

**THURSDAY | 15th December, 2022**

8:30 AM-10:00 AM	<b>REGISTRATION</b> PhD Scholar: Ch Naga Srinivasarao & L. Prasanthi				
09:30 AM-11:30 AM	<b>INAUGURAL CEREMONY</b> Venue: Hall 8 (AUDITORIUM) PhD Scholar: P. L. Lahari & Birudu Venu				
11:30 AM-12:00 PM	<b>HIGH COFFEE/TEA BREAK</b>				
12:00 PM-1:00 PM	Track 1: Electronic Materials & Devices & Track 3: Optoelectronic Devices & Metamaterials  Venue: HALL 1 (S209) Session Chair: Prof. Samaresh Das Co-Chair: Dr. Monoj Kumar Singha PhD Scholar: Shaik Rajak & Premateja	Track 2 : Photonic Materials and Devices & Track 9: RF and THz Devices and Circuits  Venue: HALL 2 (S311) Session Chair: Dr. Shyamal Mondal Co-chair: Dr. Syed Tajammul Ahmad PhD Scholar: K Tirumalarao & Ali Hussain	Track 4 : Signal Processing, Communication and Networks for IOT & Track 6: Artificial intelligence and Machine Learning Venue: HALL 3 (S411) Session Chair: Prof. Amlan Chakrabarti Co-chair: Dr. Sunil Chinnadurai PhD Scholar: Purna Prasad & Imam Vali	Track 5: VLSI and Embedded Systems & Track 7: Micro-and Nano-Fabrication Technology Venue: HALL 4 (S511) Session Chair: Dr. Kamal Das Co-chair: Dr. M. Durga Prakash PhD Scholar: Kamala Kumari & Penumalli Koteswararao	Track 8: Neuromorphic and Quantum Computing & Track 10 : Healthcare Technologies  Venue: HALL 5 (S611) Session Chair: Dr. Bruno Romeiro Co-chair: Dr. Karthikeyan E PhD Scholar: Sravan Kumar & Vinodh Kumar
	12:00 - 12:30 PM	Highly sensitive surface plasmon-based refractive index sensor in the optical communication band using ZnS-PVP layers.  <u>Authors</u> S. Patria, A. Singh, S. Shukla, P. Arora  "SILAR Synthesized Molarity Dependent Bismuth Oxide Electrodes for Supercapacitive Measurements  <u>Authors</u> R.M. Kokane, R.G. Bobade, U.T. Nakate, R.C. Ambare, P.B. Dahivade, B. J. Lokhande	Miniaturized Half-Mode Substrate Integrated Waveguide Based Inverted L-Shaped Slot Antenna  <u>Authors</u> Buela Pramodini, Divya Chaturvedi  Novel Design and Development of Dielectric Resonator Antenna for Device-to-Device Communications in 5G Applications  Ch. Raghavendra, K. Ravi Shankar, K.Vamsi Reddy, B. M Bhargava Sanjay, V Pradeep, R Pranay	Keynote/Invited Talk: Prof. Amlan Chakrabarti, University of Calcutta  Title: Quantum Paradigm for Machine Learning	Keynote/Invited Talk: Dr. Sakellaris Mailis, Skolkovo Institute of Science and Technology Moscow, Russia  Title: Laser Writing Processes

12:30 PM-12:45 PM	Design Pb – free Flexible Hybrid nanogenerator  <b>Authors</b> Katragadda Nagamalleswari, Soham Kumar, Pranab Mandal	INVESTIGATION & IMPLEMENTATION OF METAMATERIAL BASED DIELECTRIC RESONATOR ANTENNA FOR 5G APPLICATIONS  <b>Authors</b> Ch. Raghavendra, R.Geetha Manohar,Y.Lakshmi Reddy,N.Hari Krishna, V.G.S.Revathi	Determination of TC with the aid of geometry through auto-correlation of the intensity profile  <b>Authors</b> Vinny Cris M., Gangi Reddy Salla	DESIGN AND ANALYSIS OF DIGITAL CIRCUITS USING MOST EFFICIENT GDI TECHNIQUE  <b>Authors</b> Dr. Mukesh Kumar, Saurabh Kumar, Bollu Avinash	A security alert-based architecture to defend against false authentication in multi-biometric enabled e-healthcare systems  <b>Authors</b> Saptarshi Roychowdhury, Binod Kumar Singh
12:45 PM - 1:00PM	Design and Simulation of Pentacene Organic Thin-Film Transistor Possess High Carrier Mobility  <b>Authors</b> L. Prasanthi and M. Durga Prakash	Design and comparative analysis of Aluminum-BiFeO3 based plasmonic sensor in the optical communication band.  <b>Authors</b> S. Mehta, P. Raghunath, S. Shukla, P. Arora	Smart Farming for Agriculture Management Using IOT  <b>Authors</b> G BALU NARASIMHA RAO	Research on Voltage Stability Improvement of Autonomous DC microgrid  <b>Authors</b> Nithara P V, Chithra M, Pooja B P	Skin cancer lesion classification by using mlp  <b>Authors</b> Dr Shaik Basheera, Uriti Vijay, Veeranki Sravanthi, Daram Myna, Katta Siva Nageswarao
1:00 PM-2:00 PM	<b>LUNCH BREAK</b>				
2:00 PM-3:30 PM	POSTER PRESENTATIONS / EXHIBITION <b>Venue:</b> ATRIUM <b>PhD Scholar:</b> M.Chiranjeevi & Pooja A Nair		TUTORIAL SESSION <i>Dr. Orazio Aiello</i> <i>University of Genova, Italy</i> <b>Title:</b> Energy-autonomous and low-cost IC for distributed sensing: from Voltage to Time domain signal processing <b>Venue:</b> HALL 1 (S209) <b>Session Chair:</b> Dr. Goutam Rana <b>PhD Scholar:</b> Gowthami & Rahul Gowtham Poola		
3:30 PM-4:30 PM	Plenary Talk: <i>Prof. Lorenzo Pavesi</i> <i>University of Trento, Italy</i> <b>Title:</b> Classical and Quantum Silicon Photonics: few examples <b>Venue:</b> Hall 8 (AUDITORIUM) <b>PhD Scholar:</b> Ch Naga Srinivasarao & L.Prasanthi				
WOMEN IN DEVICES, CIRCUITS AND SYSTEMS <b>Venue:</b> Hall 8 (AUDITORIUM) <b>Session Chair:</b> Prof. Shanti Bhattacharya <b>Co-chair:</b> Dr. Divya Chaturvedi <b>PhD Scholar:</b> A.Suresh & Praneash.V					

4:30 PM–5:05 PM	<b>Prof. Shanti Bhattacharya, IIT Madras</b> Title: Manipulating Light with Micro and Nano-Optics
5:05 PM–5:40 PM	<b>Dr. Sarbani Ghosh, BITS Pilani, India</b> Title: Microscopic Insight of Electronic structure and Morphology of Conducting Polymers for Organic Electronics
5:40 PM-6:20 PM	COFFEE/TEA BREAK
6:30 PM-7:30 PM	Plenary Talk: <b>Prof. Juejun Hu</b> <i>Massachusetts Institute of Technology, USA</i> Title: Reconfigurable optics: a phase change for the better Venue: Hall 8 (AUDITORIUM) PhD Scholar: Tiruganesh Lanka & V. Nagajyothi
7:30 PM-8:30 PM	DINNER
YOUNG RESEARCHER FORUM TALK Venue: HALL 6 (Tiered Room) Session Chair: Dr. Biswabandhu Jana Co-chair: Dr Arijit Datta PhD Scholar: Sravan Kumar & Kamala Kumari	
8:30 PM-9:00 PM	<b>Dr. Biswabandhu Jana, Massachusetts General Hospital and Harvard Medical School, USA</b> Title: Handheld Doppler for Point-of-care assessment
9:00 PM-9:30 PM	<b>Dr. Bibhas Manna, TU Wien, Germany</b> Title: Design of Room-Temperature Resistive Formaldehyde Sensor for Indoor Air Quality Monitoring
9:30 PM-10:00 PM	<b>Dr. Akanksha Pathak, Emory University, School of Medicine, USA</b> Title: Biomedical Signal Processing and Machine Learning Methods for Cardiac Disease Detection using Heart Sounds
10:00 PM-10:30 PM	<b>Dr. Ankita Jain, Queen's University, Canada</b> Title: Performance Implications of Cascaded ROADMs on DP 64-QAM DWDM Systems with Transceiver Noise
FRIDAY   16th December, 2022	
9:30 AM-10:30 AM	Plenary Talk: <b>Prof. David Wineland (Nobel Laureate)</b> <i>University of Oregon, USA</i> Title: Atomic Clocks Venue: Hall 8 (AUDITORIUM) PhD Scholar: Siva Rama Krishna Ayaluru & Lakshmi Darsi
10:30 AM-11:00 AM	COFFEE/TEA BREAK
TUTORIAL SESSION	

11:00 AM-12:30 PM	<b>National Instruments</b> <b>Title: Internet Of Things</b> <b>Venue: Hall 7 (ALC)</b> <b>Session Chair: Dr. Satish Kumar Tiwari</b> <b>PhD Scholar: Burhan &amp; Syed Abdul Rahim</b>				
11:00 AM-1:00 PM	<b>Track 1: Electronic Materials &amp; Devices &amp; Track 3: Optoelectronic Devices &amp; Metamaterials</b>  <b>Venue: HALL 1 (S209)</b> <b>Session Chair: Dr. Ravindra Jha</b> <b>Co-chair: Dr. Gangi Reddy Salla</b> <b>PhD Scholar: P.L.Lahari &amp; Birudu Venu</b>	<b>Track 2 : Photonic Materials and Devices &amp; Track 9: RF and THz Devices and Circuits</b>  <b>Venue: HALL 2 (S311)</b> <b>Session Chair: Dr. Shankar Kumar Selvaraja</b> <b>Co-chair: Dr. Goutam Rana</b> <b>PhD Scholar: Shaik Rajak &amp; Premateja</b>	<b>Track 4 : Signal Processing, Communication and Networks for IOT &amp; Track 6: Artificial intelligence and Machine Learning</b>  <b>Venue: HALL 3 (S411)</b> <b>Session Chair: Dr. Sunil Chinnadurai</b> <b>PhD Scholar: K Tirumalarao &amp; Ali Hussain</b>	<b>Track 5: VLSI and Embedded Systems &amp; Track 7: Micro-and Nano-Fabrication Technology</b>  <b>Venue: HALL 4 (S511)</b> <b>Session Chair: Dr. M. Durga Prakash</b> <b>PhD Scholar: Purna Prasad &amp; Imam Vali</b>	<b>Track 8: Neuromorphic and Quantum Computing &amp; Track 10 : Healthcare Technologies</b>  <b>Venue: HALL 5 (S611)</b> <b>Session Chair: Prof. Naren Naik</b> <b>Co-chair: Dr. Anil Suresh</b> <b>PhD Scholar: Kamala Kumari &amp; Penumalli Koteswararao</b>
11:00 AM - 11:30 AM	<b>Keynote/Invited Talk: Dr. Samaresh Das, IIT Delhi</b>  <b>Title: Layered materials/Group-IV Semiconductor Heterojunction Photodetectors for Visible to Infrared Wavelengths"</b>	<b>Keynote/Invited Talk: Dr. Shankar Kumar Selvaraja, IISc Bangalore</b>  <b>Title: Silicon photonics: An imperative technology from communication to computing</b>	<b>Keynote/Invited Talk: Dr. Tapan K Gandhi, IIT Delhi</b>  <b>Title: Cognitive Computing to Artificial Intelligence</b>	<b>Keynote/Invited Talk: Dr. Pranabendu Ganguly, IIT Kharagpur</b>  <b>Title: Characterization methods of integrated optic waveguides</b>	<b>Keynote/Invited Talk: Prof. Naren Naik, IIT Kanpur</b>  <b>Title: Biomedical imaging with fluorescence optical and photo-acoustic tomography</b>
11:30 AM - 12:00 PM	<b>H2S Gas Sensing using n-Type Conducting Polymer</b>  <b>Authors</b> <b>Bhavika Gopalani and Sarbani Ghosh</b>	<b>Keynote/Invited Talk: Dr. Shyamal Mondal, Defence Institute of Advanced Technology (DIAT), DU, DRDO</b>  <b>Title: THz Photonics for futuristic applications</b>	<b>Real-Time Wrist-Force Data Acquisition from a Collaborative Robot for Cutting and Heuristic Recognition of Vegetables</b>  <b>Authors</b> <b>Pranav P, Jahnavi Jasti, Ayan Naskar, V V Sai Teja Santosh Chunduru, and P Vivekananda Shanmuganatha</b>	<b>DC and RF Characteristics of Buffer-Free AlGaIn/GaN HEMT and MIS-HEMTs using Si3N4 Passivated Mesa Sidewall</b>  <b>Authors</b> <b>A. Dhongde, S. Taking, A. Ofiare, M. Elksne, K. Karami, M. Dwidar, A. Al-Khalidi and E. Wasige</b>	<b>An optimization based Ensemble Learning Framework for early detection of Breast Cancer</b>  <b>Authors</b> <b>Pravin Kumar Samanta, Nirmal Kumar Rout, Ganapati Panda</b>
	<b>Field Effect Transistor with Nano Sheet Design, Simulation, and Performance Analysis</b>  <b>Authors</b> <b>U. Gowthami and M. Durga Prakash</b>		<b>Machine Learning based Low-Scale Dipole Antenna Optimization using Bootstrap Aggregation</b>  <b>Authors</b> <b>Pavan Mohan. N, Pranav. P, Goutam Rana, Divya Chaturvedi, , Rupesh Kumar</b>  "	<b>"ENHANCING PERFORMANCE IN FULL ADDER CIRCUITS WITH A NOVEL GATE DIFFUSION INPUT TECHNIQUE</b>  <b>Authors</b> <b>Dr. Mukesh Kumar, Saurabh Kumar, Bollu Avinash</b>  "	<b>"Low Power and Wide Bandwidth CMOS Active Phase Shifter for X/Ku/K-Band Phased Array Systems</b>  <b>Rajender Daggula, Vasudeva Bevara, Reddi Ganapati, Busi Sudhakar, and Amit Acharyya"</b>

12:00 PM - 12:15 PM	Graphene-based Electrodes for ECG Signal Monitoring: Fabrication Methodologies, Challenges and Future Directions.  <b>Authors</b> Rimita Dey, Ram Pramod Chokda, Pravin Kumar Samanta & Bishnu Prasad De	DESIGN OF MULTIBAND STEPPED ANTENNA FOR 5G APPLICATIONS  <b>Authors</b> A.Jhansi Rani	Machine-Learning Based Parameter Estimation of a Flexible Link Carried by a Collaborative Robot  <b>Authors</b> Pranav P, Teja Raghu Varma Alluri, Ayan Naskar, Kondapalli Avinash, Shaik Umar and P Vivekananda Shanmuganatha	Design and Simulation of Reversible Logic Gate Using HCS Macro-model  <b>Authors</b> Snigdha Chowdhury Kolay, Amrita Chatterjee, Subrta Chattopadhyay	Analysis of fingerprint biometrics towards deciding on its applicability in e-healthcare systems  <b>Authors</b> Saptarshi Roychowdhury, Binod Kumar Singh
12:15 PM - 12:30 PM	Hard carbon derived from soap-nut seeds as efficient anode material for  <b>Authors</b> Y Bhaskara Rao, LN Patro	Microwave Differential CSRR Sensor for Liquid Permittivity Measurement  <b>Authors</b> Gouree Shankar Das, Akash Buragohain, Yatish Beria	COMPACT DUAL BAND 4X4 MIMO ANTENNA FOR SUB-6 GHZ 5G APPLICATIONS  <b>Authors</b> Bijay Bikash Chamuah	Design Insights into NCFET based Ener  <b>Authors</b> Renuka Chowdary Bheemana, Rames	Novel method of highly secured Image  <b>Authors</b> Rajender Daggula, Vasudeva Bevara, Reddi Ganapati, Busi Sudhakar, and Amit Acharyya
12:30 PM - 12:45 PM		Comparative analysis of Indium Phosphide dielectric-based plasmonic sensors in the optical communication band  <b>Authors</b> K. Sanghi, Y. Tripathy, S. Shukla, P. Arora	Statistical Regression Analysis in Image Transmission for Power Adaptation Algorithms  <b>Authors</b> M. Padmaja, K. Prasuna		

**WOMEN IN DEVICES, CIRCUITS AND SYSTEMS**

**Venue:** Hall 8 (AUDITORIUM)

**Session Chair:** Prof. Enakshi Bhattacharya

**Co-Chair:** Dr. K A Sunitha

**PhD Scholar:** Sravan Kumar & Vinodh Kumar

12:00 PM-12:35 PM	<b>Dr. Chetna Singhal, IIT Kharagpur</b> Title: Machine learning based user-centric efficient immersive media transmission
12:35 PM-1:10 PM	<b>Prof. Enakshi Bhattacharya, IIT Madras</b> Title: Silicon Nanoporous Membranes for Dialysis
1:00 PM-2:00 PM	<b>LUNCH BREAK</b>

**STARTUP TALK**

**Venue:** Hall 6 (Tiered Room)

**Session Chair:** Dr. Udaya Sankar; **Co-chair:** Mr. Udayan Bakshi

**PhD Scholar:** M.Chiranjeevi & Pooja A Nair

2:00 PM-2:45 PM	Mr. Satya Illa, Head - Incubation Centre @V-hub   Social Entrepreneur   Innovator   Startup Catalyst   founder @kaanthi Title: Electrical safety education and awareness - Kaanthi
2:45 PM-3:30 PM	Mr. Sandeep M, EatX, Hyderabad, Telangana Title: Self-cooking kitchens
<p style="text-align: center;">Industry Talks  <b>Venue:</b> Hall 7 (ALC)  <b>Session Chair:</b> Dr. Soumya Maity  <b>Co-chair:</b> Dr. M Ramakrishnan  <b>PhD Scholar:</b> Gowthami &amp; Rahul Gowtham Poola</p>	
2:30 PM-3:00 PM	Mr. Rama Krishna Dasari, CEO at EFFTRONICS SYSTEM PRIVATE LIMITED Title: Ideas for Future
3:00 PM-3:30 PM	Dr. Sajal Sarkar, Power Grid Corporation of India Ltd. Title: Cybersecurity in Power Sector
3:30 PM-4:00 PM	Dr. Soumyo Maity, Dell Technologies Title: Fortification of the Cyber-Physical Systems
4:00 PM-4:30 PM	Dr. Kamal Das, IBM Research, India Title: AI for Agriculture: Application of Remote Sensing and Artificial Intelligence to deliver actionable Agri Insights at scale
4:00 PM-4:30 PM	<b>COFFEE/TEA BREAK</b>
4:30 PM-5:30 PM	<b>Plenary Talk:</b> <i>Prof. Edward Wasige</i> <i>University of Glasgow, UK</i> <b>Title:</b> Terahertz Wireless Communications-Status and Perspectives <b>Venue:</b> Hall 8 (AUDITORIUM) <b>PhD Scholar:</b> Ch Naga Srinivasarao & L.Prasanthi
5:30 PM-7:30 PM	<b>Cultural Programme</b> <b>Venue:</b> Hall 8 (AUDITORIUM) <b>PhD Scholar:</b> A.Suresh & Praneash.V
7:30 PM-10:30 PM	<b>BANQUET DINNER</b> <b>Venue:</b> Vijayawada Club
<b>SATURDAY   17th December, 2022</b>	
<p style="text-align: center;">INDUSTRY TALK  <b>Venue:</b> Hall 7 (ALC)  <b>Session Chair:</b> Dr. Kamal Das  <b>Co-chair:</b> Dr. Sudhakar Tummala  <b>PhD Scholar:</b> Tiruganesh Lanka &amp; V. Nagajyothi</p>	
9:00 AM-9:30 AM	Dr. Satyabrata Sarangi, Meta, Sunnyvale, California, USA Title: Hardware Architectures for Lossless Compression: Toward Improved Throughput, Energy-Efficiency, and Compression Ratio
9:30 AM-10:00 AM	Dr. Souvik Kundu, Intel Labs, USA Title: Challenges and Opportunities in Edge Deployment of Deep Neural Networks at Scale: a Hardware Inspired Algorithmic Approach

