



Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur



**A  
Report  
on  
One Week  
Short Term Course (STTP)  
on  
“Microwave Antennas: Design & Measurements”  
(MA-D&M-2022)**

**21<sup>st</sup> – 26<sup>th</sup> March 2022**

**Organized by:  
Department of Electronics & Communication Engineering  
in association with IEEE APS Chapter, Jaipur**



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## 1. Objective and Outcome of the event

### Objectives

- The main objective of this short term course is to provide an opportunity for students, research scholars, faculty members and industry personnel to get an exposure in the field of Microwave and Antennas
- The short term course is to give an insight into field by discussion of necessary theoretical background as well as demonstration through simulation and measurement techniques. Simulation tools.

### Outcomes

On successful completion of the course, participants will be able to:

- a) Able to explain the basic concept of antenna
- b) Able to design the antenna for given application
- c) Able to characterize and analyze the antenna from antenna parameters

∥

## 2. Budget Approval

### Sponsored by



### Technically Sponsored by



**Rekha** via rediffmailpro.com  
to Ashutosh, me, monikamathur ▾

Tue, Mar 22, 2:33 PM (11 days ago) ☆ ↶ ⋮

Dear Harshal

Please find below the payment details:

17-Mar-2022 SKIT Jaipur 203174170088 17-Mar-2022 5,000.00

Kindly acknowledge and share the Invoice for the same.

Thanks & Regards



**Rekha Bisht**

A. E-366, 2nd Floor, Nirman Vihar, Vikas Marg, Nirman Vihar, Delhi-82

T. +91-8527597760

W. www.agmatel.com



## A Report on One Week STC on MA-D&M-2022

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**From:** MAHESH KALA [mailto:[maresh.kala@jvmicronics.com](mailto:maresh.kala@jvmicronics.com)]

**Sent:** 05 February 2022 15:40

**To:** 'Dr. Monika Mathur'

**Cc:** [accounts@jvmicronics.com](mailto:accounts@jvmicronics.com); [operation1@jvmicronics.com](mailto:operation1@jvmicronics.com); [jyotsana.kala@jvmicronics.com](mailto:jyotsana.kala@jvmicronics.com)

**Subject:** RE: Updated Request for sponsorship for the STC on "Microwave Antennas:Design & Measurements"

Dear Dr. Monika Mathur,

Greetings!

We are happy to sponsor the subject programme. Please share information on transferring the sponsoring amount.

Best Regards,

Mahesh Chand Kala

CEO



413, Sector -68

Industrial Model Township

Faridabad-121004, Haryana

Mob:+91-9811290428

---



## A Report on One Week STC on MA-D&M-2022

From: <jyoti@jyotimicrosystems.com>  
Date: Wed, Feb 16, 2022, 15:11  
Subject: STC SKIT Jaipur 21-26 March - RE: CST Official Quote -SKIT Jaipur  
To: Dr. Monika Mathur <monikamathur@skit.ac.in>

Dear Maam,

Thanks for your email and invite. We will be happy to offer technical sponsorship for the event. Kindly include our attached logo in the flyer.

Kindly advise topics of interest so we can plan accordingly.

BR,

Parth Agarwal

MS(Engg)-USA

Jyoti Electronics, India

### 3. Event Brochure

 **Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur** 

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
in association with  
**IEEE APS Chapter, Jaipur**

  
**Organizes**  
**One Week Short Term Course**  
**on**  
**Microwave Antennas :Design and Measurements**  
**( 21-03-2022 to 26-03-2022 )**  
Platform: Online on Webex

**Sponsored by**

 **JV Micronics**  
 **Anritsu**  
 **Agmatel Pvt.Ltd.**

**Eminent speakers from different organizations and  
hands on from reputed companies**

**Topics:**

- ❖ **Microwave Antenna and Array.**
- ❖ **Designing on Antenna simulation software.**
- ❖ **S-Parameter Measurements on VNA.**
- ❖ **Microwave Antenna Performance Measurements.**

**Technically sponsored by:**  

**Faculty Coordinators:**

- **Prof. (Dr.) Mukesh Arora(ECE)**
- **Dr. Monika Mathur(ECE)**
- **Mr. Harshal Nigam(ECE)**
- **Ms. Rajni Idawal(ECE)**

For Registration: <https://forms.gle/jfdshAj5zeBGeo1D8>  
For more information mail us to: [monikamathur@skit.ac.in](mailto:monikamathur@skit.ac.in)  
or Contact on: 9460265776



# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Organizes  
**One Week Short Term Course**  
On  
**Microwave Antennas :Design and Measurements**  
*21st-26th March ,2022*



**Mentors**

 <b>Shri Surja Ram Meel</b> Chairman SKIT Jaipur	 <b>Shri Jaipal Meel</b> Director SKIT Jaipur	 <b>Prof.(Dr.) S.L. Surana</b> Director(Academics) SKIT Jaipur	 <b>Mrs. Rachna Meel</b> Registrar SKIT Jaipur	 <b>Prof.(Dr.) Ramesh Pachar</b> Principal SKIT Jaipur	 <b>Prof. (Dr.) R.K. Jain</b> Dean SKIT Jaipur	 <b>Prof. (Dr.) Mukesh Arora</b> Head OFA & ECE SKIT Jaipur
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**Chief Guest**  
Dr. O.P.N Calla  
Director ICRS Lab, Jodhpur

**Eminent Speakers**

**Guest of Honor**  
Dr. M.M Sharma  
Professor, MNIT Jaipur  
Chairman  
IEEE APS Jaipur Chapter



 <b>Dr. Mithalesh Kumar,</b> Professor, RTU Kota	 <b>Dr. S.K. Bhatnagar</b> Professor SKIT Jaipur	 <b>Dr. Ghanshyam Singh</b> Professor, University of Johannesburg South Africa	 <b>Dr. R.S. Meena</b> Professor RTU Kota
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 <b>Dr. Soumava Mukharjee</b> Assistant Professor IIT Jodhpur	 <b>Mr. Alok Kumar Singhal</b> Scientist-C ISRO Ahmedabad	 <b>Mr. Mahesh Kala</b> CEO JV Micronics
---	--	---

 <b>Dr. Monika Mathur</b> Associate Professor SKIT Jaipur	 <b>Dr. Sanjeev Yadav</b> Associate Professor WEC Ajmer	 <b>Dr. Dinesh Yadav</b> Associate Professor Manipal University	 <b>Ms. Renuka Wekhande</b> Senior Application Engg. Keysight
---	---	---	---

 <b>Mr. Abhay Singh</b> Senior Application Engg. Jyoti Electronics	 <b>Mr. Aditya Sharma</b> Technical Support Engg. Anritsu	 <b>Dr. Ankur Saharia</b> Assistant Professor Manipal University
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**Sponsored by**

**In association with:**

 IEEE-APS Jaipur Chapter	 Jyoti Electronics	 Agmatel Pvt.Ltd.	 JV Micronics	 Anritsu
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**Faculty Coordinators:**

Prof. (Dr.) Mukesh Arora(ECE)  
Dr. Monika Mathur(ECE)  
Mr. Harshal Nigam(ECE)  
Ms. Rajni Idiwai(ECE)

For Registration: <https://forms.gle/jfdshAj5zeBGeo1D8>  
For more information mail us to: [monikamathur@skit.ac.in](mailto:monikamathur@skit.ac.in)  
or Contact on: 9460265776

## 4. Schedule of the Event

<b>Day 1: 21. 3.2022</b> <b>(Monday)</b>	
9:30-10:15 AM	<b>Inaugural</b> <b>Chief Guest: Dr. O P N Calla (Director, ICRS Lab, Jodhpur)</b> <b>Guest of Honor: Dr. M M Sharma, Professor, MNIT Jaipur</b>
10:15AM- 11:20 AM	Dr. O.P.N Calla (Director ICRS Lab, Jodhpur), Expert Talk (Microwave Antennas and Measurements)
11:30 AM-12:30 PM	Dr. S. K. Bhatnagar, Professor, SKIT, Jaipur (Rectenna-RF Energy Harvesting)
1:30 PM-3:00 PM	Hands on session on RF/Microwave software Renuka Wekhande, Senior. Application Engineer Keysight.
<b>Day 2: 22.03.2022</b> <b>(Tuesday)</b>	
10:00 AM-11:00 AM	Dr. Dinesh Yadav, Associate Professor, Manipal University, Jaipur (Reconfigurable Antennas)
11:30 AM-12:30 PM	<b>Lecture by Mr Aditya Sharma</b> <b>Technical Support Engineer</b> Anritsu (VNA properties)
1:30 PM-3:00 PM	Hands on Session by <b>Mr Aditya Sharma</b> <b>Technical Support Engineer</b> <b>TOPIC :</b> <b>VNA AN INTRODUCTION AND MEASUREMENT TECHNIQUES</b>
<b>Day 3: 23.03.2022</b> <b>(Wednesday)</b>	
10:00 AM-11:00 AM	Dr. Sanjeev Yadav, Associate Professor, WEC, Ajmer, Jaipur (Frequency Selective Surfaces)
11:30 AM-12:30 PM	Dr. Ghanshyam Singh Professor, University of Johannesburg, South Africa (Antenna Design for Future Generations)
1:30 PM-3:00 PM	<b>Dr.R.S. Meena ( Professor, RTU Kota )</b> (Array Antenna Design)
<b>Day 4: 24.03.2022</b> <b>(Thursday)</b>	
10:00 AM-11:00 AM	Dr. Ankur Saharia Manipal University, Jaipur (Optical Antenna)

