SCHEDULE

Electronic Materials, Semiconductor Devices and Emerging Technologies (ICEMSET-2026)

International Conference on

Electronic Materials, Semiconductor Devices and Emerging Technologies (ICEMSET-2026)

16-18 November, 2026

Organized by

Department of Physics, Guru Jambheshwar University of Science & Technology (GJUST), Hisar, Haryana, India, in association with MetaSciTech Society, Haryana, India.

Program Schedule

Day: 1
Date 16/11/2026

Offline & Online mode (Hybrid mode)

Links will be provided tomorrow on the Conference website

Technical Sessions:

- **3 (Evening) Parallel Technical Sessions for Offline Talks: From 02:00 pm to 05:00 pm.**
- **8 (Evening) Parallel Technical Sessions for Online Talks: From 2 pm to 5:00 pm.**

Date	Time (Indian Standard Time)	Event
16.11.2026	09:00 AM to 10:00 AM	Registration (For in-person participants only)
16.11.2026	10:00 AM to 11:00 AM	Inaugural Function **Offline & Online** **Link:** https://meet.google.com/zup-ageh-tqd
16.11.2026	**11:00 AM to 11:30 AM**	**Tea Break for 30 minutes**
16.11.2026	11:30 AM to 12:15 PM	Plenary Talk 1: Prof. Manish Kumar **Link:** https://meet.google.com/zup-ageh-tqd
16.11.2026	12:15 PM to 01:00 PM	Plenary Talk 2: Prof. Anurag Gaur **Link:** https://meet.google.com/zup-ageh-tqd
16.11.2026	**01:00 PM to 02:00 PM**	**Lunch Break for 60 Minutes**
16.11.2026	02:00 PM to 05:00 PM	**Offline Technical Session: Day-1-TS1 [Invited Faculty/ Scientist / Industry Person Speakers]:**
16.11.2026	02:00 PM to 05:00 PM	**Offline Technical Session: Day-1-TS2 [Invited Faculty/ Scientist / Industry Person Speakers]:**
16.11.2026	02:00 PM to 05:00 PM	**Offline Technical Session: Day-1-TS3 [Student Speakers]:**

16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS4 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/zup-ageh-tqd**
16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS5 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/miv-fgbe-rvk**
16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS6 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/ttf-qwtp-ads**
16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS7 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/hxu-oiuo-efb**
16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS8 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/wxq-jwwh-zgc**
16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS9 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/egy-kehn-fya**
16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS10 [Student Speakers]:** **Link: https://meet.google.com/qnx-ujra-szq**
16.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-1-TS11 [Student Speakers]:** **Link: https://meet.google.com/pdf-iwih-xqf**
16.11.2026	**03:30 PM to 04:00 PM**	**Tea Break for 30 minutes**

DAY 1

16/11/2026

Offline Sessions

Offline Technical Session: Day-1-TS1 [Invited Faculty/ Scientist / Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Session Chairperson:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Raj Kumar	G-305	Performance assessment and optimization of gate all around junctionless nanotube MOSFET based biosensor
02:15 pm	Dr. D.K. Dhruv	G-512	Electrical characterization of pulsed laser-deposited n-CdIn2Se4
02:30 pm	Prof. Kamlesh Patel	G-137	Simultaneous Transmit And Receive (STAR) Performance of 4×4 Ring Decoupling Structure-Based Ultra-Wideband MIMO Antennas for Transceiver Applications
02:45 pm	Dr. Koushik Dutta	G-142	An Approach to Upsurge the Memory Storage through Simultaneous Bit-storing Capacity of a Memristor Device
03:00 pm	Dr. Sujata	G-148	Pioneering Future Electronics: Transforming Hardware Design and Autonomous Operations via Generative and Agentic AI
03:15 pm to 03:30 pm	Dr. Shinki	G-492	Thickness-Dependent SERS behavior of Sputtered Au-Ag Alloy Films Before and After Annealing
03:30 pm to 04:00 pm	**Tea Break for 30 minutes**		
04:00 pm	Dr. Sandhya Malikar Patel	G-182	Digital Twin framework for superconducting systems
04:15 pm	Dr. Manjeet Singh, Dr. Anita Sangwan	G-626A	Coherent Brillouin Scattering of Laser Radiation in Transversely Magnetized Diffusive Semiconductors
04:30 pm	Dr. Sushma	G-380	Detection of Hg2+ Ions by 1,2,3-Triazole Based Chemosensor: Computational DFT and Docking Analysis
04:45 pm to 05:00 pm	Dr. Monika	G-361	Metrology and its Significance for Precision Measurement of AC Power & Energy

Offline Technical Session: Day-1-TS2 [Invited Faculty/ Scientist / Industry Person Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials & Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites

Session Chairperson:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. D. Sri Maha Vishnu	G-129	Electrochemical Synthesis of Nanostructured β-SiC: From Nanowire Formation to Lithium-Ion Battery Application and High-Temperature Oxidation Behaviour
02:15 pm	Dr. Amit Kumar	G-214	Toward a Sustainable Future: Eco-Friendly Lead-Free Ferro/Piezoelectric Ceramics
02:30 pm	Dr. K. Kirana	G-221	Synthesis, Structural, Dielectric, Ferroelectric and Magnetoelectric studies of Sodium Potassium Niobate and Cobalt Ferrite Multiferroic Composites
02:45 pm	Prof. Sarode Arvind Vishwanath	G-385	Probing Temperature Dependent Dielectric Properties of Blood Glucose In The High Frequency Region
03:00 pm	Dr. Manisha Kumari	G-488	Structural, Optical, and Dielectric Properties of $CoFe_2O_4$–$BaTiO_3$ Composite Materials
03:15 pm to 03:30 pm	Dr. Ritu Bhaumik Patel	G-536	Glowing Green Bricks: Bio-Integrating Bacterial Pyoverdine with Circular Polymers for Toxic-Free Luminescence
03:30 pm to 04:00 pm	**Tea Break for 30 minutes**		
04:00 pm	Dr. Subhankar Das	G-633	From CFRP Waste to High-Performance Composites: Surface-Modified Recycled Carbon Fibres for Epoxy Reinforcement and GFRP Toughening
04:15 pm	Dr. Rakesh Verma	G-185	Design and Development of Cost-Effective Anode Materials for Future Potassium-Ion Battery Applications
04:30 pm	Prof. Shahid Husain	G-206	Rare Earth–Transition Metal Co-Doping Strategy for High-Performance Co_3O_4 Supercapacitor Electrodes
04:45 pm to 05:00 pm	Dr. Amit Kumar	G-229	Energy Harvesting Characteristics of Lead-Free Piezocomposites Using Electromagnetic Radiation Technique

Offline Technical Session: Day-1-TS3 [Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Session Chairperson:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	**Authors**	**Paper ID**	**Paper Title**
02:00 pm	Ms. Jagruti Rajendra Jangale	G-1287	Synthesis and characterization of (La1-xDyx)2CoFeO6 (x = 0.00, 0.05, 0.10) double perovskite oxides
02:10 pm	Mr. Vaibhav Singh, Dr. Charu Madhu, Dr. Vijay Kumar	G-1330	Machine Learning-Assisted Parameter Optimization Technique for Memory Decoder Circuit in 32 nm CMOS Technology
02:20 pm	Ms. Komal Bhati	G-1059	Theoretical Investigation of Elastic and Ultrasonic Properties of Oxygen-Terminated MXenes within the Van der Waals Three-Body Force Shell Framework
02:30 pm	Mr. Atharv Bansal	G-1262	A review on Single-Layer MXenes: Synthesis Strategies, Delamination Mechanisms, Properties, and Challenges
02:40 pm	Mr. Praveen Kumar Yadav	G-1077	Drift Shifts, Jitter Scatters: Deposition Tolerance in One-Dimensional Photonic Crystals
02:50 pm	Mr. Sudhanshu Singh	G-1166	Investigation on piezoresistive properties of reduced graphene oxide-treated glass textile-based multifunctional sensors
03:00 pm	Ms. D.S.V. Amrutha Vahini	G-1036	Nickel Based Polymer Composites for EMI Shielding in the X- band region
03:10 pm	Mr. Bharat Gehlot	G-1122	Thermal & Microstructural Properties of Organic Sheet Materials Used Commercially in Corrugated Packaging
03:20 pm to 03:30 pm	Mrs. Annu Malik	G-1091	Tuning Carbonization Temperature and Activator Concentration of Paddy-Derived Activated Carbon for Enhanced Supercapacitor Performance
03:30 pm to 04:00 pm	**Tea Break for 30 minutes**		
04:00 pm	Mr. Gunjan Yadav	G-1368	V2C-MoS2 Hybrid for Supercapacitor Applications
04:10 pm	Mr. Jai Kunwar	G-1232	Impact of Reinforcement Material on Wear Behaviour of Aluminium Metal Matrix Composite
04:20 pm	Ms. Aditi Surya Kamal	G-1236	Design and Experimental Evaluation of 3D printed Bio-Inspired Soft Robotic Gripper
04:30 pm	Mr. Prakkshat Khattri and Krish Singh	G-1369	Investigation of Shear Adhesive Strength of Unidirectional UHMWPE Fibre Sheets Using LDPE-Based Interlayers and Nanofillers
04:40 pm			
04:50 pm			
04:50 pm to 05:00 pm			

DAY 1

16/11/2026

Online Sessions

Online Technical Session: Day-1-TS4 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/zup-ageh-tqd

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Prof. Monika Bassi	G-155	Experimental Verification of Half-Wave and Full-Wave Precision Rectifiers Using the LM358P Operational Amplifier over a 25 mV-11 V Input Range
02:15 pm	Dr. Rupsa Roy	G-157	Design and Analysis of Multilayer Reversible Dual 2-Input XOR Gate With Enable (Word Line Controlled) By Quantum-Cellular-Automata Spin Technology
02:30 pm	Dr. Soumik Podder	G-162	Early Detection of β-amyloid (Aβ) by Nano-Field Effect Transistor-Recent Advances and Future Perspectives
02:45 pm	Dr. Karabi Baruah	G-164	From Design to Application: Advances in Tunnel Field-Effect Transistors
03:00 pm	Dr. Farkhanda Ana	G-201	Organic Thin-Film Transistors-The road ahead
03:15 pm	Dr. Payal Bhardwaj	G-249	Graphene-Based Flexible Microstrip Antenna for Wearable Biomedical Sensing at Terahertz Frequencies
03:30 pm	Ms. Varsha Verma	G-262	Spark Plasma Sintered SiC - 10% Al_2O_3 Composites: Microstructure and Mechanical Properties for High Temperature Electronic Device Applications
03:45 pm	Dr. Nita Dnyaneshwar Raskar	G-290	Incorporation of RGO Nanosheets into Ni-doped Co3O4 Nanocomposites for Memristor Applications
04:00 pm	Dr. Ramon González Calvet (Spain)	G-299	Statistical Model of Electron Conduction through Metal and Semiconductor Junctions and in Superconductors
04:15 pm	Dr. D.B. Gadkari	G-336	Meniscus-controlled Dynamic Annular-gap Contactless Entirely Detached Long-length Sb-based Crystals growth in Vertical Directional Solidification (VDS) under 1g
04:30 pm	Mrs. Prerona Dutta (USA)	G-369	From LLMs to Silicon deep-dive: The Role of Advanced Profiling in Optimizing AI Engines
04:45 pm to 05:00 pm	Dr. Avnish Kumar Arora	G-442	Synthesis and Characterization of Cobalt Oxide NPs using SapindusMukorossi (Soapnut) as natural surfactant, Possible Applications in Lithium – Ion Batteries, Supercapacitors, Sensors and in Mico Electronics

Online Technical Session: Day-1-TS5 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/miv-fgbe-rvk

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Ankam Bhaskar	G-451	Magnetic and Optical properties of Zn1-xAlxO ($0 \leq x \leq 0.12$) nanoparticles and their antibacterial activities
02:15 pm	Prof. Suresh C. Sharma	G-459	Plasma-Assisted Semiconducting Carbon Nanostructures for Solar Cell Applications
02:30 pm	Dr. Sagarika Khound	G-478	Engineering Charge Transport in Organic Thin-Film Transistors: From Hybrid Dielectrics to High-Mobility Electronics
02:45 pm	Dr. Sumona Sinha	G-479	Effect of Polymeric Interlayer on Electrical and Structural Characteristics of ZnPc-Based Schottky Diodes
03:00 pm	Dr. Hemant Kumar	G-482	Wide-Bandgap Semiconductor Materials for Next-Generation EV Battery Management Systems: Opportunities and Challenges
03:15 pm	Dr. Mangal Das	G-505	Engineering Oxide Memristors: Defect Control to Neuromorphic Computing
03:30 pm	Dr. Susmita Kundu	G-508	Electrochromic Materials: Advancing the Next Generation of Smart Devices
03:45 pm	Dr. Dibya Jyoti Borah	G-519	Advanced Synthesis of Transition Metal Oxide Quantum Dots: A Novel Approach to Tailoring Their Physical Properties
04:00 pm	Dr. Subhamoy Singha Roy	G-527	Regarding the Fermi-Dirac distribution function's adjustment in degenerate nano-semiconductors
04:15 pm	Dr. Subhash Chandra	G-533	Synthesis and characterization of rGO/NiO nanocomposites
04:30 pm	Dr. Bhaskar Gugulothu	G-559	Signal Integrity Issues in Carbon Nanotube Based High-Speed On-Chip Interconnect Technologies
04:45 pm to 05:00 pm	Prof. P. Koteswara Rao	G-599	III-nitride semiconductors: Emerging Applications and challenges

Online Technical Session: Day-1-TS6 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials

Link: https://meet.google.com/ttf-qwtp-ads

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Priynaka Singh	G-117	Green synthesis and characterization of Mentha arvensis and Piper betel nanoparticle formulations.
02:15 pm	Dr. Vinodha G	G-130	Engineering Graphene Oxide-Mesoporous Magnetite Hybrid Composites for Sustainable Water Remediation
02:30 pm	Dr. M. Amutha	G-135	Waste Glycerol-Derived Reduced Graphene Oxide as a Sustainable Green Nanomaterial for Efficient Dye Degradation and Wastewater Purification
02:45 pm	Dr. Puja Harie Priya M S	G-140	Low-Dimensional Nanomaterials: Bridging Advanced Technology and Dentistry
03:00 pm	Dr. Subia Ambreen	G-146	Functionalization of Transition Metal Dichalcogenides (TMDs) for Next Generation Electronics and Energy Devices
03:15 pm	Dr. Seyfeddine Rahali (Saudi Arabia)	G-273	DFT-Guided Design of Functional Nanomaterials and Quantum Dots for Efficient Hydrogen Storage
03:30 pm	Prof. Anita Warrier	G-175	Metal Chalcogenide -Plasmonic Nanoparticles Embedded in Stable Polymer Matrix for Ballast Water Treatment
03:45 pm	Dr. Monica Dinodia	G-187	Nanomaterials in Antibacterial Applications
04:00 pm	Dr. Kesur Rajade Ram	G-193	Meglumine-immobilized CuI NPs Promoted Synthesis of Therapeutically Important Spiro[indoline-pyrazolo[5,1-b]quinazoline] tethered 1,2,3-Triazoles
04:15 pm	Dr. Shashikant Gupta	G-230	Rydberg-Atom Quantum Antennas: Principles, Characteristics, Applications, and Challenges
04:30 pm	Dr. Jaswinder Singh Mehta	G-233	Numerical Investigation of Thermomagnetic Convection in Ferrofluid Based Cooling System
04:45 pm to 05:00 pm	Dr. Rajeev Kumar Dang	G-160	Nanoparticles Based Lubricants: The Future of Lubrication Technology for Journal Bearings

Online Technical Session: Day-1-TS7 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites

Link: https://meet.google.com/hxu-oiuo-efb

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Prasanta Kumar Rout	G-359	Thermal durability study of geopolymer prepared from industrial waste
02:15 pm	Mr. Sunil R Meena	G-375	Waste-to-Resource Composite Materials for Fluoride Groundwater Remediation: A Review of Regeneration, Circularity and Life-Cycle Assessment
02:30 pm	Dr. Anuj Kumar Purwar	G-424	Intelligent, Circular Concrete Systems for Decarbonising Construction
02:45 pm	Dr. M.S. Swapna	G-510	Sustainable Water Hyacinth–PVA/Nanographene Biopolymer for Flexible Electronic Sensing Applications
03:00 pm	Dr. Sandhyarani B.	G-541	Torsional Wave Propagation in Initially Stressed Transversely Isotropic Composite Poroelastic Cylinders
03:15 pm	Dr. Rabindra Dey	G-558	Sustainable Polymers: The Roles of Bio-polymers
03:30 pm	Dr. Archana Dagar	G-588	From Industrial Waste to Circular Innovation: Fly Ash Cenospheres-Reinforced Sustainable Polymer Composites
03:45 pm	Dr. Sukhila Krishnan	G-591	Development of environment friendly blends of Polylactic Acid
04:00 pm	Dr. Himani	G-600	Catalyzing the Circular Economy: From Molecular Design to Functional Sustainable Materials
04:15 pm	Dr. Prathibha C.	G-605	Polyacrylonitrile–Hydrogen Titanate Nanotube Nanocomposite Beads: Material Engineering, Characterisation and Application in Water Purification
04:30 pm	Dr. Saju Daniel	G-607	Polymer Nanocomposites at the Interface of Sustainability, Innovation and Advanced Engineering
04:45 pm to 05:00 pm	Dr. Dibyajyoti Diptimayee Pradhan	G-615	Experimental investigation of the effects of fibre orientation, stacking sequence and nanofiller incorporation on the thermo-mechanical properties of FRP composite

Online Technical Session: Day-1-TS8 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science

Link: https://meet.google.com/wxq-jwwh-zgc

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Ankit Saxena	G-366	Influences Of Contact Parameters On The Wear-Protective Tribofilm Formation For Surface Protection and Reliability of Rolling-Sliding Contacts
02:15 pm	Dr. Suresh Kumar	G-382	Synthesis and Corrosion inhibition of Metal Complexes Based on New N'-(4-methoxybenzylidene)-2-phenoxyacetohydrazide Schiff Base
02:30 pm	Dr. Sourabh Shukla	G-470	Grain boundary and substructure engineering for superior electrochemical corrosion resistance in ultra-low-Ni stainless steel
02:45 pm	Dr. Hema Kundra	G-589	Fly Ash-Based Zeolites: Synthesis, Reliability and Applications in Wastewater Treatment
03:00 pm	Dr. Richa Saini	G-594	Ancient Indian Metallurgical Knowledge and Its Relevance to Modern Materials Science
03:15 pm	Dr. Manpreet Kaur Bagga	G-595	Ficus racemosa as green inhibitor of mild steel corrosion in sulphuric acid medium
03:30 pm	Dr. C.M. Joseph	G-178	Organic materials for use as photosensitizers in therapeutics
03:45 pm	Dr. Pramod Kumar	G-247	Growth and Characterization of LaAlO3/SrTiO3 and LaTiO3/SrTiO3 oxide hetero-structure using PLD
04:00 pm	Dr. Srivathsava Surabhi (Chile)	G-398	Unveiling Thickness-Dependent Volumetric Optothermal Energy-Conversion (Self-Heating) Ability of Room Temperature Grown GaN Thin Films on Direct Amorphous Glass Substrate
04:15 pm	Prof. Sarathi Kundu	G-433	Free-standing films of poly(vinyl alcohol) composites: structural, mechanical, and dielectric properties
04:30 pm	Dr. Neha Z Makwana	G-485	Atomic Force Microscopy Analysis of Chitosan in Homoeopathic High-Dilution Cadmium Sulphuratum 1M: A Surface Topography Study AFM
04:45 pm to 05:00 pm	Dr. Preeti Gulia	G-176	Development and Numerical Investigation of an Acoustic Levitation System

Online Technical Session: Day-1-TS9 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence

Link: https://meet.google.com/egy-kehn-fya

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Dinah Punnoose (USA)	G-341	Machine Learning Prediction of Nickel Sulfide-Based Dye-Sensitized Solar Cell and Supercapacitor Performance Using Synthetic Data Augmentation and SHAP Analysis
02:15 pm	Dr. Minakshi Chakraborty (Sen)	G-408	Quantum entanglement linking Earth's magnetic field with bird migration processes
02:30 pm	Mr. Manish Kumar (USA)	G-432	SAFER-Agent: A Safety-Aware Agentic AI Framework for Autonomous Satellite Anomaly Diagnosis and Recovery
02:45 pm	Dr. Deepa Thomas (Australia)	G-586	Managing AI Adoption in Advanced Materials Manufacturing: Organisational Readiness, Implementation Challenges, and Strategic Opportunities
03:00 pm	Mr. Guru Sharan B S (USA)	G-441	Scaling Distributed Corporate Infrastructures via AI-Native Architectures: An Empirical Framework for Adaptive Resource Allocation and Deterministic Compliance
03:15 pm	Dr. Nirupmapathak	G-447	Advanced research methodology:AI tools
03:30 pm	Dr. Sudhakar Matle	G-463	Non-linear response of elastic wave propagation in poly crystalline copper using FEM
03:45 pm	Dr. Anirban Das	G-472	A Mutiscale heat transfer study of Mxene nanofluids
04:00 pm	Dr. Ezhilarasi S	G-503	Accelerating Materials Discovery through Machine Learning and AI-based Data-Driven Modelling in Materials Science
04:15 pm	Dr. G. Shwetha	G-507	Pressure-Induced Structural Phase Transitions in Scandium-Based Ternary Borides: A First-Principles Study
04:30 pm	Prof. Ridip Sarma	G-520	Trustworthy Images, Trustworthy Science: AI-Assisted Forensics for Manipulated Micrographs and Spectra
04:45 pm to 05:00 pm	Mr. Sanjib Halder	G-440	Decision-Time Digital Twin Reasoning for Perishable Inventory Control: Evaluating Rollout Planning and Reinforcement Learning

Online Technical Session: Day-1-TS10 [Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/qnx-ujra-szq

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Ms. V.S. Sreelakshmi	G-1020	Thermal Diffusivity Tuning in ZnO Nanoparticles through Indium Oxide Incorporation: A Photoacoustic Spectroscopy Approach
02:10 pm	Ms. Sreedhar Gari Saikrupa	G-1022	Structural, Electrical and Current Conduction Mechanism of Au/Cr2O3/undoped-InP MIS-type Schottky Diode
02:20 pm	Mr. Nipanka Bora	G-1037	Electrical Characterization of a Parallel Multi-Gate Junctionless FET with HfO_2 Gate Dielectric: A TCAD Simulation Study
02:30 pm	Mr. Nipanka Bora	G-1038	Influence of Source/Drain Extension Doping on 20 nm Double-Gate Junctionless MOSFETs: A 2D TCAD Study
02:40 pm	Mr. Ayusha Kumar Tripathi	G-1044	Improvement of Responsivity of a Photodetector through Micro-Engineering of the Electrode Geometry
02:50 pm	Ms. Urvashi	G-1095	Investigation of Printability and Functional Performance of Flexible Polymer Substrates for Printed Electronics
03:00 pm	Ms. Sujata Borade	G-1111	Structural Evolution and Lattice Strain in Gd- and Tb-Doped ZnO Nanoparticles: Insights into Rare-Earth-Induced Modifications
03:10 pm	Ms. Amina Thabassum A.	G-1135	Performance Enhancement of a Strain-Engineered GaAsSb/InGaAs TFET-Based 7T SRAM for Ultra-Low-Voltage Operation
03:20 pm	Mr. Nitin Sharma	G-1136	A Materials-to-Device Framework for Comparative Evaluation of Wide-Bandgap Semiconductor Technologies
03:30 pm	Mrs. Priyanka Vashist	G-1162	Glass transition temperature dependence on coordination number for Se-Te-Ge-Bi chalcogenide alloys
03:40 pm	Ms. Saynora U.S.	G-1170	Eco-Friendly Synthesis of Nickel Oxide Nanoparticles for Efficient Photocatalytic Degradation of Methylene Blue
03:50 pm	Mr. Vijay Kumar	G-1182	A Proposed Technique for Making Frequency Modulation Circuit Which is Actually a Colpitts Oscillator and Making Both Tx And Rx Using Hartley Oscillator
04:00 pm	Ms. Angitha S.	G-1193	Effect of Ba Doping on Photocatalytic and Supercapacitor Performance of NiO Nanoparticles
04:10 pm	Ms. Vanshika	G-1205	Naphthalene Diimide-Based Organic Semiconductors as Interfacial Materials in Perovskite Solar Cells
04:20 pm	Mr. Neeraj Kumar Singh	G-1301	Higher Order Elastic Constants and Ultrasonic Attenuation of platinum group metal nitrides
04:30 pm	Mrs. Neha Rathi	G-1302	AI-Based Quality Disturbance Detection and Classification Using IoT, MQTT and Cloud Analytics
04:40 pm	Ms. Nenee Yadav	G-1005	An Explainable AI Based Machine Learning Framework for Clinical Risk Prediction and Adaptive Disease Dependency Graph Modeling Using Laboratory Reports
04:50 pm to 05:00 pm	Mr. Anuj	G-1008	Environment toxicant and cancer development

Online Technical Session: Day-1-TS11 [Student Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials

Link: https://meet.google.com/pdf-iwih-xqf

Session Chairs:_____

Date: 16.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Mrs. Riya Koyas	G-1030	Green synthesis of MoS2 nanoflowers using leaf extract of Psidium guajava and Carica papaya for biomedical applications
02:10 pm	Ms. Debjani Sahoo	G-1043	Copper Nanoparticle-Based Nanozymes: An Emerging Biomedical Frontier In Neurodegenerative Disease Therapy
02:20 pm	Ms. Bhawana Nigam	G-1048	Performance of Okra Seed Extract as a Natural Bio-Coagulant for the Remediation of Physico-Chemical Parameters of Wastewater
02:30 pm	Mr. Vivek	G-1050	Ultrasound –Assisted Synthesizing Sulfhydryl-Functionalized Sugarcane Bagasse Ash for Efficient Adsorption of Heavy Metals from Wastewater
02:40 pm	Mr. Raagmanas Madhukar, Siddharth Gaur	G-1060	From Materials to Quantum Processors: A Review of Fabrication, Decoherence and Scalability in Superconducting Qubits
02:50 pm	Mrs. U. Swathi	G-1078	Optimization of Hydrothermal Temperature for the Synthesis of Crystalline Anatase TiO_2 Nanoparticles with Enhanced Photocatalytic Activity
03:00 pm	Dr. Nilakantha Tripathy	G-1081	Ferroelectric Control of Spin Splitting and Spin Hall Conductivity in Two-Dimensional van der Waals Materials
03:10 pm	Ms. Ashina Nazar N.	G-1087	Investigation of Ferrite–Bioactive Glass Nanomaterials for Magnetic Hyperthermia Applications
03:20 pm	Mrs. Keerthi Sasidharan S.	G-1088	Exploring the Optical and Colloidal Properties of Soot-Derived Carbon Dots for Bioimaging
03:30 pm	Ms. Ayusie Goyal	G-1099	Ni3+ or Ni4+? Identifying the active sites for anodic oxidation reactions
03:40 pm	Ms. Vaishnavi Varshney	G-1100	Bioinspired Proton Shuttle Strategy for Benzyl Alcohol Oxidation in Alkaline Seawater Anion Exchange Membrane Electrolyzer
03:50 pm	Mr. Sumit Kumar	G-1112	Anisotropic Magnetic Behavior of the Chiral Helimagnet Cr1/3NbS2
04:00 pm	Mr. Shankar Prasad Mitra	G-1209	Can Doping of Alkali Metals Tune Thermoelectric Transport properties of 2D nanosheet: g-C_4N_3 & g-Si_4N_3 ?
04:10 pm	Mr. Kapil Kumar Tripathi	G-1276	Biogenesis of Titania Nanomaterial for Wastewater Treatment
04:20 pm	Mrs. Manorma Chahan	G-1295	Synthesis, Characterization, and Ammonia-Sensing Performance of Cr-Doped CuO/SnO_2/WO_3 Metal Oxide Nanostructures
04:30 pm	Dr. Kanchan Bala	G-1015	Structural and Magnetic Properties of Altermagnetic CrSb Single Crystal
04:40 pm	Mr. JIthin P.V.	G-1141	Effect of Al2O3 phase on magnetic and magnetotransport properties of La0.7Ca0.3MnO3:Al2O3 nanocomposites
04:50 pm to 05:00 pm	Ms. Bhoomika	G-1192	Structural, Dielectric and Impedance Studies of Magnetised Acacia Gum–CuO–Graphene Oxide Nanocomposite for Energy-Storage Applications

ICEMSET-2026

DAY 2

17/11/2026

International Conference on

Electronic Materials, Semiconductor Devices and Emerging Technologies (ICEMSET-2026)

16-18 November, 2026

Organized by

Department of Physics, Guru Jambheshwar University of Science & Technology (GJUST), Hisar, Haryana, India, in association with MetaSciTech Society, Haryana, India.

Program Schedule

Day: 2
Date 17/11/2026

Offline & Online mode (Hybrid mode)

Links will be provided tomorrow on the Conference website

Technical Sessions:

- **2 (Morning) Parallel Technical Sessions for Offline Talks: From 10:00 am to 01:00 pm.**
- **1 (Evening) Technical Session for Offline Talks: From 02:00 pm to 05:00 pm.**
- **10 (Morning) Parallel Technical Sessions for Online Talks: From 10:00 am to 01:00 pm.**
- **10 (Evening) Parallel Technical Sessions for Online Talks: From 02:00 pm to 05:00 pm.**

Date	Time (Indian Standard Time)	Event
17.11.2026	10:00 AM to 01:00 PM	**Offline Technical Session: Day-2-TS12 [Invited Faculty/ Scientist / Industry Person Speakers]:**
17.11.2026	10:00 AM to 01:00 PM	**Offline Technical Session: Day-2-TS13 [Invited Faculty/ Scientist / Industry Person Speakers]:**
17.11.2026	02:00 PM to 05:00 PM	**Offline Technical Session: Day-2-TS14 (Poster Session): [Invited Faculty/ Scientist / Industry Person Speakers / Student Speakers]:**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS15 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/zup-ageh-tqd**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS16 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/miv-fgbe-rvk**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS17 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/ttf-qwtp-ads**

17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS18 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/hxu-oiuo-efb**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS19 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/wxq-jwwh-zgc**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS20 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/egy-kehn-fya**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS21 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/qnx-ujra-szq**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS22 [Student Speakers]:** **Link: https://meet.google.com/pdf-iwih-xqf**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS23 [Student Speakers]:** **Link: https://meet.google.com/ayy-jrsu-hkx**
17.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-2-TS24 [Student Speakers]:** **Link: https://meet.google.com/rbz-rffv-pds**
17.11.2026	**11:00 AM to 11:30 AM & 03:30 PM to 04:00 PM**	**Tea Break for 30 minutes**
17.11.2026	**01:00 PM to 02:00 PM**	**Lunch Break for 60 Minutes**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS25 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/zup-ageh-tqd**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS26 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/miv-fgbe-rvk**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS27 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/ttf-qwtp-ads**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS28 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/hxu-oiuo-efb**

17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS29 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/wxq-jwwh-zgc**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS30 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/egy-kehn-fya**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS31 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/qnx-ujra-szq**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS32 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/pdf-iwih-xqf**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS33 [Student Speakers]:** **Link: https://meet.google.com/ayy-jrsu-hkx**
17.11.2026	02:00 PM to 05:00 PM	**Online Technical Session: Day-2-TS34 [Student Speakers]:** **Link: https://meet.google.com/rbz-rffv-pds**

DAY 2

17/11/2026

Offline Sessions

Offline Technical Session: Day-2-TS12 [Invited Faculty/ Scientist / Industry Person Speakers]:

Session Theme: Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Session Chairperson:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Ramesh Kumar	G-284	Structural, Electronic and Thermoelectric Properties of CrSSe and CrSeTe Janus Monolayers
10:15 am	Prof. Dinesh Pratap Singh	G-339	Ecofriendly stratagies for the synthesis of graphene based composites for high performance supercapacitor devices
10:30 am			
10:45 am	Dr. Sunena	G-609	Artificial Intelligence and Computational Technologies in Industrial Pharmaceutics
11:00 am to 11:30 am	**Tea Break for 30 Minutes**		
11:30 am	Mr. Anish Singh	G-388	Deciphering the Molecular Mechanisms of Arbutin in Neurodegenerative Diseases Through Network Pharmacology, Molecular Docking, and DFT Analysis
11:45 am	Prof. Anant Pandey	G-419	Monte Carlo Simulation-Based Improvement of Thermoluminescence Dosimetry Accuracy of CaF2:Dy for Therapeutic Proton Beam
12:00 noon	Dr. G.S. Uthayakumar	G-455	AI Driven ciruit for EEG signal detection for brain tremours
12:15 pm	Prof. Ayan Kumar Barui	G-619	Primary Cilia as a Next-Generation Biologically Aligned Platform for Targeted Drug Delivery in Cancer Therapy
12:30 pm	Dr. Sandeep Bhardwaj	G-358	Smart Agriculture and Regenerative Agriculture in Haryana: Integrating Digital Technologies, Resource Conservation and Climate-Resilient Farming Systems
12:45 pm to 01:00 pm	Dr. K.K. Bhardwaj	G-445	Herbicide-driven shifts in soil microbial dynamics under organic amendment management in pearl millet–wheat cropping system
01:00 pm to 02:00 pm	**Lunch Break for 60 Minutes**		

Offline Technical Session: Day-2-TS13 [Invited Faculty/ Scientist / Industry Person Speakers]:

Session Theme: Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Session Chairperson:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Anurag	G-449	Need of Farmer-Friendly Smart Spectral Sensors for Real-Time Crop Health Monitoring and Precision Agriculture
10:15 am	Dr. Usha Kumari	G-464	Dynamics of soil aggregate-associated Total organic carbon under the influence of varying nitrogen levels
10:30 am	Dr. Vijaya	G-550	Seasonal incidence of Tetranychus spp. on vegetable crops in relation to weather factors
10:45 am	Dr. Vijay Kumar Dalal	G-560	Comparative Growth and Physiological Parameters of Tomatoes under pilot scale Hydroponics and Soil Cultivation set-up inside a Polyhouse
11:00 am to 11:30 am			
11:30 am	Dr. Ankit Kumar	G-577	Smart and Integrated approaches for the management of Bactrocera species in guava
11:45 am	Dr. Annu	G-124	A Sustainable Hybrid Composite Electrolyte Strategy for Advanced Lithium-Metal Batteries
12:00 noon			
12:15 pm			
12:30 pm			
12:45 pm to 01:00 pm			
01:00 pm to 02:00 pm	**Lunch Break for 60 Minutes**		

Offline Technical Session: Day-2-TS14 (Poster Session): [Invited Faculty/ Scientist / Industry Person Speakers / Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Session Chairperson:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm to 04:00 pm	Dr. Manish Kapoor	G-136	Temperature Dependence and Performance Evaluation of Materials for Solar-Pumped and High-Power Fiber Lasers
	Dr. Sushil Kumar Singh	G-360	Optimization of drip irrigation scheduling based on ETc using FAO CROPWAT 8.0 for higher onion yield and water productivity
	Dr. Babita Rani	G-381	Chitosan-Based Edible Coating: A Smart and Sustainable Approach for Post-Harvest Management of Ber
	Dr. Muli Devi Parihar	G-384	Sensor-based smart irrigation scheduling for improving wheat productivity in North-West Haryana
	Dr. Rohtas Kumar	G-444	Spatial Distribution and Status of Soil Micro and Secondary Nutrients
	Ms. Nishu	G-1003	First-principles investigation of structural stability, electronic, magnetic, and optical properties of 3d-transition metal substituted Cs2AgXCl6 (X: TM) double halide perovskites
	Mrs. Pratibha	G-1283	Structural and Spectroscopic investigations of Co-Substituted Sodium Niobate Antiferroelectric Ceramics
	Mr. Jai Prakash	G-1322	Numerical Modeling of a DPP-R16-Based p-Channel OTFT: Effect of Channel Length and Tail-like Density of States
	Ms. Raja Sree	G-1150	2D materials based memristor for neuromorphic computing applications
	Ms. Prerana Vashistha	G-1071	Structural and Optical Properties of YAG:Ce^{3+} Phosphor-in-Glass Composites Based on Eu^{3+}-Doped Lithium Bismuth Borate for White LEDs
	Ms. Deepti Kundu	G-1053	Simulating Non-Newtonian Viscosity Effects in MEMS-Scale Microchannel Flows
	Ms. Monika	G-1017	Performance Optimization of an Asymmetric Quantum Otto Cycle Using Omega Criterion and Reservoir Squeezing

DAY 2

17/11/2026

Morning Online Sessions

Online Technical Session: Day-2-TS15 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/zup-ageh-tqd

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. P.H. Thyagaraju	G-612	Semiconductor Industry in India: Techno-economic imperatives, strengths and challenges
10:15 am	Dr. Anjani Kumar	G-107	Satya-Check: A Dual-Architecture Multilingual Fake News Detection System for the Indian WhatsApp Ecosystem
10:30 am	Prof. Prabir Banerjee	G-118	Human-Centric Safety-Aware Wearable Antenna Engineering (H-SAWE)
10:45 am	Mr. Debajit Sensarma	G-119	Graph-Theoretic Approaches to Security Analysis in the Post-Quantum Era
11:00 am	Dr. Sandhya Pattanayak	G-144	AI-Enabled Spectrum Sensing for Next-Generation Wireless Communication
11:15 am	Dr. Zahnupriya Kalita	G-151	Development of an Index Finger Exoskeleton for Rehabilitation
11:30 am	Dr. Rajinder Singh	G-152	Next-Generation Public Key Infrastructure: An Integrated Multi-Layer Trust Framework for Heterogeneous Electronic, Edge and Cloud Devices
11:45 am	Dr. Arindam Banerjee (Australia)	G-158	Reactionless engines for outer space travel from inertia violation with a new design electromagnetic railgun
12:00 noon	Dr. G. Sudheer Kumar	G-167	Tailoring Electrical Percolation and Emergent Inductance in PVdF/CNT Nanocomposites for Multifunctional Technologies
12:15 pm	Dr. Varsha Shukla	G-171	Smart and Intelligent Technologies in Residential Buildings ,Case of NCR, India : A Framework for Sustainable, Adaptive, and people-Centric healthy Living
12:30 pm	Dr. K.A. Saraswathi	G-199	Non-Invasive Non-Enzymatic Electrochemical Biosensors based on MXene/Polymer based Nanocomposites
12:45 pm to 01:00 pm	Dr. Madhvi Saxena	G-200	AI-Driven Intelligent Transaction Optimization for Industry 5.0 Digital Financial Infrastructure
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS16 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/miv-fgbe-rvk

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Sandip Bordoloi	G-209	Comparative Time- and Frequency-Domain Analysis of Electric and Diesel Bus Acoustic Signals Using Digital Signal Processing Techniques
10:15 am	Mrs. Namrata Chadha	G-224	From Smart Homes to Smart Interiors: The Role of Emerging Technologies and Future Electronics in Spatial Design
10:30 am	Mrs. Varsha Bhatnagar	G-227	Emerging Technologies and Future Electronics in Interior Design: Towards Intelligent, Responsive and Human-Centred Spaces
10:45 am	Mrs. Rupam Ahuja	G-234	The Technology in Smart homes for everyday lifestyle
11:00 am	Dr. Radhashyam Patra	G-235	Reconfigurable Intelligent Surface-assisted Wireless Communication for 6G and Beyond
11:15 am	Dr. Shreyasi Pal	G-264	Two-Dimensional Layered Nanomaterials: Emerging Materials for Next-Generation Energy Storage and Efficient Photocatalysis
11:30 am	Dr. J.B. Jeeva	G-274	Non-Invasive Photoplethysmographic Estimation of Heart Rate, HRV, and Hemoglobin Concentration
11:45 am	Dr. Reetoja Nag (USA)	G-281	Emerging AI Technologies in Digital Pathology: Interpretable Computational Imaging for Cancer Biomarker Discovery
12:00 noon	Dr. Krishna Kumar G	G-285	Robotic Surgery in Children : Precision in Action
12:15 pm	Dr. P. Jeyanthi	G-289	The Power of BigData Analytics
12:30 pm	Dr. Mohinder SIngh	G-293	AI Models, Data Centres and Water Resources: Balancing Innovation with Environmental Responsibility
12:45 pm to 01:00 pm	Dr. G.Thamarai Selvi	G-296	An Automated Deep Learning Framework for Renal Tumor Detection and Analysis Using CT Images
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS17 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/ttf-qwtp-ads

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Mr. Tarun Jain	G-323	Cooperative Physical Layer Security for Next Generation Networks
10:15 am	Mr. Alok Mishra	G-330	AI-Driven Emerging Technologies and the Future of Intelligent Electronics
10:30 am	Dr. Naveen S M	G-458	Monopole antennas for wireless communication applications
10:45 am	Dr. Swati Vaid	G-471	Design of Graphene based Patch Antenna for THz Applications
11:00 am	Dr. Sonu Verma	G-473	Role of Critical Nanomaterials in Technology Innovations for Viksit Bharat 2047
11:15 am	Dr. Pallavi Ammu Thomas	G-480	Digital interventions in Tobacco Cessation
11:30 am	Dr. Viveksheel Rajput	G-487	Improving Glass Micro-Hole Drilling Performance with Emerging Hybridized Laser and Ultrasonic Assisted ECDM (L&UAECDM)
11:45 am	Dr. Deepti Verma	G-524	Cost-Effective Smart Microfluidic Device with Immobilized Silver Nanoparticles and Embedded UV-Light Sources for Synergistic Water Disinfection
12:00 noon	Dr. P. Aruna Kumari	G-576	Emergency Data Exchange System in Network Blackouts and Disaster Zones
12:15 pm	Prof. Dr. Er. Karkera Narayana Bengre	G-580	For Powering Future Electonics in Megascale, an Emerging Technology of Locally Generating Hydroelectricity Using Recycling Brackish Water Without External Energy
12:30 pm	Mr. Sudipta Mukherjee	G-610	Artificial Intelligence assisted Behavioural Modeling for Wide Bandgap Device to System interfacing
12:45 pm to 01:00 pm	Mr. Amit Talukdar	G-625	A Review of the Performance of Advanced Fibre-Reinforced Materials for 3D Concrete Printing (3DCP)
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS18 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials

Link: https://meet.google.com/hxu-oiuo-efb

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Shalini Prasad	G-236	Polymeric Materials Constitute
10:15 am	Dr. Raminder Gill	G-246	Coexistence of Magnetism and Superconductivity in Iron-Based Superconductors: Theoretical Perspectives and Emerging Materials
10:30 am	Dr. S. Rupachandra	G-255	Fabrication and characterization of polymeric hydrogel with cyclic peptides as efficient drug conjugates for wound healing applications
10:45 am	Dr. Sujata Deb	G-265	Charge Transport and Photoresponse in Semiconductor Junctions: Understanding the Role of Interfaces in Optoelectronic Devices
11:00 am	Dr. Vinamrita Singh	G-150	Recent Progress in MOF Engineering for Photocatalysis and Energy Storage Applications
11:15 am	Prof. Mamta Sharma	G-276	Green Functional Materials for Heavy-Metal Remediation: From Polymer Complexation to Sustainable Water Technologies
11:30 am	Dr. Anju Nigam	G-286	Investigation of structural properties and anti-bacterial activity of bio-synthesized Fe:Ag nanocomposites
11:45 am	Dr. Farhat Afrin	G-288	Next-generation nanomedicines for visceral leishmaniasis: Artemisinin-based nanocarriers and gold nanoparticles for enhanced parasite clearance and host immunity
12:00 noon	Dr. Rajeswari Saripilli	G-322	A REVIEW ON NANOSTRUCTURE MATERIAL FABRICATION AND APPLICATION IN DRUG DELIVERY
12:15 pm	Dr. Milind Abhimanyu Nisargandha	G-334	Cardioprotective Effects of Artemisia nilagirica via Modulation of Insulin Signaling Pathways in Type 2 Diabetic Rats
12:30 pm	Dr. Baghendra Singh	G-335	Prussian Blue Analogues As Functional Nanomaterials for Sustainable Anodic Electrocatalysis
12:45 pm to 01:00 pm	Dr. Sujit Kumar Bandyopadhyay	G-340	Multifunctional Nanostructured Materilals; A new dimension in Energy storage materials
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS19 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites

Link: https://meet.google.com/wxq-jwwh-zgc

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Arunasish Layek	G-111	Inorganic-Organic Nanohybrids for Solid State White Light Emitting Diodes
10:15 am	Dr. Pinki	G-154	A Review of Plant Organs as Biomass Precursors for Supercapacitor Electrode Material
10:30 am	Dr. Pravin Sankhwar (USA)	G-169	Interfacial Band-Engineering in Polymer-Ceramic Nanocomposites for High-Efficiency Electrostatic Energy Storage
10:45 am	Dr. Biny R. Wiston	G-188	Interface-Driven Charge Storage Enhancement in Cerium Oxide/Hydroxide–Nickel Hydroxide Composites
11:00 am	Dr. Shubhra Kala	G-191	Electrochemical Performance of Phytosynthesized Copper Sulfide Nanoparticles
11:15 am	Dr. Sadhana Katlakunta	G-192	Microwave-Hydrothermal Synthesis and Properties of Co3O4 nanoparticles
11:30 am	Dr. Manoj Tripathi	G-197	RSM Optimization of Microwave Pyrolysis Conditions to Develop a Highly Porous Orange Peel derived char for Energy Storage Applications
11:45 am	Dr. Prasant Kumar Nayak	G-220	Enhanced cycling performance and thermal stability of core-shell structured cathode materials for Li-ion batteries
12:00 noon	Dr. Rashmi Soni	G-222	Biochar as a Pathway to Carbon Sequestration: Production, Properties, Climate-Mitigation Applications, Challenges, and Future Perspectives
12:15 pm	Dr. D. Vasanth Raj	G-231	Tailoring Morphologies of ZnFe2O4 Nanomaterials for High Performance Supercapacitors
12:30 pm	Dr. Prosenjit Bhattacharya	G-253	Single-Step Solvothermal Synthesis of $MnFe_2O_4$/Reduced Graphene Oxide (rGO) Nanocomposites with Enhanced Electrochemical Performance for Advanced Supercapacitor Electrodes
12:45 pm to 01:00 pm	Mrs. Priyanka Meena	G-257	Advances in Supercapacitor Technology: Materials, Mechanisms and Strategies for Enhanced Energy Storage
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS20 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence

Link: https://meet.google.com/egy-kehn-fya

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Prof. Nitin Padhiyar	G-552	Multi-objective optimization framework for hydrogen production with low carbon emission: Computational design of advanced reactor systems
10:15 am	Dr. Amiya Kumar Tripathy	G-563	Agentic AI and Edge Intelligence for Next-Generation Semiconductor-Enabled Smart Sensing Systems
10:30 am	Dr. Dhaval J. Kamothi	G-573	Exploring the Molecular Basis of Diacerein Repurposing for Diabetes Mellitus Using Network Pharmacology and Molecular Docking
10:45 am	Dr. Dhaval J. Kamothi	G-574	Mapping the Molecular Landscape of 77PD-Quinone-Associated Endothelial-to-Mesenchymal Transition and Blood–Brain Barrier Dysfunction through Network Toxicology and Molecular Docking
11:00 am	Dr. Tushar Chourushi	G-584	Numerical Analysis of Type-VI Shock-Shock Interactions for Different Gas Types Using OpenFOAM
11:15 am	Dr. T. Gladima Nisia	G-414	From Pixels to Intelligence: Deep Learning for Remote Sensing Image Processing
11:30 am	Dr. Awadhesh Kumar Verma	G-616	Next-Generation Aptamer-Based Nanomedicine: Computational Frontiers and Precision Therapeutic Strategies
11:45 am	Dr. Neeraj Kumari	G-101	Synthesis, Characterization, and Enhanced Photocatalytic Performance of Y-Doped CuO Nanoparticles
12:00 noon	Dr. Bhupesh S. Bhatt	G-153	Hybrid Bioactive Scaffolds Based on Quinoxaline-β-Lactam Spiranes: Synthesis, Fluorescence-Assisted Binding Assays, and Computational Elucidation of Topoisomerase Interactions
12:15 pm	Dr. Sonika Thakur	G-163	Radiation-Matter Interactions in Bismuth-based Glasses and Polymers: A Multi-Parameter Computational Approach
12:30 pm	Mr. N. Radhakrishnan	G-186	Advanced Materials Characterization and Performance Evaluation of Sustainable Bio-Fiber Reinforced Cementitious Composites
12:45 pm to 01:00 pm	Dr. Gagandeep	G-205	Designing, synthesis and characterization of novel monocarbonyl curcuminoids as antibacterial and antituberculosis agents
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS21 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Link: Link: https://meet.google.com/qnx-ujra-szq

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Prof. Narasimha Golla	G-348	Biosynthesis of Metallic Nanoparticles (MNs) and Their Applications as Antimicrobial and Biocatalytic Agents in Medical, Agricultural, and Environmental Sectors
10:15 am	Dr. Ravi Kumar	G-352	Staphylococcus aureus FAD Synthetase as a Potential Target for Novel Antimicrobials
10:30 am	Dr. Bidyanand Mahto	G-394	Polylactic Acid (Pla) Based Composites: Emerging Alternatives to Traditional Construction Materials
10:45 am	Dr. Roopa Reddy	G-396	Orchestrating Next-Generation 3D Tumor Models through a versatile Biopolymer-Based Platform
11:00 am	Dr. Pugalanthipandian Sankaralingam	G-469	Novel Composite as Synthetic Bone Graft for Faster Bone Formation and Early Weight Bearing
11:15 am	Dr. Drishti Panjwani	G-489	Bio-Integrated Protein Nanomaterials for Targeted Cancer Therapy: From Biological Function to Engineered Nanomedicine
11:30 am	Dr. N. Chandra Shakar Reddy	G-496	Green synthesis of gold nanoparticles using Caesalpinia bonducella leaf extract and their biological applications
11:45 am	Prof. Amit Prabhakar	G-525	3D-Printed Impedance Micropump for Continuous Perfusion of Sample and Nutrient Medium Integrated with a Liver-on-Chip Prototype
12:00 noon	Dr. Shereen Kouser	G-557	Eclosion Behavior and fitness studies in D. melanogaster in dark condition
12:15 pm	Dr. Manoj Kumar Goshisht	G-579	Protein–Protein Interactions Guided Green Synthesis of Gold Nanoparticles: Mechanistic Insights and Biomedical Applications
12:30 pm	Dr. Kalaiselvigovindan	G-343	Smart agriculture and smart livestock farming for the sustainable production – challenges and solutions
12:45 pm to 01:00 pm	Prof. Feroz din Sheikh	G-368	Production Performance of Pashmina Goats of Ladakh under Improved Technological Intervention and Managemental System
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS22 [Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/pdf-iwih-xqf

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Mr. Monu Kshyap	G-1009	GWO-Based Adaptive PID Control for Frequency Stabilization in Renewable-Integrated Multi-Area Power Networks
10:10 am	Ms. Pratyusha Shukla	G-1018	Comparative Analysis of Adaptive Wavelet and Traditional Preprocessing Methods for Plant Leaf Images
10:20 am			
10:30 am	Mrs. Sumithra T.R.	G-1040	Silicon Carbide MOSFET-Based Three-Phase Inverter Driven Permanent Magnet Synchronous Motor for High-Efficiency Underwater Electric Propulsion
10:40 am	Ms. Yogasmita Mohapatra	G-1049	Emerging Technologies for Safeguarding Intelligent Systems
10:50 am	Mr. Sagar Chandra Patnaik	G-1058	Cognitive AI Framework for Automated Classroom Attendance Using Dynamic Imaging and Face Recognition
11:00 am	Ms. M.S. Yuvadharshini	G-1067	MediDrone: An Intelligent Drone-Based Emergency Medical Response and Smart Triage System
11:10 am	Mrs. Manasa J.	G-1093	Sodium Carboxymethyl Cellulose (CMC) and Poly(acrylamide) (PAM) Based Hydrogels for Antidepressant Drug Release Applications
11:20 am	Ms. Upma Singh	G-1094	Short-Term Wind Power Forecasting Using Machine Learning Model Comparison and Performance Analysis
11:30 am	Ms. Lekhana D.	G-1096	Fake Identity Documents Detection using Deep Learning
11:40 am	Mr. M. Jayram	G-1097	Noise Results from Different Sources and Attenuation Methods
11:50 am	Mr. Rudrappagari Madhumohan	G-1115	Probability-Guided Signal Reconstruction for RIS-Assisted Wireless Communication Using CNN-Based Spectrum Sensing
12:00 noon	Ms. P. Vaishnavi	G-1139	Adaptive OFDM-Based Airborne Transmitter Module for Real-Time Aircraft Telemetry: System Design and Functional Simulation
12:10 pm	Mr. Nitin Sharma	G-1165	Emerging Technologies and Future Electronics: A Cross-Layer Review of Edge AI, Heterogeneous Integration, Advanced Materials, and 6G
12:20 pm	Mr. Seshadri S.	G-1169	Design and Development of a Globally Compatible Dual-Voltage Mobile Power Adapter for 100 V and 240 V, 50 Hz Supply System
12:30 pm	Mr. Arun Kumar	G-1172	Explainable AI for Critical Infrastructure Threat Detection: Integrating SHAP, LIME, and Counterfactual Reasoning for Trustworthy Security Operations
12:40 pm	Ms. Kriti Jandrotia	G-1226	A Review of LLM-Based Approaches for Website Usability and Design Evaluation
12:50 pm to 01:00 pm	Ms. Divya Boddukoori, Dr. Navneet Kaur	G-1255	MRI Brain Tumor Detection and Segmentation: Traditional Methods and Deep Learning Approaches
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS23 [Student Speakers]:

Session Theme: Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites

Link: https://meet.google.com/ayy-jrsu-hkx

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Mrs. Lavanya P.	G-1117	Self-Healing Concrete for a Sustainable Marine Environment: Bio-Chemical Microcapsules and Nano-TiO2 for Crack Repair and CO2 Sequestration
10:10 am	Ms. Sameeksha	G-1138	Experimental Evaluation of Mechanical Properties of Hybrid Fiber Epoxy Composites
10:20 am	Ms. Sunidhi Bhargava	G-1152	Sustainable Polymers and Circular Materials for Sustainable Textiles
10:30 am	Mr. Hanan Ali Khan	G-1155	Experimental Investigation on the Mechanical Properties of Carbon Fiber Reinforced Polymer for Concrete Structural Application
10:40 am	Mr. Arya Nilesh Kamble	G-1163	An Integrated Process and Apparatus for Autogenous Synthesis of Diammonium Phosphate (DAP) Fertilizer from Cattle Waste
10:50 am	Mr. Calvin Manasseh (Malaysia)	G-1187	Synthesis and Characterization of ZnO–Duckweed Biochar Composites for Photocatalytic Degradation of Doxycycline
11:00 am	Mr. Marc Karlyn Anak Bakar (Malaysia)	G-1195	Development of Fe2O3/Duckweed Biochar Composite for Photocatalytic Degradation of Doxycycline in Aqueous Systems
11:10 am	Mrs. Divya K.	G-1223	Bioplastic composite films of pyrazoline derivatives doped chitosan with UV-deterring properties for ecofriendly packaging
11:20 am	Ms. Hitha H.R.	G-1240	Phytochemical Functionalised Cellulose Acetate Membrane for Sustainable Removal of Lead (Pb(II)) from Contaminated Water
11:30 am	Ms. Manisha Panchal	G-1245	Eggshell-Derived Iron-Based Nanocomposites for Dye Degradation and Oil–Water Remediation
11:40 am	Mr. Prateek Kumar Pachar	G-1274	Synthesis, Characterization, and Green Synthetic Evaluation of Graphene Oxide and Ferric Oxide Nanocomposite Synthesized Using Fresh Juice Extract of Ananas Comosus
11:50 am	Ms. Kanika Rana	G-1303	Hydrothermal Synthesis of a Bio-Derived Zinc (II) Coordination Polymer: Characterization and Antibacterial activity
12:00 noon	Ms. Aparna S.	G-1337	Sustainable Fabrication of PVA–GO Nanocomposite Films with Enhanced Mechanical Properties
12:10 pm	Mr. Kushagra Sharma	G-1007	Simulation study of Double Perovskite Solar cell with Multiple Charge Transport Layers
12:20 pm	Dr. NItesh Govind Joshi	G-1016	Plasma-Tuned Surface Electronic States and Defect Chemistry of Ni-Phyllosilicate for Emerging Hydrogen-Evolution Technologies
12:30 pm	Mr. Mridupavan Gogoi	G-1039	PCMs for electronic devices cooling
12:40 pm	Ms. Kaushiki Sinha	G-1072	Thickness Optimization of an Interface-Engineered FASnI3-Based Lead-Free Perovskite Solar Cell for Enhanced Photovoltaic Performance

12:50 pm to 01:00 pm	Dr. Mahima Sheoran	G-1089	Nickel Sulfide and Potato-Peel-Derived Carbon Spheres Composite: A Green, Multi-Technique Approach to High-Performance Supercapacitor Electrodes
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-2-TS24 [Student Speakers]:

Session Theme: Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence

Link: https://meet.google.com/rbz-rffv-pds

Session Chairs:_____

Date: 17.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Ms. Sarulatha R.	G-1116	Sustainable Geopolymer Concrete Incorporating Industrial and Agricultural Byproducts: A Review on Fibre Reinforcement, Nano-Additives and Activator Optimisation
10:10 am	Ms. Komalpreet Kaur	G-1133	Hybrid Deep Feature Extraction and Optimization-Driven Machine Learning for Automated Classification of Wheat Leaf Diseases
10:20 am	Mr. Nehaal Raj	G-1144	Design and Implementation of a Real-Time FFT-Based FX Auto-Correlator on the Red Pitaya STEMlab 125-14 Platform
10:30 am	Ms. P. Atsaya Pragathi	G-1184	AI-Assisted Discovery of Potential FGFR1-Targeted Candidates for Systemic Sclerosis–Associated Interstitial Lung Disease
10:40 am	Ms. Sapna Arora	G-1199	Evaluating Website Usability Using Large language models
10:50 am	Mr. Abhishek H Naik	G-1242	Collaborative Multi-AI System with Persistent Memory and Role-Based Behavior
11:00 am	Mr. Tajbir Singh	G-1244	Deep Learning for Automated Crop Disease Detection: A Comprehensive Review of Methods, Trends, and Research Challenges
11:10 am	Dr. Mohammed Zahid Malik (USA)	G-1046	Anderson Localization in Modified Three-Dimensional Lattices: Interplay of Coordination, Disorder, and Coulomb Trapping
11:20 am	Mrs. Supriya	G-1051	Square Patch and Square Resonator with Slit based Dual-band with merged Broad-band Metamaterial Absorber for X-band Applications
11:30 am	Dr. Suriaya Hassan	G-1054	Study of Phase Structure and Corrosion Resistance of Electroless Ni-P-ZrO_2 Nanocomposite Coatings on Mild Steel
11:40 am	Mr. Sameer Kumar	G-1083	Recent Advances in Magnetically Assisted Rheological Finishing of Biomedical Materials through Microwave Sintering of Composite Magnetic Abrasives
11:50 am	Mrs. Navneet	G-1085	Elemental Analysis of Rice Grains Near Paper Mill Using EDXRF: A Case Study of Yamuna Nagar
12:00 noon	Mr. Govinda	G-1086	Tribological Properties of Hybrid Natural Fiber and Filler Reinforced Composites for Engineering Applications
12:10 pm	Mr. Agrim Pratap Singh Yadav	G-1102	Development and Characterization of Hazelnut Oil-Derived Biolubricant: Comparison with Conventional SAE 5W-30 Lubricant
12:20 pm	Mr. Hemant Jain	G-1108	First-Principles DFT Benchmarking of Nanomaterials vs. Conventional Gate Stacks for ISFET Based Biosensors
12:30 pm	Mrs. Nidhi Dandriyal	G-1120	Estimation of Natural radionuclides in the soil samples of the Kumaun Himalaya Region of Uttarakhand, India

12:40 pm	Mr. Guneet	G-1204	Rapid Detection of Edible Oil Adulteration via using mmWave Sensors and ML
12:50 pm to 01:00 pm	Mr. Abinav KS, Kukan S.	G-1235	Innovative Spray-Coating Techniques for Hard Carbon Anodes in Sodium-Ion Batteries
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

DAY 2

17/11/2026

Evening Online Sessions

Online Technical Session: Day-2-TS25 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/zup-ageh-tqd

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. T. Uthayakumar	G-106	An all-optical logic half adder operation based on photonic crystal fiber coupler in a solitonic regime
02:15 pm	Dr. Chalana. S.R	G-114	Copper-Induced Modification of Optical and Luminescence Properties in ZnS Nanostructured Thin Films
02:30 pm	Dr. Padmini R	G-116	Carbon Dots from Natural Precursors: Structure, Optical Properties and Emerging Functional Applications
02:45 pm	Dr. Purabi Gogoi	G-122	Effect of Calcination Temperature on the Structural Properties and Visible-Light-Driven Photocatalytic Performance of Zinc Vanadate Nanostructures
03:00 pm	Dr. Sanchita Pramanik	G-161	Study of Various Propagation Dynamics of Soft-Glass Based Optical Fibers for Near- and Mid-Infrared Applications
03:15 pm	Dr. Schubert Maignan, Parfentyeva Natalia (Russia)	G-172	Laws of Optics in the Framework of the Tachyon Model of the Photon Structure
03:30 pm	Mrs. Soma Hansda	G-250	Silicon Oxycarbide for White Light Emission
03:45 pm	Dr. Sudakshina Prusty	G-252	Tuning optoelectronic properties of Si nanostructures
04:00 pm	Prof. (Dr.) V Jayathirtha Rao	G-259	Organic Materials for Emerging Applications: Design, Synthesis, Characterization and Device Fabrication by V.JAYATHIRTHA RAO
04:15 pm	Dr. Vijay A. Kanade	G-292	A Novel Optimized Design of Energy Efficient Lights for Producing Uniform Illumination by Harnessing Photoluminescent Properties of 'Strontium Aluminate'
04:30 pm	Dr. S.K. Mahajan	G-324	Optical Proprties of Dy3+ Doped Zinc Tellurite Glasses for photonic devices
04:45 pm to 05:00 pm	Dr. Sapna Sethi	G-325	Polysaccharides based Functional Polymers: Luminescence Characteristics

Online Technical Session: Day-2-TS26 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/miv-fgbe-rvk

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Chinna Ayya Swamy P	G-329	Structure–Property Relationships in Carbazole-Based Donor–Acceptor Luminogens for Solid-State Luminescence
02:15 pm	Dr. Neeraj Pandey	G-333	Ultra-Precision Polishing of Optical Materials
02:30 pm	Dr. M. Sreenivasulu	G-377	Tailoring Transition Metal and Rare-Earth Ion Doped Oxide Glasses for Optical Filters and White LEDs
02:45 pm	Dr. Aruna P.	G-423	2D Photodetectors: The Flexible Frontier
03:00 pm	Dr. Soumya Muherjee	G-409	Mild Activation assisted Solid State Process for CCTO based Ceramics: Phase Development, Morphology and its properties
03:15 pm	Dr. Navaneetha Pujari	G-474	Effect of Li2O content on structural and optical properties of Li2O-TeO2-As2O3-B2O3 glasses
03:30 pm	Dr. B. Kalyani	G-475	Electron paramagnetic resonance and optical properties of Cu2+ in PbO-Li2O-As2O3-B2O3 glasses
03:45 pm	Dr. Lipsa Nanda	G-504	Tunable Optical Response and Surface Mode Excitation in Negative-Index Material Thin Films
04:00 pm	Dr. Manoj Pandurang Mahajan	G-523	Luminescence and Dielectric Studies of EuF3: Gd @ Alanine Nanoparticles
04:15 pm	Dr. Mrinmoyee Mukherjee	G-532	Design and Implementation of Indoor Visible Light Communication System
04:30 pm	Dr. Suresh Kumar Jakka (Portugal)	G-543	Mid-Infrared Photonics with Chalcogenide and Tellurite Glasses: Sensing, Emission, and Frequency Conversion
04:45 pm to 05:00 pm	Dr. Gangadhar Behera	G-581	Multiband Tunable Metamaterial Absorber Based on Vanadium Dioxide for Mid-Infrared Refractive Index Sensing application

Online Technical Session: Day-2-TS27 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/ttf-qwtp-ads

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Vartika Singh	G-585	Significance of UV(Ultra-Violet) Lighting in modern times
02:15 pm	Dr. Aparna Rajesh Atmakuri	G-102	From Smart Sensors to Secure Intelligence: AI, Edge Computing, and Cybersecurity for Next-Generation Electronic Systems
02:30 pm	Dr. Komal M. Vyas	G-126	Stimuli-Responsive Tetrazole-Based Functional Metallogel for Reversible Ammonia Storage and Sensing
02:45 pm	Dr. Avijit Kumar Das	G-159	Dual-Mode Near-Infrared (NIR) Chemosensors for Sensing Applications
03:00 pm	Dr. Ramesh Kumar	G-239	Study of the gas sensing properties of reduced graphene oxide samples
03:15 pm	Dr. Sachin Kumar Singh	G-245	Liquid Crystal-Based Optical Sensing: From Molecular Recognition to Practical Applications
03:30 pm	Dr. Arnab Roy	G-266	Simulation of magnetic microbead detection by a planar Hall effect based magnetic field sensor optimized for biosensor applications
03:45 pm	Dr. Venkata Krishna Reddy (USA)	G-277	AI and Machine Learning for Next-Generation Sensors, MEMS, and Smart Systems
04:00 pm	Ms. Rajandeep Kaur (Canada)	G-280	From Molecular Recognition to Smart Detection-Advanced Sensors for Emerging Contaminants in Environmental Monitoring
04:15 pm	Dr. Suchismita Tewari	G-327	Beyond Idealization: Capturing Antibody Geometry and Antibody–Antigen Binding in Nanowire Biosensing
04:30 pm	Dr. Avik Chattopadhyay	G-328	Exploiting Corner-Point Field Confinement in Germanium-Tin Tunnel FETs for Ultra-Sensitive S-Protein Screening and Analysis
04:45 pm to 05:00 pm	Dr. R.A. Kalaivani	G-331	Synergistic Ni-MOF/bio-carbon dot hybrid electrode for selective and sensitive detection of metformin

Online Technical Session: Day-2-TS28 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials

Link: https://meet.google.com/hxu-oiuo-efb

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Prof. Hans-Uwe Dahms (Taiwan)	G-350	Rapid elimination through a 3D-printed solid-phase extraction syringe cartridge for enhanced analysis of complex sample matrices
02:15 pm	Dr. Parimaladevi R.	G-353	Heterointerface Engineering of Bi_2S_3/Mo_2S_3–Ag Nanocomposites for Environmental Remediation and Multifunctional Optical Sensing
02:30 pm	Ms. N. Hiranmai	G-397	Functional Nanomaterials for Sustainable IC Engines: Performance and Emission Characteristics of TiO_2 and CeO_3-Based Nanofuels
02:45 pm	Dr. Pritam Borker	G-406	Photocatalytic hydrogen generation and its usage for hydrogenation of curcumin using WO3 synthesized by green method
03:00 pm	Dr. Monalisa Pal	G-429	Amorphous Carbon: An Emerging Material for Advanced Electronics
03:15 pm	Dr. Jayanti Mishra	G-437	Dual sensing of Cs(I) and HPO4(II) in aqueous medium by urea based, imidazole coupled receptor with DFT investigations
03:30 pm	Dr. Smriti Sharma	G-483	XRD Studies of C Limon ZnO NPs Prepared by Green Synthesis
03:45 pm	Dr. Amodini Mishra	G-515	Nanocomposite Materials: From Fundamental Properties to Practical Applications
04:00 pm	Dr. P. Justin Jesuraj	G-534	Layered Double Hydroxides Meet Low-Dimensional Sulfides: A Charge Separation Strategy for Solar CO_2 Recycling
04:15 pm	Dr. Anupama Chanda	G-548	Zinc Oxide Nanocomposites with Metal/Carbon Based Materials for Photocatalytic, Antibacterial and Sensing Applications
04:30 pm	Dr. Sr. Sio Francis	G-356	Imidazole-Doped Fluorescent Carbon Dots from Mussaenda glabrata Leaves: Selective Zn^{2+} Sensing and Antioxidant, Antibacterial and Anticancer Potential
04:45 pm to 05:00 pm	Dr. S. Haseena	G-511	Study on Photocatalytic and antibacterial properties of phase Fe2O3 nanostructure synyhesis using Phyllathus niruri and Moringa stenopetala leaves

Online Technical Session: Day-2-TS29 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials

Link: https://meet.google.com/wxq-jwwh-zgc

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Dipak Bhowmik	G-562	Ion-Beam-Induced Nanopatterning of Surfaces: Opportunities for Tribological Applications
02:15 pm	Dr. Suman Chirra (Czech Republic)	G-564	Engineering Functional Porous Materials and Nanocomposites for Sustainable Energy Applications
02:30 pm	Dr. Manisha Kumari	G-572	Next-Generation Hydrogen Storage Nanomaterials: Mechanisms, Design Strategies, and Future Perspectives
02:45 pm	Dr. Karamjit Singh	G-613	Functional Semiconductor Nanostructures for Water Pollution Monitoring and Management
03:00 pm	Prof. Mary Vergheese. T	G-618	Carbon Dots - A Prospective Substrate for Assaying Biomolecules, Environmental Pollutants and Develop Latent Fingerprint
03:15 pm	Dr. S. Philip Raja	G-103	Ferromagnetism in nanocrystalline Mn doped CeO2 for Spintronics applications
03:30 pm	Dr. Poonam Kumari Gautam	G-115	Natural Convection of Jeffrey Nanofluid Layer in Magnetic Field
03:45 pm	Dr. Durga Prasad Pabba (Chile)	G-141	Highly Flexible PVDF-MoS2 Composites Nanogenerators for Mechanical Energy Harvesting
04:00 pm	Dr. Priyanka Sahu	G-165	Recent Trends in M-Type Hexaferrites as Magnetic Semiconductor Materials: Properties, Synthesis, and Emerging Applications
04:15 pm	Dr. Lavanya Rathi P	G-174	Multifunctional Magnetic Polymer Composites for Electromagnetic Management in Next-Generation Electronics
04:30 pm	Dr. Neelam Hooda	G-183	Deep Freeze Magnetism: Unraveling Cryogenic Physics of Double Perovskites
04:45 pm to 05:00 pm	Dr. Krishna Prajapati	G-211	Existence of Phase Separation in (1-x)Ba(A,Nb)O3-(y)PbTiO3 Based Perovskite Ceramics

Online Technical Session: Day-2-TS30 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites

Link: https://meet.google.com/egy-kehn-fya

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Prof. Yatendra S. Jain	G-263	Microscopic Theories of Cryogenic Emission of Electrons and Super-ionic Conductivity
02:15 pm	Dr. M. Hema	G-297	Nanocomposite Polymer Electrolytes for Fuel Cell Application
02:30 pm	Dr. A. Geetha	G-317	Electrochemical Charge Storage Behavior of $MnMoO_4$/Ni-MOF Composite Electrodes
02:45 pm	Prof. T. Kalaivani	G-321	Design of Bi-MOF@$NiCo_2O_4$ Composite for Enhanced Electrochemical Performance of Supercapacitors
03:00 pm	Dr. A. Juliet Christina Mary	G-372	Solvent-Mediated Synthesis of Nickel Based Metal–Organic Framework for Supercapacitor Application
03:15 pm	Dr. Mahatta Oza	G-379	Investigation of Photocatalytic Activity and Cyclic Voltammetric Response of Nickel Pyrophosphate Nanoparticles
03:30 pm	Dr. Vineet Kumar Singh	G-389	Beyond Single-Junction Limits: Engineering the Perovskite/Si Tandem Revolution
03:45 pm	Dr. Dinesh Kumar	G-390	Enhanced Thermoelectric Properties of VFeBi and NbRuP Half-Heusler alloys: A First Principles Study
04:00 pm	Dr. Sivachidambaram Pichumani (United Kingdom)	G-481	Energy Materials for Electronic Applications: A Literature Review of Supply-Chain Bottlenecks in Global Critical Minerals
04:15 pm	Dr. Ritu Verma	G-499	Investigation of Hydrogen Storage Capability of Osmium, Iron and Ruthenium Doped/Co-doped Graphene
04:30 pm	Dr. Nilaykumar A. Patel	G-514	Research on the Application of Distributed Photovoltaic Power Generation Systems in Architectural Design
04:45 pm to 05:00 pm	Dr. T. Sri Devi Kumari	G-566	Nanostructured carbons for lithium-ion batteries

Online Technical Session: Day-2-TS31 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence

Link: https://meet.google.com/qnx-ujra-szq

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Rajkumar D R	G-242	Defect Detection and Quality Assurance in 3D-Printed Polymer Composite Materials: Effect of Carbon-Fiber Reinforcement and Thermal Post-Curing on Mechanical Performance
02:15 pm	Dr. Murali Mohan Cheepu (Republic of Korea)	G-275	Next-Generation Materials and Intelligent Manufacturing for Advanced Defense Applications
02:30 pm	Dr. Rituparna Pakhira	G-283	Memory in Motion: Fractional-Order Derivatives and the Modeling of Non-Markovian Dynamics in Electronic Systems
02:45 pm	Dr. Vinayak S. Kulkarni	G-300	Material Characterization and Non-Local Thermal Wave Dynamics in Nanostructures
03:00 pm	Dr. Dorota Korte (Slovenia)	G-313	Application of FIA-TLS technique for monitoring the photocatalytic activity of BFO based semiconductors
03:15 pm	Dr. Ch. Ramya	G-314	Valorization of Pod-Based Biomass Residues into Sustainable Solid Fuel Briquettes: A Response Surface Methodology (CCD) Optimization Approach
03:30 pm	Dr. M. Tukaram Bai	G-315	Utilization of Municipal and Industrial Waste for Fuel Briquette Production: An RSM-CCD Optimization Study
03:45 pm	Prof. C. Preferencial Kala	G-318	First-Principles Study of Sulfur-Vacancy-Engineered ZrS_2 Monolayer for Selective Hazardous Gas Detection
04:00 pm	Dr. R.M. Hariharan	G-320	Interfacial Engineering for Enhanced Thermoelectric Performance in 2D GaN/WSeTe van der Waals Heterostructures: A DFT–NEGF Study
04:15 pm	Dr. Shravan Kumar	G-326	Surface Functionalization of Nanostructured Porous Carbon for Enhanced CO_2 Adsorption
04:30 pm	Dr. G. Nagaraju	G-344	Investigation of optical and shielding features of lead fluoride cadmium bismuth borate glasses
04:45 pm to 05:00 pm	Dr. Subhasree Dutta	G-431	Effect of hybrid nanoparticles on conjugate mixed convection of a viscoplastic fluid in a ventilated enclosure with wall mounted heated block

Online Technical Session: Day-2-TS32 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Link: https://meet.google.com/pdf-iwih-xqf

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Chetan Chauhan	G-430	Strategies for Strengthening Biosecurity in Indian Agriculture
02:15 pm	Dr. N. Suganthy	G-460	Eco-Safe Biopolymer Films for Controlled Release of Food Bioactives: pH-Responsive Anthocyanins and ZIF-8 Encapsulated Thyme Oil for Enhanced Fruit Preservation
02:30 pm	Dr. Partha Deb Roy	G-467	Precision Mapping of Soil Properties Using SAR–Optical Data Synergy
02:45 pm	Dr. Uttarani Maibam	G-493	A Systematic Review of Biotelemetry Frameworks for Monitoring Real-Time Cardio-Respiratory and Thermoregulatory Physiology in Heat-Stressed Livestock
03:00 pm	Dr. Himadri Saha	G-521	From Disease Surveillance to Smart Aquaculture: AI-Assisted Diagnostics, Functional Feed Innovations and Sustainable Fish Health Technologies
03:15 pm	Dr. Anil Kumar	G-542	Emerging Fungal and Viral Diseases of Cultivated Mushrooms: Challenges in Diagnosis and Strategies for Effective Management
03:30 pm	Dr. Arun Sharma	G-547	Antimicrobial activity evaluation of Ethanolic Garlic Extract and Garlic-Loaded Chitosan Nanoparticles (GCNPs) against Aeromonas hydrophila- An In vitro Comparison Study
03:45 pm	Dr. K.L.S. Soujanya	G-561	AgriGenius: A Multi-Agent Framework for Crop Care from Seed to Sale
04:00 pm	Dr. Dhaval J. Kamothi	G-571	Evaluation of the Combined Wound Healing Potential of Hemin and Bilirubin Nanoparticles through Multimodal Characterization and Integrated Molecular Investigations in Streptozotocin-Induced Diabetic Rats
04:15 pm	Dr. M. Rajalakshmi	G-583	Phytohormonal Responses and Growth Performance of Six Plant Species in NFT-Based Wastewater Phytoremediation
04:30 pm	Prof. Norsuzila Ya'acob (Malaysia)	G-587	Integrating Remote Sensing and Plantation Data for Oil Palm Yield Estimation Using Random Forest Regression
04:45 pm to 05:00 pm	Dr. Sunita Beniwal	G-597	Smart Agriculture

Online Technical Session: Day-2-TS33 [Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/ayy-jrsu-hkx

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

`

Time	Authors	Paper ID	Paper Title
02:00 pm	Mr. Hruthvik	G-1268	Smart Car System Using Vision-Based Gesture Recognition, Multi-Factor Authentication, and Automatic Parking
02:10 pm	Mr. Mohammad Nayeem A. Tahasildar	G-1327	Hybrid Framework for Coordinated PEV Power Delivery and Loss Minimization in Radial Distribution Networks
02:20 pm	Ms. Adrika Bharti	G-1336	AI Based Medical Report Analyzer with Disease Risk Prediction and Personalized Health Recommendation
02:30 pm	Mr. Jainil Desai	G-1357	ETIPOS: Encrypted Tunnels In Phones Obviously Secured
02:40 pm	Ms. C.P. Anaswarakrishna	G-1019	Photopyroelectric Investigation of Concentration-Dependent Thermal Diffusivity in PVDF Films
02:50 pm	Dr. D. Surya Reddy	G-1021	Investigation of Au/V2O5/undoped-InP MIS-type Photodiode Properties Under Different Illumination Intensities
03:00 pm	Ms. Meena Siwach, Dr. Rachna Ahlawat	G-1057	Structural, Optical and Luminescence Studies of Eu-Doped PVP–Y_2O_3 Nanocomposites for Optoelectronic Applications
03:10 pm	Ms. Anju Bala	G-1068	Advanced Silica- Encapsulated ZnSe Quantum Dots for Enhanced Photonic Device Performance
03:20 pm	Mr. Naveen Pathivada	G-1231	Size and Concentration Dependent Optical Modulation in ZnO–PNIPAM-Coated Polymer Fibres for Adaptive Textile Lighting
03:30 pm	Mr. Banoth Santhosh	G-1233	Design and Development of a Waste-to-Electricity Generation System Using Thermoelectric Conversion
03:40 pm	Ms. Anju Abraham P	G-1006	Smart Iron Monitoring: Development of a Low-Cost Electronic Detector for Pharmaceutical Applications
03:50 pm	Mr. Akash Kumar	G-1011	Effect of oxygen partial pressure on SnO2 thin films prepared by magnetron sputtering for CO Gas sensing
04:00 pm			
04:10 pm	Mrs. Ranjita Champati	G-1041	AI-Enabled Quantum-Aware Security Challenges in Microfluidics: Origins, Advances, and Future Perspectives
04:20 pm	Ms. Maithili A. Yawalkar	G-1042	Nanomaterial-Based Biosensors for Point-of-Care Diagnostics: Current Progress and Emerging Applications
04:30 pm	Mr. Abhishek Dubey	G-1215	Design and Manufacturing of an FSAE Vehicle's BMS Slave PCB
04:40 pm	Mrs. Sania Sharma	G-1224	Fog Computing in VANETs: A Review of Mobility-Aware Routing and Traffic Management
04:50 pm to 05:00 pm	Ms. DIvi Shravani	G-1230	Design of Smart IoT Framework for Elderly Safety Monitoring system

Online Technical Session: Day-2-TS34 [Student Speakers]:

Session Theme: Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Link: https://meet.google.com/rbz-rffv-pds

Session Chairs:_____

Date: 17.11.2026 Time: 02:00 PM to 05:00 PM

`

Time	Authors	Paper ID	Paper Title
02:00 pm	Mr. Duke Dhawan	G-1206	A New Approach to Paraganglioma Treatment: The "Inject & Done" Framework
02:10 pm	Ms. Tala Bandar Mathari (Saudi Arabia)	G-1210	Green Solution For The Extraction Of Microplastics Particles From Water Using Naturally Available Plant Seeds In Jazan Region Of Saudi Arabia
02:20 pm	Mr. G. Vivek	G-1314	Deep Learning for Lung Cancer Lymph Node Metastasis Detection in Clinical Imaging: A Review
02:30 pm	Ms. Neha Narwal	G-1317	Emerging Biomedical Approaches in Iron Supplementation: Advances in Iron Delivery Systems for Improved Bioavailability and Therapeutic Efficacy
02:40 pm	Mr. Rudrajyoti Paul	G-1318	Dosage-Aware Drug–Drug Interaction Prediction Framework with Organ-Level Risk Analysis and Interactive Clinical Visualization
02:50 pm	Ms. Vidya A.R.	G-1341	Attention-Based Feature Fusion of AlexNet and EfficientNet-B0 for Breast Cancer Detection Using Mammographic Images
03:00 pm	Ms. Upmandeep Kaur	G-1345	Microbiome–Neuroinflammation Networks for Targeted Nanomedicine
03:10 pm	Ms. Anjali Devi	G-1349	Explainable AI and Network Pharmacology for Ovarian Cancer Pyroptosis
03:20 pm	Mr. Ravishanker Jha	G-1350	AI-Based Optical Nanobiosensing for Triple-Negative Breast Cancer
03:30 pm	Ms. Gurinder Kaur	G-1352	Green-Synthesized Metal Oxide Nanocoatings for Antimicrobial Protection and Public Health
03:40 pm	Ms. Danielle Thokchom	G-1360	Carbon Quantum Dot–Graphene Hybrids for Liquid Biopsy Biomarkers
03:50 pm	Mr. Puneet Kumar	G-1367	Design and Development of a Low-Cost IoT-Enabled Smart Insole for Real-Time Plantar Pressure Monitoring
04:00 pm	Mr. Jeeban Kumar Pramanik	G-1140	Unveiling the Bioactive Potential of Moringa oleifera L. Leaf Extracts for Sustainable Plant Protection
04:10 pm	Ms. Tala Jalal, Sara Alzahrani, Nada Balfas, Estabraq Alfadly (Saudi Arabia)	G-1243	AI-based Robotic Systems for Smart Garden Monitoring: A Review
04:20 pm	Mr. Shubham Sandal	G-1248	AI-Driven E-Governance Framework for Automated Tomato Disease Monitoring and Severity-Based Decision Support in Smart Agriculture
04:30 pm	Mrs. Aruna	G-1253	Performance Optimization of Quantum Error Correction under Resource Constraints for Agriculture
04:40 pm	Mr. P.K. Vikas	G-1256	A Conceptual Food-System Framework for Sustainable Mitigation of Per- and Polyfluoroalkyl Substances (PFAS) in Food and Food-Contact Materials
04:50 pm to 05:00 pm	Mr. Syed Shahareyar Syed Bahar	G-1324	Plant Disease Detection and Image Enhancement: A Comparative Evaluation of Original, CLAHE, and GAN-Enhanced Images Using YOLO

ICEMSET-2026

DAY 3

18/11/2026

International Conference on

Electronic Materials, Semiconductor Devices and Emerging Technologies (ICEMSET-2026)

16-18 November, 2026

Organized by

Department of Physics, Guru Jambheshwar University of Science & Technology (GJUST), Hisar, Haryana, India, in association with MetaSciTech Society, Haryana, India.

Program Schedule

Day: 3
Date 18/11/2026

Online mode

Links will be provided tomorrow on the Conference website

Technical Sessions:

- **1 (Morning) Technical Session for Offline Talks: From 10:00 am to 01:00 pm.**
- **10 (Morning) Parallel Technical Sessions for Online Talks: From 10:00 am to 01:00 pm.**

Date	Time (Indian Standard Time)	Event
18.11.2026	10:00 AM to 01:00 PM	**Offline Technical Session: Day-3-TS35 (Poster Session): [Invited Faculty/ Scientist / Industry Person Speakers / Student Speakers]:**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS36 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/zup-ageh-tqd**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS37 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/miv-fgbe-rvk**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS38 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/ttf-qwtp-ads**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS39 [Invited Faculty/ Scientist/Industry Person Speakers/ Student Speakers]:** **Link: https://meet.google.com/hxu-oiuo-efb**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS40 [Student Speakers]:** **Link: https://meet.google.com/wxq-jwwh-zgc**

18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS41 [Student Speakers]:** **Link: https://meet.google.com/egy-kehn-fya**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS42 [Student Speakers]:** **Link: https://meet.google.com/qnx-ujra-szq**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS43 [Student Speakers]:** **Link: https://meet.google.com/pdf-iwih-xqf**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS44 [Student Speakers]:** **Link: https://meet.google.com/ayy-jrsu-hkx**
18.11.2026	10:00 AM to 01:00 PM	**Online Technical Session: Day-3-TS45 [Invited Faculty/ Scientist/Industry Person Speakers]:** **Link: https://meet.google.com/rbz-rffv-pds**
18.11.2026	**11:00 AM to 11:30 AM**	**Tea Break for 30 minutes**
18.11.2026	**01:00 PM to 02:00 PM**	**Lunch Break for 60 Minutes**
18.11.2026	03:00 PM to 03:30 PM	**Valedictory Function** **Link: https://meet.google.com/zup-ageh-tqd**

Offline Technical Session: Day-3-TS35 (Poster Session): [Invited Faculty/ Scientist / Industry Person Speakers / Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Session Chairperson:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am to 01:00 pm	Mr. Gagnish	G-1028	Sustainable Synthesis of Nitrogen-Doped Carbon Quantum Dots from Zanthoxylum armatum for Environmental Lead Monitoring
	Ms. Konika Saini	G-1178	Green Synthesis, Physicochemical Characterization, and Evaluation of Antibacterial Properties of Copper oxide Nanoparticles
	Mr. Ankit Lathwal	G-1065	Enhanced Magnetic and Dielectric Behavior in Dy3+ Doped Y Type Hexaferrites Synthesized by Sol–Gel Auto Combustion
	Ms. Sakshi Verma	G-1066	Structural and Electrical properties of Dy3+ doped SNN tungsten bronze ferroelectrics ceramics
	Ms. Annu	G-1070	Structural, Dielectric and Electrical properties of KNN based multiferroic composites for Multifunctional Devices
	Ms. Neha	G-1121	Resin for a Better Brew: Sustainable Caffeine Reduction in Tea and Coffee
	Ms. Rita Sihag	G-1366	Nanoengineered Tablets for Effective Water Decontamination
	Mrs. Pinki Ahlawat	G-1092	Sustainable Conversion of Kitchen Biowaste into Porous Activated-Carbon-Based Electrodes for Supercapacitor Applications: Waste to Energy Storage
	Mr. Amit	G-1339	Exploring Two-Dimensional MnB Monolayer for Solid-State Hydrogen Storage: A DFT Study
	Ms. Ritika Madan	G-1056	Vibrational and Ultrasonic Study of Thorium Nitride (ThN)
	Mr. Karamvir	G-1076	A detailed study of quaternary Heusler alloys LiXCrSn (X=Be,Mg,Ca,Sr,Ba) using a computational approach.
	Dr. Jyoti Bala Kaundal	G-1146	Explainable Artificial Intelligence-Assisted Prediction and Interpretation of Methylene Blue and Methyl Red Photocatalytic Degradation Using Carbon Dots
	Ms. Achla Rani	G-1176	Structural Investigation of CCTO Based Composites
	Mr. Vijay Kumar	G-1306	Survey of Plant-Parasitic Nematodes Associated with Kinnow Orchards of Haryana
	Ms. Dikshita	G-1124	Advances in Nanomaterial-Based Electrochemical Sensing of Selenium: Mechanisms, Performance, and Emerging Challenges

DAY 3

18/11/2026

Online Sessions

Online Technical Session: Day-3-TS36 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials

Link: https://meet.google.com/zup-ageh-tqd

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Parul Gaur	G-355	A Smart Multilevel Inverter-Based System for Renewable Energy Integration
10:15 am	Dr. Piyush N Patel	G-391	Design and Performance Analysis of Lung Water Content Using RF Sensor
10:30 am	Dr. Piyush N Patel	G-395	Design and Simulation of CSpRR Sensor for Water Adulteration Detection in Milk
10:45 am	Dr. R. Dhayalan	G-403	Numerical simulation and experimental validation of low frequency shear horizontal plate wave generation using EMAT
11:00 am	Dr. Nidhi Sharma	G-418	AI Smart Safety System for Industrial Workers
11:15 am	Dr. Om Shanker Tiwari	G-425	Metabolite-Based Self-Assembly: From Bioinspired Materials to Sustainable Technologies
11:30 am	Dr. David Daneesh Massey	G-500	Smart Sensor Systems for Next-Generation Indoor Air Quality Management
11:45 am	Dr. Oleg Dimitriev (Ukraine)	G-452	Thermal energy upconversion using thermally-activated delayed fluorescence materials
12:00 noon	Dr. S. Jayaprada	G-501	AI-Powered Early Fire Detection and Risk Assessment System Using IoT Sensor Networks
12:15 pm	Dr. Moumita Mahanty	G-606	Shear Acoustic Wave Propagation in Imperfectly Bonded Piezoelectric–Functionally Graded Cylindrical Structures
12:30 pm	Dr. Dr. K. Girija, Mr. V.M. Hariharan	G-611	Wet chemical Synthesis of Ag/SmFeO3 Perovskite Nanostructures for Ultrasensitive Electrochemical Detection of Butylated Hydroxyanisole
12:45 pm to 01:00 pm	Dr. D. Siva Krishna Reddy	G-223	ML-Augmented CFD-Framework for Heat-Sink and Fan-Speed Optimization in Gaming Workstation
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS37 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials

Link: https://meet.google.com/miv-fgbe-rvk

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Punit Patel	G-238	Recent Development of Mechanical Applications of Magnetorheological Elastomer
10:15 am	Prof. Hem Bhatt	G-240	A Staged Computational Framework for Absorption Cross-Section and Internal Electromagnetic Energy in Magneto-Optical Fe_3O_4 Microspheres
10:30 am	Dr. Syamala Misala	G-282	A High-Gain Stacked Rectangular Dielectric Resonator Antenna with Defective Ground Structure for C-Band Applications
10:45 am	Dr. Pratibha Bidawat, Dhiraj Saxena	G-287	Effect on Piezoelectric and Dielectric Properties of Ceramic-Polymer 0-3 Composites on Inclusion of ZnO-Nanoparticles as Third Phase
11:00 am	Dr. Grish Chandra	G-301	Modification in Physical Properties of CoFe2O4 and Al Substituted Nanoparticles due to Sintering at Different Temperatures
11:15 am			
11:30 am	Dr. Vikas	G-400	Molecular Ferroelectricity in Purely Organic Imidazole Derivatives
11:45 am	Prof. C.E. Nanjundappa	G-411	Bénard–Marangoni convection in a thermorheological dielectric fluid layer with non-uniform volumetric heating
12:00 noon	Mrs. Suprabha R	G-412	Continuous heat source dependence on thermomagnetic convection in a ferrofluid saturated porous medium
12:15 pm	Dr. Bhagaban Kisan	G-428	Temperature and frequency dependence of dielectric behavior of lead-free BZT-BCT ceramics
12:30 pm	Dr. G. Vinod	G-446	Sm^{3+}-Modified Zn–Mg Spinel Nanoferrites for Multifunctional Magnetic, Electronic and Environmental Applications
12:45 pm to 01:00 pm	Dr. Ujwala M. Pagar (Mhaske)	G-491	A Research towards the values of Universal Constants μ_0 and ε_0
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS38 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Link: https://meet.google.com/ttf-qwtp-ads

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Prakash Kanjariya	G-506	Tailoring Phase Stability and Room-Temperature Multiferroic Performance in Sm-Substituted Bismuth Ferrite via Co–Cr Dual Doping
10:15 am	Dr. Lokendra P. Singh	G-620	Intermolecular relaxation of dipolar plastic crystalline material in non-polar glass forming matrix
10:30 am	Dr. Ambika Tundwal	G-575	Rice Husk-Derived Sustainable Functional Materials: Opportunities for AI-Driven Property Prediction and Electronic Applications
10:45 am	Dr. Rahul Madan	G-596	Reduction in lattice thermal conductivity of CdO due to bond softening via Cobalt doping
11:00 am	Dr. M. Marimuthu	G-626	Waste to Wealth: Development of Carbon-Based Counter Electrodes Fro Plastic Wastes gor Integrated Dye-Sensitized Solar Cells
11:15 am	Dr. Uttam Paliwal	G-462	Structural and Electronic Properties of Strained NbS2 monolayer :A First-Principles Study
11:30 am	Ms. Poornima S	G-498	Advanced Correlative Microscopy for Precise Material Characterization and Failure Analysis of Spacecraft Propulsion Components
11:45 am	Prof. Sudarshan Rao K	G-513	Parametric Analysis of Abrasive Wear Behaviour of Graphite filled Carbon Epoxy Composites
12:00 noon	Dr. Debasree Saha	G-378	Climate smart Agriculture for sustainable food security
12:15 pm	Dr. Krishna Meel	G-383	Title Comparative Analysis of Active and Hybrid Solar Dryers for Sustainable Post-Harvest Management: A Comprehensive Review
12:30 pm	Dr. Leena Kumari	G-399	Towards futuristic Agri-food supply chains through integration of Sensors and Blockchain Technology
12:45 pm to 01:00 pm	Dr. Yukti Verma	G-416	Effect of Guar-gum grafted Clay/Pomace based Composites loaded with Iron and Zinc on Thompson Seedless Grapes (Vitis vinifera L.)
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS39 [Invited Faculty/ Scientist/Industry Person Speakers/ Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Link: https://meet.google.com/hxu-oiuo-efb

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Ms. Rupayali Swaroop	G-267	AI-Driven Network Optimization for 6G: A Survey of Intelligent Resource Management, Distributed Learning, and Autonomous Control
10:10 am	Dr. Parul Gill	G-592	Advanced printing techniques for smart and functional textiles
10:20 am	Mr. Sudipta Dash	G-173	Exploring the Photovoltaic Potential of $CsSnI_3$: Electronic and Optical Insights from First Principles
10:30 am	Mrs. Iro Chidinma Yvonne (United Kingdom)	G-365	Transforming knowledge systems for life on Earth: Visions of future systems and how to get there
10:40 am	Dr. Archana Singh	G-393	Design and Synthesis Colorimetric Organic Sensor for Selective Detection of biological important Fluoride and Acetate ions.
10:50 am	Dr. Manjulata Yadav	G-497	Evaluation of Radiation Exposure Risks from Water and Sediment Samples in the Tehri Dam Reservoir, Uttarakhand, India
11:00 am	Dr. R.V.S. Lalitha	G-294	Search Efficiency in the Quantum Era: A Grover's Algorithm Study
11:10 am	Dr. Santhi K	G-402	Engineering CuS/TiO_2 Mesoporous Nanostructures for Enhanced Visible-Light Photocatalytic Performance
11:20 am	Dr. Sapna P	G-308	Effect of Complexing Agent Concentration on Structural and Optical Properties of CTS Thin Films
11:30 am	Dr. César A. Magaña-Chávez (Mexico)	G-1364	Sustainable Synthesis of CuO Nanoparticles: Structural, Optical, and Photocatalytic Properties for Water Remediation
11:40 am	Ms. Pravallika Chittemreddy (Taiwan)	G-1101	Development of chitosan/Carbon nanofiber –Melamine for Dye Adsorption and antibacterial application
11:50 am	Ms. Mehak Gupta	G-1355	Optimized Nanofibre Biosensors for Pancreatic Cancer Biomarkers detection
12:00 noon	Mr. Sarthak Ash	G-1361	Intelligent Nanotechnology For Next-Generation Healthcare
12:10 pm	Ms. A. Persia Anit Devi	G-1365	Role of Betaine in Natural Deep Eutectic Solvent Development
12:20 pm	Ms. Smrithi S. Rao	G-1207	Weed detection in Fenugreek crops using densenet 121 and low cost spot spraying robot
12:30 pm	Dr. Rashmi N	G-362	From Data to Decisions: Explainable and Trustworthy AI for Smart Agriculture
12:40 pm	Mrs. Hasina	G-1332	Structural, optical and magnetic properties of green synthesized g_C3N4 /Nio Nanocomposite
12:50 pm to 01:00 pm			
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS40 [Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence

Link: https://meet.google.com/wxq-jwwh-zgc

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Ms. Varshini V.	G-1271	Design and Development of a Compact Six-Pack Cockpit Instrument
10:10 am	Ms. Bhawna Singh	G-1340	Quantum Dot Fluorescence Probes for TNBC Microenvironment Biomarkers
10:20 am	Mr. Abubakar Iliya	G-1363	Quantum Dot-Enhanced LAMP Biosensors for Rapid Salmonella Detection
10:30 am	Mr. Kripayan Das	G-1035	Thermal Cooling Enhancement of Computer Processor with Custom Liquid Cooling Module
10:40 am	Mr. Priyank Srikanth	G-1055	AI-Assisted Multi-Objective Optimization of Ceramic Heat Sinks for High-Power Electronic Thermal Management
10:50 am	Mr. Deviprasad M.J.	G-1159	Novel SiO2 – ORMOSIL based Sol-gel Coating for corrosion protection of 6061 Aluminum Alloys for Aerospace Application
11:00 am	Mr. Shaik Mohammed Ghouse	G-1247	Development and Characterization of Poly[(4-methyl-5-vinylthiazole) methacrylate-co-butyl methyl methacrylate/ZrO2 Nanocomposites as Corrosion Coatings
11:10 am	Mrs. Nitika Sharma	G-1342	AI Profiling of Biocorrosion Biofilms with Nanomaterial Sensors
11:20 am	Ms. Spurthi B.S.	G-1001	Tailoring Coating Architecture in Thermally Evaporated SnTe Thin Films for High-Performance Photodetection
11:30 am	Ms. Jepcy Mathew	G-1010	Colliding- and Single-Plasma Pulsed Laser Deposition of Cu-MoOx Alloy Thin Films: A Comparative Structural and Optical Study
11:40 am	Ms. Brisha Ghosh	G-1014	Multifunctional surface engineering of 316L stainless steel implants: corrosion optimisation, osteointegration and local antibiotic delivery
11:50 am	Mr. Heithem Sahli (Algeria)	G-1032	Modification of Biomedical Polymer Surface Wettability with FE-DBD Plasma
12:00 noon	Mr. Varinder Mandley	G-1090	Comparative Study of TiAlN-Coated and Plasma-Nitrided TiAlN-Coated H13 Hot-Work Tool Steel
12:10 pm	Mr. Sandeep Yadav	G-1338	Design and Electrochemical Evaluation of Hybrid Nanostructured Electrodes for Sustainable Energy Generation from Compost-Based Microbial Fuel Cells
12:20 pm	Mrs. Uganta Yadav	G-1238	Growth and Characterization of Creatininium Cyanoacetate Single Crystals: Structural, Optical, Thermal, and Mechanical Properties
12:30 pm	Mr. Gautam Kunal	G-1300	Comparative Investigation of Microstructural, Phase and Mechanical Characteristics of Similar and Dissimilar Friction Stir Welded AA6082 and AA7075 Aluminium Alloys
12:40 pm	Ms. Tanya Sonker	G-1310	Investigation of Microstructural and Mechanical Characteristics of AA7075 Friction Stir Welds Produced Using Hard-V Coated H13 Tool

12:50 pm to 01:00 pm	Ms. Tanya Singh	G-1313	Docking, Molecular Dynamics and DFT of Phytochemical–Nanomaterial Interfaces in MASLD-Linked Hepatocellular Carcinoma
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS41 [Student Speakers]:

Session Theme: Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites

Link: https://meet.google.com/egy-kehn-fya

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Mrs. Sphoorthi K.	G-1118	Eu3+-induced defect engineering in Ag8W4O16 for enhanced pseudocapacitive energy storage
10:10 am	Ms. Neha Rani	G-1126	Comparative Performance Analysis of $FAPbI_3$ and $MASnBr_3$ Perovskite-Based Solar Cells Using SCAPS-1D
10:20 am	Ms. Azra Parveen Ismail Ansari	G-1132	Green Microwave-Assisted Fabrication of TiO_2/ZnO@ZrO_2 Nanocomposite: Structural, Optical and Surface Characterization for Photocatalytic Degradation of Methylene Blue, Methyl Orange and Rhodamine B and Dye-Sensitized Solar Cell Applications
10:30 am	Ms. Supriya K.	G-1149	Green Electronics for Healthcare: Compostable Bio-DSSCs Using Agricultural By-Products
10:40 am	Mr. Anchal Kumar Maurya	G-1194	Numerical Modelling of a Wool-FEP Lateral-Sliding Triboelectric Nanogenerator with Synchronized Energy Extraction
10:50 am	Ms. Yuvitha D., Pavithra G.	G-1198	Novel Anode Formulation using Petroleum Pitch and Calcinated Coke
11:00 am	Ms. Anamika Yadav	G-1201	Modulating Spin-States of Active Catalysts for Efficient Urea Oxidation in Anion Exchange Membrane Electrolyzer
11:10 am	Ms. Twinkle Khanna	G-1208	Comparative Study of Partially and Fully Etched MXene in Asymmetric Energy Storage Devices
11:20 am	Mr. Dharandhar Singh	G-1258	An Evaluation and Study of Load Optimization Strategies for Integrated Sun-Wind Intelligent Power Networks
11:30 am	Dr. M. Gurulakshmi	G-1275	Design and Electrochemical Evaluation of Multifunctional MoO_3- as an Efficient Material for Energy Harvesting and Advanced Supercapacitor/Lithium-Ion Battery Storage Systems
11:40 am	Mr. Rakesh Chandra Tiwari	G-1297	Molybdenum-Engineered $ZnFe_{2-x}Mo_xO_4$ Nanoarchitectures for High-Performance Supercapacitor Applications
11:50 am	Mr. Biswaranjan Behera	G-1321	Analysis of Energy-Efficient Graphene-Based Schottky Junction Silicon Solar Cell Structures for Next-Generation Optical Applications
12:00 noon	Ms. Keerthana K.	G-1323	Comparative Structural Evolution of Pristine, Mg- and Cu-Substituted P2-Type Na0.67MnO2 Cathode Materials for Sodium-Ion Batteries
12:10 pm	Mr. Awar Ram	G-1325	Solar-Powered Smart Environmental Surveillance: Integrating Next-Generation Photovoltaic Harvesting with Real-Time Air-Water Monitoring Ecosystems
12:20 pm	Mr. Chetan	G-1358	Synergistic effect of redox additive electrolyte on the electrochemical performance of $ZnCo_2O_4$ cathode for advanced supercapacitors
12:30 pm	Mr. Hemant Pal	G-1359	Hydrothermally engineered ZnCo2O4 anode material for microbial fuel cell application

12:40 pm	Mrs.S.Vanila	G-177	Variational Mode Decomposition-Assisted Edge AI Framework for State-of-Health Estimation of a Battery Pack
12:50 pm to 01:00 pm			
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS42 [Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Link: https://meet.google.com/qnx-ujra-szq

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Shiv Kumar	G-1103	In-silico Study of promising drugs Apricitabine, Lefitolimod and Amdoxovir: A comparative approach
10:10 am	Mr. Amir Kumar Bishoyi	G-1114	Impact of micelles in the bi-phasic oxidation of DL-2-Amino-3-hydroxybutanoic acid: Comprehensive kinetic and mechanistic insight
10:20 am	Mr. Karan Singh	G-1203	Isolation, identification & optimization of new microbial strain from soil sample for the production of cellulase
10:30 am	Mrs. Maryam Arifa	G-1142	Refractive index measurement of RNA VO molecule and its dependence on temperature
10:40 am	Ms. K. Hasini	G-1175	Framework and design of an Explosion protection suit for defense application and related implications
10:50 am	Ms. Neelu	G-1277	Design and Simulation of a Dual-Gate HfO_2 Based Organic HEMT for Glucose Sensing Application
11:00 am	Ms. Prachi Thapa	G-1304	Battery State-of-Health Estimation Using Physics-Based Degradation and Residual Learning
11:10 am	Mr. Shaurya Khera	G-1305	Merging Specialists: Conciseness and Error-Detection
11:20 am	Mr. Azlaan Ali Ladha	G-1309	Monocular Vision-Guided 2-DOF Robotic Manipulator for Precision Root-Targeted Micro-Irrigation and Agro-Chemical Delivery
11:30 am	Mrs. Asitha L R	G-357	Fuel Chemistry-Mediated Microstructural and Functional Modulation of α-Fe_2O_3 Nanoparticles: A Comparative Study of Citric Acid and Urea
11:40 am	Mr. Shashank Verma	G-1024	Recent Advances in Coverless Image Steganography: A Review
11:50 am	Mr. Shashank Verma	G-1012	Achieving Operational Resilience in Air Quality Monitoring: An IoT Solution with Multi-Platform Data Access
12:00 noon			
12:10 pm			
12:20 pm			
12:30 pm			
12:40 pm			
12:50 pm to 01:00 pm			
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS43 [Student Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites

Link: https://meet.google.com/pdf-iwih-xqf

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Mr. Prem M. Patel	G-1191	Simulation-Based Assessment of Load-Dependent State of Charge Estimation Accuracy in Lithium-Ion Batteries Using an Adaptive Extended Kalman Filter
10:10 am	Ms. Komal Kaliraman	G-1074	Enhanced Humidity Sensing Performance of Chemically Dispersed MWCNT-TiO_2 Nanocomposite
10:20 am	Mr. Akash R.	G-1079	Wearable bio sensor for continuous monitoring of stress hormone
10:30 am	Mr. Aryan Meher	G-1343	Explainable AI and Nano-Enabled Liquid Biopsy for Bladder Cancer Diagnosis
10:40 am	Ms. Muskan	G-1047	Sustainable Synthesis of Cu-Doped ZnO Nanoparticles Using Nyctanthes arbor-tristis Leaf Extract: Structural and Morphological Insights
10:50 am	Mr. Amrendra Singh	G-1098	Precatalyst Engineering to Access Highly Active V-Fe(O)OH for Oxygen Evolution Reaction
11:00 am	Mr. Raj Kumar	G-1109	Tailoring of Metal Oxide Ferrite Nanocomposites Synthesized via Ultrasonication and their Characterization
11:10 am	Mr. Amit V. Kadam	G-1260	Taguchi-Based Optimizations of Melt Flow Index for Nylon 6–Mica Composite FDM Filaments
11:20 am	Mr. Amit V. Kadam	G-1261	Mechanical, Thermal, and Microstructural Characterization of Nylon 6–Mica Composite FDM Filaments and 3D-Printed Specimens
11:30 am	Mr. Kartikeye	G-1320	A Review: Synthesis and Structural Characterisation of Graphite-Derived Nanomaterials
11:40 am	Mr. Mohit Kaushik	G-1351	Nanocomposite Membranes for Heavy-Metal Removal and Exposure Reduction
11:50 am	Ms. Bhawna	G-1217	Enhanced Piezoelectric Performance in Copper-Modified (BaCeCa)(ZrCuyTi)O3 Lead-Free Ceramic
12:00 noon	Ms. Kanika Poonia	G-1265	Samarium-Induced Microstructural Modulation and Enhanced Energy Storage Efficiency in $BaTi_{0.965}Sn_{0.035}O_3$ Ceramics
12:10 pm	Ms. Madhu Rani	G-1218	Frequency- and Temperature-Dependent Dielectric Properties and Electrical Conduction Mechanism of PANI/ZnO Nanocomposites with 20 wt.% ZnO]'
12:20 pm	Mrs. Sanju	G-1219	Dielectric Properties of Polythiophene/Copper Oxide (PTh/CuO) Nanocomposite with 15 wt.% CuO Doping
12:30 pm	Mr. Sourav Paul	G-1353	Electrospun PVA Nanofibers for Carcinogenic Water Pollutant Removal
12:40 pm	Mrs. Esther Maria Princy L.	G-1026	Rational Design of CoFe2O4//CdSe Asymmetric Supercapacitors: From Individual Electrode Evaluation to High-Voltage Energy Storage
12:50 pm to 01:00 pm	Ms. Ritu Malik	G-1061	Green-Synthesized Transition Metal Oxide nanostructures for Sustainable Supercapacitor applications
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS44 [Student Speakers]:

Session Theme: Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies
Link: https://meet.google.com/ayy-jrsu-hkx

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Mrs. Manisha Sheoran	G-1063	Hybrid Electrolyte Engineering for Enhanced Supercapacitor Performance
10:10 am	Ms. Ritika	G-1075	Defect Engineering-Driven Enhancement of Thermoelectric Performance in $AgSbTe_2$ Thin Films
10:20 am	Mr. Deepak Vashisth	G-1148	Effect of Annealing Temperature on the Structural, Optical, and Textural Properties of Melamine-Derived Graphitic Carbon Nitride
10:30 am	Mrs. Sunanda Kumari	G-1174	Financial, Feasibility and Sensitivity Analysis of Hybrid Solar-Wind Renewable Energy Systems
10:40 am	Mr. Ankit Kumar	G-1186	Binder-Free In-Situ Hydrothermal Growth of NiO Thin Films on FTO Substrates for Smart Electrochromic Supercapacitor Electrodes
10:50 am	Ms. Mehak Bishnoi	G-1157	Pitting Corrosion Susceptibility Prediction via Machine Learning: Compositional and Environmental Determinants Across Fe, Al, NiCrMo and High-Entropy Alloys
11:00 am	Ms. Astha Shukla	G-1062	Deposition of titanium based films using colliding pulsed laser deposition system by Astha Shukla and Ravi Pratap Singh
11:10 am	Ms. Swati B. Jadhav	G-1329	Influence of Fe and Mo Additives on the Structural Properties and Phase Evolution of Nanocrystalline Co_3O_4 Thin Films
11:20 am	Mr. Naren Rajagopalan S.	G-1246	Reconstructing Fire Exposure from Steel
11:30 am	Ms. Bhoomika B.	G-1334	AI-based Payload-Aware Multi-Feature Cover Selection and Content-Adaptive Image Steganography Using AES-GCM Encryption
11:40 am	Ms. Shivangi Tripathi	G-1362	Integrative Bioinformatics and Molecular Docking of Natural Therapeutics in Cervical Cancer
11:50 am	Ms. Ritu Rani	G-1143	Experimental Investigation of X-Ray Mass Attenuation Coefficients in Hydrocarbon Samples Using a Si (Li) Detector
12:00 noon	Mr. Rishav Raj	G-1344	AI and Molecular Dynamics of Nanocarrier–Membrane Interactions
12:10 pm	Mrs. Varsha	G-1216	Evaluation of Plant-Derived Bioactive Extracts Against Cancer Cell Lines Using 2D and 3D Culture Models
12:20 pm	Ms. Sreemoyee Mandal	G-1346	An Integrated Computational Framework for Nanomaterial Toxicity Assessment Using Machine Learning
12:30 pm	Ms. Aashi Priya	G-1347	AI-Guided Nanotherapeutic Target Discovery in Acute Myeloid Leukemia
12:40 pm	Mr. Yash Kumar Jaiswal	G-1348	AI-Integrated Quantum Dot Nanobiosensors for Early Oral Cancer Detection
12:50 pm to 01:00 pm	Mr. Aditya Raj	G-1354	AI-Driven Multi-Omics and Quantum Nanobiosensors for Prostate Cancer Detection
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		

Online Technical Session: Day-3-TS45 [Invited Faculty/ Scientist/Industry Person Speakers]:

Session Theme: Theme 1: Advanced Electronic, Semiconductor, Photonic and Smart Device Materials
Theme 2: Functional Nanomaterials, Quantum Materials and Advanced Functional Materials
Theme 3: Energy Materials, Sustainable Polymers and Advanced Composites
Theme 4: Advanced Thin Films, Surface Engineering, Coatings and Corrosion Science
Theme 5: Materials Characterization, Computational Materials Science and Artificial Intelligence
Theme 6: Bio-Integrated Materials, Biomedical Engineering and Smart Agricultural Technologies

Link: https://meet.google.com/rbz-rffv-pds

Session Chairs:_____

Date: 18.11.2026 Time: 10:00 AM to 01:00 PM

Time	Authors	Paper ID	Paper Title
10:00 am	Dr. Kiran Devi	G-346	Evaluation and Correlation of Strength Properties of Mortar Incorporating Stone Waste
10:15 am	Dr. Abdus Salam Sarkar	G-367	Quantum Frontiers: 2D Quantum Materials and Quantum Technologies
10:30 am	Dr. Rohit Raina	G-484	Perfusion Physics: Decoding Shock at Bedside
10:45 am	Dr. Asha P.K.	G-556	Exploitation of a Triphenylamine-Based Star-burst Compound for Multifunctional Applications: Anticorrosion, Antidiabetic, Antioxidant, and Computational Insights
11:00 am	Dr. Binod Kumar Choudhary	G-565	Defect-Mediated Electronic and Optical Engineering of Cs_2SnI_6 Double Perovskites for High-Performance Photodetection: An Experimental and DFT Study
11:15 am	Dr. Neeraja Pravin Dhole	G-623	Bio-Integrated Sensing Technologies: Harnessing Microbial Systems for Sustainable Environmental and Biomedical Applications
11:30 am	Dr. Nishtha	G-627	GC-MS Profiling, Preparation, Physicochemical Characterization and Preliminary Antimicrobial Evaluation of Cyperus scariosus R.Br. plant extract and Essential Oil Nanoemulsion
11:45 am	Mr. Anant Nimkarde	G-629	A Comparative Study of Microwave and Conventional Heating in Fuyu Persimmon (Diospyros kaki): Changes in pH and Total Soluble Solids (°Brix)
12:00 noon	Dr. D. Zarena	G-630	Studies on YFeO3 Based Complex Oxide Systems
12:15 pm	Prof. Gopalakrishnan Govindasamy	G-631	Conversion of solar energy to hydrogen by thermochemical water splitting cycles: Challenges and opportunities
12:30 pm	Dr. Guguloth Rajender Naik	G-632	AI-Driven Intelligent Control and Power Electronics for Next-Generation Smart Electronic Systems
12:45 pm to 01:00 pm			
01:00 pm to 02:00 pm	**Lunch Break for 60 minutes**		