



IEEE ANTENNAS AND PROPAGATION SOCIETY (MADRAS SECTION)



In association with
Department of Electronics and Communication Engineering
KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Declared as Deemed to be University under Sec. 3 of the UGC Act 1956)

Organizes

ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME

“Biomedical Antennas”

Date : 21st March to 26th March 2022

Timings: 6:00 pm to 7:30 pm

EMINENT SPEAKERS

Day 1 : 21st March 2022

Dr. S Raghavan,

Professor (Retd). NIT, Trichy

Topic: MIC for Wearable Antenna

Day 2 : 22nd March 2022

Dr. K. Krishna Murthy, National Institute of Technology, Surathkal

Topic: Design of Metamaterial Antennas

Day 3 : 23th March 2022

Dr. Ashok Kumar, Jyothishmathi Institute of Technology and Sciences, Andhra Pradesh

Topic: Textile Antennas

Day 4 : 24th March 2022

Dr. Debarati Ganguly, Post Doctoral Fellow, IISc Bangalore.

Topic: UWB Channel Modelling and Implanted Antennas for Biomedical Telemetry

Day 5 : 25 March 2022

Mr. Doondi Kumar Janapala, KITS, Coimbatore

Topic: Antennas for Endoscopy Applications

Day 6 : 26 March 2022

Dr. T. Shanmuganatham, Central University, Pondicherry

Topic : Antennas for On-body Applications

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REGISTRATION PROCESS

The faculty members from the AICTE approved institutions, research scholars, PG scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions is eligible to attend the program. There is **NO REGISTRATION FEE** to attend this online FDP.



Register this online FDP through the registration link (<https://bit.ly/35KG93o>). E-certificates will be provided to all active participants. Last date of online registration is 17/03/2022. Shortlisted candidates will be informed on or before 19/03/2022.



Prof. Dr. S. RAGHAVAN, M.E., Ph.D
Professor (HAG), Retd.
Department of Electronics and Communication Engineering
N.I.T., Tiruchirappalli

Dr. S. RAGHAVAN Professor in Electronics and Communication Engineering Department, National Institute of Technology (N.I.T.), Trichy has about 40 years of teaching **and research** experience. His Research interest includes Microwave Integrated Circuits, RF MEMS, Bio-MEMS, Metamaterial and Microwave **Engineering**. A proud research scholar of Prof Bharathi Bhat and Prof S K Koul, CARE, DT Delhi. has established state of the art for Microwave Integrated Circuit and Microwave Laboratory in N.I.T., Trichy with the help of Govt. of India funding. He has Won Best Teacher award twice and conferred with Honorary Fellowship of Ancient Sciences and Archaeological Society of India, His first Research Scholar obtained a Gold medal for the Best Thesis of the year. Short time visiting Fellow in California State University, North Ridge, USA. Awarded to conduct Tutorial in APEMC 2010, Beijing, China. Organizing Chair of 'Indian Antenna Week 2014', Chandigarh. Invited to be a session chair in PIERS symposium Taipei, Taiwan. Has to his credit 130 research papers in national and International Journals, 99 in IEEE Explore, 140 International conferences, 28 National conferences. Also, filed 3 patents. Guided 16 Ph.D scholars. Senior Member/Fellow in more than 20 international and national Professional Societies including IEEE, BE8, IEI, IETE, CSI, TSI, ISTE, ISSS, NPC ISOI, ILA. IELTS and ASL organized various workshops of national importance. Has contributed lot in the development of state of the art Library (instrumental in the plan of the new Multistoried Library building as the then Library Coordinator) and Hospital (changed a clinical Dispensary into a 24 Hour hospital as the then Chairman of the Hospital Modernization committee) in NIT-T. He is an Executive Member of TSI and also in the Tamil Nadu Chapter of TSI. Also, he is the founding faculty advisor of IEEE MTT and APS student branch Chapters NIT Trichy. Dr.S.Raghavan is the author of Microwave Integrated Circuit Components Design through MATLAB CRC Press.



