

MTTS Chapter Reporting

**MTT-S Region 10 Coordinator Report
Shiban Kishen Koul**

December, 2021

MTT-S/AP-S/EMC-S Joint Chapter Hyderabad

OU code: CH10407

Chapter Chair: Dr. Sandeep Chaturvedi

Vice Chair: Dr. Prashant Kumar Mishra

Secretary: Dr. Sulakshana Chilukuri

Treasurer: Dr. Runa kumari

Chapter Activities during 2021 Summary

Total # Activities in 2021	# Technical Activities	# Non-Technical Activities
34	27	7

Chapter Activities during 2021

Activity: Joint Chapter Execom Meeting

Date: January 3 , 2021

Venue: Virtual

Attendance:

Activity: Technical Webinar

Topic: 3D Conformal antenna arrays for next generation seekers

Date: 23 Jan 2021

Speaker: Dr. Anil M. Chepala,

Attendance:24

Chapter Activities during 2021

Activity: Joint Chapter Execom Meeting #2

Date: 6 Feb 2021

Venue: Virtual

Attendance: 07

Activity: Technical Webinar jointly with CAS/EDS Chapter

Topic: 1. III-V Material And HEMT Device Technology For High Power, High Frequency Applications
: 2. Modeling of LDMOS Structures

Date: 20th Feb 2021

Speaker: Dr. D. S. Rawal, SSPL (DRDO) and Dr. P.A. Govindacharyulu, Manjeera Digital Systems

Attendance: 63

Chapter Activities during 2021

Activity: Two day workshop at Matrusri Engineering College, Hyderabad supported by Chapter

Topic: Microwave Antenna Measurements and Simulation Systems using HFSS

Date: 26 -27 February 2021

Speaker: Prof. S.K. Koul, Dr. M. Lakshminarayana, Dr. Sandeep Chaturvedi, Mr. Sandeep Satav

Attendance: 75 on both days

Activity: Technical Webinar

Topic: Active Phased array antenna systems and associated Subsystems

Date: 13 March 2021

Speaker: Dr. Ashutosh Kedar, LRDE, DRDO

Attendance: 37

Chapter Activities during 2021

Activity: MTT-S Distinguished Microwave Lecture (Webinar)

Topic: Towards Universally Programmable Chip-scale THz Source, Sensors and Systems:
Bridging the THz and Application

Date: 27 March 2021

Speaker: Dr. Kaushik Sengupta, Princeton University, New Jersey, USA

Attendance: 54

Activity: Joint Chapter Execom Meeting #3

Date: 4 April 2021

Venue: Virtual

Attendance: 10

Chapter Activities during 2021

Activity: Technical Webinar

Topic: Multifunctional MIMO Antenna for Future Wireless Communication

Date: 10 April 2021

Speaker: Dr. Raghvendra Chaudhary, IIT (ISM) Dhanbad

Attendance: 38

Activity: Technical Webinar

Topic: Design of Antenna and RF Circuit for RF Energy Harvesting

Date: 8 May 2021

Speaker: Dr. Mahima Arrawatia, IIT Guwahati

Attendance: 58

Chapter Activities during 2021

Activity: Joint Chapter Execom Meeting with MTT SBC Faculty chairs and advisors

Date: 23 May 2021

Venue: Virtual

Attendance: 19

Activity: MTT-S Distinguished Microwave Lecture (Webinar)

Topic: Analog Photonic Systems: Features and techniques to optimize system performance

Date: 29 May 2021

Speaker: Dr. Edward Ackerman, FIEEE, Vice president of R&D, Photonics System Inc, USA

Attendance:

Chapter Activities during 2021

Activity: Technical Lecture (Webinar)

Topic: Design of Broadband High Efficiency High Power Amplifiers

Date: 12th June 2021

Speaker: Dr. S.C. Bera, Scientist 'G', Space Application Centre, Ahmedabad

Attendance:

Activity: Technical Lecture (Webinar)

Topic : Generating Quantum Microwaves using Superconducting Circuits

Date: 30th June 2021

Speaker: Dr. Chris Wilson, University of Waterloo, Canada

Attendance:

Chapter Activities during 2021

Activity: Technical Lecture (Webinar)

Topic: Design of Higher Order Harmonic and Fundamental Mixers

Date: 10th July 2021

Speaker: Dr. Shailendra Singh, Scientist 'SF', Space Application Centre, Ahmedabad

Attendance:

Activity: MTT-S Distinguished Microwave Lecture (Webinar)

Topic : Generating Quantum Microwaves using Superconducting Circuits

Date: 25th July 2021

Speaker: Dr. Jon Martens, Anritsu Inc, USA

Attendance:

Chapter Activities during 2021

Activity: AP-S Distinguished Lecture (Webinar)

Topic: Additive Manufacturing for Antennas and Electronics From GHz to THz

Date: 14th August 2021

Speaker: Dr. Hao Xin University of Arizona, USA

Attendance:

Activity: Technical Lecture (Webinar)

Topic : Through wall Imaging Radar

Date: 29th August 2021

Speaker: Dr. Rabindranath Bera, SMIT, Sikkim Manipal University

Attendance:

Chapter Activities during 2021

Activity: Two days workshop **Jointly with MTTs GPREC, Kurnool SBC**

Topic: Recent Advances in Microwaves and Antenna Technology

Date: 20th September 2021

Speaker: 3 Keynote speakers (Prof. Nookala Srinivasa Rao, Dr. Arun Gande and Dr. Prashant Mishra)

Attendance: 35 per session

Activity: Two days workshop **Jointly with MTTs MJCET SBC**

Topic: Recent Advances in Microwaves and Antenna Technology

Date: 20th September 2021

Speaker: 6 Keynote speakers (Prof. S.K. Koul, Prof. Mahesh Abegaonkar, Prof. K.J. Vinoy, Dr. Aparajita Bandopadhyay, Alok Joshi and Dr. R. M Uralidharan)

Attendance: 60 per session

Chapter Activities during 2021

Activity: AP-S Distinguished Lecture (Webinar) **Jointly with MTT-S Vardhaman SBC**

Topic: From Engineering Electromagnetics to Electromagnetic Engineering: Teaching/training next generations

Date: 20th September 2021

Speaker: Dr. Levent Sevgi, Technological university, Turkey

Attendance:

Activity: Technical Lecture (Webinar)

Topic : EMC Simulation: Past Present and Future

Date: 25th September 2021

Speaker: Dr. Dipanjan Gope, Indian Institute of Science, Bangalore

Attendance:

Chapter Activities during 2021

Activity: AP-S Distinguished Lecture (Webinar)

Topic: Metamaterials a manipulation of waves next generations

Date: 9th October 2021

Speaker: Dr. Erik M. Lier, Lockheed Martin Space, USA

Attendance:

Activity: Expert Technical Lecture (Webinar)

Topic : Improving Measurement Accuracy and Continuity in Wafer-Level Sub-THz Measurements up to 750 GHz for Device Modelling Applications

Date: 17th October 2021

Speaker: Dr. Choon Beng Sia, SMIEEE, Formfactor Singapre Pte. Ltd, Member MTT03 TC

Attendance:

Chapter Activities during 2021

Activity: AP-S Distinguished Lecture (Webinar)

Topic: Scalable Millimeter wave array: Challenges and solutions

Date: 6th November 2021

Speaker: Dr. Duixian Liu, IBM T.J Watson Research Center, USA

Attendance:

Activity: Two days workshop **Jointly with MTT-S KLU Vijayawada SBC**

Topic: Future Wireless Systems

Date: 13th -14th November 2021

Speaker: 4 Keynote speakers (Prof. S.K. Koul, Prof. Debatosh Guha, Dr. Debadeep Sarkar, Prof. R.K. Mishra)

Attendance: 60-80 per session

Chapter Activities during 2021

Activity: 1st DMI Workshop (Webinar) organized by MTT-Global

Topic : High Efficiency, Multi-Function Ground Station Reflector Antennas

Date: 26th November 2021

Speaker: Dr. Maurizio Bozzi

Attendance: Approx 200 students attended in total (100 from classroom, 100 online) from VNR VJIET Hyd, MEC Hyd, CVRCE Hyd, MJCET Hyd, OUCE Hyd, GPREC Kurnool, KLU Vijayawada, NIT warangal

Activity: J. C. Bose Memorial Lecture (Webinar)

Topic : High Efficiency, Multi-Function Ground Station Reflector Antennas

Date: 30th November 2021

Speaker: Dr. V.V. Srinivasan, Director, ISRO Satellite Telemetry Tracking and Command Network Bangalore

Attendance:

Chapter Activities during 2021

Activity: AP-S COPE STEM Workshop for school Children (9th-10th Grade)

Topic: STEM

Date: 4th December 2021

Speaker: Student volunteers

Attendance: 100 Children, 5 Science teachers, 6 student volunteers

Activity: Two day workshop on Digital Radio Design and Applications

Topic : 8 sessions on FPGA based RF system design

Date: 11th-12th December 2021

Speakers: Dr. Meena D, LRDE, Bangalore, Dr. Meenakshi Rawat, IIT Roorkee, Anindya Saha, Saaankhya Labs Bangalore, Dr. Anand Mukhopadhyay, Mathworks India, Dr. Usha Verma, ASL Hyderabad, Dr. Arun Kumar Singh, DLRL Hyderabad, G.Surender/Raju Avidapu, Xilinx India, Prof Robert Stewart, Univ. of Strathclyde, UK

Attendance:

Chapter Activities during 2021

Activity: Three day workshop at Matrusri Engineering College, Hyderabad supported by Chapter

Topic: Microwave Antenna Measurements and Simulation Systems using HFSS

Date: 16-18 December 2021

Speaker: 8 invited talks (Dr. C Sai Ram, Dr. M. Lakshminarayana, Dr. N.V.S.N. Sarma, IIT Trichy, Dr. Prashant K. Mishra, Dr. Sulakshana Chilukuri, Mrs. V. Revathi, Dr. Sandeep Chaturvedi) and 4 Hands on sessions by Application expert from Entuple Technologies on Antenna Simulations using HFSS

Attendance: 75 on all three days

Activity: Expert Technical Lecture (Webinar)

Topic : Nano Dielectric Resonator Antenna for High Speed Sensing and communication

Date: 25th December 2021

Speaker: Prof. Rajveer S. Yaduvanshi, NSUT, Delhi

Attendance:

Talk by Dr. Anil MM. Chepala

The screenshot shows a Zoom meeting interface. At the top, there are menu options: "Cisco Webex Events", "Event Info", and "Hide Menu Bar". Below the menu is a toolbar with "File", "Edit", "Share", "View", "Audio & Video", "Participant", "Event", and "Help". The main area displays a grid of video thumbnails for participants. A chat window is open on the right side, showing a list of participants (17) and a chat history. The chat history includes a message from "Utmala" discussing antenna gain and conformality. The name "Sulakshana Chilukuri" is visible at the bottom of the chat area. At the bottom of the Zoom window, there are controls for "Mute", "Stop video", "Share", "Record", and "Participants/Chat".

