



**TEQIP-III SPONSORED
FACULTY DEVELOPMENT PROGRAM**



ON

**"NANOTECHNOLOGY BASED GREEN ENERGY SOLUTION FOR
SOLAR CELLS (NGESS-2020)"**

SEPTEMBER 10-14, 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**

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**A
Report
on
Five Days
Faculty Development Program
Nanotechnology Based Green Energy Solution
for Solar Cells
NGESS-2020
10th – 14th September 2020**

Sponsored by TEQIP III



RTU Event Coordinator:

Dr. Deepak Bhatia

Host Institute Coordinators:

Dr. Swati Arora

Mr. Ravi Kumar Jangir

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

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

Date: 05/08/20

Hon'ble Vice-Chancellor is pleased to approve the FDP program to be conducted in online mode at the affiliated college under subhead 1.2.2.4 of RTU (ATU) TEQIP-III Action plan as per the mentioned Schedule.



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 continuation of office order RTU/TEQIP-III/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.

RAJASTHAN TECHNICAL UNIVERSITY		Rawatbhata Road, Akelgarh, Kota-324 010		TEQIP III-RTU(ATU) OFFICE	
		Phone: 0744-2473060 Fax: 2473002 Email: rtuteqip@rtu.ac.in		DATE:- 05/08/20	
No. RTU/TEQIP-III/F(56)/2020-21/ 4892-97					
	GRAMOTHAN				
54	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN	Machine Learning and Smart Electronic System	3	Mr. Riyaz Ahmad	3-5 Sept 2020
55	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN	Emerging Trends in Organic Electronics	3	Dr. Shobi bagga	27-29 July 2020
56	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN	Nanotechnology Based Green Energy Solution for Solar cells	5	Dr Deepak Bhatia	10-14/09/2020
57	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN	Green Energy: The Energy of Future	5	Dr. Munish Bindal	7-11 Sept 2020
58	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN	Manufacturing and Recyclization of Engineering Materials- Cement, Glass and Ceramics- (Self-reliant India)	5	Mr. Shanti Lal Meena	10-14 Aug 2020

Objective of NGESS-2020

To provide Nano-technology based solutions for Solar cells and to study reliability implications and intricate modeling analysis of such devices for rapid commercialization. The aim of this FDP is to provide an exposure to both basics and recent advances in Nano-technology to the teaching and research communities.

- To introduce basics and recent advances in Nanotechnology
- Establishing the basic concept of Overview of Dye-Sensitized Solar Cells.
- Understanding the Basic concepts and Process of
- Micro/Nano fabrication techniques.
- Learning the various aspects of Solar Cell using Green Energy Solution.
- Solar cell using photonic
- Inorganic and Hybrid Solar Cell

FDP Program

- The program is split into various lectures.
- Assignment for enhanced learning.
- Interaction and learning with experts from academia.
- Certificate to the participants by TEQIP III and RTU Kota.

Content of the FDP

- Electromagnetic Energy: New Ideas, Harvesting and Power Transfer: An Overview and Futuristic
- Micro/Nano fabrication techniques: Basic concepts and Process
- Overview of Dye-Sensitized Solar Cells
- A point-of-care platform for preventive healthcare devices based on Micro nano technologies
- RF/Microwave Metamaterials
- Ceramic Nanomaterials
- Plasmonics enhanced Solar Cell
- Metamaterial Absorbers
- Development of CNTs based sensing Platform
- Inorganic & Hybrid Solar Cell
- Nanocrystalline based Solar Cells

Expert Details

1. Dr. Chinmoy Saha

Associate Professor,
Indian Institute of Space Science and Technology, Kerala
Email id: chinmoy.rpe@gmail.com

2. Dr. Debdeep Sarkar

Assistant Professor
Indian Institute of Science, Bangalore
Email id: debdeep1989@gmail.com

3. Dr. Prabhat Dwivedi

Centre for Nanosciences,
IIT Kanpur
Email id: prabhatd@iitk.ac.in

4. Prof. Parag Bhargava

Metallurgical Engineering and Materials Science,
IIT Bombay
Email id: pbmatsc@gmail.com

5. Dr. Raghvendra Kumar Chaudhary

Assistant Professor
Department of Electronics Engineering,
IIT, Dhanbad
Email id: raghvendra@iitism.ac.in

6. 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

7. Dr. Pankaj Agrawal

Principal Scientist, Nano Biosensors group
Ceeri, Pilani
Email id: pankaj@ceeri.res.in

8. Dr. Praveen Kumar Jain

Professor,
Department of Electronics and Communication Engineering
Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur
Email id: pkjain@skit.ac.in

9. Dr. Amartya Chowdhury

Assistant Professor,
Centre for Energy and Environment,
MNIT-Jaipur
Email id: amartya.cee@mnit.ac.in

Event Coordinator

Dr. Deepak Bhatia

(RTU Event Coordinator)

Assistant Professor

Electronics and Communication Engineering Department

University Departments, Rajasthan Technical University, Kota

Host Institute Co-Ordinator Details

1. Dr. Swati Arora

Associate Professor

Department of Electronics and Communication Engineering

Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

Email id: aroraswati14@gmail.com

Phone no: +91-9982036054

2. Mr. Ravi Kumar Jangir

Assistant Professor

Department of Electronics and Communication Engineering

Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

Email id: jangir.rj89@gmail.com

Phone no: +91-9649331099

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
SWAMI KESHVANAND INSTITUTE of TECHNOLOGY,
MANAGEMENT & GRAMOTHAN, JAIPUR
TEQIP-III RTU (ATU) SPONSORED



Five days Faculty Development Programme

on

*Nanotechnology Based Green Energy
 Solution for Solar Cells*

(10/09/2020 to 14/09/2020)

VENUE: SKIT M& G, Jaipur

TENTATIVE PROGRAMME

DAY/ DATE	SESSION I	SESSION II
THURSDAY 10-09-2020	<p style="text-align: center;">Online Inauguration (09:30 AM -10:00 AM)</p> <p>Electromagnetic Energy: New Ideas, Harvesting and Power Transfer: An Overview and Futuristic Concepts (10:00 AM – 12:00 PM)</p> <p style="text-align: center;">Expert – Dr. Chinmoy Saha IISST,Kerala</p> <p style="text-align: center;">Expert (Co-Speaker)- Dr. Debdeep Sarkar IISc Bangalore</p>	<p>Micro/Nano fabrication techniques: Basic concepts and Process (12:30 PM – 02:00 PM)</p> <p style="text-align: center;">Expert – Dr. Prabhat Dwivedi IIT Kanpur</p>
FRIDAY 11-09-2020	<p>Overview of Di-Sensitized Solar Cells (10:00 AM – 11:30 AM)</p> <p style="text-align: center;">Expert – Prof. Parag Bhargava IIT Bombay</p>	<p>A point-of-care platform for preventive healthcare devices based on Micro-nano technologies (12:30 PM – 02:00 PM)</p> <p style="text-align: center;">Expert – Dr. Prabhat Dwivedi IIT Kanpur</p>

SATURDAY 12-09-2020	<p style="text-align: center;">RF/Microwave Metamaterials (10:00 AM – 11:30 AM)</p> <p style="text-align: center;">Expert – Dr. Raghendra Kumar Chaudhary IIT Dhanbad</p>	<p style="text-align: center;">Ceramic Nanomaterials (12:30 PM – 02:00 PM)</p> <p style="text-align: center;">Expert – Prof. Parag Bhargava IIT Bombay</p>	<p style="text-align: center;">Plasmonics enhanced Solar Cell (2:30 PM – 3:30 PM)</p> <p style="text-align: center;">Expert –Dr. Rukhsar Zafar SKIT Jaipur</p>	
SUNDAY 13-09-2020	<p style="text-align: center;">Metamaterial Absorbers (10:00 AM – 11:30 AM)</p> <p style="text-align: center;">Expert – Dr. Raghendra Kumar Chaudhary IIT Dhanbad</p>	<p style="text-align: center;">Development of CNTs based sensing Platform (12:30 PM – 02:00 PM)</p> <p style="text-align: center;">Expert – Dr. Pankaj Agrawal Ceeri, Pilani</p>		
MONDAY 14-09-2020	<p style="text-align: center;">Inorganic & Hybrid Solar Cell (10:30 PM – 11:30 PM)</p> <p style="text-align: center;">Expert -Dr. Praveen Kumar Jain SKIT Jaipur</p>	<p style="text-align: center;">Nanocrystalline based Solar Cells (12:00 PM – 1:30 PM)</p> <p style="text-align: center;">Expert -Dr. Amartya Chowdhury MNIT Jaipur</p>	<p style="text-align: center;">Feedback & Valedictory Session (02:00 PM – 03:00 PM)</p> <p style="text-align: center;">All Resource Persons, Dignitaries, Coordinators, Faculty Members and Participants</p>	

Dr. Deepak Bhatia
 RTU Coordinator

Dr. Swati Arora
 Mr. Ravi Kumar Jangir
 (SKIT Coordinator)

Signature & seal
 Head of Institute

PRINCIPAL
 Swami Keshvanand Institute of
 Technology, Management & Gramothan
 Ramnagar (Jagstura), JAIPUR-302017

List of Participants

S.No.	Salute	Participant Name	Designation	Department	Institute
1	Mr.	A.Anwar Basha	Assista r	EEE	Aalim muhammed saleg college of engineering
2	Mr.	A.Balamurugan	Assistant Professor	EEE	VINAYAKA MISSIONS KIRUPANADA VARIYAR ENGINEERING COLLEGE
3	Ms.	A.C.Jinisha	Assistant professor	ECE	SXCCE
4	Mr.	AAMIR KHAN	assistant professor	computer science	Glocal university
5	Mr.	Abdul Naim Khan	Ph.D. Research Scholar	Electronics & Communication Engineering	The LNM Institute of Information Technology, Jaipur
6	Ms.	Abha Sharma	Assistant Professor	Electronics & Communications	Arya College of Engineering and Research Centre
7	Mr.	Abhinandan Jain	Assistant Professor	ECE	SKIT,JAIPUR
8	Mr.	ABILASH S	Assistant Professor	Mechanical Engineering	St. Peter's College of Engineering and Technology
9	Mr.	Abinash Mishra	Lecturer	ECE	Government polytechnic Dhenkanal
10	Ms.	Abreeque Faryal	Lecturer	Computer Science	ILMA University
11	Dr.	Absa S	Assistant Professor	ECE	St.Xavier's Catholic College of Engineering
12	Mr.	Akhil misra	Student	Electronics and communication	Hbtu kanpur
13	Ms.	Amandeep Kaur	Assistant Professor	Computer Science	Sri Guru Granth Sahib World University
14	Mr.	Amit Kumar Bansal	Asso.Prof.	ME	SKIT
15	Mr.	AMIT SHARMA	Associate Professor	ECE	Arya College Of Engineering & I.T.
16	Mr.	ANAND S	LECTURER	MECHANICAL ENGINEERING	IRT POLYTECHNIC COLLEGE, CHROMEPET,CHENNAI
17	Mr.	Ananta Kumar Sahoo	Assistant professor	Electrical Engineering	Synergy institute of engineering and technology
18	Ms.	Anju Rajput	Assistant Professor	Electronics and communication	Jaipur Engineering College and Research Center
19	Mr.	Ankit Agarwal	Assistant Professor	Electronics and Communication	Swami Keshvanand Institute of Technology, Management & Gramothan
20	Mr.	Ankit Garg	Assistant professor	Computer science and engineering	Amity university haryana
21	Ms.	ANU SAYAL	ASSISTANT PROFESSOR	MANAGEMEN T	UTTARANCHAL UNIVERSITY
22	Ms.	Anuradha	Assistant professor	ECE	agra college
23	Prof.	Archana	Saxena	Chemistry	Swami Keshvanand Institute of Technology Management and Gramothan
24	Mr.	Arun Beniwal	Assistant Professor	Mechanical Engineering	SKIT