Dr. ASHOK KUMAR SRINIVASAN, M.E., Ph.D
Professor & Head,
Department of Electronics and Communication Engineering,
Jyothishmathi Institute of Technological Sciences,
Karimnagar, India

Dr. ASHOK KUMAR SRINIVASAN received Ph.D under the guidance of Dr. T. Shanmuganatham in Department of Electronics Engineering, School of Engineering and Technology, Pondicherry University (Central University), Pondicherry, India in March 2015. He has Eleven years of teaching and research experience in the field of Antennas, RF & Microwave. He is currently working towards the Professor & Head, Department of Electronics and Communication Engineering, Jyothishmathi Institute of Technological Sciences, Karimnagar, India. He has authored for 16 book chapters and 101 SCI & SCOPUS indexed journals and conference papers. Recently he received 3 MODROBS Lab funding approximately 35 Lakhs from AICTE in the academic year (2019-2022). Also he is Principal Investigator of UGC JNTUH-TEQIP III Funded Project from July 2019 – Dec 2020. Received travel grant from DST (May 2015 - Malaysia), travel grant from CSIR (Aug 2017- China) and travel grant from AICTE (Nov 2019- Malaysia). His current research interest includes implantable antennas, biotelemetry and telemedicine application. He is a member in professional bodies such as IEEE, IETE, IEI, RFID, Microwaves & RF, ATMS and senior member in URSI. He is on the Editorial Board Member of many SCI & SCOPUS indexed journals such as ICT Express and PiscoMed publications. He is potential reviewer for IEEE Trans. on Antennas and Propagation, IEEE MTT, IEEE Access, John Wiley, Elsevier, Taylor and Francis and many IEEE SCOPUS indexed Journals. He is top 1% reviewer in around the world based on publons record (108 SCI & Scopus papers reviewed). His team received Class A Award from e-Yantra Robotic Competition conducted by IIT Bombay. He visited many countries like Malaysia, Singapore and China in connection with various academic-assignments.



Dr. K. KRISHNA MURTHY, M.E., Ph.D
Assistant Professor,
National Institute of Technology,
Surathkal

Dr. Dr. K. KRISHNA MURTHY completed his PhD from Electrical Engineering Department, IIT-Bombay, Mumbai, 2016 and Masters of Engineering (Communication systems) from the College of Engineering Guindy, Anna University, Chennai, 2007. He has done his Bachelor of Engineering (Electronics & Communication Engineering) from Bharathiar University, Coimbatore, 2002. His research area includes Antenna design, Antenna Design, Reconfigurable and multiband antenna design, RF and Microwave Engineering Metamaterials. He has successfully completed the scientific Project titled Compact multi-band antenna with independently controlled resonant frequency and polarization for mobile wireless applications”. Sponsoring Agency: SERB-DST, Govt. of India (under Early Career Research Award). Duration: Three years (2017-2020). Project Cost: Rs. 44,22,660/-. Also he has completed the project titled “Design and Development of Wideband Circularly Polarized Antenna using 2D Metamaterial Structures.” Sponsoring Agency: ISRO RESPOND Scheme. Duration: Two years (2018-2020). Project Cost: Rs. 25,71,000/-. He has published 24 papers in a reputed journals including IEEE transactions on Antenna and Propagation. Also he has contributed his research findings in 36 conferences.



Dr. DEBARATI GANGULY, M.E., Ph.D
National Post Doctoral Fellow,
Indian Institute of Science,
Bangalore.

Dr. DEBARATI GANGULY received her B.Sc Electronics Honours degree from University of Calcutta in the year 2008 with second rank in the University, followed by her post B.Sc B.Tech and M.Tech (Specialization in Microwave and Wireless Engineering) Degrees in the year 2011 and 2013 respectively from the prestigious Institute of Radio Physics and Electronics, University of Calcutta. She has obtained her Ph.D Degree from the same Institute in the year 2019 in Ultrawideband (UWB) Antennas: Innovative Technique for Time Domain Characterization and Some Novel Designs Of UWB Monopoles. She has served as Post Doctoral Research Fellow at Royal Military College, Canada in 2018-2019 and her area of research being MIMO antennas for SDR applications. She has served in Lourdes Matha College of Science and Technology, Trivandrum as Assistant Professor from 2013-2018 in the Dept. of Electronics and Communication. She also served as Visiting Faculty in the Dept. of Optoelectronics, University of Kerala in the year 2021. She is currently working as DST-SERB National Post Doctoral Fellow at the Institute of Science, (IISc) Bangalore and is engaged in research with Royal Military College Canada with Prof. Yahia Antar's Group in the domain of Biomedical Antennas for Body Centric Communication. Her research interests include time domain characterization for UWB Antennas, UWB On-to-Off body channel modeling, Wireless Implanted Antennas for Biomedical Telemetry and Catheter type microwave ablaters for hepatic tumors and cardiac arrhythmia. She has published articles in journals of international repute and in IEEE international conferences too. She has co-authored a book with Cambridge University Press, "Basic Electronics: Principles and Applications". She has received the INAE Award for "Mentoring Engineering Teachers by INAE Fellows" in the year 2015.