The poster features logos for IEEE Hyderabad Section, MTT-S, ACSI, and EMC Society. The text reads: "MTT/AP/EMC Joint Chapter Presents a Technical Lecture (Webinar) On '3D-Conformal Antenna Arrays for Next Generation Seekers' By Dr. Anil Kumar Chepala, Scientist & System Manager, RCI, DRDO, Hyderabad". A date box indicates "Date: 23rd, Jan 2021 (Sat)" and a time box indicates "Time: 06:00 – 07:30 PM (IST)". A registration link is provided: "Link for registration: <https://bit.ly/39Pcvsi>". An image of a 3D conformal antenna array is shown on the right.

Talk by Dr. D.S. Rawal and Dr. PA Govindcharyulu

Outline of the Talk

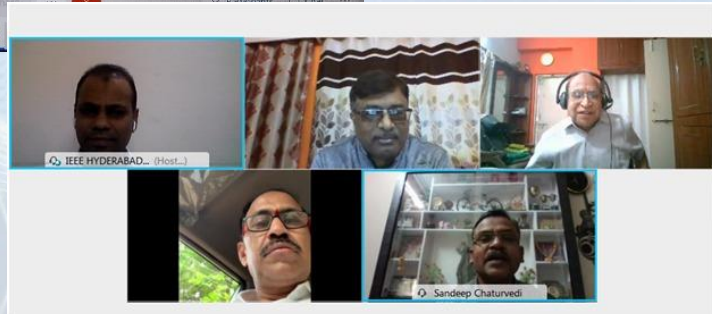
- Significance for Material Properties
- III-V Device Applications/Motivation
- III-V Market Forecast
- GaN HEMT Technology Initiatives
- Device Technology Status
- Technique to Enhance Power Output
- Experimental Implementation/Results
- SIC Via Hole Process for Source Grounds
- Passive Components/MMICs
- Challenges to extend technology
- Recent Developments in GaN HEMT technology
- Summary

Diagram showing a cross-section of a device with layers: Source, Drain, Gate, AlGaIn, GaN, Substrate. Dimensions include Gate length, W (Gate width), and L (Gate length).

Equation: $f_t = v_s / 2\pi L = 1 / 2\pi L$

Text: τ represents the transit time for the carriers to cover the gate length.

Equation: $f_{max} = \frac{f_t}{\sqrt{R_{GS} R_G}}$



Institute of Electrical and Electronics Engineers Hyderabad Section

Joint Chapter of MTT/AP/EMC Societies in Association with Joint Chapter of CAS/ED Societies Presents

Webinar on
III-V Material and HEMT Device Technology for High Power, High Frequency Applications
and
Modeling of LDMOS Structures
On 20th Feb, 2021

Topic: III-V material and HEMT Device Technology for High Power, High Frequency Applications

Abstract: Advancement in Si device technology has taken place due to process innovations in lithography, diffusion, ion implantation etc. These advances in Si-V technology have mainly taken place due to material innovations from homo-structure to hetero-structure that paved the way for the development of new generation of devices based on confinement of carrier in quantum well with superior transport properties. Consequently Si-V material based devices are being developed worldwide for high frequency, high power, broadband civil/military applications. GaN and its alloys offer many advantages compared to a Si-V system, particularly a much wider range of energy bandgaps. The AlGaIn/GaN hetero-junction has a large band discontinuity that can allow GaN-devices to have improved output power density and improved thermal conductivity means they can operate effectively at higher temperature. The talk will mainly cover all the important aspects/challenges of GaN/HEMT based device technology right from material to active/passive components, characterization and their integration to develop complete MMIC for applications up to 50 GHz with special focus on state of technology in India.

Speaker Profile:
 Dr. D. S. Rawal is Assistant Director at Solid State Physics Laboratory (SSPL), Delhi, working in the area of III-V Device Technology. He joined SSPL, Delhi in 1992 and has mainly worked for the development and Transfer of Technology of GaN MMIC technology that is presently undergoing production at GATEC, Hyderabad. He received his M.Sc. Degree in Physics and M.Tech. Degree in Electronics and Communication Engineering from University of Roorkee, Roorkee, India (Now IIT Roorkee), in 1988 and 1990, respectively. He did his PhD in Experimental Plasma Physics from IIT Delhi.

Presently, he is working towards the development of GaN/HEMT based MMIC Technology for microwave applications. He has published more than 70 research papers in various international journals and conferences. He is also an active reviewer for various reputed international journals like Applied Surface Science, JETP, AIP, IEEE Trans on Electron Devices, IEEE Sensor, Surface Coating and Technology, Journal of Vacuum Science and Technology, Plasma Science and Technology (JOP Science) and Journal of Physics D (JOP). He has many awards to his credit and is a recipient of DRDO Path Breaking Research Award (Twice), Scientist of the Year Award and Elsevier Outstanding Reviewer Award etc.

Topic: MODELING OF LDMOS STRUCTURES

Abstract: Lateral Double Drifted MOSFETs (LDMOS) are an important class of devices that cover MOSFETs play an important role in smart power and RF power applications. Important aspects of LDMOS structure are the breakdown voltage and on-state resistance. In this talk, the design/realization of LDMOS structures from the point of view of optimization of breakdown voltage and on-state resistance are discussed. Process and device simulation have been made on the structures. The structures such as 6-channel LDMOS, stepped gate graded lightly doped drain(LDD) structures and 4-channel LDMOS structures are presented.

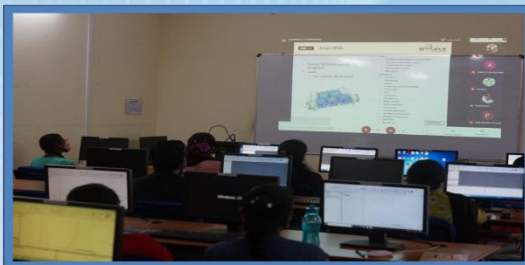
Speaker Profile: Dr. P. A. Govindcharyulu is presently with Infosys Digital Systems Hyderabad as a Director. He is a Ph. D from Indian Institute of Science Bangalore. His expertise is in the areas of Semiconductor Devices, VLSI Technology, MMIC Technology and Analog and Mixed signal VLSI Design.

As the head of technology development team, initially and later Head R&D at Semiconductor Complex Ltd, Chandigarh, he was responsible for developing and implementing in production the new generation CMOS technologies which include 2 micron, 3 micron and 1.2 micron CMOS VLSI technologies. Besides these technologies 18V/20V, high voltage CMOS and CCD technologies were also implemented. After transfer to GATEC facility at Hyderabad as Head, he was responsible for establishing the GaN MMIC fabrication facility and implementing the 12GHz and 18 GHz MMIC technologies. MMICs were successfully developed and applied to strategic customers like Space Department.

He was teaching VLSI related subjects such as VLSI technology, Analog and Mixed Signal IC Design etc., to IISc students at IISc College of Engineering Hyderabad. He served as Chairman / Member on various review committees for projects sponsored by DRIS (Earlier DOE), PSA's office etc., at organizations like IISc - Bangalore, IIT Bombay, CERN - Geneva, IIT Kanpur, NIT Tiruchy, etc. He published over 20 technical papers/Google plus updates for their Ph. D in his area of device modeling and microwave circuit modeling.

Registration Details
 20 February 2021
 Registration is mandatory for the webinar. Please register at following link
<https://www.linkedin.com/company/ieee-hydrabad-section>
 For further details contact:
 Dr. Sandeep Chaturvedi, Chair, IEEE IIT AP EMC Societies Chapter, Hyderabad Section
 Dr. P. Chandrasekhar, Chair, IEEE CAS/ED Chapter, Hyderabad Section.

Two days workshop at Matrusri Engineering college, Hyderabad



A Two Day Workshop On "MICROWAVE ANTENNA MEASUREMENTS AND SIMULATION STUDIES USING HFSS"

26th-27th FEBRUARY 2021

REGISTRATION FORM

FOR REGISTRATION GO TO THE LINK

https://docs.google.com/forms/d/e/1FAIpQLScapzyyR6R8NS1c3rAt5b9J88Nz8k-Lu1r9G2CZyT8u5k6/viewform?usp=pp_url

FOR PAYMENT : GOOGLE PAY TO

Mr. M. Naresh
9549224090

Mr. K. Kaleshwar Rao
9008474710

STUDENT COORDINATORS

Mr. P. Sai Varma
Ms. Y. Sudhika
Ms. A. Ashwarya

COORDINATORS

Mr. M. Naresh **Mrs. B. Indira Priyadarshini**
Asst. Professor Asst. Professor
Mr. K. Kaleshwar Rao **Mr. D. Nagaraju**
Asst. Professor Asst. Professor & IEEE SA Co-ordinator

REGISTRATION FEE

Student (IEEE Members) : Free
(Apart for IEEE SA Members) Cost With a Registration
Student: (Non-IEEE Members) Rs. 100/-
(Cost for Material and Printed Copies Provision)

IMPORTANT DATES

Last date for Registration
is 20th FEBRUARY, 2021
Workshop Dates: 26th-27th FEBRUARY 2021

PATRONS

Dr. K.P. Srinivas Rao
Chairman Matrusri Education Society
Sri M. Krishna Kumar
Secretary, MES
Sri Sudhakar Jagudi
Treasurer, MES
Dr. D. Hanumantha Rao
Principal, MECS

ADVISORY COMMITTEE

Dr. Shiban Koul
Emeritus Professor
EE Dept-IT-Delhi
Dr. N. Lakshminarayana
Director, R & D
M/s. Unistring Tech Solutions
Dr. Sandeep Chaturvedi
Chair-IEEE MTT-S Hyderabad.
Dr. M. Sandeep Satav
Past Chair-IEEE MTT-S Hyderabad.
Dr. N. Srinivasa Rao
Professor & HOD- ECE, MECS.



A Two Day Workshop On "MICROWAVE ANTENNA MEASUREMENTS AND SIMULATION STUDIES USING HFSS"

26th-27th FEBRUARY 2021
(BLENDED MODE)



JOINTLY ORGANIZING IN ASSOCIATION WITH
IEEE MTT-Society,
HYDERABAD CHAPTER &
IEEE HYDERABAD SECTION,
IEEE MTT-SB

MATRUSRI ENGINEERING COLLEGE

(WBA Accredited)
(Sponsored by: Matrusri Education Society, Estd: 1980)
(Approved by AICTE, Affiliated to Osmania University)
16-1-406, Sakubad Hyderabad - 500 079 Ph: 040-24072764
www.matrusri.edu.in

Talk by Dr. Ashutosh Kedar

Active Phased Array Antenna and associated Sub-systems

DR. ASHUTOSH KEDAR

Antenna Arrays: Classification based on Scanning techniques

Mechanically Scanned Antenna (MSA)	Passive Electronically Scanned Array (PESA)	Active Electronically Scanned Array (AESA)

IEEE HYDERABAD SECTION

MTT-S

AYS

EMC SOCIETY

MTT/AP/EMC Joint Chapter

Presents a Technical Lecture (Webinar)
On

“Active Phased array antenna systems and associated Subsystems”

By

Dr. Ashutosh Kedar,
Scientist “F”,
AAAU Group, RAMD Division, LRDE, Bangalore

Date: 13th March, 2021 (Sat)

Time: 06:30 – 08:00 PM (IST)

Link for registration: <https://bit.ly/3qY5nX>

DML Talk by Dr. Kaushik Sengupta

IEEE Membership Benefits:

- IEEE Spectrum Magazine
- IEEE Collaborate
- IEEE tv 2.0
- The Institute Newsletter
- IEEE Potentials Magazine (Students and Young Professionals)
- IEEE e-Mail alias
- IEEE Job Site, Career Alert
- Ability to join technical societies (including MTT-S) and councils
- Discounted registration rates for conferences
- Special Interest Groups such as Young Professionals, Women in Engineering and Life Members
- Volunteer Opportunities

Cost: US \$205.00 (the cost is lower for regions 7 to 10)

MTT-Society-only Affiliate Membership Benefits:

- Free electronic access to all MTT-S publications
- Discounts on publication page charges in MTT-S journals
- Discounts on registration rates for MTT-S conferences
- Special Interest Groups such as Young Professionals, Life Members and Women in Engineering
- Access to the MTT-S Volunteer Directory
- Volunteer Opportunities

Cost:
US \$99.50 for MTT-S membership without IEEE membership (the cost is lower for regions 7 to 10)
US \$24 for joining MTT-S with IEEE membership

Visit ieee.org to become a member!

Speaking: Lakshminarayana Merugu

Paidimarry Chandra Sekhar

Ravi Dutt Gupta

Shailendra Singh

Sulakshana Chilukuri

Lakshminarayana Merugu

IEEE HYDERABAD SECTION

MTT-S

EMC SOCIETY

MTT/AP/EMC Joint Chapter

IEEE MTT-S Distinguished Lecture
On

"Towards Universally Programmable Chip-scale THz Source, Sensors and Systems: Bridging the THz and Application gap in the Next Decade"

By

Dr. Kaushik Sengupta,
Associate Professor, Princeton University, New Jersey, USA

Date: 27th March, 2021 (Sat)


Time: 06:30 – 08:00 PM (IST)

Link for registration: <https://bit.ly/3bdjTzj>

Talk by Dr. Raghvendra Chaudhary

The screenshot shows a Zoom meeting interface. The main window displays a slide titled "Global snapshot of 5G spectrum" with a frequency spectrum plot. The plot shows various frequency bands from 10GHz to 64.7GHz. A red dashed circle highlights a specific band. The slide text includes: "Global snapshot of 5G spectrum", "Expanded that world. Based on our latest work (accepted or targeted)", and "Source: Spectrum for 4G and 5G, Qualcomm White Paper, San Diego, CA, USA, Dec. 2017 [148]". The Zoom interface shows the speaker as "Raghvendra Chaudhary" and a list of participants.

The screenshot shows a Zoom meeting interface with a chat window open. The chat window displays a document titled "Global snapshot of 5G spectrum" with a frequency spectrum plot. The document text includes: "Global snapshot of 5G spectrum", "Expanded that world. Based on our latest work (accepted or targeted)", and "Source: Spectrum for 4G and 5G, Qualcomm White Paper, San Diego, CA, USA, Dec. 2017 [148]". The Zoom interface shows the speaker as "Raghvendra Chaudhary" and a list of participants.



MTT/AP/EMC Joint Chapter

Presents a Technical Lecture (Webinar)
On

"Design of Microwave Components using metamaterials"

By

Dr. Raghvendra Chaudhary,
Assistant Professor, Dept. of Electronics Engineering, IIT (ISM), Dhanbad

Date: 10th April, 2021 (Sat)

Time: 06:30 – 08:00 PM (IST)

Link for registration: <https://bit.ly/3m0KSXo>

Talk by Dr. Mahima Arrawatia

Further Work

- The RF energy harvesting system should be integrated with other low power energy sources like piezo, thermoelectric, solar etc to provide a continuous source of power to low power applications
- Application circuits should be designed considering the constraints of energy harvesting circuits
- Compact broadband high efficiency antenna also have to be developed for application where energy harvester has to be deployed in space constrained environment

Participants (45): Sandeep Chaturvedi, Mahima Arrawatia, Sulakshana Chilukuri, YOGESH VERMA, Dr. Prashant Kumar Mishra

Participants (39): Sandeep Chaturvedi, Mahima Arrawatia, Sulakshana Chilukuri, YOGESH VERMA, Dr. Prashant Kumar Mishra, rakesh kichouliya

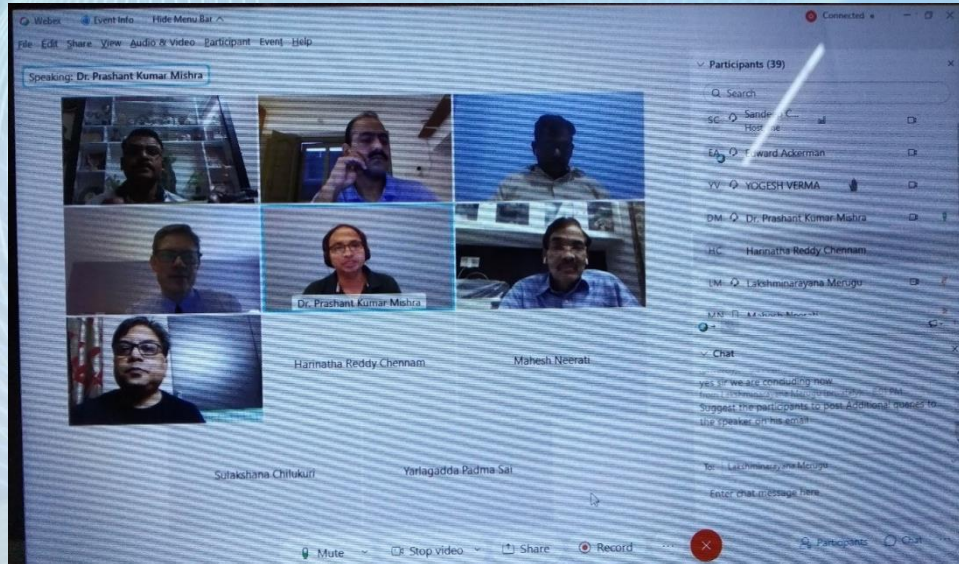
IEEE HYDERABAD SECTION **MTT-S** **AYS** **EMC SOCIETY**

MTT/AP/EMC Joint Chapter
Presents a Technical Lecture (Webinar)
On
"Design of Antenna and RF Circuit for RF Energy Harvesting"
By
Dr. Mahima Arrawatia
Assistant Professor, EEE Department, IIT Guwahati

Date: 08th May, 2021 (Sat) Time: 06:30 – 08:00 PM (IST)

Link for registration: <https://bit.ly/3nmmQIM>

DML Talk by Dr. Edward Ackerman



The banner features logos for IEEE, MTT-S, APS, and EMC Society at the top. On the left is a portrait of Dr. Edward Ackerman. The right side shows a glowing blue circuit board with binary code. Text on the circuit board reads 'MTT-S/APS/EMC-S JOINT CHAPTER IEEE HYDERABAD SECTION'. The main text on the banner is 'IEEE MTT-S Distinguished Microwave Lecture'. Below this, it states 'ANALOG PHOTONIC SYSTEMS: FEATURES & TECHNIQUES TO OPTIMIZE PERFORMANCE', '29TH MAY 2021', '6:30 PM', and 'Link for registration: <https://bit.ly/3xloZ5M>'.

Talk by Dr. S.C. Bera

The screenshot shows a Zoom meeting window. At the top, there are menu options: Webex, Event Info, Hide Menu Bar, File, Edit, Share, View, Audio & Video, Participant, Event, Help. The main area displays a grid of video thumbnails for participants. On the right, a 'Participants (39)' sidebar is visible, showing a search bar and a list of participants under 'Panelist: 7': Sandeep C. (Host, me), DR: Dr. NOOKALA RAO, and LM: Lakshminarayana Merugu. Below this is a 'Chat' window with a message from 'Sir' asking about PAE classification and a response from 'Runa Kumari' stating 'I have a packaged mmic (GaN) operating in 2-20 GHz with 23% PAE. Can I tell which class it is from Data Approval to all panelists - 10:59 PM Switched mode power amplifier such class E are also used for broadband PA design. Class F is better or class E are better'. At the bottom, there are controls for Mute and Stop video, and a taskbar showing the Windows Start button, search bar, and system tray with the date 12-06-2021 and time 12:54.

The slide features logos for IEEE Hyderabad Section, MTT-S, AEs, and EMC Society. The text reads: 'IEEE Hyderabad Section and MTT-S/AP-S/EMC-S Joint Chapter Present a Technical Lecture (Webinar) On Design of Broadband High Efficiency High Power Amplifiers By Dr. S.C. Bera Scientist/ Engineer, Space Applications Centre Indian Space Research Organization Head, Satcom & Navigation Systems Engineering Division Associate Project Director, GSAT-24 & GSAT-31 Comm. P/L'. It also includes the date '12th June, 2021 (Sat)', time '11:AM – 01:00 PM (IST)', and a registration link 'https://bit.ly/2QvrMZu'. A small image of a power amplifier circuit is shown on the right.

Talk by Dr. Chris Wilson



The image is a webinar title slide with a background of a quantum circuit. At the top, there are logos for IEEE Hyderabad Section, MTT-S, AYS, EMC Society, and IEEE Computer Society. The text reads: 'IEEE Hyderabad Section MTT-S/AP-S/EMC-S Joint Chapter & Quantum Special Interest Group Present A Technical Lecture (Webinar) On "Generating Quantum Microwaves using Superconducting Circuits" By Dr. Christopher Wilson Professor Institute for Quantum Computing, Dept. of Electrical and Computer Engineering University of Waterloo, Canada'. Below this, there are two boxes: 'Date: 30th June, 2021 (Wednesday)' and 'Time: 06:30 – 08:00 PM (IST)'. At the bottom, there is a box with the text 'Link for registration: <https://bit.ly/3bK6qjp>'. On the right side, there is a small image of a person and a green circular graphic.

Talk by Dr. Shailendra Singh

The screenshot shows a Zoom meeting window. At the top, there are video thumbnails for participants: Sulkhanna Chikuri, Sandeep Satav, and Ravi Dutt Gupta. The main content area displays a slide with the following text:

IEEE **MTT-S** **AEES** **EMC SOCIETY**
Institute of Electrical & Electronics Engineers, Inc
Hyderabad Section

MTT/AP/EMC-Society Jt. Chapter
Hyderabad

Express Profound Thanks
to
Dr. Shailendra Singh
Scientist/Engineer "SF"
Space Application Centre (SAC)
Indian Space Research Organisation (ISRO)
Ahmedabad

For a technical talk
On
Design of Higher order Harmonic and Fundamental Mixers

10th July, 2021
18:30 – 20:00 Hrs
Webinar

On the right side of the Zoom window, the 'Participants' panel shows 29 participants. The 'Panelist' section lists: Sandeep ... (Host, me), Lakshminarayana Merugu, and Ravi Dutt Gupta. The 'Chat' panel shows a message from Manu Raj: "Q: how do we match the diode impedance towards all 3".

The slide features logos for IEEE Hyderabad Section, MTT-S, AEES, and EMC Society. The text reads:

MTT/AP/EMC Joint Chapter
Presents a Technical Lecture (Webinar)
On
"Design of Higher Order Harmonic and Fundamental Mixers"
By
Dr. Shailendra Singh,
Scientist, Space Application Centre (SAC), ISRO, Ahmedabad

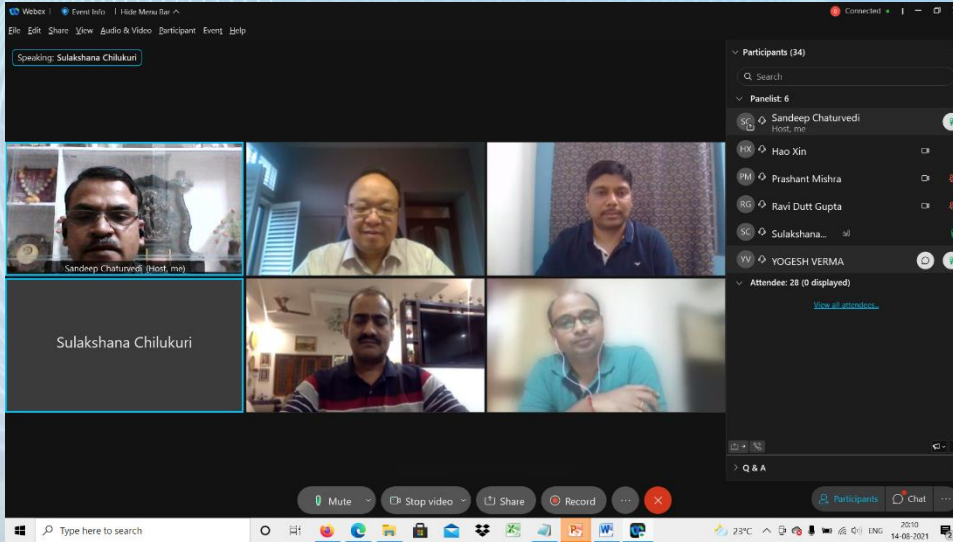
A small image of a satellite is shown on the right. At the bottom, the date and time are specified: **Date: 10th July, 2021 (Sat)** and **Time: 06:30 – 08:00 PM (IST)**. A registration link is provided: <https://bit.ly/3waazUY>.

DML Talk by Dr. Jon Martens

The screenshot shows a Zoom meeting window. At the top, it says "Webex | Event Info | Hide Menu Bar". Below that, there are menu options: "File Edit Share View Audio & Video Participant Event Help". A status bar indicates "Speaking: Sreenivas Jasti". The main area is a 3x2 grid of video thumbnails. The top-left thumbnail shows Sandeep Chaturvedi (Host, me). The top-right thumbnail shows Dr. Jon Martens. The middle-left thumbnail shows a man in a striped shirt. The middle-right thumbnail shows a man in a light blue shirt. The bottom-left thumbnail shows a woman. The bottom-right thumbnail shows Sreenivas Jasti with an IEEE logo overlay. To the right of the grid is a "Participants (20)" sidebar. It includes a search bar, a "Panelist: 6" section with icons for Sandeep Chaturvedi (Host, me), jon martens, Lakshminarayana Merugu, Lalitha S V N L, Prashant Mishra, and Sreenivas Jasti, and an "Attendee: 14 (0 displayed)" section with a "View all attendees..." link. At the bottom of the Zoom window are controls for Mute, Stop video, Share, Record, and a red "X" button. The Windows taskbar is visible at the very bottom, showing the search bar, taskbar icons, and system tray with the date 25-07-2021 and time 19:41.

The banner features logos for IEEE Hyderabad Section, MTT-S, AP-S, and EMC Society. The central text reads: "What is my measurement equipment actually doing? Implications for 5G/6G, mm-wave and related applications". Below this, it specifies the date and time: "Date: 25th July, 2021 (Sun)" and "Time: 06:30 – 08:00 PM (IST)". A registration link is provided: "Link for registration: <https://bit.ly/3x9lvCm>". A portrait of Dr. Jon Martens is shown with the text "Dr. Jon Martens, Engineering Fellow, Amittu American". The background image shows a microwave measurement setup with a laptop displaying a graph. The MTT-S logo and "MHz to THz Community" are at the bottom left. The text "MTT-S/AP-S/EMC-S Hyderabad Joint Chapter," is in a red box at the bottom right.

AP-S DL Talk by Dr. Hao Xin





Additive Manufacturing for Antennas and Electronics From GHz to THz

AP-S Distinguished Lecture



Dr. Hao Xin,
Professor, Dept. Of Electrical and Computer Engineering and Physics,
University of Arizona Tucson AZ USA

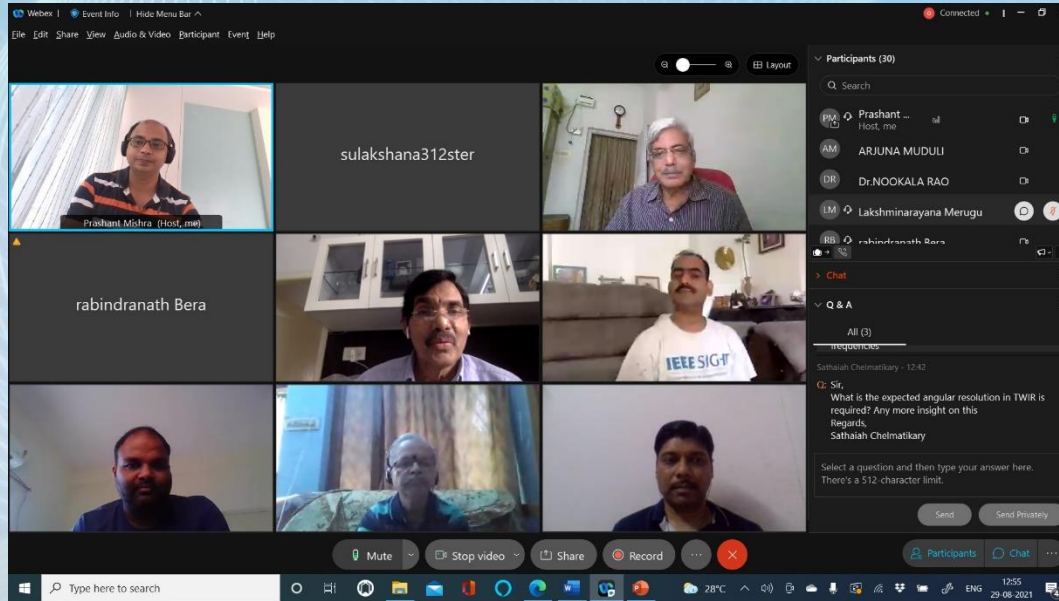
Supported by
IEEE Antennas and Propagation Society
DL Program

Supporting student Branch Chapters
IEEE MEC IEEE Vardhaman College of IEEE MJCT
MTS SBC Engg MTTs SBC MTS SBC

Date: 14th August, 2021 (Sat)
Time: 06:30 – 08:00 PM (IST)
Link for registration: <https://bit.ly/3kmhF55>

Organized by
**MTT-S/AP-S/EMC-S
Hyderabad Joint Chapter**

Talk by Dr. Rabindranath Bera



The poster features logos for IEEE Hyderabad Section, MTT-S, AITs, and EMC Society. The text reads: 'MTT-S/AP-S/EMC-S Joint Chapter Presents a Technical Lecture (Webinar) Through Wall Imaging Radar'. It identifies the speaker as Dr. Rabindranath Bera, Professor, Dept. of ECE, Sikkim Manipal Institute of Technology, Sikkim Manipal University. The event is scheduled for 29th August, 2021 (Sun) from 11:00AM to 01:00 PM (IST). A registration link is provided: <https://bit.ly/3izZCMD>. Two small images show a person using a radar system in a field.

2-days workshop at GPREC Kurnool

Inset Feed

- Advantages:
 - Simple
 - Allows for planar feeding
 - Easy to use with arrays
 - Easy to obtain input match
- Disadvantages:
 - Significant line radiation for thicker substrates
 - Current and radiation pattern may show distortion

To add names to this class, either start a Meet (and let the extension will add them for you) or click the add class list button above and type/paste the names

12:37 PM | oap-bojh-shv

Recording

Your video call is being recorded. When recording is finished, it will be saved in the organizer's Meet Recordings folder in Google Drive.

Stop recording

Measured Results of 6x1 Helical Antenna Array

Graphs showing radiation patterns and performance metrics.

To add names to this class, either start a Meet (and let the extension will add them for you) or click the add class list button above and type/paste the names

2:57 PM | oap-bojh-shv

People

Mute all Add people Meet controls

Search for people

In call:

- saii thiba ECE (You)
- 189XQA47 KUBJVA GA...
- B.Siva Reddy ECE
- Chikurri BasuVenkatasub...
- EDMB8027 KAVIER RAM...
- MS-GOPRANATH

Voltage, Current and Power (1)

- The concept of charge
 - The Coulomb [C] – the SI unit of charge
 - An electron carries -1.6×10^{-19} [C]
 - Conservation of charge
- The concept of potential
 - Attraction/repulsion of charges
 - The electric field
 - The energy of moving a charge in a field

To add names to this class, either start a Meet (and let the extension will add them for you) or click the add class list button above and type/paste the names

10:14 AM | b5thmp2ia

MTT-S IEEE

G. PULLA REDDY ENGINEERING COLLEGE (Autonomous) KURNOOL
IEEE MTT-S Student Branch Chapter (SBC15721E) & ECE Dept.

In association with
IEEE MTT-S/AP-S/EMC-S Joint Chapter, Hyderabad section

Organizes a two day Workshop on
Microwave Antenna Design / Applications & Electromagnetic Field Theory and Applications
By

Dr. Prashant Mishra
Scientist 'F' DRDO, DRDO Hyderabad and Vice Chair, MTTA/EMC Joint Chapter, Hyderabad section

Dr. Nookala Srinivasa Rao
Professor & HOD Dept. Of ECE, Matruzi Engineering College, Hyderabad

Dr. G. Arun Kumar
Assistant Professor, Dept. Of ECE, MIT Warangal

Date : 07&08, September, 2021; Tuesday and Wednesday

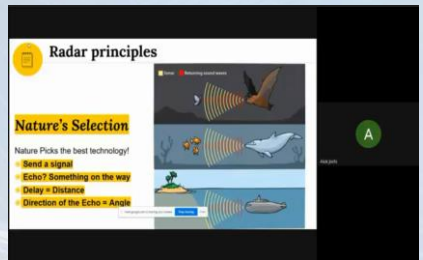
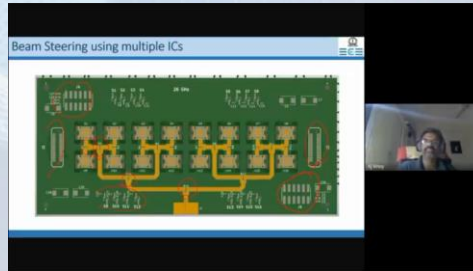
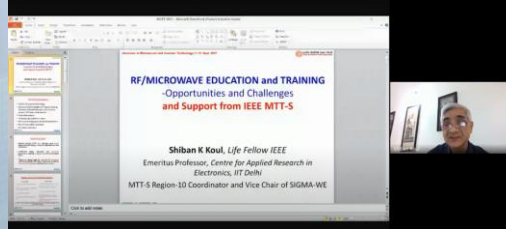
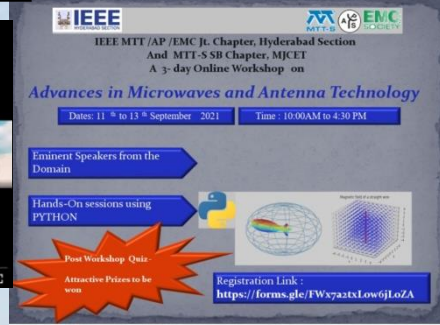
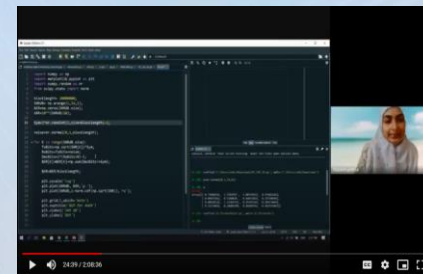
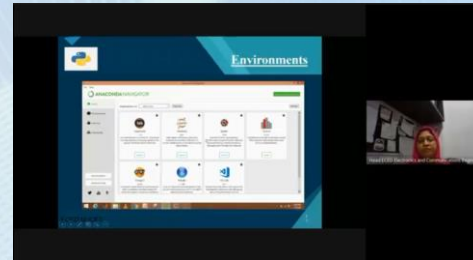
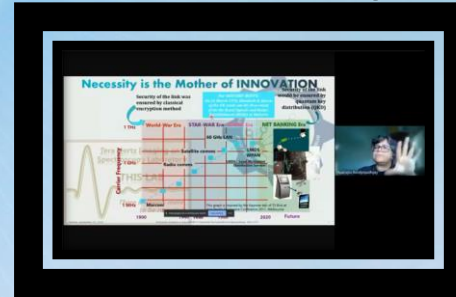
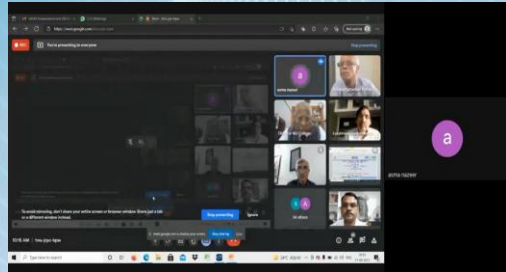
Event : First day Session I : 12:00 noon-1:30 pm by Dr. G. Arun Kumar
Session II : 2:00 pm-3:30 pm by Dr. Prashant Mishra
Second day Session I : 10:00 am-11:00 am by Dr. Nookala Srinivasa Rao
Session II : 11:10 am-12:00 noon by Dr.Nookala Srinivasa Rao

Link for registration: <https://forms.gle/AZKnT5Gpxnsn4GP6b>

Dr.B.Sreenivasa Reddy, Principal, GPREC Kurnool
Dr.S.Nagaraja Rao, Professor & HOD, ECE, GPREC Kurnool
Dr.C.Harinatha Reddy, Associate Professor ECE Dept. GPREC Kurnool

Dr.G.V.R.Sagar, IEEE Coordinator, Associate Professor, ECE, GPREC Kurnool
Dr.J.Salai Thillai Thilagam, IEEE MTTs Faculty Advisor, Associate Professor, ECE, GPREC Kurnool

3-days workshop at MJCET Hyderabad



AP-S DL Talk by Prof. Levent Sevgi (Jointly with MTT-S Vardhman SBC)



Vardhman MTT Student Chapter presents in association
with IEEE MTT/AP/EMC Joint Chapter Hyderabad section
PRESENTS AN DISTINGUISHED LECTURE ON
**"From ENGINEERING ELECTROMAGNETIC to ELECTROMAGNETIC
ENGINEERING Teaching/Training Next Generations"**

 **Prof. Levent Sevgi**
IEEE Fellow, IEEE AP-S Distinguished
Lecturer and
Professor, EMC TURKIYE



TIME:06:00 - 07:30 PM

Registration Link : <https://forms.gle/pVrCfdKakXfgXKST9>

DATE
20th SEPT
2021

Talk by Dr. Dipanjan Gope

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "Measurement vs. Model-Based Sim". The slide features a line graph comparing measured and simulated results. The y-axis is labeled "LNA Voltage (dBV)" and ranges from 0 to 70. The x-axis is labeled "Frequency (MHz)" and is on a logarithmic scale from 10^0 to 10^3 . The graph shows two data series: "Measurement" (blue line) and "Simulation" (yellow line). Both series show a series of peaks, with the simulation peaks being slightly higher than the measurement peaks. Below the graph is a table comparing the two data series.

