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ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH
TECHNO CAMPUS, GHATIKIA, BHUBANESWAR - 751 029

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NOTICE

The annual OUTR Research Conclave will henceforth be known as ShodhDhara.
All future updates and correspondence will be communicated accordingly.

The list of abstracts selected for oral and poster presentations for ShodhDhara is now available. Please prepare your presentations according to the guidelines previously issued vide Notice No.1032 dated 22.01.2026. The full presentation schedule will be released shortly.

A. A. Chy
21/2/26

PIC, ShodhDhara-2026

Mode of Presentation- Poster				
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2	Divyagni Divyajyoti	BT	Valorization of Indian Major Carp Viscera for Fish Protein Hydrolysate Production: A Sustainable Approach to Aquatic By-Product Utilization	PP-3:
3	P Satabdi Patra	BT	Polymorphism: A greener way to tune the physicochemical properties of material	PP-4:
4	Pradyota Ayisharika	BT	Production of Sustainable Bioplastic from Coconut Husk: A Green Approach to Convert Agricultural Waste into Eco-Friendly Materials	PP-5:
5	Ankita kumari Rath	BT	Computational Analysis of the Kinetics and Regulation of Hexokinase in Human Red Blood Cells	PP-6:
6	Ashutosh Mohapatra	BT	Computational Fluid Dynamic Modeling of Flow-mediated ATP Transport in Coronary Vascular Networks	PP-7:
7	Monalisa Das	BT	Exploring the Significance of Biomarker Genes of Coronary Artery Disease using Integrative Bioinformatics Analysis	PP-8:
8	Preetinanda Sahoo	BT	Understanding the Molecular Mechanism of Hb-Transition and Allostery: Insights from Salt Bridge Analysis	PP-9:
9	Bhabesh Kumar Panda	BT	Process Validation and Characterization of Biopolymer Chitosan from Aquatic By-products	PP-10:
10	Soumya Sephalika	BT	Screening and Biochemical Characterization of Indigenous Monocrotophos-Degrading Bacteria Across Variable Concentration Levels	PP-11:
11	Harapriya Sethy	BT	Phytochemical Profiling and Biogenic Synthesis of Copper Oxide Nanoparticles from Lantana camara Leaves	PP-12:
12	Sanjita Rani Mondal	BT	Identification of Novel Antidiabetic Leads from Sonneratia species: An Integrated in Silico ADMET and Molecular Docking Study	PP-13:
13	Arnab Moulik	SBSH	Harnessing the potential of Chitosan Schiff base nanocomposite hydrogel towards effective catalytic degradation of organic pollutants	PP-21:

14	Smruti Krushna Choudhury	SBSH	Facile Synthesis and Characterization of Iron Oxide Quantum Dots	PP-22:
15	Smruti Samruddhi Bhukta	SBSH	Biopolymer-based edible coating enriched with orange peel essential oil: Application in chicken meat preservation	PP-23:
16	Swatishree Jena	SBSH	Computational Insights into the Kinetics and Mechanism of $Mn^{III}(salpd)(OH_2)_2$ -complex Reduction by Oxalic Acid: Role of the Methylene Spacer	PP-24:
17	Kumar Sritam	SBSH	Fabrication of Nanocomposite (CuS-gC ₃ N ₄) For Photocatalytic Energy Application	PP-25:
18	Sambit Kumar Ghadai	SBSH	Structure, Morphology and Optical Properties of Gadolinium doped Cobalt Ferrite (CoFe ₂ O ₄)	PP-26:
19	Arpeet Ranjan Samantaray, Srikrut Mishra	SBSH	Experimental and Numerical Investigation of Water Rocket Propulsion : An Aerodynamic Analysis	PP-27:
20	Srusti Samikshya Dash	SBSH	Role of Na ⁺ Co-doping on the Structural and Optical Properties of Ce ⁴⁺ /Dy ³⁺ Activated CaZrO ₃	PP-28:
21	Bishal Santak Bhoi	SBSH	Structure-property correlation in Dy ³⁺ /Sm ³⁺ co-doped barium zirconate perovskite systems	PP-29:
22	Arpita jit	SBSH	Tailoring the Properties of Barium zirconate ceramic through Rare-earth Doping: Structural and optical studies	PP-30:
23	Sonali Mohaptra	SBSH	LANTHANUM-BASED DOUBLE PEROVSKITE AS AN EFFICIENT ADSORBENT FOR ENVIRONMENTAL REMEDIATION	PP-31:
24	Anupam patra	SBSH	Tuning Structural, Optical Band Gap and Dielectric Behavior in Dy ³⁺ Doped NiFe ₂ O ₄ -Ba _{0.5} Ca _{0.5} TiO ₃ Multiferroic Composites	PP-32:
25	Debashreemayee Das	SBSH	Re- Examining Mother-Daughter Relationship: A New Perspective on Feminism in Avni Doshi's Burnt Sugar	PP-33:
26	Aurosmitta Swain	SBSH	Design and Molecular Docking Study of Pyrrolo-[2,3-d]pyrimidine Derivatives as Inhibitors for 1M17 Protein in Cancer Treatment	PP-34:
27	Ashirbad Dash	SBSH	Understanding the Effect of Steroidal Surfactants on the Structure and Properties of Lysozyme	PP-35:

28	Baishakhi Biswal	SBSH	Effect of Orthoferrite Substitution on the Structural, Optical, and Dielectric Properties of Spinel Ferrites	PP-36:
29	Sruti Sayana Sarangi	SBSH	Lithium Doped Zinc Oxide nanorods: a promising strategy for environmental remediation	PP-37:
30	Latasha Khatai	SBSH	Development of Novel 2D- α -Bi ₂ O ₃ Nano-adsorbent for Removal of Organic Pollutant from Polluted Water	PP-38:
31	Soumya Bikash Mohanty	SBSH	Topological insulator: A New Phase of Matter	PP-39:
32	SNEHASIS BISWAL	SBSH	Biogenic synthesized CaCO ₃ nanoparticles: Assessing dye degradation potential, phytotoxicity and antibacterial textile application	PP-40:
33	Ranjita Patra	SBSH	Literary Ecologies and Lived Experience: A Reading of The Fanged Waters	PP-41:
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36	Soumya Ranjan Mahanta	SoCS	Weakly Supervised Detection of Security Relevant Warnings in Medical Device Manuals Using Quantum Inspired Structural Features and Gradient Boosting	PP-54:
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47	Samikshya Mishra	SES	Advanced Nanomaterial Design Strategies for High-Performance Supercapacitors based on Fractional Order Modeling	PP-77:
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49	Hemanta Kumar Dash	SoEIS	A Real-time Crop Recommendation System using Soil Sensor, Environment Parameter and AI/ML	PP-95:
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53	Arya Suman Pattnaik	SoEIS	CuO Nanomaterials-based Ultra-Low Order ($\alpha \approx 0.01$) Fractional-Capacitor for Stability Improvement in Nuclear Reactors	PP-99:
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59	Kalinga Jagannath	SoEIS	Algorithmic Evaluation of Soil Nutrient and Moisture Data for Precision Agriculture Using Machine Learning Techniques	PP-105:
60	Subrat Kumar Prusty	SoEIS	Strategy for Total Development of Local Areas (TODOLA) with 5G+Standard Operating System for Indian Languages (SOIL)	PP-106:
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62	Ashutosh Kumar Swain	SoEIS	Design of 8-Bit Modified Dadda Multiplier Using Approximate Computing	PP-108:
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66	Saurav Raut	SoIP	A Sociological Study on Work Culture and Livelihood Pattern of Gig Workers of Gig Economic Sectors in Bhubaneswar City, Odisha	PP-123:
67	Rohan Dhal	SoIP	Children's Active Mobility to School: Evidence from Neighbourhoods of Bhubaneswar	PP-124:
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71	Soumya Ranjan Sahoo	SoIP	Parametric Investigation of Chord Spacing in Cold-Formed Steel Battened Columns under Axial Loading	PP-128:
72	Soumya Kar	SoIP	An efficient urban water management practice based on optimum LPCD estimated using the MLR-GA optimization approach	PP-129:

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77	Snehasis Biswal	TE	Biogenic synthesized CaCO ₃ nanoparticles: Assessing dye degradation potential, phytotoxicity and antibacterial textile application	PP-147:
78	DEBESH KUMAR DAS	TE	Energy-Ecology efficient low-salt reactive dyeing of cotton using gahnite nano-particles synthesized from fly ash	PP-148:

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5	Smita Mohanty	SBHS	Between Human and Machine: Literary Interrogations of Technological Power and Agency	OP-17:
6	Satyabrata Swain	SBHS	Crystal structure refinement, Optical and Dielectric investigations of ErFeO ₃ substituted CoFe ₂ O ₄ for Potential Industrial Applications	OP-18:
7	Ankitapuja Pradhan	SBHS	Application of Simplex Method on Agriculture	OP-19:
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10	Kumar Janardan Patra	SoCS	Enhanced Multi-Cancer Diagnosis using a Fine-Tuned Transformer-VGG19 Approach	OP-43:
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12	Swarnalata Pati	SoCS	A Blockchain-Enabled Supply Chain Management Framework with Consensus-Aware Performance Analysis	OP-45:
13	DIPAK KUMAR SAHOO	SoCS	Adaptive Segmentation of Fetal Head Structures in Ultrasound Images Through Multi-Model Deep Learning Approach	OP-46:
14	Bichitra Mandal	SoCS	A Novel Hybrid AI Framework for Real-Time Cognitive Load Modeling and Mental Health Assessment Using EEG	OP-47:
15	Rakesh Ranjan Behera	SoCS	SHA256-Based Route Integrity Verification in Digital Microfluidic Biochips	OP-48:

16	Swati Lipsa	SoCS	Multi-Agent Deep Reinforcement Learning for Pareto-Optimal Task Offloading in Edge-Cloud Computing	OP-49:
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21	Lalbahadur Majhi	SoES	Design and Optimization of AVR and VI - Integrated Microgrid with PID and TID Controllers for Frequency Regulation and Voltage Stability Using Particle Swarm Optimization	OP-65:
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25	Rachita R Sarangi	SoES	Multi-Objective Meta-Heuristic Optimization of R–L–C Fault Current Limiter for Enhanced Protection in DC Microgrids	OP-69:
26	Jogeswara Sabat	SoES	Improving Utility Systems' Power Quality with Adaptive Algorithm-Based DSTATCOM	OP-70:
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34	Abhyarthana Bisoyi	SoEIS	Implementation of High-Speed and Low Power Modified Vedic Multiplier Using Hybrid Adders	OP-81:
35	Satyabhama Dash	SoEIS	Analysis of Cement ageing effects using fractional order modelling	OP-82:
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40	Jyotiprakash Behera	SoEIS	Hybrid Homotopy-Stochastic Optimization for Phase-Constrained Beam Broadening in Uniform Planar Arrays	OP-87:
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44	Naresh Chandra Naik	SoEIS	Polarization Diverse Dual band Metasurface inspired Wearable antenna for Reliable 2.45/5.8 GHz Body-centric Communications	OP-91:
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50	Aishwarya Gayatri	SoIP	EXPERIMENTAL INVESTIGATION ON STABILISATION OF EXPANSIVE SOIL	OP-113:
51	Sunanda Sahoo	SoIP	ENERGY PERFORMANCE ANALYSIS OF BIM-BASED BUILDING MODEL USING REVIT, AUTOCAD AND eQUEST	OP-114:
52	Simran Senapati	SoIP	Substituting sugarcane bagasse, silica fume, and glass fibre for partially replaced cement: a strength study	OP-115:
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54	Sambit Parida	SoIP	Experimental And Numerical Investigation Of Flow Characteristics Over A Weir In Open Channel	OP-118:
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59	GOPAL KRUSHNA DAS	SoMS	Development and Demonstration of an effective bulletproofing glass using numerical simulation and experimental validation	OP-132:
60	Jashaswi Supriya Satpathy	SoMS	Hybrid Optimization of Laser Drilling for Al 6063: Integrating Taguchi Design with Machine Learning for Predictive Parameter Control	OP-133:
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64	Abhijit Mohanty	SoMS	Free and Forced Vibration Characteristics of Multi-Fabric Bi-Directional Functionally Graded Composite Sandwich Plates	OP-138:
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