10:00 AM-10:30 AM	<b>Dr. Pradipta Patra, Samsung Semiconductor India</b> Title: Power Management Design for SOC mobile applications				
10:30 AM-11:00 AM	<b>Dr. Rajkumar Elagiri, Apex Semiconductor</b> Title: Ideas for Future				
9:30 AM-1:00 PM	<b>Track 1: Electronic Materials &amp; Devices &amp; Track 3: Optoelectronic Devices &amp; Metamaterials</b>  <b>Venue: HALL 1 (S209)</b> <b>Session Chair:</b> Prof. Achanta Venugopal <b>Co-chair:</b> Dr. Gangi Reddy Salla <b>PhD Scholar:</b> Renuka Chowdary Bheemana & M Nagaraju	<b>Track 2 : Photonic Materials and Devices &amp; Track 9: RF and THz Devices and Circuits</b>  <b>Venue: HALL 2 (S311)</b> <b>Session Chair:</b> Prof. Shankar Kumar Selvaraja <b>Co-chair:</b> Dr. Goutam Rana <b>PhD Scholar:</b> Siva Rama Krishna Ayaluru & Lakshmi Darsi	<b>Track 4 : Signal Processing, Communication and Networks for IOT &amp; Track 6: Artificial intelligence and Machine Learning</b>  <b>Venue: HALL 3 (S411)</b> <b>Session Chair:</b> Prof. Tapan K Gandhi <b>Co-chair:</b> Dr. Sunil Chinnadurai <b>PhD Scholar:</b> Purna Prasad & Imam Vali	<b>Track 5: VLSI and Embedded Systems &amp; Track 7: Micro-and Nano-Fabrication Technology</b> <b>Venue: HALL 4 (S511)</b> <b>Session Chair:</b> Dr. M. Durga Prakash <b>PhD Scholar:</b> Burhan & Syed Abdul Rahim	<b>Track 8: Neuromorphic and Quantum Computing &amp; Track 10 : Healthcare Technologies</b>  <b>Venue: HALL 5 (611)</b> <b>Session Chair:</b> Prof. T Srinivas <b>Co-chair:</b> Dr. Anuj Deshpande <b>PhD Scholar:</b> P.L.Lahari & Birudu Venu
	9:30 AM - 10:00 AM	<b>Keynote/Invited Talk:</b> <b>Dr. Ravindra Jha, IIT Guwahati</b>  <b>Title:</b> Current challenges in solid state sensor	<b>Keynote/Invited Talk:</b> <b>Prof. Yatindra Nath Singh, IIT Kanpur</b>  <b>Title:</b> Peer to peer networks	A DEEP REINFORCEMENT LEARNING APPROACH FOR AUTONOMOUS RACING PLATFORM  <b>Authors</b> <b>NIKHITHA.KAKANI, CHANDANA. VEMULAPALLI</b>	<b>Keynote/Invited Talk:</b> <b>Prof. T Srinivas, IISc Bangalore</b>  <b>Title:</b> Quantum computing using Photonics
10:00 AM - 10:15 AM	<b>Keynote/Invited Talk:</b> <b>Prof. Venugopal, Director, CSIR-NPL</b>  <b>Title:</b> Choosing the right materials for metamaterials	Multi-objective Binary Cat Swarm Optimization for Optimal Design of CMOS Ring Oscillator  <b>Authors</b> <b>Rajlakshmi Das,Bishnu Prasad De, Pravin Kumar Samanta, Sandeep Kumar Dash, Wriddhi Bhowmik, Rajib Kar, Durbadal Mandal</b>	TESTING THE ACCURACY OF METHODS IN FORECASTING OF STOCK PRICES USING TIME SERIES ANALYSIS  <b>Authors</b> <b>Hemadivya. Kantamaneni Asi . Vasudeva Reddy</b>	Modelling of CTS/CdS Thin-Film Solar Cell Using SCAPS-1D  <b>Authors</b> <b>Sabina Rahaman, Theertha Y, Balvanth Gowda KV &amp; Yecham Sai Chiru Jaswanth</b>	Human Heart: Terahertz- and Optical-Frequency Channel Characterization for In-Vivo Nano Communications  <b>Authors</b> <b>Manjula R,Jayaswi Prasad Masuna, Sabrish Mettu, Bhargav Ajay Bacchala, Sri Tarun B, George Witfield A and Srikanth Bethala</b>
10: 15 AM - 10:30 AM		Comparison and performance analysis of optically transparent Terahertz Unas  <b>Author</b> <b>MOHAMMAD HAYATH RAJVEE</b>		Low Power & High Speed Proposed Full Adders using GDI and Hybrid Designs  <b>Authors</b> <b>Anubhav Anand, Satyam Singh, Sandeep Dhariwal, Reeba Korah, Gaurav Kumar</b>	Extrapolation of possible foot ulceration based on gait and foot type.  <b>Authors</b> <b>Bhargavi Haripriya Ashok, Sunitha Karnam Anantha, Srinidhi Ganesan</b>