25	Mr.	Arun Kandukuri	Assistant Professor	Mechanical Engineering	Sri Venkateswara college of Engineering
26	Dr.	Arun Kumar Sivaraman	Assistant Professor (Sr. Grade)	Computer Science and Engineering	VIT University
27	Mr.	Arvind Sharma	Assistant Professor	Computer Science and Engineering	Modern Institute of Technology and Research Centre
28	Mr.	Ashish Kulshrestha	Assistant Professor	Electronics & Communication Engineering	JECRC
29	Mr.	Atul Soni	Assistant Professor	Electrical Engineering	Arya Institute of Engineering and Technology
30	Mr.	Bablu Kumar Singh	Assistant Professor	Electronics and Communication	MBM Engineering College, JNVU Jodhpur
31	Ms.	BAIJAYANTI PANDA	Manager	Electrical engineering	Konark institute of science and technology
32	Mr.	Bikasha kumar Garnayak	Assistant professor	Electrical engineering	IGIT SARANG
33	Ms.	BINODINEE SWAIN	Assistant professor	Electrical Engineering	Indira Gandhi institute of Technology,sarang
34	Ms.	Brindha S	Assistant Professor	Business Administration	Government Arts and Science College Sivakasi West
35	Ms.	C.SHEEJA HEROBIN RANI	Assistant Professor	ECE	St.Xavier's Catholic College of Engineering
36	Mr.	CHANDAN KUMAR BARICK	DIRECTOR	ELECTRICAL ENGINEERING	GENESIS ENGINEERING
37	Ms.	Chandra chaturvedani	Student	Et&t	Kalinga university
38	Mr.	Chandra Mohan Kumar	Assistant professor	Mechanical	SKIT Jaipur
39	Mr.	Chandra Prakash Gupta	Assistant professor	ECE	Manipal university Jaipur
40	Prof.	Chetan Khemraj	Professor	Electrical engineering	Sri Balaji college of engineering and technology Jaipur
41	Prof.	Chetan Khemraj	Professor	Electrical engineer ing	Sri Balaji college of engineering and technology Jaipur
42	Mr.	Chinmaya Ranjan Pradhan	Assistant Professor	EEE	NM Institute Of Engineering and Technology
43	Ms.	Cola Pushpanjali	Senior Lecturet	Biochemistry	SRM Dental College
44	Dr.	D vijaya kumar	Professor	EEE	Aditya Institute of Techonlogy and Management Tekkali
45	Dr.	D.KALAIVANI	Professor and Head	Computer Technology	Dr.SNS Rajalakshmi College of Arts and Science
46	Mr.	Debswarup Rath	Research Scholar	Electrical Engineering	Siksha'O'Anusandhan University

47	Mr.	Deepak	Research Scholar	Computer Science and Engineering	UTTARAKHAND TECHNICAL UNIVERSITY DEHRADUN
48	Mr.	Deepak bairagi	Hindu	Electrical engineering	Gyan ganga institute of technology and science jabalpur
49	Mr.	Deepak Saini	assistant professor	Electrical	SKIT jaipur
50	Mr.	Deepak Shankhala	Asst.professor	ECE	JECRC
51	Mr.	Dinesh vishwakarma	Yes	Mechanical engineering	RITM LUCKNOW
52	Mr.	Durgesh Kumar Mishra	PhD Scholar	Mechanical Engineering	NIT Silchar
53	Ms.	E.Kalpana	Lecturer	ECE	P.T.LEE CHENGALVARAYA NAICKER POLYTECHNIC COLLEGE
54	Mr.	E.Udayakumar	Assistant Professor	ECE	KIT-Kalaignarkarunanidhi Institute of Technology, Coimbatore
55	Mr.	G.Boopathi Raja	Assistant Professor	ECE	Velalar College of Engineering and Technology
56	Mr.	GAJULA SRI VENKATA RAMA ABHISHEK	Assistant professor	Computer Science And Engineering	BHIMAVARAM INSTITUTE OF ENGINEERING AND TECHNOLOGY
57	Mr.	Ganesh Naik S	Lecturer	Electronic and Communication Engg	NRAM POLYTECHNIC NITTE
58	Dr.	Gaurav Dhiman	Assistant Professor	Computer Science	Government Bikram College of Commerce
59	Mr.	Girish Parihar	HOD	Electrical	POLYSKILL Pvt ITI
60	Ms.	Gloria Joseph	Assistant professor	EC	SKIT
61	Mr.	Gururaj Rawoor	Assistant Professor	Electrical and Electronics Engineering	Veerappa Nisty Engineering College Shorapur
62	Dr.	H. JOSEPH PRABHAKAR WILLIAMS	PROFESSOR & HEAD/EEE	EEE	SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD -501510
63	Mr.	Harshal Nigam	Assistant Professor	ECE	SKIT Jaipur
64	Ms.	Himani Pandey	Assistant Professor	AS&H	ITM Universe, Vadodara
65	Mr.	J. MOHAMMED ILIYAS	Assistant professor	ELECTRICAL AND ELECTRONICS ENGINEERING	AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
66	Dr.	Jani dilip batukray	Associate professor	Mechanical	Government engineering college Dahod
67	Mr.	JAYANTA KUMAR SAHU	ASSISTANT PROFESSOR	EEE	IIIT BHUBANESWAR
68	Dr.	Jaykumar Shantilal Patel	Professor	MCA	Chaudhari Technical Institute - Gandhinagar
69	Mr.	Jayprakash Vijay	Accociate Professor	ECE	SKIT

70	Mr.	JITENDER KUMAR	Assistant Professor	Computer Science	B K BIRLA INSTITUTE OF ENGINEERING AND TECHNOLOGY
71	Prof.	JOHN CHEMBUKKAVU	HOD	EEE	IES COLLEGE OF ENGINEERING
72	Mr.	Kalyan Kumar Jena	Assistant Professor	CSE	PMEC, Berhampur
73	Mr.	Kamal Kulshreshtha	Associate Professor	Computer Application	Modi Institute of Management & Technology
74	Mr.	KIRAN BABAJIRAO SALUNKE	Lecturer in mechanical engineering department	Mechanical engineering department	Government polytechnic Thane
75	Ms.	Kiran Rathi	Associate professor	ECE	SKIT
76	Prof.	Krishna Chandra Roy	Professor	Electrical Engineering	Kautilya institute of technology and engineering
77	Dr.	Krishnamoorthy R	Assistant professor	ECE	Sree Sastha Institute of Engineering and Technology
78	Mr.	KRUSHNA CHANDRA SAHOO	ASSISTANT PROFESSOR	ELECTRICAL ENGINEERING	DRIEMS AUTONOMOUS ENGINEERING COLLEGE
79	Mr.	Kuldip Raj Sharma	Head of Deptt.	Mech.Engg.	YCET
80	Dr.	L.ARUNRAJA	Assistant Professor	Electronics and Communication	K.S.Rangasamy College of Arts and Science (Autonomous)
81	Mr.	Lalit kumar lata	Assistant professor	Ece	Skit jaipur
82	Dr.	Lokesh Tharani	Associate Professor	Electronics Engineering	Rajasthan Technical University, Kota
83	Mr.	M.Sathish	m.sathish@aalimec.ac.in	ECE	Aalim Muhammed Salegh College of Engineering
84	Mr.	Mahesh Kumar rathodiya	Senior technical assistant	Electrical	Skit
85	Ms.	MALATHI L	ASSISTANT PROFESSOR	ECE	SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY
86	Ms.	Mamta	Assistant Professor	ECE	G. B.Pant Engg. College,
87	Ms.	Mamta Jain	Associate Professor	ECE	SKIT
88	Ms.	MANGA V	LECTURER	COMPUTER ENGINEERING	IRT POLYTECHNIC COLLEGE,CHROME PET,CH ENNAI-600044
89	Mr.	MANIKANDAN R	Assistant Professor	Mechanical Engineering	AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
90	Ms.	Manju Choudhary	Associate Professor	ECE	Swami Keshvanand Institute of Technology, Management & Gramathan, Jaipur
91	Mr.	MANOHAR JAYAMPU	Associate Professor	ECE	AUDISANKARA INSTITUTE OF TECHNOLOGY GUDUR
92	Mr.	Manoj Kumar	Assistant professor	Mechanical	Skit Jaipur
93	Mr.	MANOJ KUMAR MOHARANA	Assistant Professor	Electrical Engineering	Indira Gandhi Institute of Technology Sarang

94	Mr.	manoj kumar soni	assistant professor	computer application	modi MIMT College
95	Ms.	MARY JOSEPHINE CAROLINE.R	HOD/ECE	ELECTRONICS AND COMMUNICATION	IRT POLYTECHNIC COLLEGE , Chromepet, Chennai-44
96	Prof.	MARY VASANTHI S	Assistant Professor	ECE	St.Xavier's Catholic College of Engineering
97	Mr.	Mohammed Sarfaraz	Assistant professor	Mechanical engineering	Engineering College Jhalawar Rajasthan
98	Mr.	Mohd Azam	assistant professor	civil engineering	Glocal university
99	Ms.	MONIKA SHEKHAWAT	Asst Prof	Electronics and Communication	BK BIRLA INSTITUTE OF ENGINEERING AND TECHNOLOGY PILANI
100	Mr.	N. PURUSHOTHAMAN	AP	EEE	Krishnasamy College of Engineering and Technology, Cuddalore
101	Ms.	N.Radha	Assistant Professor	CSE	Dhirajlal Ganthi college of Technollogy
102	Ms.	N.THILLAINAYAGI	Lab Instructor	Electrical and Electronics Engineering	Mohamed Sathak Engineering College
103	Ms.	Namrata Joshi	Assistant professor	ECE	SKIT
104	Mr.	Naresh Kumar	Assistant professor	Electronics and Communication	JECRC COLLEGE
105	Mr.	Narottam Maharana	Asst.Prof.	Electrical Engineering	Indira Gandhi Institute of Technology,Sarang,Odisha
106	Mr.	Naveen Rooba Doss M	Assistant professor	Nanotechnology Division, Department of ECE	Periyar Maniammai Institute of Science and Technology Thanjavur
107	Dr.	Nayani Kishore Nath	Scientist-G and Project Director-VEDA	Management	Advanced Systems Laboratory
108	Mr.	Neeraj Garg	Assistant Professor	CSE	SKIT Jaipur Rajasthan
109	Mr.	Neeraj jain	Assistant professor	Ece	SKIT, jaipur
110	Dr.	Nidhi Sindhwani	Assistant professor	Ece	Amity school of engineering and technology delhi ncr
111	Ms.	Nidhi Varshney Gupta	Assistant professor	Applied sciences	JIET, JODHPUR
112	Mr.	Nitin Kumar Suyan	Assistant Professor	ECE	Engineering college jhalawar
113	Ms.	P. Venkateshwari	Assistant professor	Electronics and communication engineering	GB PANT GOVT.ENGINEERING COLLEGE
114	Mr.	Pabitra Kumar Nayak	Assistant professor	Electrical Engineering	Synergy Institute of Engineering & Technology, Dhenkanal