**A Report on One Week STC on MA-D&M-2022**

11:30 AM-12:30 PM	Alok Kumar Singhal, Scientist, SAC ISRO Ahmedabad (Circular Polarized antenna Array)
1:30 PM-3:00 PM	Hands on session on CST software by Mr. Abhay Singh Senior Application Engineer, Jyoti Electronics
<b>Day 5: 25.03.2022</b> <b>(Friday)</b>	
11:30 AM-12:30 PM	Mr. Mahesh Kala -CEO ,J V Micronics (Anechoic Chamber)
1:30 PM-3:00 PM	Hands on Session by Dr. Monika Mathur ,Associate Professor, SKIT, Jaipur (Antenna Designing and RF Energy Harvesting Module designing on HFSS)
<b>Day 6: 26.03.2022</b> <b>(Saturday)</b>	
10:00 AM-11:00 AM	Dr. Mithilesh Kumar, Professor, RTU Kota (Recent Trends in Microstrip Antennas)
11:30 AM-12:30 PM	Dr. Soumava Mukharjee, -Ass. Prof. ,IIT Jodhpur (Millimeter Wave and Antennas)
12:30 PM-1:00 PM	Valedictory

### 5. List of Invited Guests and Speakers

S. No	Guest/Speakers	Name and Affiliation
1.	Chief guest of Inauguration	Dr. O.P.N Calla Director ICRS Lab, Jodhpur
	Guest of Honor	Prof. M.M.Sharma Professor, MNIT jaipur
2.	Invited Speaker 1	Dr. O.P.N Calla (Director ICRS Lab, Jodhpur)
3.	Invited Speaker 2	Dr.(Prof.) S. K. Bhatnagar, Professor, SKIT, Jaipur
4.	Invited Speaker 3	Renuka Wekhande, Sr. Application Engineer Keysight.
5.	Invited Speaker 4	Dr. Dinesh Yadav, Associate Professor, Manipal University, Jaipur
6.	Invited Speaker 5	Mr Aditya Sharma Technical Support Engineer Anritsu
7.	Invited Speaker 6	Dr. (Prof.) R.S. Meena ( Professor, RTU Kota )
8.	Invited Speaker 7	Prof. Ghanshyam Singh Professor, University of Johannesburg, South Africa.
9.	Invited Speaker 8	Dr. Sanjeev Yadav, Associate Professor, WEC, Ajmer

**A R e p o r t o n O n e W e e k S T C o n M A - D & M - 2 0 2 2**

10.	Invited Speaker 9	Dr. Ankur Saharia Assistant Professor, Manipal University, Jaipur
11.	Invited Speaker 10	Alok Kumar Singhal, Scientist-C SAC ISRO Ahmedabad
12.	Invited Speaker 11	Abhay Singh Senior Application Engineer Jyoti Electronics
13.	Invited Speaker 12	Mr. Mahesh Kala CEO , J V Micronics
14.	Invited Speaker 13	Dr. Monika Mathur , Associate Professor, SKIT, Jaipur
15	Invited Speaker 14	Dr. Mithilesh Kumar Prof. RTU Kota
16	Invited Speaker 15	Dr. Soumava Mukharjee, Ass. Prof. , IIT Jodhpur

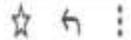
## 7. Consent of the Speakers



Mail-Ru

to me ▾

Wed, Mar 16, 4:50 PM



Sub: Invitation for the Chief guest in Short Term Course (STC) on "Microwave Antennas: Design and Measurements" scheduled to be held from 21st-26th March, 2022.

Dear Dr. Rajni Idwal

This has reference to the Subject "Invitation for the Chief guest in Short Term Course (STC) on "Microwave Antennas: Design and Measurements" scheduled to be held from 21st-26th March, 2022."

Many thanks for inviting me as Chief Guest in the Inaugural function.

I agree and accept your invitation for the Chief Guest in STC. Please Send me the detailed timing of the Inaugural Programme.

With Best Regards and Affection.

Prof OPN CALLA

...

-

With Best Regards

Prof. O.P.N. Calla

FIEEE,

Director,

International Centre for Radio Science (ICRS)

Plot No. 40, Rano ji Ka Baag, Khokhariya Bera, Nayapura,

Mandore, Jodhpur- 342304 Rajasthan, India

Tel: +91-291-2571030, 2571390

Mobile No: +91-9414130666, 9799981549

Fax: +91-291-2571390

[www.radioscience.org](http://www.radioscience.org)

## A Report on One Week STC on MA-D&M-2022

**Rajni Idwal** <rajni.idwal@skit.ac.in>  
to soumava ▾

Mar 3, 2022, 11:22 AM ☆ ↶ ⋮

**Dear Sir,  
Greetings!!!!**

We are pleased to invite you for the **expert talk in one week Short Term Course (STC) on “Microwave Antennas: Design and Measurements”** scheduled to be held from 21<sup>st</sup>-26<sup>th</sup> March, 2022 in our institute (**Swami Keshvanand Institute of Technology Management & Gramothan (SKIT,M&G)**). Short term course is proposed to be on online Platform (WebEx).

SKIT M&G inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today the institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to **Rajasthan Technical University**, Kota for offering Doctorate, Postgraduate, and Graduate Courses in Engineering and Management. It has been ranked no. 1 by RTU, Kota continuously since the last five years.

Your expertise and experience in this field of work will be an excellent addition to our program on **Microwave Antennas: Design and Measurements** as many of our visitors will look forward to hearing and learning from your experience.

So, it is an honor to invite you for an expert lecture.

Please spare some time from your busy schedule to enlighten us with your knowledge.

If you accept the invitation please send

**(1) your brief bio with Photograph**

Looking forward to a positive response.

**Host Institute:** Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagar, Jagatpura, Jaipur-302017 (India)

**Institute Website:** [www.skit.ac.in](http://www.skit.ac.in)

Thank you.

Regards

**Organizing Team**

**STC-ECE**

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

Windows Update

**Updates are available**  
Required updates need to be installed.



**Soumava Mukherjee**  
to me ▾

Thu, Mar 3, 1:58 PM ☆ ↶ ⋮

Dear madam,

Thank you for the invitation. PFA the bio.

Thanks,

Soumava Mukherjee  
Assistant Professor  
Room: 225,  
Department of Electrical Engineering  
Indian Institute of Technology Jodhpur  
NH-62, Nagour Road, Karwar, Jodhpur, 342030  
Rajasthan, India  
Email: [soumava@iitj.ac.in](mailto:soumava@iitj.ac.in)

## A Report on One Week STC on MA-D&M-2022

Dr. Ankur Saharia [MU - Jaipur]

Mon, Mar 14, 12:43 PM ☆ ↶

to me ▾

thankyou for the invitation. I would be happy to be part of the event

**Best Regards**

**Dr Ankur Saharia**

**Assistant Professor-Sr. Scale**

**Department of ECE**

**Manipal University-Jaipur**

---

**From:** Rajni Idawal <[rajni.idiwal@skit.ac.in](mailto:rajni.idiwal@skit.ac.in)>

**Sent:** Monday, March 14, 2022 9:04 AM

**To:** Dr. Ankur Saharia [MU - Jaipur] <[ankur.saharia@jaipur.manipal.edu](mailto:ankur.saharia@jaipur.manipal.edu)>

**Subject:** Invitation for the expert talk in short term course on "Microwave Antennas: Design and Measurements"

...

**Dear Sir,**

**Greetings!!!!**

We are pleased to invite you for the **expert talk in one week Short Term Course (STC) on "Microwave Antennas: Design and Measurements"** scheduled to be held from 21<sup>st</sup>-26<sup>th</sup> March, 2022 in our institute (**Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT,M&G)**). Short term course is proposed to be on online Platform (WebEx).

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Your expertise and experience in this field of work will be an excellent addition to our program on **Microwave Antennas: Design and Measurements** as many of our visitors will look forward to hearing and learning from your experience.

So, it is an honor to invite you for an expert lecture.

Please spare some time from your busy schedule to enlighten us with your knowledge.

We would like to keep your session on 24th March,2022 at 10 AM-11 AM.

If you accept the invitation please send

**(1) your brief bio with Photograph**

Looking forward to a positive response.

**Host Institute:** Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagar, Jagatpura, Jaipur-30 (India)

**Institute Website:** [www.skit.ac.in](http://www.skit.ac.in)

Thank you.

Regards

**Organizing Team**

**STC-ECE**

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

## A Report on One Week STC on MA-D&M-2022



Dr. Sanjeev Yadav

to me ▾

Mon, Mar 14, 2:06 PM ☆ ↶ ⋮

Dear Mam

Thanks for the Invitation.

I am happy to be a part of this prestigious event.

Brief Profile:

Dr. Sanjeev Yadav is currently working as Head of Department, Electronics and Communication Engineering, Govt. Women Engineering College Ajmer. He has been working at Govt. Women Engineering College, Ajmer since 2012 and having more than 10 years of experience. He obtained his PhD degree in 2018 and M.Tech in 2010 from MNIT Jaipur. He completed his B.Tech degree in 2007 from U.P. Technical University, Lucknow

He is Senior Member of IEEE and Life Member of IETE. He is Vice Chair of IEEE Rajasthan Subsection for the year 2022 and Exacom Member of IEEE Antenna and Propagation Chapter, Delhi Section for year 2022. He has also served as Secretary for IEEE Rajasthan Subsection for 2021 & 2020 and Secretary for IEEE APS Chapter- Jaipur for the year 2019, 2020 and 2021. He has also served as Treasurer of IEEE Rajasthan Subsection in 2019. He is the author of IEEE Transaction Paper in IEEE Transaction in Electromagnetic Compatibility. He has authored more than 130 research papers in various conferences and Journals. He is also the author of one research book published by an international publisher. He has delivered many invited talks in various capacities in FDP/STTP/ Workshops and other events. He is a reviewer of many International Journals and conferences. He has guided more than 15 M.Tech students. He has organized many International and National Conferences and Events. He has been awarded Research Fellowship award at IIT Delhi for two consecutive years 2017 & 2018. His area of interest is Antenna, Frequency Selective Surfaces and Microwaves.