10:30 AM - 10:45 AM	<p>SILAR Synthesized Molarity Dependent Bismuth Oxide Electrodes for Supercapacitive Measurements</p> <p><b>Authors</b>  <b>R.M. Kokane, R.G. Bobade, U.T. Nakate, R.C. Ambare, P.B. Dahivade, B. J. Lokhande</b></p>	<p>A Metasurface based bandwidth enhancement of Miniaturised Dielectric Resonator Antenna Design for Wireless Communications.</p> <p><b>Authors</b>  <b>Ch. Raghavendra, B. Jaya Ram, K. Prathima Sri, B. Anil, P. Poorna Teja</b></p>	<p>Modelling of Cu<sub>2</sub>SnS<sub>3</sub>/ ZnS based thin film Solar Cell using SCAPS simulation tool</p> <p><b>Authors</b>  <b>Sabina Rahaman, Theertha Y, Diptoshi Roy</b></p>	<p>Tracking Various Lower Extremity Parameters of an Athlete during Squats using a Wearable Performance Analysis System</p> <p><b>Authors</b>  <b>Anitha Govindhan, Sourav P R, Jerin Thomas, Harikrishnan C Prakash, Bhargavi Haripriya Ashok</b></p>
10:45 AM - 11:00 AM	<p>Optimization and Efficiency improvement of Lead Free Perovskite (CH<sub>3</sub>NH<sub>3</sub>SnI<sub>3</sub>) solar cells with CuSbS<sub>2</sub> as HTL: Modeling and Numerical study</p> <p><b>Authors</b>  <b>Naga Jyothi Valeti, Krishna Prakash, Monoj Kumar Singha</b></p>	<p>A Novel method for improving Capacity and spectral efficiency in MIMO System</p> <p><b>Authors</b>  <b>M.Kondaiah, M.Padmaja</b></p>		
11:00 AM - 11:15 AM	<p>Investigation of a highly sensitive plasmonic device utilizing antimonene for biosensing applications in the near infrared region</p> <p><b>Authors</b>  <b>R. Shekhar CB, A. Lath, S. Shukla, P. Arora</b></p>	<p>Design and Fabrication of Microstrip Patch Antennas using LTCC Process</p> <p><b>Authors</b>  <b>Maremalla Gokul Sriram Guptha</b></p>		
11:15 AM - 11:30 AM	<p>Efficiency improvement of CuSbS<sub>2</sub> experimental thin film solar cell by numerical modelling</p> <p><b>Authors</b>  <b>Naga Jyothi Valeti, Krishna Prakash, Monoj Kumar Singha</b></p>			
11:30 AM-12:00 AM	<b>COFFEE/TEA BREAK</b>			
<p><b>YOUNG RESEARCHER FORUM TALK</b>  <b>Venue:</b> HALL 6 (Tiered Room)  <b>Session Chair:</b> Dr. Biswabandhu Jana; <b>Co-chair:</b> Dr Arijit Datta  <b>PhD Scholar:</b> Renuka Chowdary Bheemana &amp; M Nagaraju</p>				

