॉनिक्स' विषय पर पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम का समापन शुक्रवार (25 सितंबर, 2020) को हुआ। इस एफडीपी में आईआईटी, एनआईटी, सीएसआइआर लैब तथा एनआइटीटीटीआर के प्रख्यात प्रोफेसर्स ने नैनो इलेक्ट्रॉनिक्स विषय के विभिन्न आयामी पर विस्तृत चर्चा की, जो पार्टिसिपेंट्स के लिए बहुत ही ज्ञानवर्धक रही। इस एफडीपी के पहले चार दिन एक्सपट्स ने नेक्स्ट जनरेशन ऑप्टिकल डिटेकटर फोर अल्ट्रावॉयलेट रेडिएशन, मल्टीलेयर सेरेमिक कैपेसिटर, नैनो मेटेरियल फॉर हाइड्रोजन एनजीं एप्लीकेशन , क्रांटम डॉट्स फोर वॉटर पॉल्युशन मॉनिटरिंग, स्पिट्रॉनिक्स, फोटोनिक वेवगाइड्स एवं मल्टिगेट नैनो इलेक्ट्रॉनिक्स डिवाइसेज के तकनीकी पहलुओं एवं एप्लीकेशन के बारे में विस्तार से चर्चा की। इस कार्यक्रम के ऑतम दिन डॉक्टर कनुप्रिया सचदेव (प्रोफेसर एमएनआईटी,जयपुर) ने कार्बन नैनोमेटेरियलस तथा इन मैटेरियलस की एप्लीकेशन एवं भविष्य की संभावनाओं के बारे में बताया। डॉ. ऋषि व्यास (एसोसिएट प्रोफेसर, एसके आईटी जयपुर) ने कंडक्टोमेट्रिक गैस सेंसर एवं इन सेंसर की स्पेसिफिकेशंस के बारे में चर्चा की। इसी ऋम में डॉ. अनुराग गौर (एनआईटी, कुरुक्षेत्र) ने सुपर कैपेसिटर अथवा हाइब्रिड कैपेसिटर संबंधित टेक्नोलॉजी के बारे में बताया एवं आने वाले भविष्य में वॉटर स्प्लिटिंग आधारित इलेक्ट्रिसटी जनरेशन जैसे ग्रीन एनर्जी सोसं की संभावनाओं एवं उपयोगिताओं के बारे में बताया इस एकडीपी प्रोग्राम के आरटीय् कोर्डिनेटर डॉ एम .एल. मीणा एवं रियाज अहमद थे।

इस एफडीपी के समापन समारोह में इलेक्ट्रॉनिक्स विभाग के विभागाध्यक्ष डॉ. मुकेश अरोड़ा ने सभी प्रतिभागियों एवं मुख्य अतिथियों का स्वागत किया। डॉ. शुभी जैन (असिस्टेंट प्रोफेसर, एसकेआईटी जयपुर) ने एफडीपी की विस्तृत रिपोर्ट प्रस्तुत की। इसी क्रम में समापन कार्यक्रम के मुख्य अतिथि डॉक्टर किशोर कुमार सद्यासिवान (सेंटर फॉर एडवांस्ड मैटेरियल्स, कतर यूनिवसिंटी एवं मैनेजिंग एडिटर जनरल ऑफ इमजेंट मैटेरियल्स, स्प्रिंगर) ने नैनोइलेक्ट्रॉनिक्स की आपार संभावनाओं एवं भविष्य की उपयोगिताओं के बारे में चर्चा की। इस समापन समारोह के अंत में इस एफडीपी के कॉडिनेटर डॉ. प्रवीण जैन (प्रोफेसर, एसकेआईटी जवपुर) ने सभी पार्टिसिपेंट्स एवं अतिथियों को धन्यवाद

दिया।

Poster





RTU(ATU) TEQIP-III Sponsored

Faculty Development Program

on

"Emerging Trends in Nano Electronics (ETNE-2020)" September 21-25, 2020

Day-1: 21.09.2020 (Monday)



Dr. Govind Senior Principal Scientist National Physical Laboratory, New Delhi



Dr. Mahesh Kumar Associate Professor IIT, Jodhpur



Dr. Aditya Jain Institute of Material Science and Engineering NUAA, China

Day-2: 22.09.2020 (Tuesday)



Dr. Mohan S. Mahata DTU, New Delhi



Dr. Anshu Singh Central University of Haryana



Dr. Praveen Kumai

Day-3: 23.09.2020 (Wednesday)



Dr. Pooja D. Senior Scientist CSIR-CSIO, Chandigarh



Dr. Rakesh Ranjan NIT, Patna



Prof. Vijay Janyani MNIT Jaipur

Day-4: 24.09.2020 (Thrusday)



Dr. Sanjeev Yadav GEC. Aimer



Dr. Anurag Gaur NIT, Kurukshetra



Dr. Balwinder Raj

Day-5: 25.09.2020 (Friday)



Prof. Kanupriya Sachdeva MNIT, Jaipur



Dr. Rishi Vyas SKIT, Jaipur



Dr. Anurag Gaur



Department of Electronics and Communication Engineering Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur