

ENGINEERING AND TECHNOLOGY INCLUDING EMERGING TECHNOLOGY

Venue: A. K. Basak Auditorium, Main Building (Ground Floor)

17th. January 2025 Friday Technical Session- 1 (2:00 PM onward)

Sl No.	Application No.	Name of the Presenting Author	Name of the Institute/ Organization	Title of the Abstract
1	WBSSTC/2024-25/R6/EST/024352	Kabir Baidya	Indian Institute of Engineering Science and Technology Shibpur	Study of particle distribution effect on electro-elastic properties for a castor oil derived polyurethane/BaTiO ₃ /MWCNTs three-phase energy harvesting piezoelectric smart coatings: Finite element analysis-based prediction and experimental validation
2	WBSSTC/2024-25/R6/EST/074527	Aishwarya Das	Jadavpur University	Fabrication of Bio-inspired Membrane Incorporated with Microbial Membrane Transport Protein for Water Treatment
3	WBSSTC/2024-25/R6/EST/082604	Payal Sengupta	Jadavpur University	Enhanced performance of light-induced, self-charging piezoelectric supercapacitor: One-step solution for energy harvesting and storage
4	WBSSTC/2024-25/R6/EST/120046	Kuheli Goswami	Uem Kolkata	Predictive Energy Management in Microgrids: Daylight and Occupancy Sensors with Life Cycle Cost Analysis
5	WBSSTC/2024-25/R6/EST/111324	Asifuzzaman Lasker	Aliah University	A Multi-Faceted Web-Based AI Tool for Chest X ray Imaging to Support Public Health
6	WBSSTC/2024-25/R6/EST/074029	Dr Swati Ray	Haldia Institute of Technology	Design and Development of a Cost-effective Environmental Friendly Portable Automated Disinfection Bin for Domestic and Healthcare Use
7	WBSSTC/2024-25/R6/EST/122241	Sonia Kundu	Institute of Engineering and Management IEM University of Engineering and Management Kolkata	Antioxidant Smart Hydrogels for Active Food Packaging Applications
8	WBSSTC/2024-25/R6/EST/105918	Asmita Poddar	Dream Institute of Technology	Study on dielectric relaxation behaviour of some AgI doped glass nano-composites
9	WBSSTC/2024-25/R6/EST/095435	Pramita Sen	Heritage Institute of Technology Kolkata	Prediction of effectiveness of drugs used in cancer treatment with the aid of machine learning
10	WBSSTC/2024-25/R6/EST/112906	Payel Biswas	Jogesh Chandra Chaudhuri College	Sustainable Federated Learning for Emergency Services using Internet of Drones

11	WBSSTC/2024-25/R6/EST/015357	Devjit Acharjee	Jadavpur University	Structural Health Monitoring of Bridges Based on Changes in Modal Derivatives
12	WBSSTC/2024-25/R6/EST/105208	Payel Bhattacharya	Dream Institute of Technology	AI based Comparison of AFPMSM for different Pole configuration suitable in EV Application
13	WBSSTC/2024-25/R6/EST/093050	Subhajit Murmu	Heritage Institute of Technology	Saurya Radhuni- A Solar-Powered Solution for Sustainable Cooking and Lighting in Rural Households
14	WBSSTC/2024-25/R6/EST/113006	Tanima Bhowmik	University of Engineering and Management Kolkata West Bengal India	Dew enabled UAV based Precision Agriculture for Crop Monitoring & Management
15	WBSSTC/2024-25/R6/EST/114902	Tanmoy Datta	Jadavpur University	Studying Evolution of Human Settlements in and around Sacred Precincts: Establishing Relevance of Research Work
16	WBSSTC/2024-25/R6/EST/092029	Ahana Baduri	Haldia Institute of Technology	Development of sustainable composite hydrogel as advanced wound dressing for topical drug delivery application
17	WBSSTC/2024-25/R6/EST/012811	Deepanjan Das	Jadavpur University	Thermocapillary effect on compound droplet inside Y-Shaped microchannel
18	WBSSTC/2024-25/R6/EST/082356	Atreyee Saha	Narula Institute of Technology	Flexy Motion: An automatic exoskeleton system

18th. January 2025 Saturday Technical Session- 2 (10:00 AM)

19	WBSSTC/2024-25/R6/EST/084004	Arnab Hazra	Dr Sudhir Chandra Sur Institute of Technology and Sports Complex	WinDrone: Analysis of Wind Shear Effects on Glowworm Swarm Optimization-based Internet of Drone Things in Various Terrain
20	WBSSTC/2024-25/R6/EST/122844	Debraj Dutta	Heritage Institute of Technology	A study on Non-Invasive Approach to Diabetes Detection Using Quartz Crystal Microbalance (QCM) Sensors for Breath Analysis
21	WBSSTC/2024-25/R6/EST/115516	Souryodipto Debnath	Narula Institute of Technology	Approach to Design Smart T-shirt for Health Monitoring
22	WBSSTC/2024-25/R6/EST/102654	Debrupa Pal	Narula Institute of Technology	Machine Learning Techniques for Prediction of Heart Disease

23	WBSSTC/2024-25/R6/EST/082440	Debarsh Datta	MAKAUT	Design and Implementation of Multirate Filter for Next Generation Wireless Applications
24	WBSSTC/2024-25/R6/EST/122026	Supratim Gupta	Jadavpur University	Nilgiri Tahr Optimization in Economic Load Scheduling: A new approach
25	WBSSTC/2024-25/R6/EST/115314	Sandipan Sinha	Jadavpur University	Investigating Transformation of Commercial Centres in Sub-Urban Towns of West Bengal: Establishing Pertinence of Study
26	WBSSTC/2024-25/R6/EST/101651	Raj Mishra	Narula Institute of Technology	Smart Trash Segregator
27	WBSSTC/2024-25/R6/EST/124816	Subhranil Das	Techno International Newtown	Integration of IoT and AI/ML Systems for Pollution Control
28	WBSSTC/2024-25/R6/EST/093636	Pritha Das	Techno India University WB	Nano-Enhanced Concrete: The First Step towards Unprecedented Durability and Sustainability.
29	WBSSTC/2024-25/R6/EST/114435	Swarnendu Bhattacharya	Heritage Institute of Technology	Advanced Imaging Technologies for Improving Early Detection and Diagnosis- A review