10:30 AM-11:00 AM	<p><b>Dr. Atanu Bag, Sungkyunkwan University, Korea</b>  <b>Title:</b> Stretchable Gas Sensors for Body-Attachable Wearable Electronics</p>
11:00 AM-11:30 AM	<p><b>Dr. Debidas Kundu, Carleton University, Canada</b>  <b>Title:</b> Design Techniques and Analysis of Reconfigurable Intelligent Surfaces</p>
11:30 AM-12:00 PM	<p><b>Dr. Subhrajit Mukherjee, Technion - Israel Institute of Technology, Israel</b>  <b>Title:</b> Opto-Electronic Modulation of Ferroelectric-Semiconductor Heterojunctions for Multibit Memory devices</p>
1:00 PM-2:00 PM	<b>LUNCH BREAK</b>
2:00 PM onwards	<b>Half-day Tour</b>
3:30 PM-4:00 PM	<b>COFFEE/TEA BREAK</b>
<p><b>YOUNG RESEARCHER FORUM TALK</b>  <b>Venue:</b> HALL 6 (Tiered Room)  <b>Session Chair:</b> Dr. Biswabandhu Jana; <b>Co-chair:</b> Dr. Arijit Datta  <b>PhD Scholar:</b> M.Chiranjeevi &amp; Pooja A Nair</p>	
3:00 PM-3:30 PM	<p><b>Dr. Mayur Kumar Chhipa, ISBAT University, Kampala, Uganda</b>  <b>Title:</b> Photonic Crystal based Devices for Photonic Integrated Circuits</p>
3:30 PM-4:00 PM	<p><b>Dr. Surajit Bose, Leibniz University Hannover, Germany</b>  <b>Title:</b> Two color pulse compounds in different optical systems</p>
4:00 PM-4:30 PM	<p><b>Dr. Rajat Subhra Karmakar, National Taiwan University, Taiwan</b>  <b>Title:</b> Fully Printed Conductive Ink Based Tactile Sensors on Flexible Substrate for Health Monitoring</p>
<p><b>WOMEN IN DEVICES, CIRCUITS AND SYSTEMS</b>  <b>Venue:</b> Hall 8 (AUDITORIUM)  <b>Session Chair:</b> Prof. Takako Hashimoto; <b>Co-Chair:</b> Dr. K A Sunitha  <b>PhD Scholar:</b> Purna Prasad &amp; Imam Vali</p>	
4:00 PM-4:35 PM	<p><b>Dr. Sujata Pal, IIT Ropar</b>  <b>Title:</b> Quality of Service Aware Multipath Routing for Real-Time Applications in SDN</p>
4:35 PM-5:10 PM	<p><b>Prof. Takako Hashimoto, Chiba University of Commerce, Japan</b>  <b>Title:</b> Structuring Topics on Large-Scale Twitter for Discovering People's Perceptions</p>
5:10 PM-7:00 PM	<p><b>VALEDICTORY PROGRAMME AND GROUP PHOTO</b>  <b>Venue:</b> Hall 8 (AUDITORIUM)  <b>PhD Scholar:</b> Renuka Chowdary Bheemana &amp; Penumalli Koteswararao</p>