With Best Regards,

[Dr. SANJEEV YADAV](#)

Head of the Department,

Department of Electronics and Communication Engineering

SPOC, NPTEL Chapter

Senior Member IEEE, Associate Member IETE

Govt. Women Engineering College Ajmer

Nasirabad Road, Makhupura, Ajmer

Rajasthan - 305002

&

*Secretary, IEEE Rajasthan Subsection, 2020*

*Treasurer, IEEE Rajasthan Subsection, 2019*

*Secretary, IEEE Delhi Section Antenna and Propagation Society Chapter-Jaipur*

Mob. No. : (+91) 8955242542

E-mail: [sanjeev.yadav@gweca.ac.in](mailto:sanjeev.yadav@gweca.ac.in)

[sanjeev.yadav.in@ieee.org](mailto:sanjeev.yadav.in@ieee.org)

[sanjeev.mnit@gmail.com](mailto:sanjeev.mnit@gmail.com)



Renuka W

to me ▾

Wed, Mar 16, 9:44 AM



Dear Mam,

Thank you for invitation

Please find my profile below.

-

Renuka Wekhande-Andankar

Sr. Application Engineer—Pathwave Design Software

Keysight Technologies, Bangalore

- Over 15 years of design, test and measurement experience in RF and Microwave Industry.
- Successfully delivered Highly integrated 5G Complex Transceiver chips consisting of 14 different functions on a monolithic chip.
- Designed and developed 200+ RFIC/MMIC products using GaAs (pHEMT) and Si CMOS technologies.
- Managed engineering organization with 15+ engineers in small startup.
- Delivered Training sessions in Universities and Government organization like BEL and DRDO.
- 1 patent granted: -  
"CONTROLLABLE RF PHASE SHIFTER" for 5G Application.
  
- Published 2 papers in International journals: -
  1. Compact Highly Linear 2-6GHz Low Noise Amplifier for Digital RF.
  2. A prospective design Methodology of MMIC 2- 6 GHz Low Noise Amplifier
  
- Education: M.E(VLSI and Embedded System Design) Pune University, Pune, B.E (Electronics), VNIT Nagpur.

Best Regards

Renuka Wekhande

Sr.Application Engineer

Mob: 9319530056

Technical Support, Please write to: [eesof-europe\\_support@keysight.com](mailto:eesof-europe_support@keysight.com)

**MAHESH KALA**

Thu, Mar 17, 10:07 PM ☆ ↶ ⋮

to jyotsana, operation1, me ▾

Dear Madam,

Thank you very much for your invitation . With due respect I accept it.

Kindly find attached CV and photo of undersigned.

Best Regards,

Mahesh Chand Kala

CEO



413,Sector -68

Industrial Model Township

Faridabad-121004, Haryana

Mob:+91-9811290428

TeleFax: +91-129-2977291

Website:[www.jvmicronics.com](http://www.jvmicronics.com)

## 8. List of Participants (Outside SKIT)

S.N	Email Address	Participant Name	Institute	Type
1	balaji.a@ritchenai.edu.in	A.Balaji	Rajalakshmi Institute of Technology, Chennai	Faculty
2	btech25104.19@bitmesra.ac.in	Abhishek Srivastava	BIRLA INSTITUTE OF TECHNOLOGY, RANCHI	Student
3	Guptaakku1994@gmail.com	akanksha gupta	jecrc university	Research Scholar
4	amitvpatel.ec@charusat.ac.in	Amit Patel	Chandubhai S Patel Institute of Technology	Faculty
5	kr.amrit12@gmail.com	Amrit Singh	Birla institute of technology, Mesra	Student
6	aayushmishra02109@gmail.com	Ayush Kumar Mishra	Birla Institute Of Technology , Mesra	Research Scholar
7	bhawna.kalra1993@gmail.com	Bhawna Kalra	JECRC, Jaipur	Faculty
8	brendam@veltech.edu.in	Brenda M	Veltech Rangarajan Dr Sagunthala R & D Institute of Science and Technology	Faculty
9	cm.sacet@gmail.com	C. Malarvizhi	Rajalakshmi Institute of technology	Faculty
10	gaurangikhadse@gmail.com	Deepak Ramkrishna Khadse	Shri Sant Gadge College of Engineering and Technology Bhusawal	Faculty
11	dipak.sakhala@gmail.com	Dipak Omprakash Sakle	Shri Sant Gadge Baba College of Engineering and Technology, Bhusawal	Research Scholar
12	divanshujain@jklu.edu.in	Divanshu jain	JK Lakshmi Pat University	Faculty
13	neetu.joshi@jiit.ac.in	Dr Neetu Joshi	Jiit noida	Faculty
14	er.ajaydwivedi@gmail.com	Dr. Ajay Kumar Dwivedi	Nagarjuna College of Engineering and Technology, Bengaluru	Faculty
15	vasubabuece@gmail.com	Dr. K Vasu Babu	Vadireddy Venkatadri Institute of Technology	Faculty
16	nageshlakmaya@gmail.com	Dr. Nagesh K.N	Nagarjuna College of Engineering and Technology, Bengaluru	Faculty
17	sourabh.mnit12@gmail.com	Dr. Sourabh Sahu	GGITS Jabalpur	Faculty
18	akhileshjkit@gmail.com	Dr.Akhilesh Kumar Pandey	Bharat Ratna Indira Gandhi college of Engineering solapur Maharashtra	Faculty
19	dbhardwaj@bitmesra.ac.in	Dr.Dheeraj Bhardwaj	BIT MESRA, Jaipur Campus	Faculty
20	vishaparekh2003@gmail.com	Dr.K.VISHALAT CHI	Dhanalakshmi Srinivasan Engineering College	Faculty
21	srinumodali@gmail.com	Dr.M.S.S.S.SRI NIVAS	Raghu Institute of Technology	Faculty
22	RAMYAP@bitsathy.ac.in	Dr.Ramya P	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	Faculty
23	pera.sweetey@gmail.com	DR.T.PERARA SI	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	Faculty
24	gurjeevansandhu@gmail.com	Gurjeevan Singh	Thapar Institute of Engineering and Technology, Patiala	Research Scholar

**A Report on One Week STC on MA-D&M-2022**

25	btech25129.19@bitmesra.ac.in	Harsh Deep Singh	Birla institute of technology, Mesra	Student
26	jawadaliahmad5@gmail.com	Jawad Ali	giki	Student
27	rajeswari.kc93@gmail.com	K.C.RAJARAJE SHWARI	Dr.Mahalingam college of engineering and technology	Faculty
28	venugopal.kondapalli@gmail.com	K.Venu Gopal	Andhra University College of Engineering (A), Vishakhapatnam	Research Scholar
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**A Report on One Week STC on MA-D&M-2022**

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3	Abhinandan Jain	ECE	829	<a href="mailto:Abhinandan.jain@skit.ac.in">Abhinandan.jain@skit.ac.in</a>
4	Dr. Shubhi Jain	ECE	59	Shubhi.jain@skit.ac.in

