



**ALL INDIA SEMINER ON SUSTAINABLE
TECHNOLOGIES AND GREEN INITIATIVE (STGI-2025)**



Day 1: 17 July 2025				
Inaugural Program				
10:30 AM – 11:00 AM	Lighting of the lamp Introductory address- Dr. Arup Mondal Welcome Address- Er. Safikul Islam Felicitation of Chief Guest & Guest of Honor Address by Guest of Honor – Dr. A. Ganguly, Chief Scientist, CMERI Address by Chief Guest – Mr. Pranab Kumar Ghosh, MD, SBSTC Release of the Souvenir Vote of thanks- Dr. Arup Mondal			
Technical Session I, Venue: Seminal Hall (Room no.- 208), DIATM				
11:00 AM – 11:30 AM	Keynote Address	Speaker : Dr. D.R Kisku, Associate Professor, Dept. of Computer Science & Engineering, National Institute of Technology, Durgapur Title: Enhancing Image Captioning for Visually Impaired Persons		
11:30AM – 11:45AM	TEA BREAK			
11:45AM– 12:15 PM	Invited Lecture	Speaker : Dr. S. Sahoo, Associate Professor, Dept. of Physics, National Institute of Technology, Durgapur Title: ANOMALOUS QUANTUM HALL EFFECT IN GRAPHENE		
Paper Presentations				
12:15 PM – 01:05 PM	Chairperson: Dr. D.R Kisku, Dr. S. Sahoo	Speaker	Time	Title of the talk
		Dr. Moumita Mahanti	12:15 PM - 12:25 PM	Effects of temperature on BaZrS ₃ Based solar cells: SCAPS – 1D Simulation
		Ms. Debolina Bhattacharya	12:25 PM – 12:35 PM	A Secure and Imperceptible Medical Image Watermarking Technique Using SHA-256 and Region-Based Embedding
		Mr. Braj Kishor	12:35 PM – 12:45 PM	Integrating Deep Learning and Object Detection: A YOLOv8-Based Study for Handwritten Digit Analysis
		Mr. Susanta Gorai	12:45 PM – 12:55 PM	Drone-Based Intelligent System for Real-Time ET Sensing and Precision Irrigation Management
		Mr. Piyush Singh	12:55 PM – 01:05 PM	PLASTECURE: A Smart and User-Friendly Dispensing Machine for Plastic Bottle Recycling
01:10 PM – 02:10 PM	Lunch Break			

Technical Session II, Venue: Seminal Hall (Room no.- 208), DIATM				
02:10 PM – 02:40 PM		Invited Lecture		Speaker : Prof. (Dr.) Sanjib Kumar Datta, Department of Mathematics, University of Kalyani Title : SOME GLIMPSES ON ROUGH SETS AND ROUGH LOGIC
Paper Presentations				
02:40 PM – 03:20 PM	Chairperson: Prof. (Dr.) Sanjib Kumar Datta	Speaker	Time	Title of the talk
		Mr. Ashim Kumar Choudhury	02:40 PM– 02:50 PM	SOME ASPECT ON FUZZY LOGIC: A BRIEF INTRODUCTION
		Mr. Mohit Sarkar	02:50 PM- 03:00 PM	RELATIVE ORDER AND RELATIVE LOWER ORDER OF BICOMPLEX VALUED ENTIRE FUNCTIONS
		Mr. Sayan Jana	03:00 PM – 03:10 PM	ON MAXIMUM MODULUS THEOREM OF MULTICOMPLEX VALUED FUNCTIONS
		Mr. Tanmoy Ghosh	03:10 PM – 03:20 PM	TIME SERIES ANALYSIS OF CLIMATE CHANGE AND ENVIRONMENTAL DEGRADATION
03:30 PM – 04:00 PM		Invited Lecture		Speaker : Dr. A. Bhattacharya, Chairman and Managing Director, MultiSpectra Consultants, Kolkata Title : Arsenic Contamination in the Groundwater of India and Bangladesh and Concrete Construction incorporating Arsenic-Laden Sludge as Admixture
04:00 PM-04:15 PM		TEA BREAK		
Technical Session III, Venue: Seminal Hall (Room no.- 208), DIATM				
Paper Presentations				
04:15 PM– 05:15 PM	Chairperson Prof. (Dr.) Subratanath Koner (Online) Mr. Priyabrata Bhattacharjee	Dr. Soumyajit Ghorai	04:15 PM– 04:25 PM	RECYCLING SCRAP RUBBER INTO GREEN TYRE APPLICATIONS
		Dr. Tanmoy Maity	04:25 PM – 04:35 PM	PALLADIUM(II) COCRYSTAL COMPLEX: SYNTHESIS, CHARACTERIZATION AND CATALYTIC C–C CROSS-COUPPLING REACTION
		Ms. Deeya Bandyopadhyay	04:35 PM – 04:45 PM	VALUES-ACTION GAP IN SUSTAINABLE BRAND ENGAGEMENT AMONG GEN Z AND MILLENNIALS
		Dr. Mainak Nayak	04:45 PM- 04:55 PM	THE INFLUENCE OF GREEN SUPPLY CHAIN STRATEGIES IN MANUFACTURING COMPANIES: EFFECTS ON COMPETITIVE EDGE AND PERFORMANCE

04:15 PM– 05:15 PM	Chairperson Prof. (Dr.) Subratanath Koner (Online) Mr. Priyabrata . Bhattacharya	Mr. Prabuddha Jyoti Chatterjee	04:55 PM- 05:05 PM	Societal Aspect of Sustainability Accounting
		Dr. Susanta Koley	05:05 PM- 05:15 PM	FUNDAMENTAL REQUIREMENTS FOR ADAPTATION OF NEW PRINCIPLES- BASED 'RDA' IN MANAGING DIGITAL RESOURCES IN LIBRARY AND INFORMATION SERVICES

Day 2: 18 July 2025				
Technical Session IV, Venue: Seminal Hall (Room no.- 208), DIATM				
10:30 AM – 11:00 AM	Invited Lecture	Speaker : Dr. S.N. Mahato, Professor, Electrical Engineering Dept., National Institute of Technology, Durgapur Title: Analysis and control of induction generator for micro-hydro application.		
11:00 AM – 11:30 AM	Invited Lecture	Speaker : Prof. (Dr.) Biplab Biswas, Department of Geography, The University of Burdwan Title : NATURE-BASED FLOOD MITIGATION IN KOLKATA AND ITS PERIPHERY: A GREEN INFRASTRUCTURE PERSPECTIVE		
11:30 AM – 11:45 AM	TEA BREAK			
Technical Session V, Venue: Room no.- 205, 1 st floor, DIATM				
Paper Presentations				
11:45 AM – 12:30 PM	Chairperson Dr. S.N. Mahato, Dr. S. Halder	Speaker	Time	Title of the talk
		Mr. Arkadeep Mondal	11:45 AM – 11:55 AM	FAULT LOCALIZATION DURING POWER SWING USING RADIAL BASIS FUNCTION NEURAL NETWORK
		Mr. Yeswant Das	11:55 AM – 12:05 PM	IMPLIMENTATION OF A SELF-DEFENSE AND FOOTSTEP-BASED RECHARGEABLE POWER GENERATING SHOE
		Ms. Kumkum Dey	12:05 PM – 12:15 PM	RE-NATURING OF WATERBODIES USING NATURE BASED SOLUTION -A STUDY IN RANAGHAT-I BLOCK, NADIA, WEST BENGAL

		Mr. S. K. Dey	12:15 PM – 12:25 PM	OPTIMIZED MULTI-REGION HEAT AND POWER DISPATCH WITH ADAPTIVE HYBRID ARTIFICIAL BEE COLONY ALGORITHM
		Mr. Sajal Manna	12:25 PM- 12:35 PM	IOT BASED HEALTH CARE MONITORING AND REMOTE DOCTOR VISIT SYSTEM
Technical Session VI, Venue: Seminal Hall (Room no.- 208), DIATM				
12:30 PM – 01:00 PM	Invited Lecture	Speaker : Dr. T.K. Gupta, Former Chief Engineer & Chief Technical Advisor, West Bengal Pollution Control Board, Govt. of West Bengal Title: Environmental Issues Challenges and Regulations in India to Achieve Sustainable Development.		
01:00 PM-01:30 PM	Invited Lecture	Speaker : Dr. S. Pal, Associate Professor, Dept. of Civil Engineering, National Institute of Technology, Durgapur Title: SUSTAINABLE TECHNOLOGIES FOR INFRASTRUCTURE: APPLICATIONS OF NANO-COMPOSITE JUTE GEOTEXTILES IN GREEN CIVIL ENGINEERING PROJECTS		
01:30 PM-02:00PM	Invited Lecture	Speaker : Dr. S. Halder, Superintending Engineer (A-I) ,Water Resources Investigation & Development Dept., Govt. of West Bengal Title: IOT and Machine Learning Based Sustainable Smart Irrigation Technology with Cloud Integration		
02:00PM-03:00 PM	Lunch Break			
Venue: Seminar Hall, Room No.- 208, DIATM				
03:00 PM – 03:20 PM	Valedictory Session			
03:20 PM – 03:30 PM	Concluding Remarks			
03:30 PM – 03:40 PM	Vote of Thanks			
03:40 PM – 04:00 PM	Tea & Snacks			