115	Mr.	Pallav Rawal	Assistant Professor	Electronics and Communication	Swami Keshavanand Institute of Technology, Management and Gramothan
116	Ms.	Pamela saha mondal	Student	Radiophysics and electronics	Institute of Radiophysics and electronics, university of calcutta
117	Mr.	Pankaj Bansal	Assistant professor	Electronics	Maharishi Arvind Engineering College
118	Mr.	Pankaj Sahu	Research Scholar	ECE	SoET, BML Munjal University
119	Dr.	Pawan Bhambu	Professor	CSE	Arya college of engg & IT Jaipur.
120	Prof.	Payal S. Burande	Asst. Prof.	Electrical	D.Y.Pati Institute of Engineering and Technology.
121	Ms.	Pooja Choudhary	Assistant Professor	Electronics and Communication Department	Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur
122	Ms.	Pooja Soni	Assistant Professor (Sr.)	Electrical Engineering	JIET, Jodhpur
123	Ms.	Poonam Kumari	Student	Electrical engineering	Kalinga University
124	Dr.	Pradeep Kumar Dubey	Assistant Professor	Physics	Shri Ram Institute of Technology
125	Mr.	PRAKASH CHANDRA DAS	LECTURER (PTGF)	Electronics and Telecommunication Engineering	Government Polytechnic Balasore, Odisha
126	Dr.	Prakhar Jindal	Assistant Professor	Aerospace Engineering	Amity University Haryana
127	Mr.	Pramod Jain	Assistant professor	ME	Skit
128	Mr.	PRATIK BHANSALI	Assistant Professor	Electrical Engineering	Jodhpur Institute of Engineering & Technology
129	Mr.	Praveen Tripath8	Assistant Professor	Computer Application	SGRR University
130	Mr.	Pravin Kumar Sharma	AP	ECE	JECRC
131	Ms.	Priya Chaudhary	Assistant Professor	ECE	Arya Institute of Engineering and Technology
132	Ms.	Priya Singh	Assistant Professor	Electronics and communication Engg	SRMGPC, LUCKNOW
133	Ms.	Priyadharshini	Research Scholar	Electronics and Instrumentation	Bharathiar University
134	Ms.	Priyanka Gupta	Lecturer	Mechanical Engineering	Govt Polytechnic College Alwar
135	Mr.	Pruthwijeet Patnayak	GET trainee	Electrical engineering	Npti Nagpur
136	Mr.	PULIDINDI VENKATA RATNAM	Associate Professor	ECE	Rajamahendri Institute of Engineering and Technology
137	Ms.	Pushpa Gothwal	Assistant professor	ECE	Amity University Rajasthan
138	Dr.	R. PALANIYAPPA	LECTURER	MATHEMATIC S	I. R. T. POLYTECHNIC COLLEGE

139	Ms.	R.BALAKRISHNAN	Assistant Professor	ECE	KINGS COLLEGE OF ENGINEERING
140	Mr.	Rachit Patel	Assistant Professor	ECE	ABES Institute of Technology, Ghaziabad
141	Dr.	RAGHAVENDRA PATIDAR	Professor	Electronics & Communication Engineering	Global Institute of Technology, Jaipur
142	Mr.	Rahul Pandey	Assistant Professor	ECE	SKIT jaipur
143	Mr.	RAHUL SHARMA	Assistant Professor	Mechanical Engineering	Poomima College of Engineering, Jaipur Rajasthan
144	Mr.	Rajesh kanna s	Assistant Professor	Electrical and electronics engineering	Aalim Muhammed Salegh College Of Engineering
145	Mr.	RAJESH KANWADIA	Assistant Professor	Electronics and Communication	Shankara Institute of Technology
146	Dr.	Rajesh Kumar Bathija	Associate Professor	ECE	JECRC Jaipur
147	Ms.	Rajni Idiwai	Assistant professor	ECE	Skit, Jaipur
148	Mr.	Rakesh Kumar Kardam	Assistant professor	ECE	JECRC, jaipur
149	Mr.	RAKESH RANJAN	ASSISTANT PROFESSOR	Computer Science	SHANKARA INSTITUTE OF TECHNOLOGY
150	Mr.	Rameez Raja K	Assistant Professor	EEE	Aalim Muhammed Salegh College of Engineering
151	Ms.	Rammurti Meena	Assistant professor	EE	Swami Keshwanand Institute of technology management and gramothan Jaipur
152	Mr.	RANCHITH KUMAR P	Assistant professor	Electronics and communication Engineering	University college of Engineering Arani
153	Ms.	Ranjana trivedi	Associate professor	ECE	JIET group of institutions
154	Dr.	Rashmi Jain	Assistant professor	E&TC	DYPIT PIMPRI PUNE
155	Mr.	Reynolds Duddu	Assistant Professor	Electronics and Telecommunication Engineering	Bhilai Institute of Technology Durg
156	Ms.	Richa Sharma	Assistant Professor	ECE	SKIT College
157	Ms.	Ritambhara	Assistant professor	ECE	JECRC
158	Mr.	Ritesh vishwakarma	Assistant professor	Electronics and Communication Engineering	Bundelkhand university
159	Mr.	Rohan	Chandela	Department of physics	L.N.M.U
160	Mr.	Rohit Anand	Assistant Professor	ECE	G.B.Pant Engineering College, New Delhi
161	Ms.	Rosalin Pradhan	Assistant Professor	Electrical Engineering	Indira Gandhi Institute of Technology, Sarang
162	Ms.	Ruchi Sharma	Assistant Professor	Computer Science	B K Birla Institute of Engineering and Technology (BKBIET)-PILANI

163	Dr.	S SRINIVASULU RAJU	Assistant Professor	EIE	Velagapudi Ramakrishna Siddhartha Engineering College
164	Ms.	S. CAROLINE	Assistant Professor	ECE	St. Xavier's Catholic College of Engineering
165	Mr.	S. Edwin Lawrence	Assistant Professor	ECE	St.Xavier's Catholic College of Engineering
166	Prof.	S. K. Bhatnagar	Director (Research)	ECE	SKIT
167	Dr.	S. MARIA SERAPHIN SUJITHA	Assistant Professor	ECE	St.Xaviers Catholic College of Engineering
168	Mr.	S. P. Santhoshkumar	Assistant Professor	CSE	Rathinam Technical Campus
169	Mr.	S. VIJAYA RAJU	DGM	ONGC	JNTU
170	Mr.	S.Kannadhasan	Assistant Professor	Electronics and Communication Engineering	Cheran College of Engineering
171	Mr.	S.MANGALESWARA BOOPATHY	Sales manager	Electrical	BK POWER
172	Mr.	S.SIVAKUMAR	Assistant Professor	EEE	RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY, PUDUCHERRY
173	Dr.	S.SRINATH	Professor	EEE	Velammal Engineering College,Chennai
174	Ms.	Saambhavi Barthwal	Student	ECE	NMIT
175	Dr.	Sachin Agrawal	Assistant Professor	Computer Science and Engineering	College of Engineering and Technology, Akola
176	Mr.	Sandeep Kumar Jain	Associate Professor	Electronics and Communication Engineering	Vivekananda Global University
177	Dr.	SANDIP D SATAV	Associate Professor	Information Technology	JSPM's Jayawantrao Sawant COE Pune 411028
178	Dr.	Sanjiv Mishra	Professor	ECE	Allenhouse Institute of Technology
179	Ms.	Santhiya.G	Assistant professor	Computer Science and Engineering	Stella Mary's College of Engineering
180	Mr.	Sarabjeet Singh	Assistant Professor	Computer Science	Swami Keshvanand Institute of Technology, Management & Gramothan
181	Prof.	SARIKA ATUL PATIL	Assistant Professor	Electronics and Telecommunicati on	Dr.D.Y.Patil Institute of Technology, Pimpri , Pune, Maharashtra
182	Prof.	Satyaprakash Rout	Assistant Professor	Electrical Engineering	DRIEMS AUTONOMOUS
183	Mr.	SATYENDRA PRASAD	Student	Electronics engineering	DR AITH KANPUR
184	Mr.	Saurabh Gupta	Assistant professor	Mechanical Engineering	SKIT JAIPUR

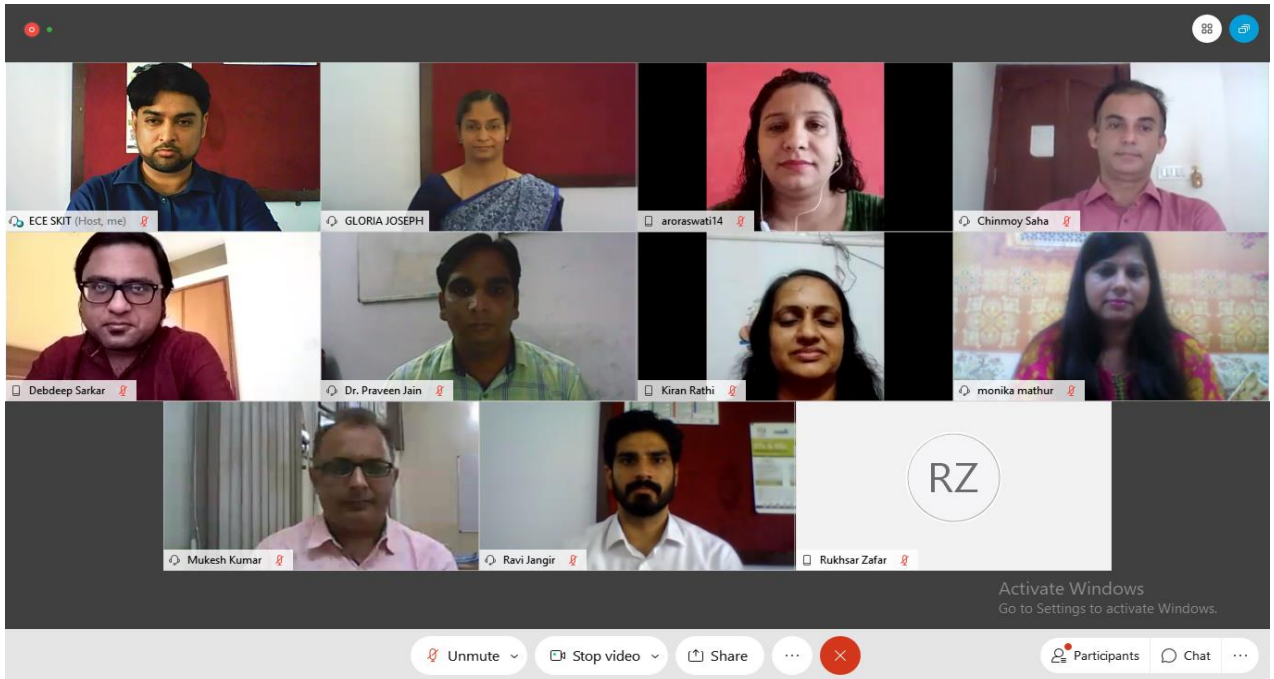
185	Mr.	SHAHURAJ SHANKAR SABLE	Assistant professor	Electrical	DYPATIL INSTITUTE of ENGINEERING and TECHNOLOGY ,AMBI ,PUNE
186	Ms.	Shanthi	Assistant Professor	Chemistry	Dmi college of Engineering
187	Ms.	SHARMISTHA BANERJEE	Asst Professor	MCA	Mckv Institute of Engineering
188	Mr.	Shashikumar Rathod	Student	Electrical and electronics engineering	Basaveshwara engineering College bagalkot Karnataka
189	Mr.	Shradhendu Pradhan	Student	Electronic and Telecommunication	Ajay Binay institute of technology, Cuttack
190	Ms.	SHRUTI KALRA	Associate Professor	Electronics and Communication Engineering	JAIPUR ENGINEERING COLLEGE and RESEARCH CENTER JAIPUR
191	Mr.	SHUBH KARAN SAINI	Teaching assistant	ECE	GIT sitapura Jaipur
192	Dr.	Shubhi Jain	Assistant Professor	ECE	Skit College
193	Ms.	Shweta Agrawal	Assistant professor	Electronic and communications	Shankara institute of technology kukas jaipur
194	Prof.	Shweta Desai	Assistant Professor	Electrical	D Y Patil University, Ambi, Pune
195	Ms.	Shwetapadma Panda	Junier Research Fellow	ECE	National Institute of Science and Technology, Berhampur
196	Mr.	Siringi Raja Rishyant	-Not yet working-	-N/A-	Vellore Institute of Technology
197	Mr.	SIVAKUMAR R D	Assistant Professor	Computer Science	Ayya Nadar Janaki Ammal College Sivakasi West
198	Dr.	Smita Pareek	Associate Prof	EE	BKBIET Pilani
199	Ms.	Sneh Lata Yadav	Assistant Professor	ECE	Shankara Institute of Technology, Kukas, Jaipur, Rajasthan
200	Mr.	Sudarshan Kumar Jain	Assistant Professor	ECE	Jagannath University
201	Mr.	Sudhanshu Singh	Assistant Professor	ECE department	Amity University Rajasthan
202	Mr.	Sudhansu Sekhar Behera	Asst. Professor	ECE	MVGRCE(A)
203	Dr.	Sujit Kumar	Assistant Professor	Electrical and Electronics Engineering	Jain Deemed to be University, Bengaluru
204	Ms.	Suman Sharma	Assistant professor	IT	SKIT, JAIPUR
205	Mr.	Sunil Kumar	Assistant Professor	Electronics & Communication	Shri Bhawani Niketan Institute of Technology & Mgmt
206	Mr.	Sunil lakhawat	Asst professor	Ece	Skit jaipur
207	Ms.	Supriya Suresh Bondre	Assistant professor	E&TC	SMSMP ITR, Akluj

208	Mr.	Sushant Khedgikar	Dean - Academics	Electronics and Telecommunications	P. E. S. College of Engineering
209	Ms.	Sushila Vishnoi	Associate Professor	Information Technology	Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT Jaipur)
210	Mr.	Syed Vasiyullah	Assistant professor	EEE	Aalim Muhammed Salegh college of engg
211	Dr.	T.Jaya	Assistant Professor	ECE	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
212	Mr.	TELAGAMALLA GOPI	ASSISTANT PROFESSOR	ELECTRONICS AND COMMUNICATION ENGINEERING	ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES HYDERABAD
213	Ms.	Tripti Dua	Assistant Professor	Electronics and Communication	JECRC Foundation
214	Dr.	Tushar Hrishikesh Jaware	Assistant Professor	E&TC	R C Patel Institute of Technology Shirpur
215	Mr.	Umesh Paliwal	Assistant Professor	Mechanical Engineering	MITS, Jadan
216	Ms.	USHA JAIN	Associate Professor	Computer Applications	Modi Institute of Management & Technology, Kota
217	Dr.	V. BHUVANESHWARI	Associate professor and Head	Biotechnology UG	Kongunadu Arts and Science College
218	Mr.	V. KANAGASUBRAMANIAN	Assistant professor	EEE	Mangayarkarasi college of Engineering
219	Ms.	VANAMALA S	Lecturer	Electronics and Communication Engineering	P.T.Lee Chengalvaraya Naicker Polytechnic College, Tamil Nadu
220	Dr.	VIJAYALAKSHMI .P	Asst. Professor	ECE	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
221	Dr.	Vikas Misra	Professor	Mechanical Engineering	Geetanjali Institute of Technical Studies Udaipur
222	Mr.	Vikas Ranveer Singh Mahala	Assistant Professor	Electrical Engineering	SKIT Jaipur
223	Mr.	Vishal D. Bharate	Assistant Professor	Electronics and Telecommunication	Sinhgad Academy of Engineering, Pune
224	Dr.	VISHAL SHRIVASTAVA	PROFESSOR	COMPUTER SCIENCE AND ENGINEERING	ARYA COLLEGE OF ENGINEERING AND IT,JAIPUR
225	Mr.	Vishnu Jangid	Assistant professor	Mechanical Engineering	SKIT Jaipur
226	Mr.	VIVEK BHOJAK	Head	ECE	Anand International College of Engineering, Jaipur

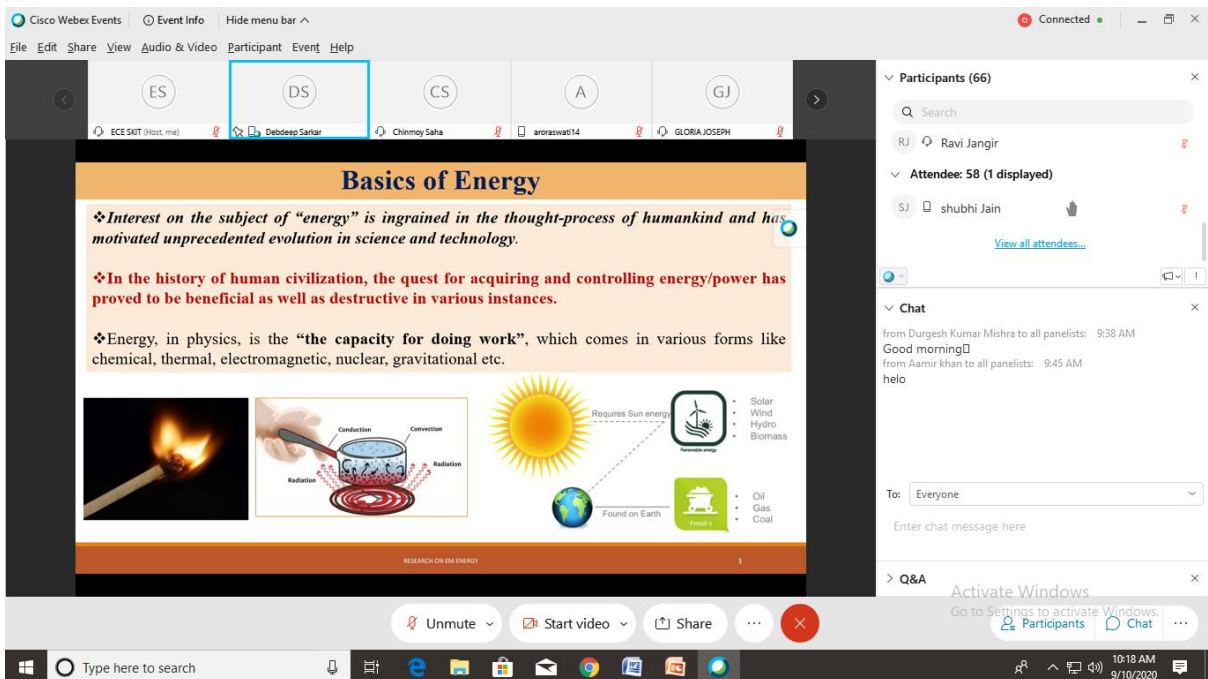
227	Mr.	Vivek Sharma	Assistant Professor	Electrical Engineering	SKIT jaipur
228	Dr.	Y.MARY REEJA	AP	ECE	St Xavier's Catholic College of Engineering
229	Mr.	Yash kumar	Student	ECE	Swami keshvanand institute of technology
230	Ms.	Yashika Saini	Assistant Professor	ECE	AIET
231	Ms.	Yazusha sharma	A. P.	Ece	Jecrc
232	Dr.	Yogesh Sharma	Professor	Mathematics	Mahila PG College Jodhpur
233	Ms.	Yogita	Assistant professor	ECE	Jecrc
234	Mr.	Yuvaraj A	Assistant Professor	EEE	Aalim Muhammed Salegh College of Engineering

Event Photographs

1. Inauguration



2. Day 1



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ES DS CS A GJ

ECE SKIT (Host, me) Debdeep Sarkar Chinmoy Saha aroraswati14 GLORIA JOSEPH

Harvesting Green Energy

- Energy harvesting from external ambient sources e.g. wind, solar, vibration, heat, RF are emerging as promising alternative to existing energy resources.
- In recent years, the huge proliferation of RF/mobile communication in developing country like India has made RF energy harvesting as an attractive solution to the dramatically increasing energy needs.

```

    graph LR
      EM[EM radiation] --> Antenna
      Antenna --- Matching[Matching Network]
      Matching --- Rectifier[Rectifier]
      Rectifier --- DC[DC Load]
  
```

- The harvesting unit mainly consists of an antenna to grab the RF energy and a rectifier for conversion of RF energy to DC power

RESEARCH ON EM ENERGY 7

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Participants (69)

Panelist: 8

ECE SKIT Host, me

Debdeep Sarkar

aroraswati14

Chat

from Durgesh Kumar Mishra to all panelists: 9:38 AM
Good morning

from Aamir khan to all panelists: 9:45 AM
helo

from ECE SKIT to everyone: 10:20 AM
All participants please Ask questions here

To: Everyone

Enter chat message here

Q&A

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Participants Chat

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10:24 AM 9/10/2020

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ES DS CS GJ KR

ECE SKIT (Host, me) Debdeep Sarkar Chinmoy Saha GLORIA JOSEPH Kiran Rathi

Viewing Debdeep Sarkar's s...