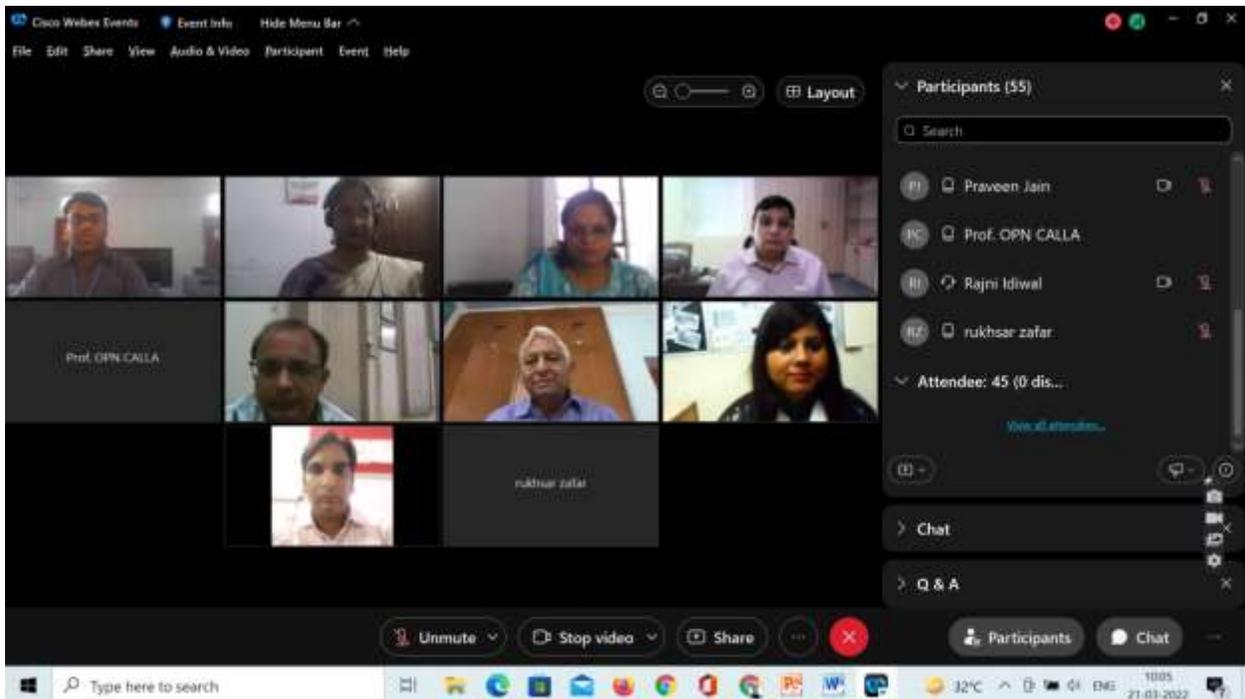
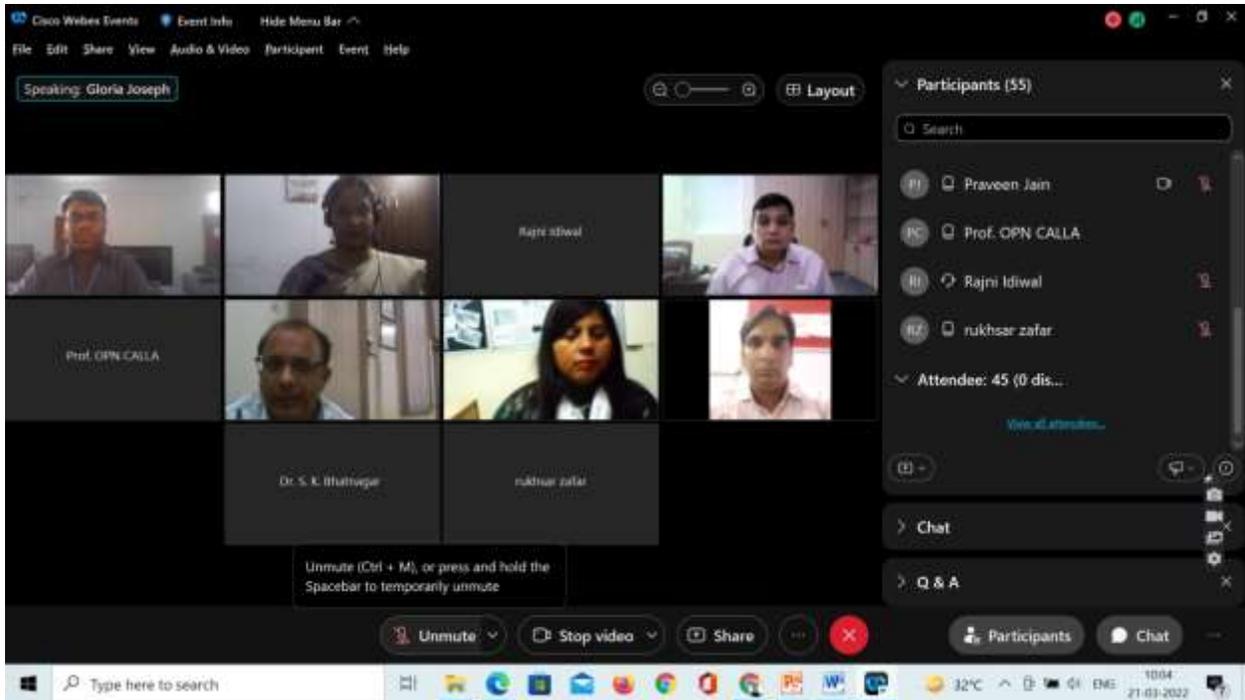
### List of Participants (SKIT-Student)

S.No.	Participant Name	Department	Roll No.	Email ID (Registered)
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6	Manoj Garg	ECE	19ESKEC081	<a href="mailto:mohitkumawat6700@gmail.com">mohitkumawat6700@gmail.com</a>
7	Mohit kumawat	ECE	20ESKEC074	<a href="mailto:yadav13mohit@gmail.com">yadav13mohit@gmail.com</a>
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9	Niharika Chugh	ECE	20ESKEC081	<a href="mailto:prachidhiliwal@gmail.com">prachidhiliwal@gmail.com</a>
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**A R e p o r t o n O n e W e e k S T C o n M A - D & M - 2 0 2 2**

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## 8. Screenshots of the Event



# A Report on One Week STC on MA-D&M-2022

This screenshot shows a Zoom meeting interface. The main content is a presentation slide with the following text:

Viewing O.P.N. CALLA's appl... ICRS

## Microwave Antennas and Measurements

BY  
**PROF. O. P. N. CALLA**  
DIRECTOR, ICRS \*

on  
**21<sup>st</sup> March 2022**  
At  
One Week Short Term Course  
On  
Microwave Antennas: Design and Measurements

Organized By: DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,  
Swami Keshyanand Institute of Technology,  
Management & Gramathan, Jaipur.

\* International Centre For Radio Science (ICRS)  
Office \*Bld. No- 40 Ramji Ka Bhag., Khudharja Bera, Nayapura, Mandla  
IDDHPUR- 342204

OPNC

Participants (54): Harsh..., O.P.N. CALLA, Dr. Mukesh Arora, Dr. S. K. Bhatnagar, Monika Mathur.

Unmute, Stop video, Share, Participants, Chat

This screenshot shows a Zoom meeting interface. The main content is a presentation slide with the following text:

Viewing O.P.N. CALLA's appl... ICRS

## 5. DUAL POLARIZED RECTANGULAR CORRUGATED HORN ANTENNA FROM 8-18 GHz

### 5.1 Introduction to 8-18 GHz Rectangular Corrugated Horn Antenna

Dual polarized Rectangular Corrugated Horn Antenna at 8-18 GHz frequency has been designed and simulated in HFSS Software. In order to meet the specified gain, dual polarization and beamwidth requirement the horn with square aperture was found pertinent. The horn with square aperture leads to an almost rotationally symmetric pattern with equal E- and H- plane beam widths. The horn presented is flared in both directions and its radiation characteristics are essentially a combination of both E-plane and H-plane sectoral horns. The configuration which was finalized and simulated considering parameters like gain, beamwidth, VSWR etc. is shown in Fig. 5.1 (a), (b). Fig 5.1 (c) shows the corrugation geometry and Table 5.1 (a) shows the parameter values for Corrugation geometry for 8-18 GHz dual Polarized horn antenna.

The configuration of designed Rectangular Corrugated horn antenna

OPNC

Participants (53): Harsh..., O.P.N. CALLA, Dr. Mukesh Arora, Dr. S. K. Bhatnagar, Monika Mathur.

Unmute, Start video, Share, Participants, Chat

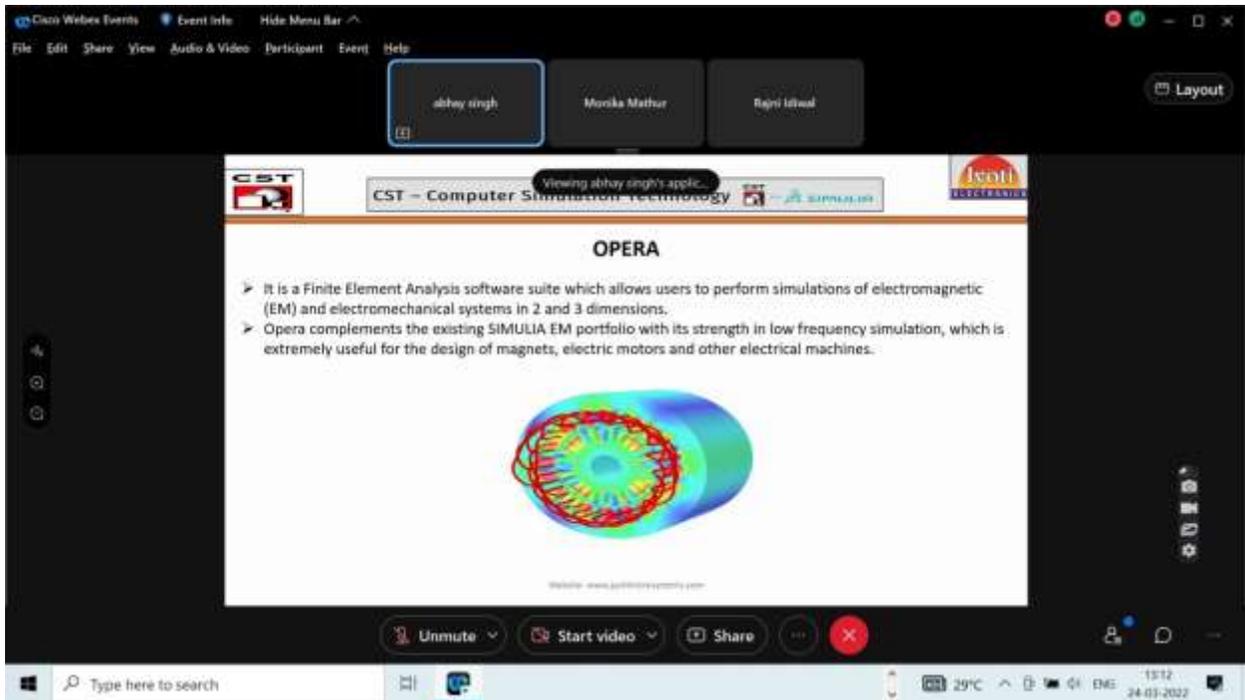
This screenshot shows a Cisco Webex meeting interface. The main content is a presentation slide titled "Pathwave ADS - Advancing the Design System". The slide features the text "Premier High-Frequency & High-Speed Design Platform" and lists several key capabilities: Schematic Entry, RF Layout and Verification, Data Display and Post Processing, Industry leading simulation technology, Tuning Optimization & Statistical design, 3D planar & Full 3D EM field solvers, Best and broadest selection of Foundry developed PDKs & SMD libraries, Design Flow Integration with Cadence, Mentor, Zuken, Intertec, X parameter model generation from circuit schematic and Keysight's NVNA, and Wireless Libraries enable design and verification of designs to emerging wireless standards. The slide also includes a screenshot of the ADS software interface with the text "ADS helps designers fully characterize, optimize and produce designs." The meeting controls at the bottom show "Unmute", "Start video", and "Share" buttons. The right sidebar displays a list of participants, including Harsh, Renuka Wekhande, Monika Mathur, and Rajni Idwal, with a total of 47 attendees.

This screenshot shows a Cisco Webex meeting interface. The main content is a presentation slide titled "Design and Development of Reconfigurable Antennas". The slide includes logos for IETE and SKIT, and text indicating the presentation is organized by the Department of ECT, SKIT Jaipur, from March 21-26, 2022. The presenter is identified as Dr. Dinesh Yadav, Hom. Secretary, IETE Rajasthan Centre, Jaipur, and an Associate Professor at Manipal University. The slide also mentions the Department of Electronics & Communication Engineering, School of Electrical, Electronics & Communication Engineering, Manipal University. The meeting controls at the bottom show "Unmute" and "Stop video" buttons. The right sidebar displays a list of participants, including Harsh, Dr. Dinesh Yadav, and Rajni Idwal, with a total of 35 attendees.

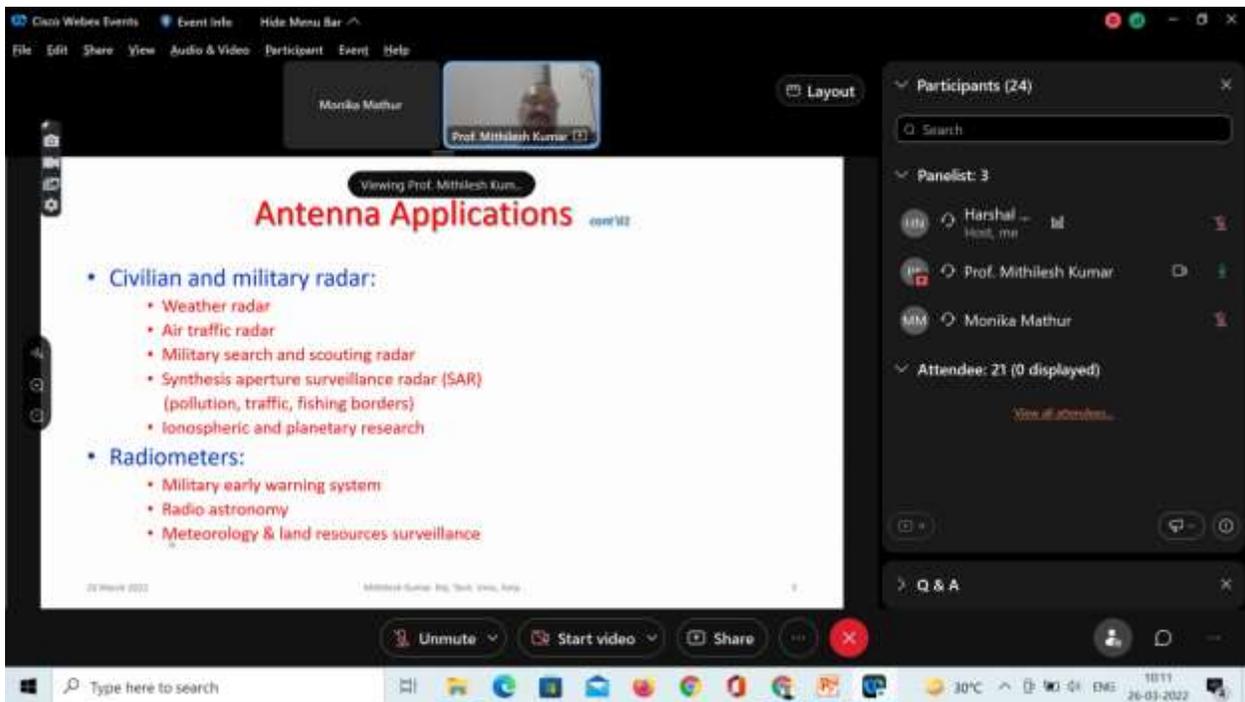
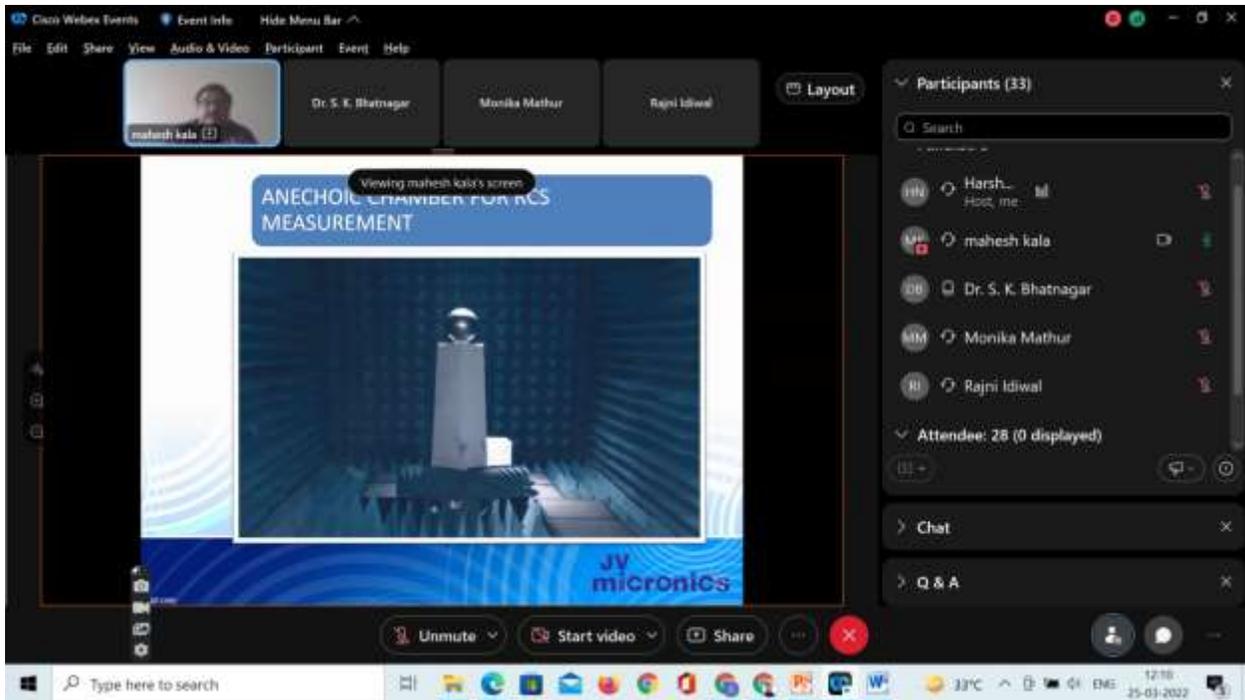
The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "Optical Antenna: introduction". The slide text reads: "Optical antenna: a device designed to efficiently convert free-propagating optical radiation to localized energy, and vice versa." Below this, it states: "Antennas can enhance several distinct photophysical processes, outlined in Fig." The figure consists of three diagrams labeled (a), (b), and (c). Diagram (a) is labeled "LED", (b) is "photovoltaics", and (c) is "spectroscopy". Below the diagrams, the caption reads: "Antenna-based optical interactions: (a) antenna-coupled LED, (b) antenna-coupled photovoltaics, (c) antenna-coupled spectroscopy." The Zoom interface includes a top bar with "Cisco Webex Events", "Event Info", and "Hide Menu Bar". The top right shows "Participants (28)" with a search bar and a list of panelists: Harshal (Host, mic), ankur seharia, and Monika Mathur. The bottom of the screen shows the Windows taskbar with various application icons and system tray information including "29°C" and "24.03.2022".

The screenshot shows a Zoom meeting interface. The main content is a presentation slide titled "4 Section Septum polarizer at 25 to 28GHz". The slide features a 3D diagram of a four-section septum polarizer. The diagram shows four sections labeled "Port-1", "Port-2", "Port-3", and "Port-4". The top section is labeled "RHCP port -Port3" and the bottom section is "LHCP port -Port2". The diagram includes three sets of arrows representing wave propagation: a blue arrow labeled  $1 \angle 0^\circ$ , a red arrow labeled  $1 \angle -90^\circ$ , and a green arrow labeled  $1 \angle -90^\circ$ . To the right of the diagram, the text reads "LHCP-port2 Blue and Green signal". The Zoom interface includes a top bar with "SAC" and "Viewing Anok Kumar Singhal...". The bottom of the screen shows the Windows taskbar with various application icons and system tray information including "10:04 AM" and "24.03.2022".