	Measured (dBV)	Simulated (dBV)	Difference
Fundamental	47	45	2 dB
1 st Harmonics	47	32	15 dB
2 nd Harmonics	31	46	15 dB
3 rd Harmonics	47	39	8 dB
4 th Harmonics	46	44	2 dB

The Zoom interface also shows a list of participants on the right, including Sandeep, Dipanjan Gope (Host), ARJUNA MUDULI, Dr Nukala Srinivasa Rao, Lakshminarayana Merugu, Prashant Mishra, Rakesh Kichouliya, and Ravi Dutt Gupta. There are 27 attendees displayed.

The banner is for a webinar titled "EMC Simulation – Past, Present and Future". It is presented by the MTT-S/AP-S/EMC-S Joint Chapter, Hyderabad Section. The speaker is Dr. Dipanjan Gope, an Associate Professor at the Dept. of ECE, Indian Institute of Science, Bangalore. The webinar is scheduled for September 25th, 2021, at 6:30 PM IST. A registration link is provided: <https://bit.ly/2YVB053>. The banner also mentions "Attractive prizes to win in Post event Quiz". Logos for IEEE Hyderabad Section, MTT-S, AP-S, and EMC Society are visible at the top.

AP-S Distinguished Lecture by Dr. Erik Lier

IEEE HYDERABAD SECTION

MTT-S **AP-S** **EMC SOCIETY**

IEEE Hyderabad Section
MTT-S/AP-S/EMC-S Joint Chapter

Speaker **Dr. Erik Lier**
Life Fellow, IEEE
Lockheed Martin Space USA

AP-S Distinguished Lecture (Webinar)
On **Metamaterials: A Manipulation of waves**

Attractive prizes to won in Post event Quiz

October 9 9th October, 2021 (Sat)
06:00PM – 08:00 PM (IST)

Link for registration: <https://bit.ly/3ibJoo2>

Supporting Student Branch Chapters: IEEE MEC MTT SBC, IEEE Vardhman MTT SBC, IEEE MICET MTT SBC, IEEE NITW MTT SBC

Speaking: Sulakshana Chilukuri

Participants (50)

Panelist: 8

- Sandeep ... Host, me
- Ayesha Naaz
- Dr. Yarlagadda Padma Sai
- erik lier
- Lakshminarayana Merugu
- Prashant Mishra

Chat

<https://www.zoom.us/j/9291274266>
from Dr. Yarlagadda Padma Sai to everyone: 7:57 PM
Excellent session, very patiently answered all questions. Thank you very much for organizing such a wonderful session. Thanks so

To: Everyone

Enter chat message here

Screenshot saved
The screenshot was added to your OneDrive.
OneDrive

Expert Lecture by Dr. Choon Beng Sia

IEEE
HYDERABAD SECTION

MTT-S **AP-S** **EMC SOCIETY**

IEEE Hyderabad Section
MTT-S/AP-S/EMC-S Joint Chapter

Speaker **Expert Lecture (Webinar)**
On

**Improving Measurement Accuracy & Continuity
in Wafer-Level Sub-THz Measurements up to
750 GHz for Device Modeling Applications**

Dr. Choon Beng Sia
Form Factor Pte Ltd,
Singapore

Attractive prizes to won in Post event Quiz

Date: 17th October, 2021 (Sun)
Time: 11:00AM – 01:00 PM (IST)

Link for registration: <https://bit.ly/3zO2VRg>

Webex | Event Info | Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Speaking: Prashant Mishra (Host)

Participants (10)

Panelist: 7

- Sandeep Chaturvedi (Me)
- Prashant... (Host)
- Choon Beng Sia
- KUMUD RANIAN
- Lakshminarayana Merugu
- Meena Mishra
- Yogesh Verma

Attendee: 11 (2 displayed)





- PRANAV S...
- Para Prab...

Mute Stop video Share

Type here to search


13:19 17/10/2021

AP-S Distinguished Lecture by Dr. Drixian Liu



IEEE Hyderabad Section
MTT-S/AP-S/EMC-S Joint Chapter

IEEE Bangalore Section
MTT-S/AP-S Joint Chapter

Speaker

Dr. Duixian Liu
IBM TJ Watson
Research Centre,
USA

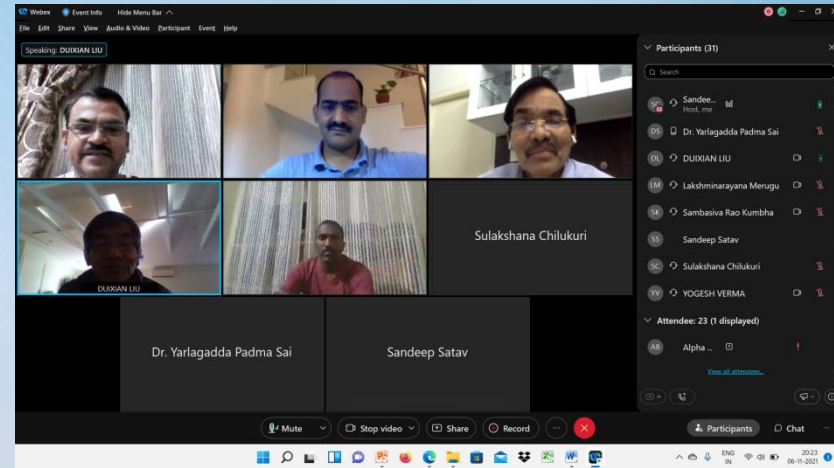
AP-S Distinguished Lecture (Webinar)
On
**Scalable Millimeter wave
Phased Arrays: Challenges/Solutions**

Attractive prizes to be won in Post event Quiz

6th November, 2021 (Sat)
06:30PM – 08:00 PM (IST)

Link for registration: <https://bit.ly/3DxVOP1>

Supporting Student Branch Chapters	IEEE MEC MTT SBC	IEEE Vardhman MTT SBC	IEEE OUCE MTT SBC	IEEE GPREC MTT SBC	IEEE MJCET MTT SBC	IEEE NITW MTT SBC	IEEE KLU MTT SBC	IEEE VNR VIJET MTT SBC
------------------------------------	------------------	-----------------------	-------------------	--------------------	--------------------	-------------------	------------------	------------------------



Two days workshop Jointly with MTTs KLU Vijayawada SBC

KL UNIVERSITY Electronics & Communication Engineering
IEEE HYDERABAD SECTION
IEEE KLU SB MTT-S

CATEGORY 1 UNIVERSITY
 KL ACCREDITED BY NAAC WITH A++
 RANKED 35 IN THE WORLD BY NIRF 2020
 41 YEARS OF EDUCATIONAL EXCELLENCE

Inauguration function of MTT-S SBC, KLET with two days online Symposium on
FUTURE WIRELESS SYSTEMS
 15th -16th November 2023

Organized by IEEE MTT-S Student Branch Chapter, Koneru Lakshmaiah College of Engineering, KLEVE (Deemed to be University)

Inauguration ceremony: 9.15 am -10.15 am

Speakers

- Dr. Shiban K Koul**
 Emerita Professor
 Indian Institute of Technology Delhi and IEEE MTT-S Regional (Dr. KLET) coordinator.
 Schedule: 15th Nov 2023 | 8.30 am - 8.30 am
 Topic: *Special Address for Future 5G Deployment*
- Dr. Debatosh Guha**
 Professor, Radio Physics and Electronics, University of Calcutta and Fellow-IEEE
 Schedule: 15th Nov 2023 | 8.30 am - 1:30 pm
 Topic: *The Wireless World*
- Dr. Debdweep Sarkar**
 Assistant Professor, Indian Institute of Space Bangalore
 Schedule: 16th Nov 2023 | 8:30 am - 8:30 am
 Topic: *Recent Advances in Computational Communications and Propagation Engineering for 5G and Beyond*
- Dr. Rabindra K. Mishra**
 Professor, Koneru Lakshmaiah University, Dilsa
 Schedule: 15th Nov 2023 | 9:30 am - 1:30 pm
 Topic: *Recent advances in 5G and Beyond*

Chairperson
 Dr. M. Suman
 Professor and Head, ECE, KLUVA

Dr. M. Goutham
 Professor and Head, ECE, Koneru Lakshmaiah College of Engineering, KLEVE

Technical Advisor Committee
 Dr. Sandeep Kumar Choturvadi
 Chair, IEEE MTT-S, Hyderabad Section
 Dr. D. V. Ratnam
 Research Head, ECE, KLUVA
 Dr. S. V. Lakshmi
 Counsellor, IEEE SB, KLET

Convener
 Dr. Arjunna Murthi
 Faculty Advisor, IEEE MTT-S SBC, KLET

Organising committee
 Dr. S. Nagendranath
 Assoc. Prof., ECE
 Dr. T. Usha Devi
 Assoc. Prof., ECE
 Dr. Praveena Bora
 Asst. prof., ECE
 Dr. Binuojit Jena
 Asst. prof., ECE
 Mr. K. T. P. S. Kumar
 Asst. prof., ECE
 B. Manoj Kumar
 Chapter Chair, IEEE MTT-S SBC, KLET
 G. Raghavanya Kumar
 Chapter Vice Chair, IEEE MTT-S SBC, KLET
 V. Sri Lakshmi Jureddy
 Chapter Secretary, IEEE MTT-S SBC, KLET
 Chaitanya Harika Chandreddi
 Treasurer, IEEE MTT-S SBC, KLET
 A. Geopichandu
 Webmaster, IEEE MTT-S SBC, KLET

Registration link: <https://forms.gle/0nzn1San18Znf6B>

Zoom Meeting Interface

Speaking: rabindra Mishra

Participants (73)

- Dr. Sandeep...
- 5884 Dr. Arjuna Muduli (Host)
- Shiban Koul
- 180040422_G.Panchajanyak...
- 3452 Dr.P.Venkat V...
- 3726 Mr.P.Saleem ...
- 3843 Dr S Koteswara Rao
- 5101 K T P S Ku...
- 5406 Rooban
- Aditya Sahu
- Amitech Kumar
- Ankita Devi

Meeting controls: Unmute, Stop video, Share, etc.

System tray: Windows taskbar, network, time 11:29, 13-11-2021

DMI Workshop on 26th Nov 2021

~200 Students participated from Hyderabad region through classroom and online mode



Matrusri MTT SBC classroom



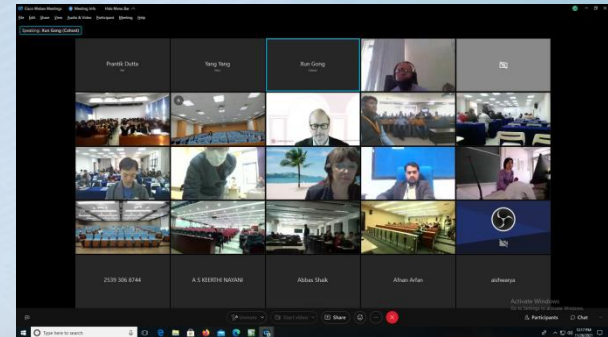
GPREC Kurnool MTT SBC classroom



VNR VJIET MTT SBC classroom



OUCE MTT SBC classroom



NIT Warangal, KLU Vijayawada @online

JC Bose memorial lecture by Dr. V.V. Srinivasan

IEEE
HYDERABAD SECTION

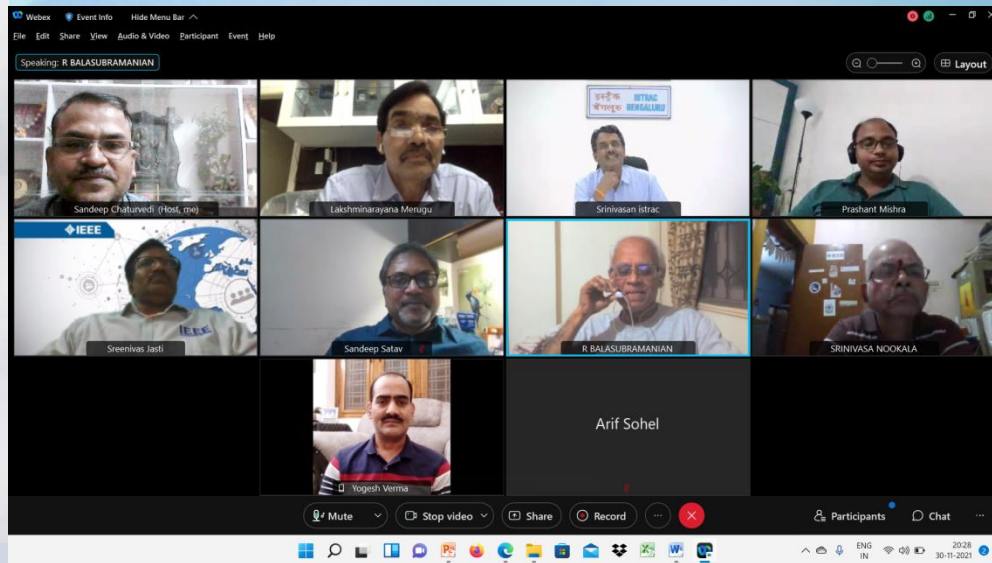
MTT-S **AP-S** **EMC SOCIETY**

IEEE HYDERABAD SECTION
MTT-S/AP-S/EMCS-S JOINT CHAPTER
11th J.C. Bose Memorial Lecture

Ground station Antennas for space applications

Speaker:
Dr. V.V. Srinivasan
Director,
ISRO Telemetry, Tracking
and Command Network
(ISTRAC)

Date: 30th November 2021
Time: 06:00 PM onwards



AP-S COPE STEM Workshop for School Children



2-day workshop on “Digital radio design and Applications”



Institute of Electrical and Electronics Engineers
Hyderabad Section
MTT-S/AP-S/EMC-S Jt. Chapter
in association with
CAS/EDS Jt. Chapter

present a
TWO DAYS WORKSHOP
ON
DIGITAL RADIO DESIGN AND APPLICATIONS


Dr. Meena D.
LRDE, Bangalore


Prof. Meenakshi Rawat
IIT Roorkee


Anindya Saha
Saankhya Labs, Bangalore

S
P
E
A
K
E
R
S


Dr. Usha Verma
ASI, Hyderabad


Dr. A. K. Singh
DLRL, Hyderabad


Prof. Robert Stewart
University of Strathclyde, UK

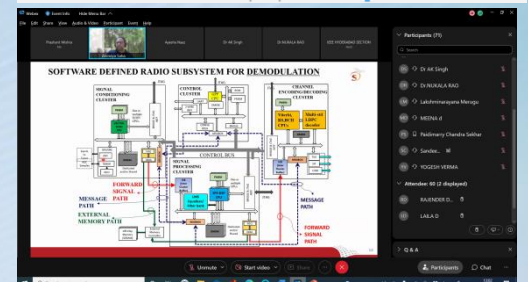
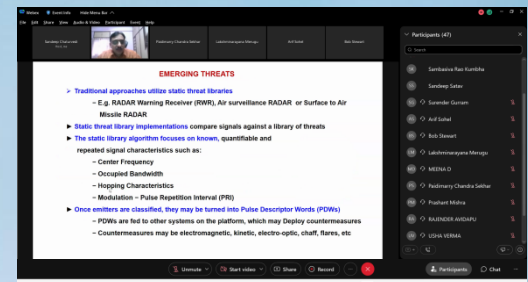
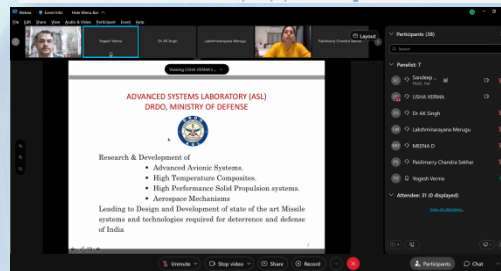

Suresnder Gurram
Xilinx India


Dr. Anand Mukhopadhyay
Mathworks India

Schedule

	10:00-11:00 Hrs	11:10-12:10 Hrs	12:20-13:20 Hrs	14:30-16:30 Hrs
Day-1 (11th Dec 2021)	FPGA based digital beamforming	Digital linearization Techniques: Optimizing energy and spectrum efficiency of Digital Radios	SaankhyaLabs SDR Platform for Telecom Applications	Model based DSP design using System Generator
	Dr. D. Meena, Scientist, LRDE Bangalore	Dr. Meenakshi Rawat, Associate Professor, Dept. of ECE, IIT Roorkee	Anindya Saha, CTO, Saankhya Labs, Bangalore	Suresnder Gurram, Xilinx India
Day-2 (12th Dec 2021)	Direct RF Processing FPGA systems for DRFM based Electronic Counter Measures	FPGA based Digital Receivers for EW Applications	Design and Prototype FPGA/ASIC Systems using MATLAB & Simulink	Software Defined Radio using the Xilinx RFSoc: Technology, Design Flow and Demonstration
	Dr. Usha Verma, Scientist 'G' and Technology Director SSE, ASI/RCI Hyderabad	Dr. Arun Kumar Singh, Scientist, DLRL Hyderabad	Dr. Anand Mukhopadhyay, Mathworks India	Prof Robert Stewart and team, University of Strathclyde

Link for Registration: <https://bit.ly/3dmDFZH>



3-days workshop on Antenna Measurement and simulations using HFSS jointly with Matrusri MTT SBC

A Three Day Workshop on "Microwave Antenna Measurements and Simulation Studies using HFSS" 16th-18th December 2021 (Blended Mode)

Registration

1. IEEE Student Members:	Rs.100/-
2. Non-IEEE Student Members:	Rs.200/-
3. Research Scholars(Full-Time):	Rs.400/-
4. Faculty Members:	Rs.600/-
5. Industry Persons:	Rs.1000/-

Payment Details

A/C Name : IEEE MEC SB
 A/C NO : 052101010156962,
 UNION BANK OF INDIA,
 Salidabad Branch,
 IFSC: UBIN0805211

Participant's online registration link
<https://forms.gle/7BU3PSZ4q5jgimCS9>

Important Dates Last date of Registration
 6th Dec 2021

Student Co-ordinators

Mr. P.Sai Varma, MECS IEEE MTT-S Chair
 Ms. Y. Sathwika, MECS IEEE MTT-S Vice Chair
 Ms. N.Preetham, MECS IEEE MTT-S Secretary
 Ms.A. Aishwarya, MECS IEEE MTT-S Treasurer