Reactive Energy, Antenna-Q: Reconsiderations

Q-factor (Radiation-Q) $\rightarrow Q = 2\pi \frac{\text{Reactive Energy}}{\text{Energy Radiated Per Cycle}} = \frac{\omega_0 \bar{W}}{\bar{P}}$

$\omega_0 = 2\pi f_0$ where f_0 is the excitation frequency \bar{W} = Total Reactive Energy \bar{P} = Total Radiated Power

Issue #1

It is clear from definition that Q-factor is relevant at a single frequency, especially for a resonant antenna

However, a wide class of non-resonant antennas exists (eg. Leaky wave antennas) \rightarrow The near-field energy of such antennas is still very much unexplored, and is not possible using simply Q-factors.

Issue #2

Q-factors are limited to frequency-domain analysis only, and assumes time harmonic excitation, i.e. perpetual sinusoidal signal like $\cos(\omega_0 t)$

But many applications, such as ultra-wideband (UWB) antennas rely on pulsed signal excitation \rightarrow So the Q-factors become unimportant there, but the issues of near-field energy dynamics are even more crucial to analyze.

RESEARCH ON EM ENERGY 13

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Participants (70)

Panelist: 7

ECE SKIT Host, me

Debdeep Sarkar

Chinmoy Saha

Chat

from Durgesh Kumar Mishra to all panelists: 9:38 AM
Good morning

from Aamir khan to all panelists: 9:45 AM
helo

from ECE SKIT to everyone: 10:20 AM
All participants please Ask questions here

To: Everyone

Q&A

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10:31 AM 9/10/2020

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ES DS GJ M RJ

ECE SKIT (Host, me) DebdEEP Sarkar Chinmoy Saha GLORIA JOSEPH monika mathur Rav Jangir

Viewing Chinmoy Saha's scr...

IIST-ISRO Collaborative Projects

Design and Implementation of a Compact Wideband Microstrip Patch Antenna (IIST/RDP/11/2014) (VSSC, Trivandrum)

Multilayered Wideband MPA

Design and Implementation of Integrated Tri-Band Monopulse Auto-Tracking Feed for LEO Satellites (NRSC, Hyderabad)

Sum Signal

To Tracking Receiver

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Participants Chat

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11:19 AM 9/10/2020

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ES DS GJ M RJ

ECE SKIT (Host, me) DebdEEP Sarkar Chinmoy Saha GLORIA JOSEPH monika mathur Rav Jangir

Viewing Chinmoy Saha's scr...

Harvesters

Source	Power density	Harvesting Technology	Advantages	Disadvantages
Solar	Indoor: $10 \mu\text{W}/\text{cm}^2$ Outdoor: $10 \text{mW}/\text{cm}^2$	Photovoltaic	High power density Mature	Not always available Required exposure to light (not implantable) Expensive
Vibration	Human: $4 \mu\text{W}/\text{cm}^2$ Industrial: $100 \mu\text{W}/\text{cm}^2$	Piezoelectric Electrostatic Electromagnetic	Implantable High efficiency	Not always available Material physical limitation
Thermal	Human: $30 \mu\text{W}/\text{cm}^2$ Industrial: $1-10 \text{mW}/\text{cm}^2$	Thermoelectric Pyroelectric	High power density Implantable	Not always available Excess heat
RF	GSM: $0.1 \mu\text{W}/\text{cm}^2$ Wi-Fi: $1 \text{mW}/\text{cm}^2$	Antenna	Always available Implantable	Low density Efficiency inversely proportional to distance

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11:30 AM 9/10/2020

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ES GJ Prabhath Dwivedi RJ

ECE SKIT (Host, me) Gloria Joseph Prabhath Dwivedi Ravi Jangir

Fabrication of Nanoparticles (Fe, Co, Ni) for CNT growth

Direct printing of arrays using catalyst precursor inks

Specially prepared inks for printing 1-50µm

Annealed to obtain nanoparticles with size range 5-500nm in a confined region.

Seed mediated growth of 1-D nanostructures catalysed by these

Optical Microscope images of Fe, Co, Ni, Au precursor inks printed with drop size varying from 50µm to 1µm

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Participants (45)

Search

GJ Gloria Joseph RJ Ravi Jangir

Attendee: 41 (2 displayed)

PD Prakash Chandra...

Chat

in this chat?

from ECE SKIT to everyone: 1:10 PM

Attendance Link for Day 1

<https://forms.gle/HfXiqpZCUbjyFuBM7>

from ECE SKIT to everyone: 1:10 PM

<https://forms.gle/HfXiqpZCUbjyFuBM7>

from Abdul Naim Khan to all panelists: 1:13 PM

Which method is best for lithography process?

To: Everyone

Enter chat message here

Q&A

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Participants Chat

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1:37 PM 9/10/2020

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ES GJ Prabhath Dwivedi RJ

ECE SKIT (Host, me) Gloria Joseph Prabhath Dwivedi Ravi Jangir

Bio-mimetics

Lotus leaf
Kulkarni et al., J Mater Chem (2008)

Silica film

Peacock spider

RF xerogel

Sharma et al., ACS App Mater Interf (2016)

Moth eye microstructure

Chalcogenide microlens array

CONVEX LENS ARRAY

ACS Applied Materials & Interfaces 5 (15), 7094-7100

FDP, SKIT, Rajasthan Technical University, Kota 65

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Participants (47)

Search

GJ Gloria Joseph RJ Ravi Jangir

Attendee: 43 (2 displayed)

PD Prakash Chandra...

Chat

in this chat?

from ECE SKIT to everyone: 1:10 PM

Attendance Link for Day 1

<https://forms.gle/HfXiqpZCUbjyFuBM7>

from ECE SKIT to everyone: 1:10 PM

<https://forms.gle/HfXiqpZCUbjyFuBM7>

from Abdul Naim Khan to all panelists: 1:13 PM

Which method is best for lithography process?

To: Everyone

Enter chat message here

Q&A

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Participants Chat

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1:45 PM 9/10/2020

3. Day 2

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Participants (59)

Search

Parag Bhargava

Gloria Joseph

Attendee: 56 (0 displayed)

View all attendees...

Chat

muhammed saleg college of engineering, chennai. Any Ph.D research work in this DSSC area with power electronics?

from ECE SKIT to Gloria Joseph (privately): 10:45 AM

Which type of solar material is best for indian climate for maximum generation?

from Gloria Joseph to everyone: 11:00 AM

participants u can ask questions in chat

To: Parag Bhargava

Enter chat message here

Q&A

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Participants Chat

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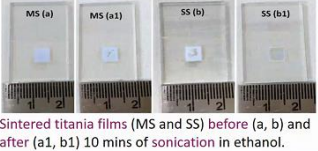
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11:01 AM 9/11/2020

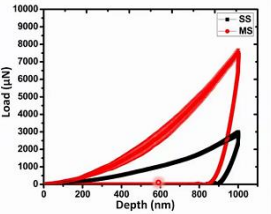
Results **Heat treatment of Titania** 39

Viewing Parag Bhargava's a...

Sintered titania films (MS and SS) before (a, b) and after (a1, b1) 10 mins of sonication in ethanol.



MS (a) MS (a1) SS (b) SS (b1)



Force displacement curves of sintered titania films made by MS and SS method.

Top surfaces of sintered titania films made by MS and SS method (FE-SEM).

Inference:
Titania films from **MS method** showed **better adherence** to the FTO substrate and **better interconnectivity** of titania particles than in titania films made by SS method.

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Participants (59)

Search

Parag Bhargava

Gloria Joseph

Attendee: 56 (0 displayed)

View all attendees...

Chat

muhammed saleg college of engineering, chennai. Any Ph.D research work in this DSSC area with power electronics?

from ECE SKIT to Gloria Joseph (privately): 10:45 AM

Which type of solar material is best for indian climate for maximum generation?

from Gloria Joseph to everyone: 11:00 AM

participants u can ask questions in chat

To: Parag Bhargava

Enter chat message here

Q&A

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Participants Chat

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11:02 AM 9/11/2020

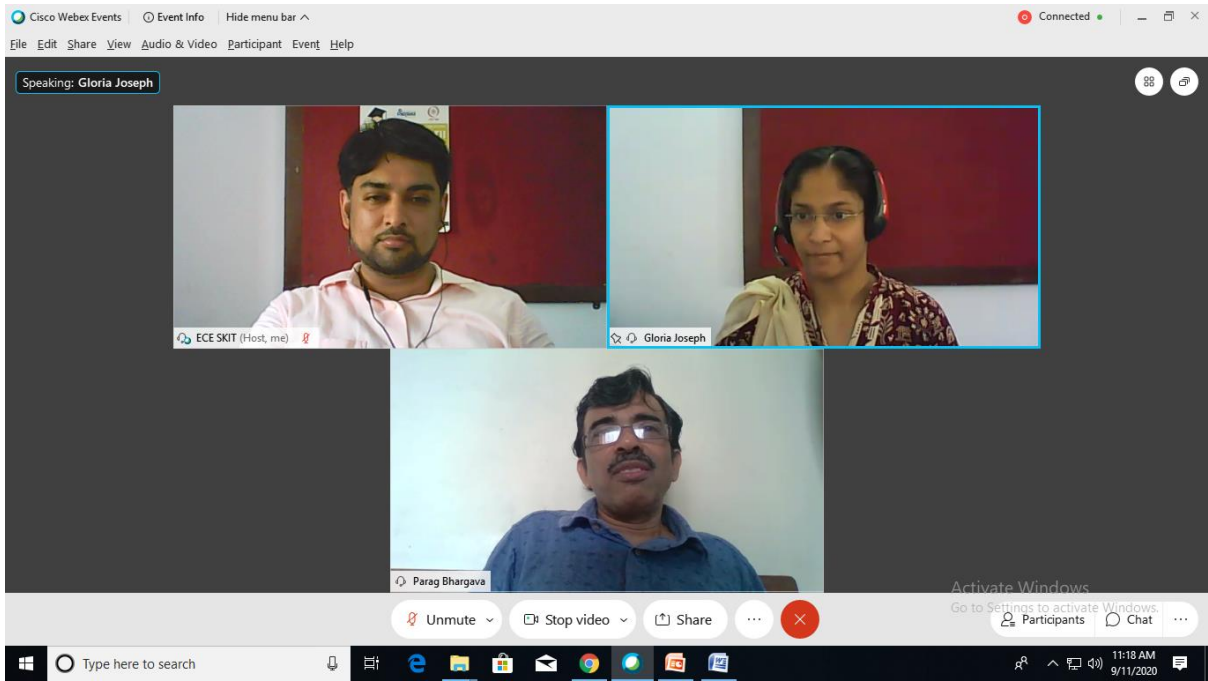
Over **olytes**

I] Liquid electrolyte
Redox couple- I^-/I_3^- , Br^-/Br_2 , $Co(II/III)$
Solvent- Organic-Acetonitrile, Valeronitrile, 3-methoxy propionitrile
Ionic Liquids-1-propyl-3-methylimidazolium iodide, 1-ethyl-3-methylimidazolium thiocyanate
Additive-4-tert- butyl pyridine, guanidinium thiocyanate

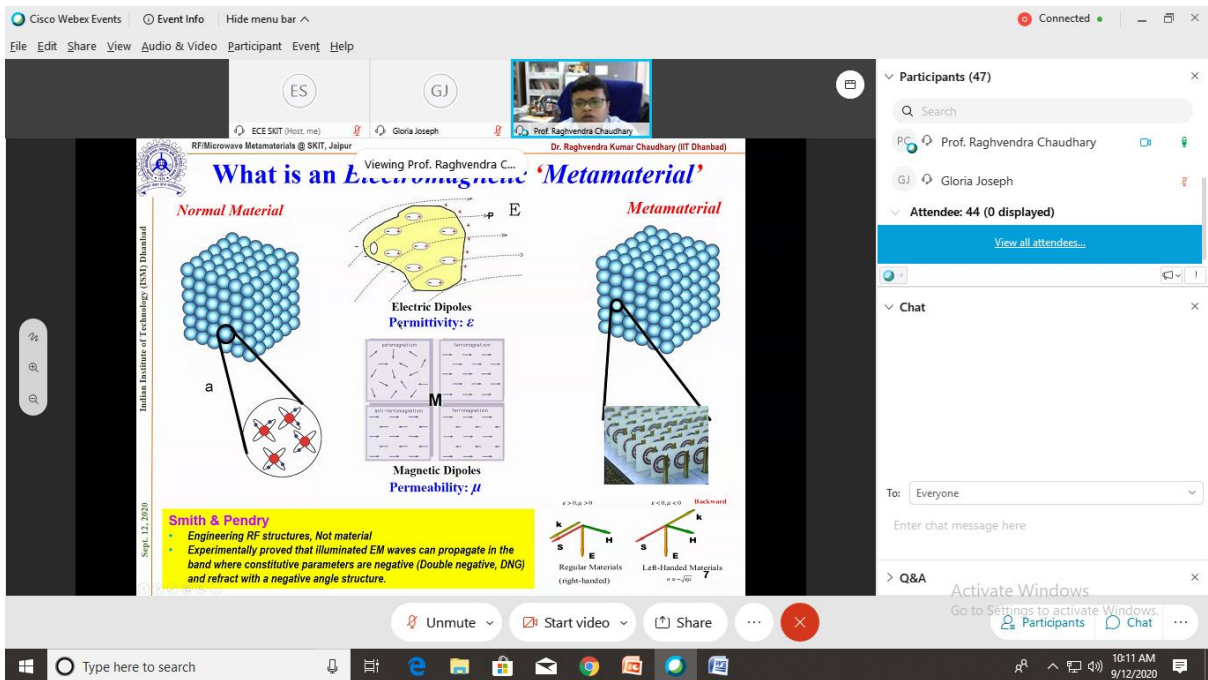
Long term stability issue

II] Quasi-solid electrolyte (Gel electrolyte)
Polymer based- PVDF-HFP, PAA-PEG
Nanopowder based- Silica, Titania, CNT

III] Solid electrolyte
Inorganic- CuI, CuSCN, $CsSnI_3$
Organic- Spiro-OMeTAD



4. Day 3



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Participants (69)

Search

Prof. Raghendra Chaudhary

Gloria Joseph

Attendee: 66 (0 displayed)

View all attendees...

Chat

from VIJAYARAJU SIRINGI to host (privately): 10:39 AM
Thank you for arranging great lecture by Dr. Raghendra
from ECE SKIT to everyone: 10:48 AM
please ask question in chat

To: Everyone

Q&A

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Participants Chat

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10:51 AM 9/12/2020

RF/Microwave Metamaterials @ SKIT, Jaipur | Dr. Raghendra Kumar Chaudhary (IT Dhanbad)

Composite Right/ Left Handed (CRLH) TL

PLH

$\beta = -\frac{1}{\omega\sqrt{L_L C_L}}$

PRH

$\beta = \omega\sqrt{L_R C_R}$

z

y

L_R : Due to currents in inter-digital capacitor (IDC).
 C_C : Due to gaps in IDC.

C_R : Capacitance between IDC & Ground.
 L_L : Due to shorted stub inductor.

C. Caloz et. al. "Novel microwave devices and structures based on the transmission line approach of meta-materials." in *IEEE-MTT Intl. Symp.*, vol. 1, Philadelphia, PA, pp. 195-198, June 2003. 35

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Participants (69)

Search

Prof. Raghendra Chaudhary

Gloria Joseph

Attendee: 66 (0 displayed)

View all attendees...

Chat

from VIJAYARAJU SIRINGI to host (privately): 10:39 AM
Thank you for arranging great lecture by Dr. Raghendra
from ECE SKIT to everyone: 10:48 AM
please ask question in chat

To: Everyone

Q&A

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Participants Chat

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1:25 PM 9/12/2020

Fabrication of Ceramic Dental Crown

Viewing Parag Bhargava's a...

- CAD/CAM milling**
- Milling as per scanned shape & size of teeth
- Full Sintering**
- Sintering at about 1500° C
- Sandblasting**
- Blasting with alumina to make rough surface
- Veneering & Firing**
- Ceramic Veneering material to give a natural look

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ES ECE SKIT (Host, me) Parag Bhargava

Continuous Reactors Used

- Tubular Reactor equipped with Static Mixer

Peristaltic Pump for solutions
Tubular Reactor
Static Mixer
Collection Jar
Unassembled Parts
Flow with Static M

9/12/2020 66

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Participants (43)
Panelist: 2
ES ECE SKIT (Host, me)
PB Parag Bhargava
Attendee: 41 (0 displayed)
View all attendees...

Chat
Q&A

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Participants Chat

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1:29 PM 9/12/2020

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ES ECE SKIT (Host, me) R Rubina Zafer PJ Praveen Kumar Jain

2:46 PM Sat 12 Sep

Viewing rz's screen

Band Gap engineering

schematic for the electron-hole (e-h) pair generation by the absorption of photon energy by an arbitrary semiconductor having band gap (direct) energy E_g . Photons energy above the band gap (i.e. excess energy ΔE) will be lost due to thermal heating (indicated by black dotted arrows).

Ref: Mandal, P., and S. Sharma., *Renewable and Sustainable Energy Reviews* 65 (2016): 537-552

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Participants (45)
Chat
Q&A

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Participants Chat

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2:45 PM 9/12/2020

5. Day 4

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Participants (28)

Panelist: 3

RJ Ravi Jangir (Host, me)

PC Prof. Raghendra Chaudhary

SA Swati Arora

Chat

To: Everyone

Enter chat message here

Q&A

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10:14 AM

RF/Microwave Metamaterials @ SKIT, Jaipur

Dr. Raghendra Kumar Chaudhary (IT Dhanbad)

Viewing Prof. Raghendra C...

1. Reducing the EM in systems

2. Absorber panel for outdoors

3. Wearable absorber

4. RFID and Sensors

5. RCS Reduction

6. EMI/EMC Application

Flexible absorber designed to improve the reading range of RFID.

Indian Institute of Technology (IIT) Dhanbad

Sept. 13, 2020

Danger! Microwave radiation!

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Participants (29)

Panelist: 2

RJ Ravi Jangir (Host, me)

PC Prof. Raghendra Chaudhary

Attendee: 27 (0 displayed)

Chat

To: Everyone

Enter chat message here

Q&A

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10:21 AM

RF/Microwave Metamaterials @ SKIT, Jaipur

Dr. Raghendra Kumar Chaudhary (IT Dhanbad)

Viewing Prof. Raghendra C...

Introduction

Electromagnetic Wave Absorber → Absorption of Incident Electromagnetic Wave

Types

Resonant Absorbers (Frequency Dependent)

Broadband Absorbers (Frequency Independent)

Pyramidal Absorber

Salisbury Screen

Juermann Absorber

Metamaterial Absorber

Resistive sheet Metal

Resistive sheet Resistive sheet Metal

Propagation Wave (in air) $\lambda/4$

Propagation Wave (in air) $\lambda/4$ $\lambda/4$

W. W. Salisbury et al. "Absorbent body for electromagnetic waves", US 2599944 (A), June 10, 1952

P. Saville, "Review of Radar Absorbing Materials," *Defense R & D Canada-Atlantic*, January 2005.

Landy, N.J., Sajuyigbe, S., Mock, J.J., et al. "Perfect metamaterial absorber", *Phys. Rev. Lett.*, 2008, 100, p. 207402

Indian Institute of Technology (IIT) Dhanbad

Sept. 13, 2020

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Viewing Dr Pankaj B Agarwa...

Development of Carbon Nanotubes (CNTs)-based Sensing Platforms

Dr Pankaj B Agarwal, *FIETE, SMIEEE*
Principal Scientist, CSIR-CEERI, Pilani
Associate Professor, AcSIR

AcSIR
Academy of Scientific and Innovative Research

CSIR-Central Electronics Engineering Research Institute (CEERI), Pilani

Unmute Start video Share

Participants (30)

Panelist: 4

- Ravi Jangir Host, me
- Dr Pankaj B Agarwal
- Gloria Joseph
- Swati Arora

Chat

Sir, from VIJAYABARAJU SIRINGI (privately): 12:30 PM yesterday evening 1430-1530 session I could not attend . I request you to kindly link or notes for the said session .

from Vijayalakshmi P to host (privately): 12:31 PM Good Afternoon to all

To: Everyone

Enter chat message here

Participants Chat

12:32 PM

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Viewing Dr Pankaj B Agarwa...

Carbon Nanotubes (CNTs)

Structure of a SWNT can be conceptualized by wrapping a one-atom-thick layer of graphite called graphene into a seamless cylinder.

The way the graphene sheet is wrapped is represented by a pair of indices (n,m) called the chiral vector.

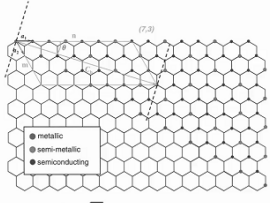
$$C_n = na_1 + ma_2$$

The chiral vector uniquely defines the diameter (d) and the chiral angle (θ) of the SWNT:

$$d = \frac{\sqrt{3}a_{c-c}}{\pi} \sqrt{n^2 + nm}$$

$$\theta = \tan^{-1}[\sqrt{3}m/(2n + m)]$$

Where a_{c-c} (~ 0.142 nm) is the nearest-neighbor C-C distance.