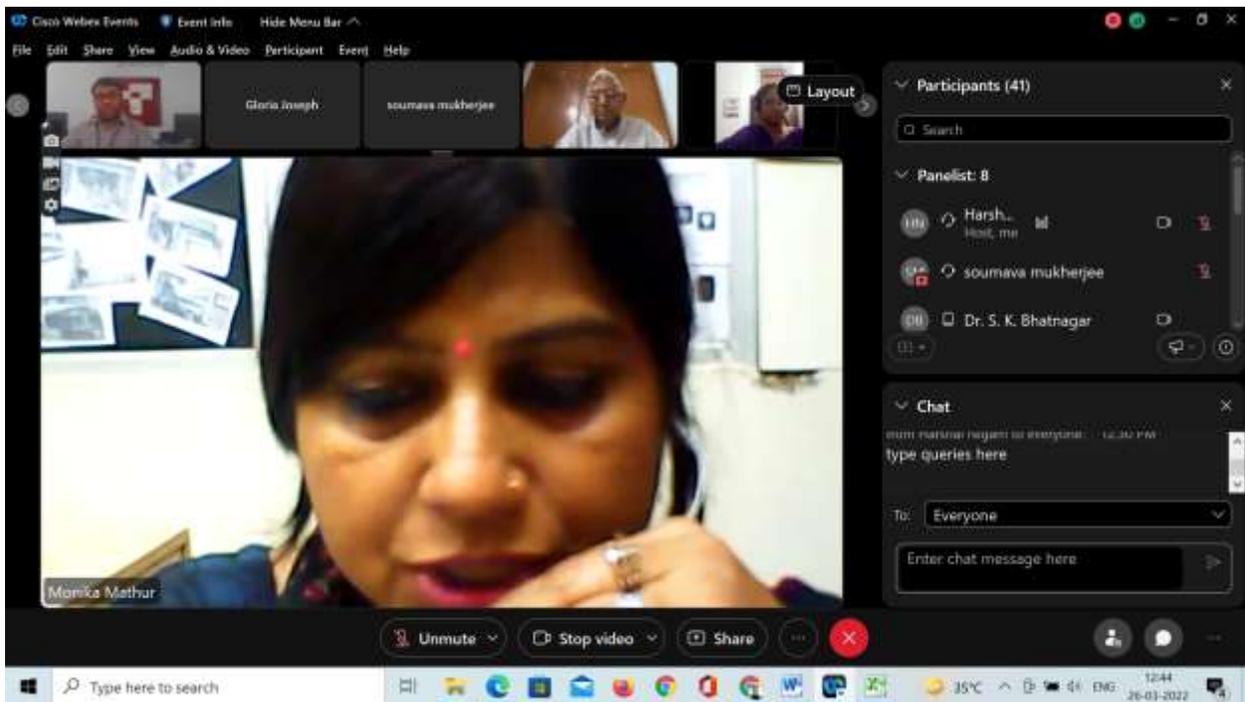
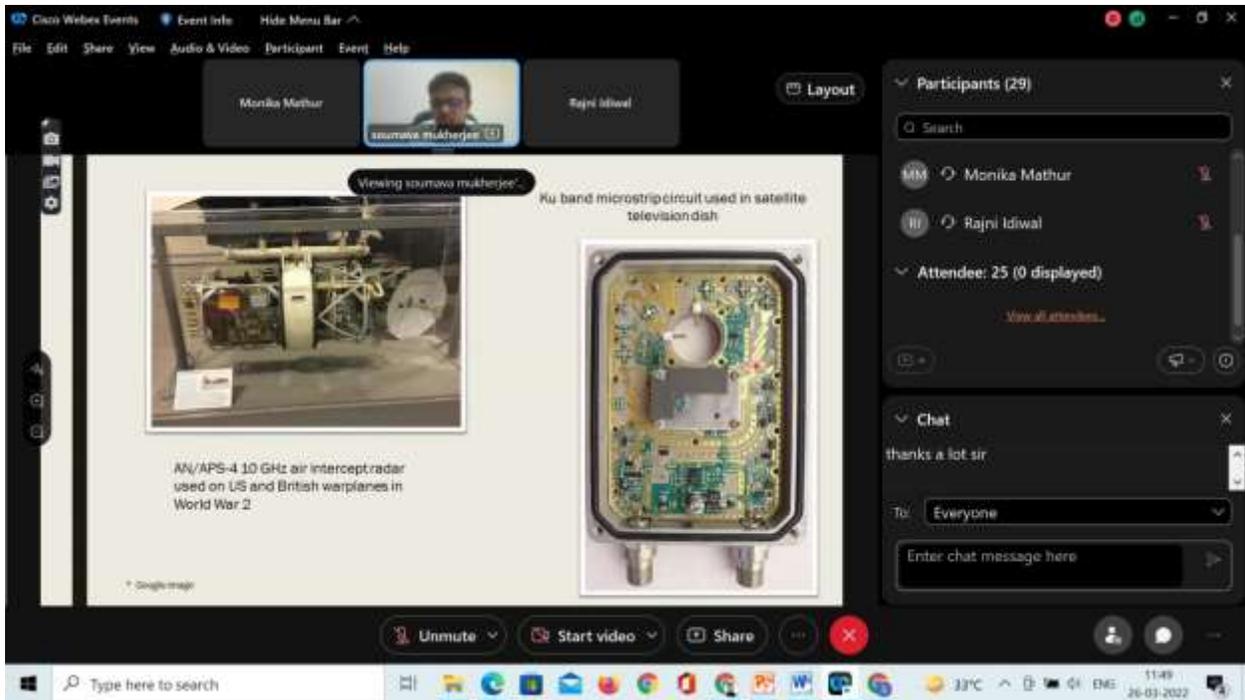
# A Report on One Week STC on MA-D&M-2022



# A Report on One Week STC on MA-D&M-2022



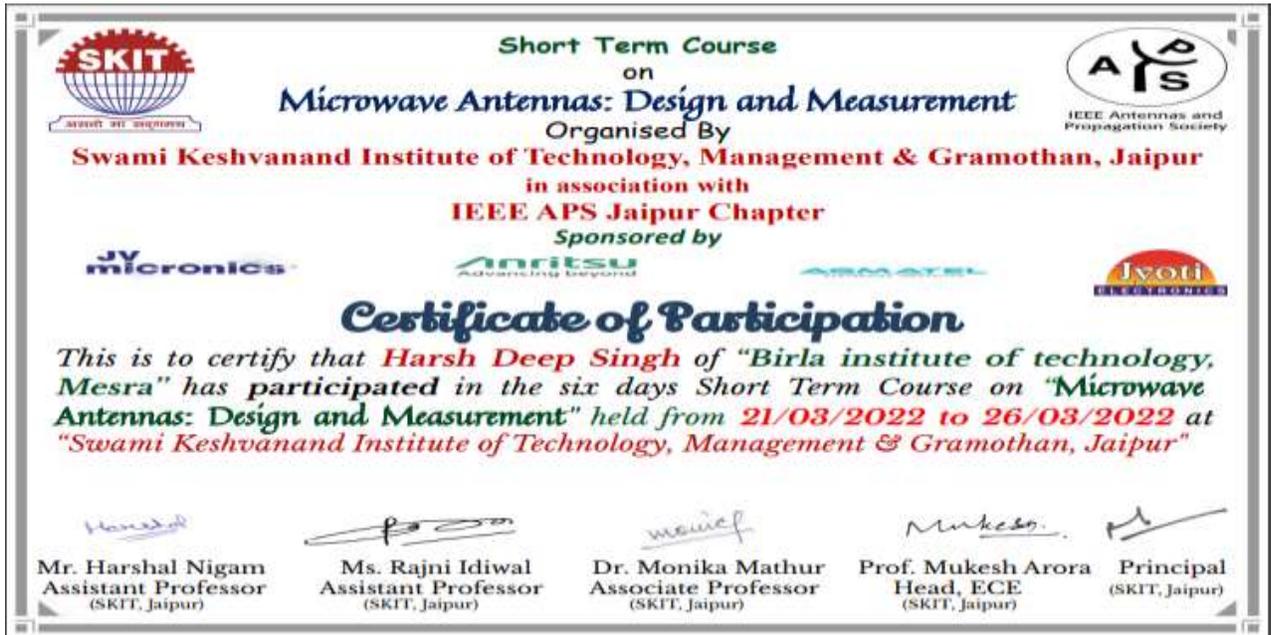
# A Report on One Week STC on MA-D&M-2022



# A Report on One Week STC on MA-D&M-2022



## 9. Sample Copy of Certificate



Short Term Course  
on  
**Microwave Antennas: Design and Measurement**  
Organised By  
**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**  
in association with  
**IEEE APS Jaipur Chapter**  
Sponsored by  
**JV micronics** **Anritsu** **ASMATTEL** **Jyoti ELECTRONICS**

**Certificate of Participation**

*This is to certify that **Harsh Deep Singh** of "Birla institute of technology, Mesra" has participated in the six days Short Term Course on "Microwave Antennas: Design and Measurement" held from **21/03/2022 to 26/03/2022** at "Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur"*

*Harsh D.*  
Mr. Harshal Nigam  
Assistant Professor  
(SKIT, Jaipur)

*Rajni I.*  
Ms. Rajni Idiwai  
Assistant Professor  
(SKIT, Jaipur)

*Monika M.*  
Dr. Monika Mathur  
Associate Professor  
(SKIT, Jaipur)

*Mukesh A.*  
Prof. Mukesh Arora  
Head, ECE  
(SKIT, Jaipur)

*[Signature]*  
Principal  
(SKIT, Jaipur)

## Expert Certificate



Short Term Course  
on  
**Microwave Antennas: Design and Measurement**  
Organised By  
**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**  
in association with  
**IEEE APS Jaipur Chapter**  
Sponsored by  
**JV micronics** **Anritsu** **ASMATTEL** **Jyoti ELECTRONICS**

**Certificate of Appreciation**

*This is to certify that **Mr. Alok Kumar Singhal** "Scientist, ISRO Ahmedabad" has contributed as a Resource Person in the six days Short Term Course on "Microwave Antennas: Design and Measurement" held from **21/03/2022 to 26/03/2022** at "Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur"*

*Monika M.*  
Dr. Monika Mathur  
Associate Professor  
(SKIT, Jaipur)

