

ANVESHAN-Student Research Convention: South Zone

A two-day South Zone Student Research Convention: *ANVESHAN* was organised by the Association of Indian Universities (AIU), New Delhi in collaboration with SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu from February 19-20, 2024. The event served as a platform for students to showcase their research endeavors, promoting academic collaboration and knowledge exchange. A total of 45 student teams, comprising 91 students with their mentors, participated in the South Zonal *Anveshan* after being selected in the university-level competition from across Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, and Puducherry. The project competition spanned six categories: Agriculture, Basic Sciences, Engineering and Technology, Health Sciences, Social Sciences, and Interdisciplinary. There were 18 expert members, three for each category, invited to evaluate the projects competing in the event.

The event commenced with the Inaugural Ceremony where the gathering was welcomed by Dr. T V Gopal, Dean (CET) of the Institute and Host Institute Convener of the event. The Convenor, Dr. Amarendra Pani, Joint Director and Director (I/c), Research Division, AIU provided insights into the background of *Anveshan* and the role of AIU in promoting research initiatives. The Organizing Secretary of the event, Mr. S Chezhiyan, Assistant Professor, Civil Engineering addressed the glimpses of *Anveshan 2023*.

Prof. C Muthamizhchelvan, Vice Chancellor of SRMIST emphasized the importance of fostering a research mindset among undergraduate students. He stressed the significance of interdisciplinary research in addressing real-world challenges, encouraging students to look beyond domain-specific studies in his inaugural address. The Coordinator, Dr. Usha Rai Negi, Assistant Director, Research Division, AIU, Dr. B Neppolian, Host Institute Convener of the event, and Dean of Research, Dr. K Vijayakumar, Coordinator of the event and Dean of School of EEE of SRMIST graced the occasion.

During the morning session, each team presented their prototype, model, and poster in front of the expert members and other visitors to the event. In the afternoon sessions, all the teams were called for podium presentations in front of three expert members from their respective categories. This round occurred in six different venues as parallel sessions. The projects were evaluated based on Scientific Thought, Novelty, Thoroughness, Skill, Relevance, Cost-Effectiveness, and Teamwork. Additionally, the potential for commercialization was considered for some weightage where required.

Three winners, First, Second, and Third Positions were selected in each category and felicitated in the valedictory ceremony of the event. The winners of the South Zone were invited to compete in the International Convention of *Anveshan* 2023.

In the Valedictory Function, Dr. B Neppolian, Host Institute Convenor of the event and Dean of Research welcomed the gathering. Dr. K Vijayakumar, Coordinator and Dean of School of EEE of SRMIST presented the Report of *Anveshan* and extended thanks to all the participants, faculty organizers, student organizers, and AIU officials for their support in making this event a success. Dr. T Mythili, Additional Registrar of SRMIST, delivered the valedictory address and felicitated the winners along with all other dignitaries on the stage. Convenor, Dr. Amarendra Pani proposed the Vote of Thanks and officially invited the winners to the International Convention.

Winners of South Zone *Anveshan*

Agriculture

Winning Position	Title of the Project	Name of Participants	University/Institution
I	Green Solution: Smart Film Combatting Soil Degradation	Monika S	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu
		M S Priyadharshini	
II	Biosurfactant for Sustainable Agriculture: Rhamnolipids to Manage Crop Diseases	R Lokesh	Annamalai University, Annamalainagar, Chidambaram Tk, Cuddalore (TN)
		V Ajaydesouza	
		V Sathiya Aravindan	
		T Jaya Ranjani	
III	Smart precision agricultural system	Shivadarshini S	SRM Institute of Science & Technology (Deemed to be University), SRM Nagar, Kattankulathur, Kancheepuram (TN)
		Venkataraman P	
		Abdul Rahim M	
Basic Sciences			
I	Development of a Detection Protocol for Circulating Tumor Cells and Drug Profile Analysis Using a Multidrug-resistant Cancer Model	Shubham Singh	Annamalai University, Annamalainagar, Chidambaram Tk, Cuddalore (TN)
II	Appraising the Crop Health Response to Water Stress from Enhanced Crop and Soil Water Estimates Using SAR Data and Machine Learning Approaches	Neena M Gopi	SRM Institute of Science & Technology (Deemed to be University), SRM Nagar, Kattankulathur, Kancheepuram (TN)
III	Biochar - A Novel Approach for Soil Remediation	Dhadchayani M	Justice Basheer Ahmed Sayeed College for Women, University of Madras
		Badar Fathima S	

		Vasanthalakshmi J	
Engineering and Technology			
I	Ecoflow	Harikrishnan M	Manakula Vinyager Institute of Technology, Pondicherry University
II	Smart Parking System	Anand Kumar	SRM Institute of Science & Technology (Deemed to be University), SRM Nagar, Kattankulathur, Kancheepuram (TN)
		Shubh Patel	
		Jay Kumar Patel	
		Chirag Gupta	
III	Vehicle Detection and Classification using Deep Learning to Estimate Traffic Volume	Srivatsan S	Anna University, Sardar Patel Road, Chennai (TN)
		Gopika S R	
Health Sciences			
I	Brainwave Entrainment-Sound to which your Mind sways!	Areef Farah Shehani	SRM Institute of Science & Technology (Deemed to be University), SRM Nagar, Kattankulathur, Kancheepuram (TN)
		Sidra Ahmad Siraj	
		Kuheli Panja	
		Lalitha Priya	
II	The Comparison of Bispectral Index Value Under Spinal Anaesthesia in Elderly Patients With Bupivacine vs Bupivacine and Fentanyl -A Randomized, Double-Blinded Clinical Study	Dr Jeniffer Karan	Vinayaka Mission's Research Foundation, Sankari Main Road (NH 47), Ariyanoor, Salem (TN)
		Dr Santhiya C	
		Dr Keerthana Kodur	
		Kandhashree J	
III	Simplified Miniplate Modification- Enhancing Mandibular Angle Fracture Treatment Outcomes	Khyathi Reddy	Dr. YSR University of Health Sciences (Formerly Dr. NTR University of Health Sciences), (AP)
Interdisciplinary			
I	An Edible Biopolymer Composite Film for Enhanced Resistance to Post-Harvest Onion Wastage	Kavisree U	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu
		Pon Nivetha A	
II	Low-Cost Optics and Smartphone Imaging Platform Using Electroluminescence Illumination for Biomedical Applications	Manikanth Karnati	Manipal Academy of Higher Education, Madhava Nagar, Manipal, (Karnataka)
III	Invigorating Eco-Empathy by Adopting the Synergy of Biofloc Technology through Multipurpose Portable Jala Siriâ Tanks and Developing Green Careers in Indian Terrain	Sinthanaiselvi S	Annamalai University, Annamalainagar, Chidambaram, Cuddalore (TN)
		S Kumaravel	

Social Sciences			
I	Wholesome Delights for Health-Conscious Indulgence	R Krithika	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu
		M Haritha	
II	The Prominent Role Mental Health Literacy and Resilience in Preventing Suicides among Adolescents	Madhurya Dudyala	Annamalai University, Annamalai Nagar, Chidambaram, Cuddalore (TN)
		Asna Anzary	
		G Koushik	
III	Danger Alert Device Using IoT	Shiyam Prakash	SRM Institute of Science & Technology (Deemed to be University), SRM Nagar, Kattankulathur, Kancheepuram (TN)
		Parthiban	
		Ajai Jones	