Participants (30)

Panelist: 3

- Ravi Jangir Host, me
- Dr Pankaj B Agarwal
- Swati Arora

Attendee: 27 (0 displayed)

Chat

from Vijayalakshmi P to host (privately): 12:31 PM Good Afternoon to all

from VIJAYABARAJU SIRINGI (privately): 12:33 PM Not audible

from VIJAYABARAJU SIRINGI (privately): 12:33 PM now audible

To: Everyone

Enter chat message here

Participants Chat

12:37 PM

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Participants (39)

Panelist: 3

Attendee: 36 (0 displayed)

Chat

Unmute | Start video | Share

Challenges in using Micro/Nano-Dimensional Stencils

$$B_G = \frac{G(S + A) + DA - ST/2}{D + T/2} - A$$

If $D \gg T$, $G \gg T$, and $S \gg A$, then Equation can be approximated as:

$$B_G = \frac{GS}{D}$$

6. Day 5

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Participants (54)

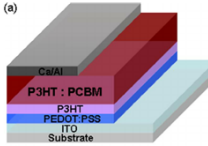
Panelist: 3

Attendee: 51 (2 displayed)

Chat

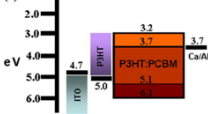
Mute | Stop video | Share

Organic Solar Cell



The device exhibited

- an open-circuit voltage V_{oc} of 0.60 V
- short-circuit current density J_{sc} of 9.78 mA/cm²,
- a fill factor FF of 67.8%
- a power conversion efficiency PCE of 3.98%.



Emmanuel Stratakis et al, "Nanoparticle-based organic photovoltaic devices" Materials Today Volume 16, Number 4 April 2013 R

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File Edit Share View Audio & Video Participant Event Help

Participants (48)

Panelist: 3

Chat

Q&A

Unmute Start video Share

Type here to search

12:09 PM 9/14/2020

Encapsulation

Mono Poly Thin Film

Frame
Glass
Encapsulant
Solar Cells
Encapsulant
Backsheet
Junction Box

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File Edit Share View Audio & Video Participant Event Help

Participants (48)

Panelist: 3

Chat

Q&A

Unmute Start video Share

Type here to search

12:09 PM 9/14/2020

Viewing Amartya Chowdhur...

(a) (b)

Glass Superstrate
TCO front electrode
nc-Si:H absorber
Ag Back electrode

Superstrate-type solar cell

Ag grid
TCO
p
nc-Si:H absorber
n
Ag Back electrode
Substrate

Substrate-type solar cell

14-09-2020 Nanotechnology Based Green Energy Solution for Solar Cells, 2020, SKIT, Jaipur

7. Valedictory Session

Cisco Webex Events | Event Info | Hide menu bar ^

Connected

File Edit Share View Audio & Video Participant Event Help

Ravi Jangir (Host, me) | Dr Deepak Bhatia | Gloria Joseph | Amartya Chowdhury

Ravi Jangir | Praveen Kumar Jain | Kiran Rathi | Rukhsar Zafar

SA | M

Swati Arora | Stop my video | monika mathur

Unmute | Stop video | Share

Activate Windows. Go to Settings to activate Windows.

Participants | Chat

Type here to search | 1:49 PM 9/14/2020

Report of the Event

Faculty Development Program on **Nanotechnology Based Green Energy Solution for Solar cells (NGESS-2020)** was jointly organized by Rajasthan Technical University, Kota & Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 10th September to 14th 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. Chinmoy Saha, Associate Professor, IISST, Kerala, was the chief guest and **Dr. Debdeep Sarkar, Assistant Professor, IISc Bangalore** was the guest of honor of this FDP. The FDP began with the welcome address by Prof. Mukesh Arora (Head, Department of Electronics and Communication Engineering, SKIT, Jaipur).

The Inauguration ceremony also witnesses the presence of **FDP Coordinator Dr. Deepak Bhatia (Assistant Professor, RTU Kota)**, **Prof. Praveen Kumar Jain** (Dy. Head, Department of Electronics and Communication Engineering, SKIT Jaipur), Dr. Swati Arora, Dr. Monika Mathur, Dr. Rukhsar Zafar, Miss Kiran Rathi, and Mrs. Gloria Goseph.

Dr. Deepak Bhatia addresses the participants about importance of Nanomaterial in green energy solutions and its relation to the engineering stream.

Total 234 faculty members from different institutes of the country have participated in this FDP.

In the first session of the first day **Dr. Chinmoy Saha**, in association with **Dr. Debdeep Sarkar** delivered an expert talk on Electromagnetic Energy: New Ideas, Harvesting and Power Transfer. They highlighted the importance of enhancing knowledge on Nanomaterials, its significance in solar energy harvesting and, its relation to the engineering stream.

In the subsequent session, **Dr. Prabhat Dwivedi, Centre for Nanosciences, IIT Kanpur**, gives his insights on Micro Nano fabrication techniques. Second day was started with an expert lecture of **Prof. Parag Bhargav IIT Bombay**. He enlightened the participants with the Overview of Dye-Sensitized Solar Cells and its importance in improving the efficiency of solar cells.

Day 2 was ended with an expert lecture of **Dr. Prabhat Dwivedi IIT Kanpur**, He shared his knowledge in the field of "A point-of-care platform for preventive healthcare devices based on Micro-nano technologies.

Third day was started with an expert lecture of **Dr. Raghvendra Kumar Chaudhary, Assistant Professor, IIT Dhanbad**. He shed light on the RF/Microwave Metamaterials. The lecture is followed by two knowledge enlightening sessions of **Prof. Parag Bhargav, IIT Bombay** and **Dr. Rukhsar Zafar, Associate Professor, SKIT Jaipur**. They have shared their knowledge in the field of Ceramic Nanomaterials and Plasmonic enhanced Solar Cells

respectively. The use of ceramic as well as Plasmonic Nanomaterials can led to enhancement in efficiency of solar cells to many folds.

Day 4 started again with an interactive session of – **Dr. Raghendra Kumar Chaudhary, Assistant Professor, IIT Dhanbad**. He enlightened the gathering with the basics of Metamaterial Absorbers and their applications in enhancing the performance of solar cells. In continuation to that, **Dr. Pankaj Agrawal, Principal Scientist, Ceeri, Pilani** , discussed the development of Carbon Nano Tube based sensing Platform.

Day 5 was opened with the much awaiting session on Inorganic & Hybrid Solar Cell by **Dr. Praveen Kumar Jain, Professor, SKIT Jaipur**. He enlightened the gathering with his expertise and related research work. This is followed by an expert lecture on **Nanocrystalline based Solar cell by Dr. Amartya Chowdhury, Assistant Professor, MNIT Jaipur**. He shared his knowledge on the importance of thin film cell and the related performance on the basis of experimental work being carried out by him.

The discussed areas are of great benefit for the participants as they are enlightened with the most widely used advance strategies and techniques being used in the designing and development of Nano-material based renewable energy sources.

Media Coverage

एसकेआईटी में नैनो टेक्नोलॉजी पर कार्यक्रम

जयपुर (सीमा सन्देश)। नैनो टेक्नोलॉजी के प्रयोग से सोलर सैल की इफिशिएंसी को बढ़ा कर तथा आरइएच तकनीकी से बैटरी पर निर्भरता को खत्म कर के हरित ऊर्जा के क्षेत्र में एक नए आयाम को स्पर्श किया जा सकता है। जगतपुरा स्थित स्वामी केशवानंद इंस्टिट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में नैनो टेक्नोलॉजी बेस्ड एनर्जी सॉल्यूशन फॉर सोलर सैल विषय पर पांच दिवसीय फैकल्टी डवलपमेंट प्रोग्राम का शुभारंभ हुआ। उद्घाटन समारोह में मुख्य अतिथि डॉ. चिन्मोय साहा (आईआईएसटी, केरल) तथा सम्मानीय अतिथि डॉ. देवदीप सरकार (आईआईएससी, बैंगलोर) थे। अभियांत्रिकी एवं संचार विभाग के विभागाध्यक्ष डॉ. मुकेश अरोड़ा ने मुख्य अतिथियों का स्वागत करते हुए यह बताया कि विभाग द्वारा आयोजित



विभिन्न फैकल्टी डवलपमेंट प्रोग्राम शृंखलाओं से फैकल्टी को कार्यदक्षता व निपुणता हासिल करने में मदद मिलती है। डॉ. प्रवीण कुमार जैन (प्रोफेसर, एसकेआईटी) ने संस्था की उपलब्धियों बारे अवगत करवाया। डॉ. दीपक भाटिया (आरटीयू, कोटा) ने वर्तमान

परिपेक्ष में नैनो टेक्नोलॉजी की उपयोगिता पर प्रकाश डाला तथा एफडीपी के सभी सेशन का महत्व बताया। एफडीपी समन्वयक डॉ. स्वाति अरोड़ा ने सभी गणमान्य अतिथियों का आभार जताया। देश के विभिन्न इंजीनियरिंग कॉलेज के 272 फैकल्टी ने भाग लिया।

Invitation Mail

Dear All

We are glad to inform that **Department of Electronics and Communication Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur** is organizing an **RTU (ATU) TEQIP-III** Sponsored Online one week Faculty Development Programme (FDP) on **“Nanotechnology Based Green Energy Solution for Solar cells (NGESS-2020)”** from **10th September – 14th September 2020**.

The aim of this FDP is to provide an exposure to both basics and recent advances in Nanotechnology or Nanoscience being used to promote green energy sources.

This FDP will focus on:

- Basics and recent advances in Nanotechnology.
- Establishing the basic concept of Overview of Di-Sensitized Solar Cells.
- Understanding the Basic concepts and Process of Micro/Nano fabrication techniques.
- Electromagnetic Energy.
- Preventive healthcare devices based on Micro-Nano technologies.
- RF/Microwave Metamaterials.
- Plasmonic enhanced Solar cell.
- Ceramic Nanomaterials.
- Learning the various aspects of Solar Cell using Green Energy Solution.
- Inorganic and Hybrid Solar cell.
- Solar cell using Photonics.

The brochure is attached with the mail.

Registration Link: <https://forms.gle/mfemjHikYkJaJ3qN8>

WhatsApp group link: <https://chat.whatsapp.com/BjlgwWuh73L5ibROeGV32f>

Google Classroom Code: 2hkn3ss

Email id for correspondence: fdpece@skit.ac.in

Note: It is advised to download WebEx and join WhatsApp group and Google Classroom in the Context of this FDP.

We look forward to your presence and participation.

We request you to give a wide circulation of this e-mail to your contacts

Thanking You

Organizing Team

NGESS-2020

Dr. Swati Arora (9982036054)
(Associate Professor)

Mr. Ravi Jangir (9649331099)
(Assistant Professor)

Department of ECE

SKIT Jaipur

Daily Whatsapp Message Sample

Dear Sir/Madam,

Greetings from the Department of ECE, SKIT!!!

Thank you all for being a part of this online FDP “Nanotechnology Based Green Energy Solutions for Solar Cells (NGESSS-2020)”.

Day-1, 10/9/2020

We will have Inauguration followed by two Sessions.

Looking forward to see you on 10-09-2020 at 9:30 A.M. to the WebEx Inauguration session

The experts of Session will be

(1) Dr. Chinmoy Saha IISST, Kerala and Dr. Debdeep Sarkar, IISc Bangalore- 10:00 AM - 12:00 PM

(2) Dr. Prabhat Dwivedi, IIT Kanpur- 12:30 PM to 2:00 PM

The Session will be held on WebEx platform.