*Mukesh A.*  
Prof. Mukesh Arora  
Head, ECE  
(SKIT, Jaipur)

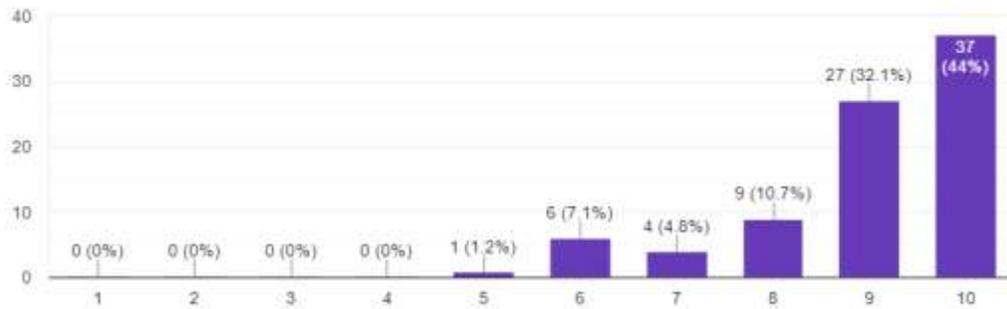
*[Signature]*  
Principal  
(SKIT, Jaipur)

## 11. Feedback report

### 1. Your experience about the STC.



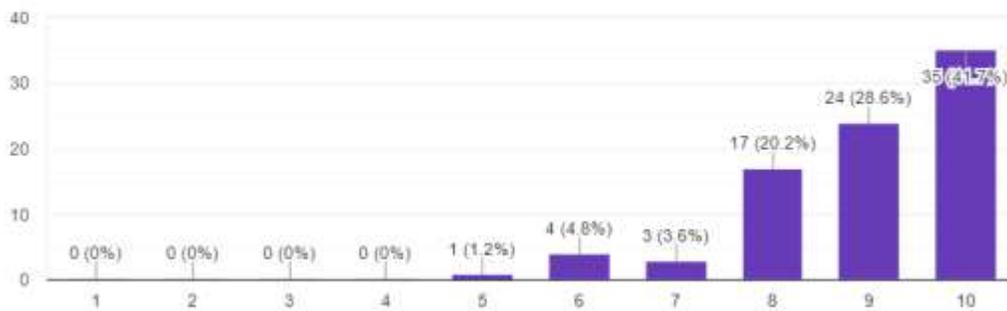
84 responses



### 2. Knowledge enhancement.



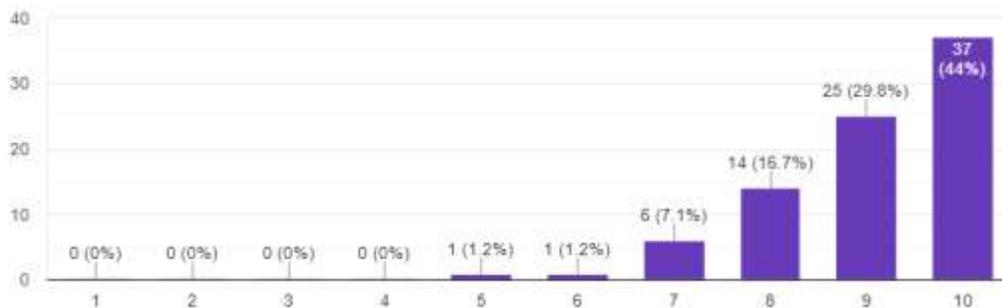
84 responses



### 3. Relevancy of topics



84 responses

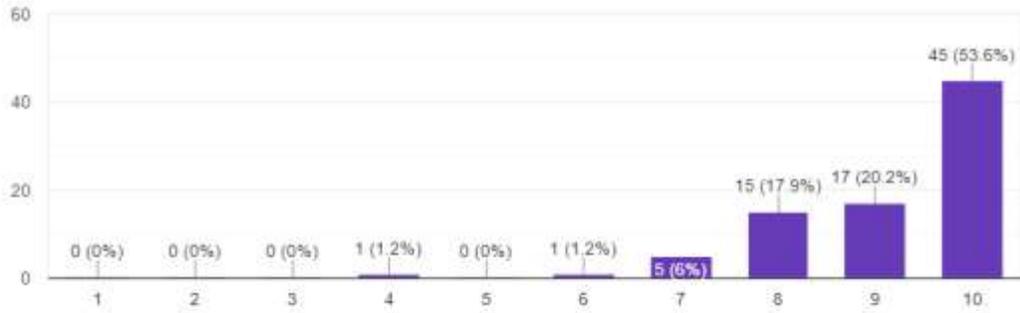


# A Report on One Week STC on MA-D&M-2022

## 4. About speakers.

 Copy

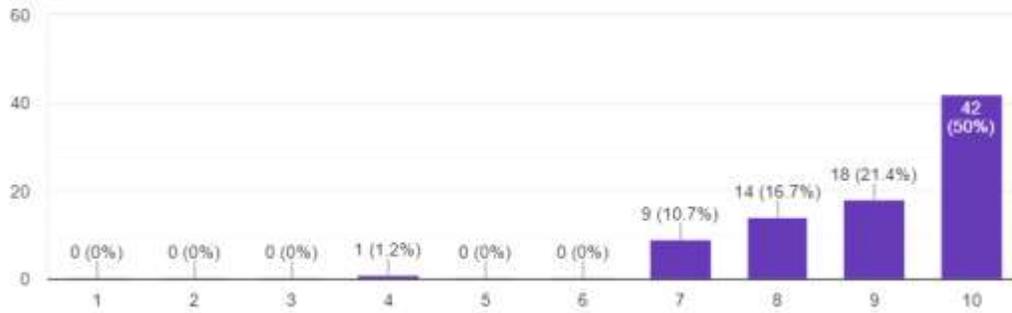
84 responses



## 5. General Arrangement

 Copy

84 responses



8. Knowledge gained by the STC.

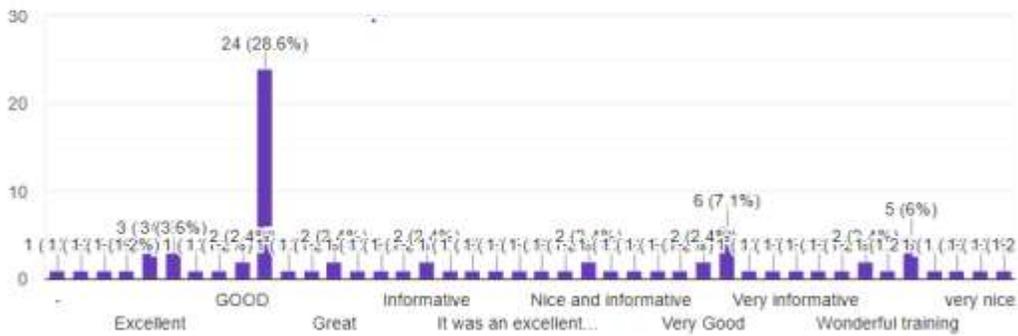
84 responses

- knowledge about different kinds of antenna designs and simulators...
- good
- Worth
- Knowledge about different types of antenna.
- Knowledge about different antennas
- Highly knowledgeable
- Types of antenna, construction and working principle of antenna
- Microstrip Patch Antenna lecture was very good
- Hugh Knowledge

9. Overall experience of the STC.



84 responses



10. Suggestions

84 responses

Nice presentation

Please held something like this more. Thank you

thank you very much such wonderful STC...

Next time please maintain normal pace

Each and everything was perfect

A little slower approach would be appreciated a lot

Not any.

I am going to wait for the next course as soon as possible

Knowledgeable STC

### 13. Media Coverage

## छह दिवसीय शॉर्ट ट्रेनिंग कोर्स शुरू



#### खबरों की दुनिया

जयपुर। जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में इलेक्ट्रॉनिक्स एवं कम्युनिकेशन डिपार्टमेंट की ओर से ऑनलाइन प्लेटफार्म पर छह दिवसीय शॉर्ट ट्रेनिंग कोर्स की शुरुआत हुई। इस कार्यक्रम के मुख्य अतिथि डॉ. ओ पी एन कल्ला तथा विशिष्ट अतिथि डॉ. एम.एम.शर्मा रहे। डॉ. कल्ला ने इस एसटीसी के

आयोजन पर एसकेआईटी को बधाई दी तथा इस एसटीसी को एंटीना क्षेत्र के शोधकर्ताओं के लिए बहुपयोगी बताया। इसी क्रम में डॉ. एमएम शर्मा ने एंटीना क्षेत्र के विभिन्न अनुप्रयोगों के बारे में बताया तथा उसमें हो रहे शोध के अवसरों पर चर्चा की। कार्यक्रम की शुरुआत में डिपार्टमेंट हेड मुकेश अरोड़ा ने सभी गणमान्य अतिथियों एवं पार्टिसिपेंट्स का स्वागत किया तथा माइक्रोवेव एंटीना के महत्व पर प्रकाश डाला।

# एसकेआईटी मे ऑनलाइन छः दिवसीय शॉर्ट ट्रेनिंग कोर्स का शुभारंभ

## P3 Police Public Politics

जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोद्यान में इलेक्ट्रॉनिक्स एवं कम्युनिकेशन डिपार्टमेंट द्वारा आईईई एपीएस, जेवी माइक्रोनिक्स, अनरित्सु, एगमाटेल, ज्योति इलेक्ट्रॉनिक्स द्वारा प्रायोजित एक ऑनलाइन छः दिवसीय शॉर्ट ट्रेनिंग कोर्स का शुभारंभ हुआ। इस कार्यक्रम के मुख्य अतिथि डॉ. ओ पी एन कल्ल , (डायरेक्टर आईसीआरएस लैब जोधपुर) तथा विशिष्ट अतिथि