Chief Patron
 Dr. K. P. Srinivas Rao, Chairman
 Matrusri Education Society, Hyderabad

Patrons
 Sri. M. Krishna Kumar, Secretary, MES
 Sri. J. Sudhakar, Treasurer, MES
 Dr. D. Hanumantha Rao, Principal, MECS

Advisory Committee

Dr. Shiban Koul
 Emeritus Professor, EE Dept., IIT-Delhi
 Dr. M. Karthikeyan, FIEEE
 Prof. EE Dept., IIT-Tirupathi
 Dr. M. Lakshminarayana
 SC-HI Res.DRDO &
 Director R&D Uniting Tech Solutions
 Dr. Sandeep Chaturvedi
 Chair-IEEE MTTs , Hyderabad Section
 Sri. Sandeep M Satav
 Past Chair-IEEE MTTs , Hyderabad Section
 Dr. N. Srinivasa Rao
 Professor & Head, Department of ECE
 Dr. V. Srinivasa Rao, SMIEEE
 Scientist 'F', ICR, Hyderabad
 Dr. Sulakshna Chilkuri
 Secretary AP/MTT/EMC JI Chapter,
 IEEE Hyderabad section

Co-ordinators

Dr. M. Nareesh, Asst. Prof, ECE
 Mrs.A.S. Keerthi Nayani, Asst. Prof, ECE
 MECS IEEE-SB Counselor
 Mrs. K. Aruna, Asst. Prof, ECE
 MECS WIE AG Chair Person



A THREE DAY WORKSHOP
 ON
"MICROWAVE ANTENNA MEASUREMENTS AND SIMULATION STUDIES USING HFSS"
 16th - 18th December, 2021
 (Blended Mode)

Jointly Organized in Association with
 IEEE MTT-Society Hyderabad Chapter IEEE Hyderabad section, IEEE MTT-S(17791)
 Department of Electronics & Communication Engineering
 (NBA Accredited)

Matrusri Engineering College
 Sponsored by Matrusri Education Society, Since 1980
 (Approved by AICTE, Affiliated to Osmania University)
 #16-1-486, Saralabad, Hyderabad-500 059.
 Ph:040-24072654
www.matrusri.edu.in



Expert Lecture by Dr. Rajveer Yaduvnashi



IEEE Hyderabad Section
MTT-S/AP-S/EMC-S Joint Chapter

Speaker
Dr. Rajveer S. Yaduvnashi
Professor, Dept of ECE
NSUT Delhi

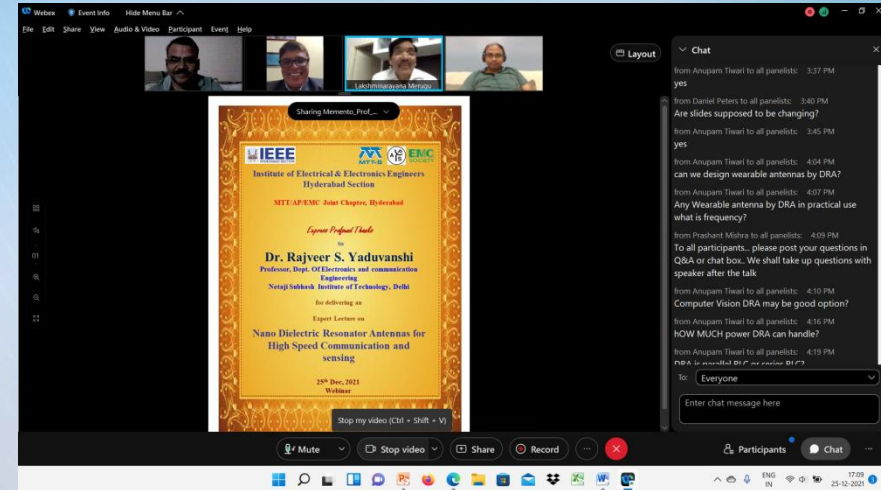
Expert Lecture (Webinar)
On
**Nano Dielectric Resonator
Antennas for 5G Applications**

Attractive prizes to be won in Post event Quiz

25 25th December, 2021 (Sat)
03:00 PM – 05:00 PM (IST)

Link for registration: <https://bit.ly/3efypY4>

Supporting Student Branch Chapters	IEEE MEC MTT SBC	IEEE Vardhman MTT SBC	IEEE OUCE MTT SBC	IEEE GPREC MTT SBC	IEEE MJCET MTT SBC	IEEE NITW MTT SBC	IEEE KLU MTT SBC	IEEE VNR VIJET MTT SBC
------------------------------------	------------------	-----------------------	-------------------	--------------------	--------------------	-------------------	------------------	------------------------



The screenshot shows a Zoom meeting in progress. The main window displays a slide titled "Expert Lecture" by Dr. Rajveer S. Yaduvnashi, Professor at NSUT Delhi, on the topic of "Nano Dielectric Resonator Antennas for 5G Applications". The slide includes the IEEE Hyderabad Section logo and the event date: 25th Dec, 2021. A chat window on the right side of the screen shows a conversation with participants asking questions about the slides and the DRA antenna design.

Future Chapter Activities

9th October 2021: AP-S Distinguished Lecture on “Metamaterials-A manipulation of waves by Dr. Erik Lier, Lockheed Martin Space, USA

17th October 2021: Expert Lecture on “Improving Measurement Accuracy & Continuity in Wafer-Level Sub-THz Measurements up to 750 GHz for Device Modeling Applications” by Dr. Choon Beng Sia, Formfactor Pte Ltd., Singapore

6th November 2021: AP-S Distinguished Lecture on “Scalable Millimeter wave Phased Arrays: Challenges and Solutions” by Dr. Drixian Liu, IBM TJ Watson Research Centre, USA

30th November 2021: JC Bose memorial lecture on “Ground Station Antennas for Space Applications”, by Dr. V.V. Srinivasan, Director, ISTRAC, Bangalore

Membership development campaigns and results



MICROWAVE THEORY & TECHNIQUES SOCIETY (MTT-S)
STUDENT BRANCH CHAPTER - NIT WARANGAL

PRESENTS
A special talk on : IEEE student membership benefits

CHIEF GUEST & SPEAKER
Dr. Sandeep Chaturvedi
Chapter Chair
MTTS/APS/EMCS Joint Chapter
IEEE Hyderabad Section

GUEST OF HONOUR
Prof. L. Anjaneyulu
Dept. of ECE
NIT Warangal

SEPTEMBER 12, 2021
TIME: 6 PM
VIRTUAL (WEBEX) PLATFORM

UNIVERSITY OF HYDERABAD
Centre for Advanced Studies in Electronics Science and Technology (CAESST)
Seminar on "MMIC TECHNOLOGIES FOR SPACE AND DEFENCE APPLICATIONS: AN INDIAN PERSPECTIVE"

Thursday, March 26, 2021



Agenda Items

6:30 pm - 6:33 pm Introduction by HOD

6:34 pm - 6:55 pm Presentation about IEEE Membership benefits, activities and initiatives of IEEE Hyderabad section.
Dr. Sandeep Chaturvedi, Chapter Chair, IEEE Hyderabad section
Sandeep Jai, Chair, Membership Development committee, IEEE Hyderabad section
Santosh Reddy, Vice Chair, Membership Development committee, IEEE Hyderabad section
Dr. Sandeep Chaturvedi, Chapter Chair, IEEE Hyderabad section
Dr. Sandeep Chaturvedi, Chapter Chair, IEEE Hyderabad section
Dr. Sandeep Chaturvedi, Chapter Chair, IEEE Hyderabad section

6:55 pm - 7:05 pm Talk about MTT benefits and about MTT Hyderabad Chapter activities and initiatives
Dr. Sandeep Chaturvedi, Chapter Chair, IEEE Hyderabad section

7:05 pm - 7:50 pm Talk on the topic of the day "MMIC technologies for space and defence applications: an Indian perspective"
Dr. Sandeep Chaturvedi, Chapter Chair, IEEE Hyderabad section

7:50 pm - 7:55 pm Question and answer session
Dr. Sandeep Chaturvedi, Chapter Chair, IEEE Hyderabad section

7:55 pm - 8:00 pm Conclusion

Meeting details
video call link: <https://meet.google.com/jeh-ncq-ayq>

Select OU of your Volunteer Role: Hyderabad Section Jt Chapter, AP03/M...
Region: R10
Grade: (All)
IEEE Status: Active

Count by Region and Grade

Region	Council	Section	Grade Category	Grade	Total
R10	India Council	Hyderabad Section	IEEE Grades	Associate Member	2
				Fellow	1
				Graduate Student Member	49
				Life Fellow	1
				Member	62
				Senior Member	40
				Student Member	261
				Total	416
		Vizag Bay Section	IEEE Grades	Graduate Student Member	1
		Total	Total		1
		Total			417
		Total			417
		Grand Total			417

Muffakham Jah College of Engineering and Technology

IEEE Student Branch MJCET in collaboration with

IEEE MTT/AP/EMC Chapter of Hyderabad Section

Presents Webinar on

MMIC Technologies for Space and Defence Applications: an Indian perspective

Date: 12 April 2021 Timing: 6.00PM to 7.00PM

Link: <https://meet.google.com/sog-mooe-dws> (Please join by 5.55 PM)

Snapshot of Hyd MTT/AP/EMC Joint Chapter membership statistics as on 29th December 2021

Student Activity

Established 4 New student Branch Chapters (total 8 SBC with Hyd chapter now)

MJCET Hyderabad, NIT Warangal, KL University Vijaywada, VNT VJIET, Hyderabad

Revived membership strength at Osmania university MTT SBC

Student/Graduate student membership growth of >30% in 2021