WebEx Meeting Link (DAY 1):

<https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=ecdfe1e4b6b17b9dca023060d750f5e8e>

Note:-

- (1) Please don't change the password, keep it default.
- (2) Please join the session at Webex before 10 minute of scheduled time.
- (3) Attendance will be share on Google Classroom only (Classroom Code- 2hkn3ss).
- (4) Feedback link will be shared at the end of FDP i.e. 14-09-2020.

Thanks & Regards

Organizers

NGESS – 2020

Registration Form

TEQIP - III Sponsored Faculty Development Program on
Nanotechnology Based Green Energy Solution for Solar cells
(NGESS-2020) during 10th-14th September 2020

Organized by

Rajasthan Technical University, Kota

&

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Solute *

Mr.

Ms.

Dr.

Prof.

Participant Name *

Participant Name *

Short answer text

Designation *

Short answer text

Department *

Short answer text

Highest Qualification *

Short answer text

Institute *

Short answer text

Institute Address *

Short answer text

Mobile No. *

Short answer text

Whats app Number *

Short answer text

E-Mail ID *

Short answer text

Institute affiliated to Rajasthan Technical University (RTU) or Bikaner Technical University (BTU) *

Yes

No

Attendance Form

NGESS ATTENDANCE DAY 1

Form description

Participant Name *

Short answer text

Mobile Number *

Short answer text

E-Mail ID *

Short answer text

Assignment

ASSIGNMENT NGESS-2020

Form description

Participant Name *

Short answer text

Mobile Number *

Short answer text

E-Mail ID *

Short answer text

1. CNTs stands for _____ *

- Carbon Nanotubes
- Carbon Nanotechnology
- Carbon Nanoscience and technology
- Carbon Nine Technology

2. The metallic tubes have which kind of structure? *

- Armchair
- Chiral
- Boat
- Achiral

⋮

3. Which of the following is an example of top-down approach for the preparation of nanomaterials? *

- Gas phase agglomeration
- Molecular self-assembly
- Mechanical grinding
- Molecular beam epitaxy

4. Quantum dots can be used in _____ *

- Crystallography
- Optoelectronics
- Mechanics
- Quantum physics

5. What should be the band gap of the semiconductors to be used as solar cell materials? *

- 0.5 eV
- 1 eV
- 1.5 eV
- 1.9 eV

6. Which of the following materials cannot be used as solar cells materials? *

- Si
- GaAs
- CdS
- PbS

⋮

7. When the source of light is not sun light then the photo voltaic cell is used as *

- Photo diode
- Photo voltaic cell
- Photo detector
- Photo transmitter

⋮

8. The current produce by the solar cell can be given by _____ *

- $I_L - I_D + I_{Sh}$
- $I_L + I_D - I_{Sh}$
- $I_L + I_D + I_{Sh}$
- $I_L - I_D - I_{Sh}$

⋮

9. Solar cells are made from bulk materials that are cut into wafer of _____ thickness. *

- 120-180 μm
- 120-220 μm
- 180-220 μm
- 180-240 μm

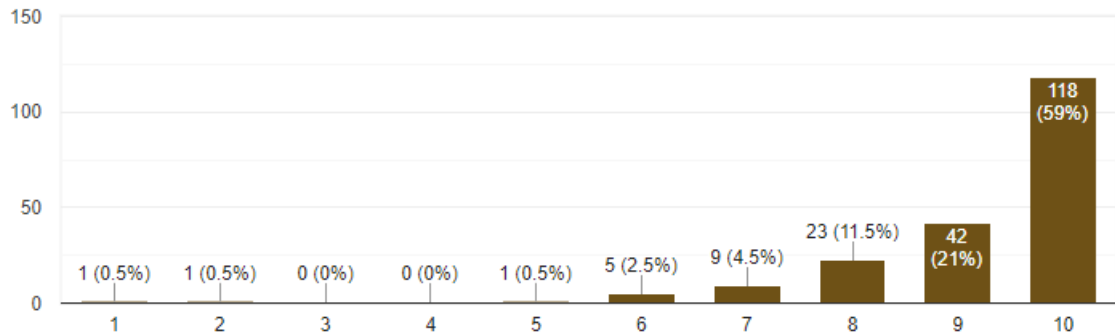
10. In an electromagnetic wave in free space, the root mean square value of the electric field is 6 *
V/m. The peak value of the magnetic field is

- $2.83 \times 10^{-8} \text{ T}$
- $1.51 \times 10^{-8} \text{ T}$
- $0.80 \times 10^{-8} \text{ T}$
- $4 \times 10^{-8} \text{ T}$

Feedback analysis of NGESS-2020

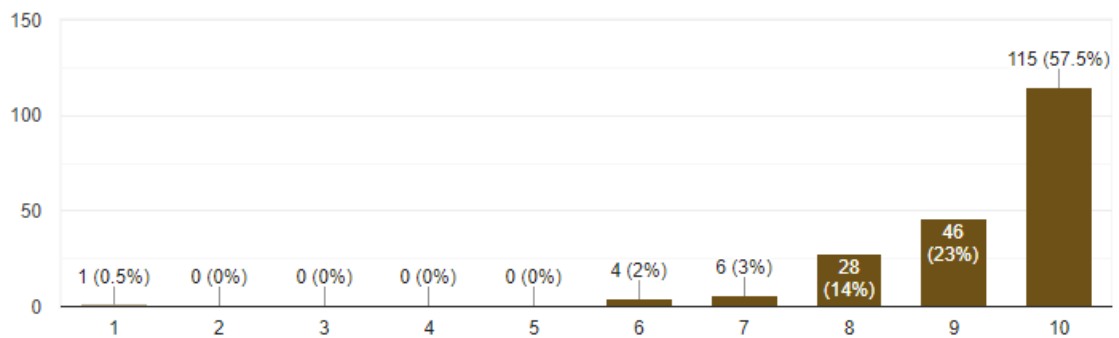
1. Your experience about the course.

200 responses



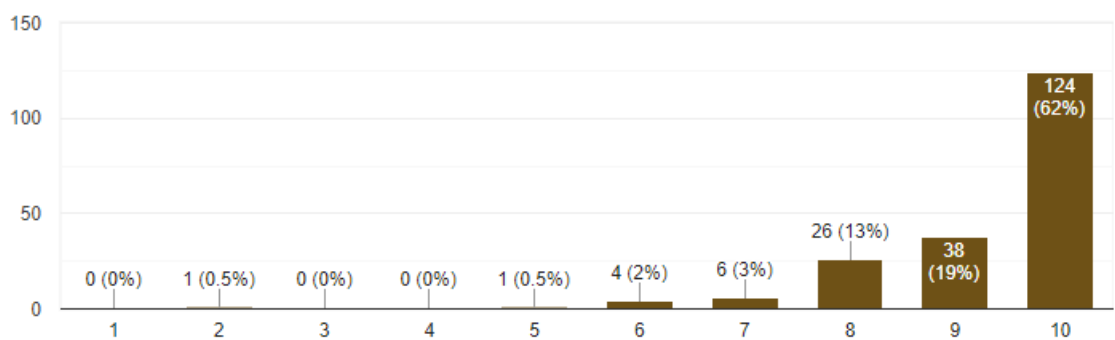
2. Knowledge enhancement.

200 responses



3. Relevancy of topics

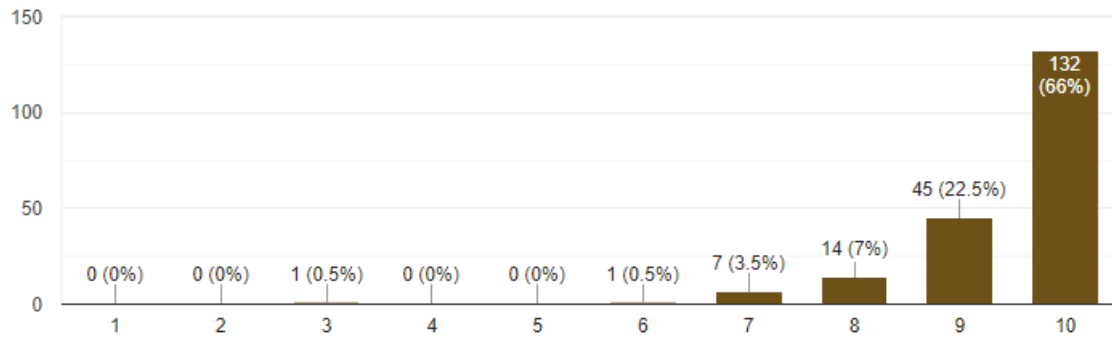
200 responses



4. About speakers.

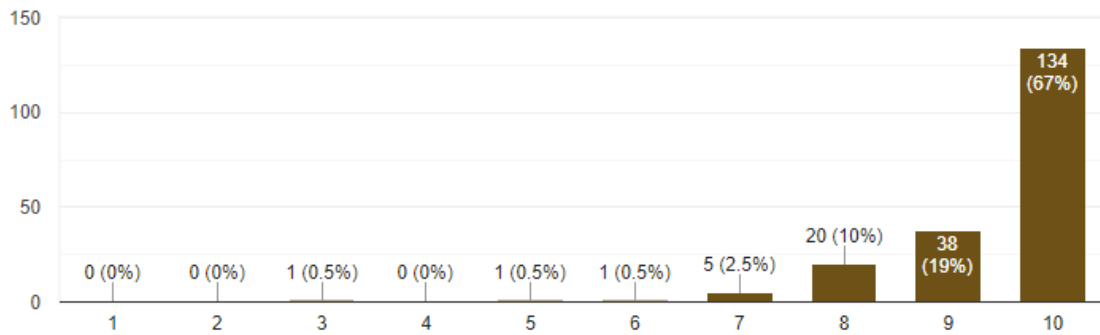


200 responses



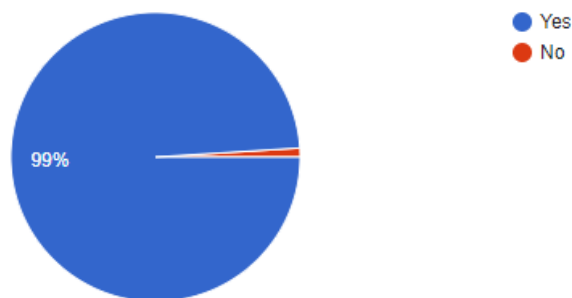
5. General Arrangement

200 responses



6. In future you want to attend such course at this Institute (SKIT, Jaipur).

200 responses



7. Topic that can be covered in the next course?

200 responses

AI
.
Yes
-
Good
Wind energy
Any
5G
IoT

8. Knowledge gained by the course.

200 responses

Yes
Good
Excellent
Excellent
good
Very good
yes
Great
-

9. Overall experience of the course.

200 responses

Good

Excellent

Excellent

Nice

Very good

good

Great

Very good

Very Good

10. Suggestions

200 responses

No

Nil

no

Good

NA

Excellent

.

Nothing

NO