डॉ. एम.एम.शर्मा (प्रोफेसर एमएनआईटी जयपुर) रहे। डॉ. कल्ल ने इस एसटीसी के आयोजन पर एसकेआईटी को बधाई दी तथा इस एसटीसी को एंटीना क्षेत्र के शोधकर्ताओं के लिए बहुपयोगी बताया। इसी क्रम में डॉ. एमएम शर्मा ने एंटीना क्षेत्र के विभिन्न अनुप्रयोगों के बारे में बताया तथा उसमें हो रहे शोध के अवसरों

पर चर्चा की। कार्यक्रम की शुरुआत में विभागाध्यक्ष प्रो. (डॉ.) मुकेश अरोड़ा ने सभी गणमान्य अतिथियों एवं पार्टिसिपेंट्स का स्वागत किया तथा माइक्रोवेव एंटीना के महत्व पर प्रकाश



डाला। कार्यक्रम के कोर्डिनेटर मि. हर्षल निगम ने सभी प्रतिभागियों के साथ एसटीसी का संक्षिप्त प्रारूप साझा किया। उद्घाटन समारोह के अंत में मिस रजनी इडीवाल ने सभी आगंतुको को धन्यवाद ज्ञापित किया। इस एसटीसी के प्रथम दिन कुल 3 टेक्निकल सत्र संपन्न हुए। प्रथम टेक्निकल सत्र में प्रो. कल्ल, ने

माइक्रोवेव एंटीना के विभिन्न अनुप्रयोगों के बारे में बताया तथा उन्होंने आईसीआरएस लैब में एंटीना फैसिलिटी से सभी को परिचित कराया, तथा इसे शोधकर्ताओं के लिए बहुत ही उपयोगी बताया। द्वितीय सत्र में डॉ.एसके भटनागर (प्रोफेसर एसके आईटी )ने रेक्टिना के सर्किट और उसके विभिन्न अनुप्रयोगों की विस्तृत व्याख्या की। तीसरे सत्र में एक हैड्स ऑन प्रैक्टिस सत्र का आयोजन हुआ जिसमें मिस रेणुका वेखडे (सीनियर एप्लीकेशन इंजीनियर कीसाइट

टेक्नोलॉजी )ने ए.डी.एस सॉफ्टवेयर के उपयोग तथा सिमुलेशन के बारे में जानकारी दे। इस कार्यक्रम के समन्वयक प्रो. मुकेश अरोड़ा ,डॉ.मोनिका माधुर, मिस रजनी इडीवाल तथा मि. हर्षल निगम रहे। कार्यक्रम का संचालन मिस ग्लोरिया जोसेफ ने किया। इस कार्यक्रम में कुल 148 प्रतिभागी सम्मिलित हुए।

# एसकेआईटी मे ऑनलाइन छः दिवसीय शॉर्ट ट्रेनिंग कोर्स का समापन

P3 Police Public Politics

जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोथान में इलेक्ट्रॉनिक्स एवं कम्युनिकेशन डिपार्टमेंट द्वारा आईईई एपीएस,जेवी माइक्रोनिक्स, अनरित्सु, एगमाटेल, ज्योति इलेक्ट्रॉनिक्स द्वारा प्रायोजित एक ऑनलाइन छः दिवसीय शॉर्ट ट्रेनिंग कोर्स का समापन हुआ। समापन समारोह के मुख्य अतिथि डॉ. सोमावा मुखर्जी( असिस्टेंट प्रोफेसर आईआईटी जोधपुर) रहे। उन्होंने इस कार्यक्रम के विषय वस्तु की प्रशंसा करते हुए एंटीना क्षेत्र में हो रहे विभिन्न शोध प्रयासों, चुनौतियों तथा अवसरों के बारे में बताया। समापन समारोह की शुरुआत में डॉ. मोनिका माथुर ने सभी अतिथियों का स्वागत किया। प्रोफेसर एस .के.भटनागर ने इस एस. टी. सी.के सफल आयोजन पर सभी को बधाई दी, तथा एंटीना डिजाइन से संबंधित विभिन्न विषयों पर चर्चा किया। एस. टी. सी. के समन्वयक मि. हर्षल निगम ने इस कार्यक्रम की विस्तृत रिपोर्ट प्रस्तुत की तथा मिस रजनी इंडीवाल ने धन्यवाद ज्ञापित किया। छः दिवसीय इस एस. टी. सी. मे आईआईटी,

एनआईटी तथा देश के अन्य प्रतिष्ठित संस्थानों से विभिन्न एक्सपर्ट्स शामिल हुए तथा तथा ऑप्टिकल एंटीना ,माइक्रोवेव एंटीना, और विभिन्न आधुनिक



एंटीना के डिजाइनिंग से संबंधित विषयों पर चर्चा हुई । इस एस. टी. सी. में ऑनलाइन मोड में कार्यशाला का भी आयोजन हुआ, जिसमें प्रतिभागियों को सी.एस.टी, ए डी एस, एच.एफ.एस.एस सॉफ्टवेयर से संबंधित सिमुलेशन सीखने का अवसर मिला। इस कार्यक्रम के समन्वयक प्रो. मुकेश अरोड़ा ,डॉ.मोनिका माथुर, मिस रजनी इंडीवाल तथा मि. हर्षल निगम रहे । कार्यक्रम का संचालन मिस ग्लोरिया जोसेफ ने किया।

## 13. Technical Report

- This Short term course on Microwave Antennas: Design and Measurement was jointly organized by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur in association with IEEE APS Chapter Jaipur and sponsored by JV Micronics, Agmatel, Anritsu and Jyoti Electronics from 21<sup>th</sup> to 26<sup>th</sup> March, 2022
- **Dr. O P N Calla, Director ICRS Lab Jodhpur was the chief guest along with Dr. M M Sharma, Professor, MNIT Jaipur who was the Guest of Honor** The course began with the welcome address by Prof. Mukesh Arora (Head, ECE SKIT). The Inauguration ceremony also witnessed the presence of Prof. Praveen K. Jain (Dy.Head, ECE, SKIT), Prof. SK Bhatnagar, Dr. Monika Mathur, Ms Rajni Idiwai and myself, Mr. Harshal Nigam.
- 148 participants from various parts of the world have participated in this course
- In the first session of the first day , **Dr. O P N Calla** delivered an expert talk on Microwave Antennas and Measurement. He discussed about the different research facilities available in his lab for research scholars and also told about the importance of antenna and microwaves to society
- In the second session **Dr. S K Bhatnagar, Prof. SKIT Jaipur delivered an expert talk on Rectenna and its use for energy harvesting along with the detailed explanation of Rectenna circuit and Antennas used for energy harvesting**
- In the subsequent session, **Renuka Wekhande**, Senior Application Engineer, Keysight delivered a talk on ADS Software along with simulations that can be done on the software
- Second day was started with an expert talk by **Dr. Dinesh Yadav, Associate Professor**, Manipal University, Jaipur. He enlightened with the knowledge of **Design of Reconfigurable Antennas for Ultra Wideband applications** and presented some design of **reconfigurable antenna** that were published by him
- In Second session Mr. Aditya Sharma, Technical Support Engineer, Anritsu gave an expert talk on VNA along with hands on on VNA Introduction and Measurement procedure
- Third day was started with an expert lecture of **Dr. Sanjeev Yadav**, Associate Professor, GWEC Ajmer. He delivered a talk on **Frequency Selective Surfaces and their applications**

- The lecture was followed by **Prof. Ghanshyam Singh**, University of Johannesburg, South Africa. He enlightened the participants with Antenna Designs for future wireless applications including 5G and 6G
- The day three was ended with an expert lecture of **Dr. R S Meena**, Prof. RTU Kota, he delivered a talk on Array antennas and their design. He focused on some research topics that are going on in the field of designing array antennas
- Day 4 started again with the session of – **Dr. Ankur Saharia** , Assistant Professor, , Manipal University, Jaipur. He enlightened with the knowledge of **Optical Antennas and their design**
- In next session **Mr. Alok Kumar Singhal, Scientist SAC ISRO Ahmedabad, delivered an expert talk on Circular Polarized Antenna Array** He discussed about the research work going on in this field
- In subsequent to that, **Mr. Abhay Kumar Singh**, Senior Application Enginner, Jyoti Electronics , deleivered a hands on Session on CST Software and described the procedure to simulate a certain antenna design
- Day 5 was opened with the session of **Anechoic Chamber** by **Mr. Mahesh Kala**, CEO J V Micronics, He focused on the design of Anechoic chamber and its use to test the different types of Antenna
- Day 5 is ended with an expert lecture of **Dr. Monika Mathur** Associate Professor, Dept. of Electronics and Communication Engineering, SKIT Jaipur, she shared her research work done in the field of Antenna and designing of RF Energy harvesting module along with hands on to design Rectenna circuits on HFSS software
- Day-6 started with the expert lecture by Dr. Mithilesh Kumar, Professor, RTU Kota, He enlightened the participants with the recent trends in Microstrip Antenna Designing
- The last day ended with the expert talk of Dr. Soumava Mukharjee, Asst Prof IIT Jodhpur on the topic Millimeter Wave Antennas where Sir discussed about the design and challenges for millimetre wave antennas design

The discussed areas were of great benefit for the participants as they are enlightened with the most widely used advance tools, strategies and techniques being used in the field of Microwave Antennas

---Thank You-----