Mr. DOONDI KUMAR JANAPALA, M.E. (Ph.D)
Senior Research Fellow,
Karunya Institute of Technology and Sciences,
Coimbatore.

Mr. DOONDI KUMAR JANAPALA received his Bachelor and Masters of Technology degrees from LBRCE-JNTUK in 2011 and 2014 respectively. From April-2018 to March-2020, he was a Junior Research Fellow in DRDO funded project. Currently working as Senior Research Fellow in DRDO funded project and pursuing his Ph.D in Electronics and Communications Engineering at Karunya Institute of Technology & Sciences, Coimbatore, Tamilnadu, India. His Research Interest includes flexible antenna development, wearable technology, biomedical antennas (Implant & Endoscopic), sensors, metamaterials, solar cell, energy absorbers, medical antenna, MW & RF components, package antenna, UWB, fractal, multi band, DRA, & reconfigurable antennas and developing materials for soft electronics. He published 9 SCI journals on various topics wearable antenna, reconfigurable antenna, capsule antenna, solar cells, UWB filters. Two Patents are published and presented papers in five International conferences (One in UAE). He has delivered several sessions as resource person/invited talk/guest lecture for various institutes all over India sponsored by respective Institutes /ATAL-FDP /AICTE-STTP /DBT STAR SCHEME etc. Served as Reviewer for IET Microwaves, Antennas & Propagation (IET), Optical and Quantum Electronics (Springer) and Circuit World (Emerald).



Dr. T. SHANMUGANANTHAM M.E., Ph.D
Associate Professor,
Department of Electronics Engineering,
Central University,
Pondicherry.

Dr. T. SHANMUGANANTHAM is working as an Associate Professor in the Department of Electronics Engineering at Pondicherry University. He received the B.E. degree in Electronics & Communication Engineering from University of Madras in the year 1996, M.E. degree in Communication Engineering from Madurai Kamaraj University in the year 2000 and Ph.D. degree (Received Gold Medal for Best Thesis) in the field of Antenna Engineering from National Institute of Technology (NIT), Tiruchirappalli in the year 2010 under the guidance of Prof.S.Raghavan, Senior Professor (HAG), Dept. of Electronics & Communication Engineering, NIT, Tiruchirappalli. He has 22+ years of teaching experience. His research interest includes Antennas, Microwave/Millimetre-Wave Engineering and MEMS/NEMS, Specific antennas for Automotive, Healthcare, Satellite, Space, and Wireless industries. He has published 210 papers in Peer Reviewed SCI/Web of Science/Scopus Indexed Journals, 420 papers in Conference proceedings such as IEEE Xplore and 12 Book Chapters Published in Springer Nature and Elsevier. Professor Shanmuganantham is a Fellow of Antenna Test and Measurement Society (ATMS) elected by ISRO Scientists and also elected as Senior Member in IEEE (USA), Member in IEEE Antenna & Propagation Society, Member in IEEE Circuits & System Society, Member in IEEE Microwave Theory & Technique Society, Life Member in ISSS, IETE, IE (India), CSI (India), ISTE, EMC, ILA, OSI and ISI. He is also Member of School Board, Pondicherry University, Member of Board of Studies in Pondicherry University, University of Madras, Annamalai University and Christ University. His biography was included in 'Marquis who is who in the world', USA in 2010 & 2018, also his biography was selected in 'Asia Pacific Who's who' in 2018. He is on the Editorial Board Member of ICTACT Journal on Microelectronics, he is served as office bearer for IEEE Circuits and Systems Society (India Chapter) from 2016 to 2019. He conceptualized and initiated five flagship IEEE sponsored conferences in India from 2014 – 2019 in the fields of Antennas, Microwaves, Circuit & Systems and he is elected as Chairman for IEEE Antennas & Propagation Society-Madras Section for 2020-2021. He received more than 25 Best Paper awards from IEEE, Springer sponsored Conferences. 10 Ph.D. degree students have been awarded under his guidance and He is currently guiding 04 Doctoral Research Scholars. He has completed two sponsored projects worth Rs.57 lakhs. He is potential reviewer for IEEE Trans. on Antennas and Propagation, Microwave Theory and Techniques, Access, PIER Journals, John Wiley, Elsevier, Taylor and Francis and many IEEE Conferences.