

ANVESHAN-Student Research Convention: West Zone

A two-day West Zone Student Research Convention— *ANVESHAN 2023* was jointly organized by the Association of Indian Universities (AIU), New Delhi and the Department of Computer Science & the Department of Students Development, Shivaji University, Kolhapur (SUK), Maharashtra from December 28-29, 2023. The *ANVESHAN* provides an opportunity for university students worldwide to co-develop and co-present innovative ideas in partnership with university students in India.

The event was inaugurated by Vice Chancellor, Prof. D T Shirke and Dr. Amarendra Pani, Joint Director and Director(I/c) Research Division, AIU in the presence of Prof. P S Patil, Pro-Vice Chancellor, Dr. Usha Rai Negi, Assistant Director, Research Division, AIU, Dr. V N Shinde, Registrar, Shivaji University, Kolhapur, Dr. M S Deshmukh, Dean, Faculty of Humanities, Dr. P T Gaikwad, Director of Department of Student's Development. Around 11 universities, 64 projects and 106 students from Maharashtra and Gujarat participated in the event. The event was categorized into 6 areas, i.e. Agriculture, Basic Sciences, Engineering & Technology, Health Sciences and Allied Subjects, Pharmacy, Nutrition, Social Sciences, Humanities, Commerce and Law, and Interdisciplinary Research. The event included research projects based on innovative concepts from graduate level to PhD researchers. The research projects were presented under various fields of Basic and Applied Sciences, Engineering and Technology, Agriculture and Allied Fields, Health Sciences and Allied Fields, Social Sciences, Humanities, Commerce, Business Management, and Law. These include Biosensors, Automated Harvesting Machines, Sensory Chairs, Advanced Technology Bulbs, Modern Aero-Cells, Pharma ATMs for Medicines, Pipeline Fault Detectors, Electricity Prepaid Meters, Power Theft Detectors, Advanced Thin Film Deposition, Medicinal Scented Candles, Alambi Saka. Various targeted research projects and posters included 3-D printing, making pots from grass and fibre roots, auto compostable sanitary pads, sleeping bags for children in rural areas, drug delivery gel through the nose to the brain, gender-neutral Oshtha Shalaka, the pension scheme for farmers. Many of these researches have even gone as far as patents.

The PowerPoint presentation was done to focus the projects from a different angle. The event was followed by the Valedictory Function. The Valedictory Function was graced by Vice Chancellor, Prof. D T Shirke and Dr. Amarendra Pani in the presence of other dignitaries.

Dr. Pani said that the Exploration Research Festival is emerging as a popular forum among the research youth across the country. Before 2007, there was no research, innovation or innovation promotion competition in the country except for the Invention Research Competition in Maharashtra. To address this shortcoming, the Federation of Indian Universities started organizing Exploratory Research Festivals across the country. It is getting a huge response from the young researchers of the country and quality research have been realized through it. He informed that the scope of this competition is now being extended to the international level and it will be organized in three ways as national research competition in which international research students will participate, an international competition in which national researchers will participate and national and international youth researchers will also be able to participate individually.

The Vice Chancellor, Prof. DT Shirke said that when researching a topic, we answer many questions easily. However, young researchers should try to find the answers to the simple questions of common people, which we cannot answer so easily, in the future life. Instead of running away from troubling questions, face them head-on. Development is a very broad concept. He also urged that every researcher should find the definition of development for his own research and work to achieve that development.

On this occasion, Pro-Vice Chancellor Prof. P S Patil said that young researchers should try to convert the innovative concepts presented in the research festival into socially useful technologies and low-cost commercial applications. Dr. V N Shinde, Registrar and Dr. P T Gaikwad, Director, Department of Students Development present. Initially, Dr. Kavita Oza welcomed and introduced the Chief Guest, followed by Dr. K G Kharade who presented a brief report of the event. Dr. Rajendra Atigre announced the results of all the categories. Ms. Shruti Bhapkar worked as an anchor of the valedictory event, while Dr. V S Kumbhar proposed a Vote of Thanks. A large number of subject experts, team heads, examiners from all over the country, teachers from the coordinating team, administrative servants, and research students from two states of the western region attended the event. A group photo was taken after the valedictory function.

Category-wise Result of the ANVESHAN

Humanities, Social Sciences

Rank	Name of the Participants	Institute Name	Title
1	i) Khedkar Prathamesh Pandit	Savitribai Phule Pune University	Innovative Onion Storage Management
2	i) Pandey Gaurav Onkarnath ii) Jagatkar Rutuja Nagsen iii) Kumari Sneha iv) Kewalramani Ginni Sunil	University of Mumbai	ऑचल :A Reusable, Eco-friendly Sleeping Bag for Battling Neonatal Hypothermia in Rural Areas
3	i) Harshali Rathod ii) Shivani Narsikar iii) Prem Bidve	MGM University, Chhatrapati Sambhajinagar, Aurangabad	Green Synthesis Of Nanoparticles By Using Carica Papaya And To Study Their Biochemical Applications

Health Sciences Category

Rank	Name of the Participants	Institute Name	Title
1	i) Sopan N Nangare	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	Fabrication of Surface Decorated Graphene Oxide Nanocomposites for Label Free Prognosis of Alzheimer's Disease
2	i) Mahale Manas Moreshwar	University of Mumbai	Masked Language Models are Fragment Based Drug Designers
3	i) Anushka Vishwanath Shinde ii) Shreya Uday Lohakare iii) Nikhil Pratap Marathe	Savitribai Phule Pune University, Pune, Maharashtra	SILOSTAT - AN Innovative Lifesaving Hemostat for Emergency Situations

Basic Science

Rank	Name of the Participants	Institute Name	Title
1.	i) Ms Sargun Tushar Basrani	D. Y Patil Education Society, Deemed to be University, Kolhapur	Mefloquine as Inhibitor of Ergosterol Biosynthesis Pathway in Candida Albicans
2.	i) Avanti Atul Puranik ii) Shrawani Deepak Nighot iii) Pradnya Mahavir Magdum	Savitribai Phule Pune University, Pune	REVI GREEN - An Auto-Compostable Sanitary Pad for Green Earth
3.	i) Surjeet Ghanshyam Adagale	Shivaji University, Kolhapur	Synthesizing Bioplastic and Vegan Leather

Engineering and Technology

Rank	Name of the Participants	Institute Name	Title
1.	i) Leena Rajendra Chaudhari	D. Y. Patil Education Society, (Deemed- to-be- University), Kolhapur	Tissue Engineered Ear Pinna
2.	i) Tony Tom Thomas ii) Justina Chetan Chaturvedi iii) Razi shaikh	Dr. Homi Bhabha State University, Mumbai	Advancing Thin Film Deposition: Designing and Fabrication of an Automated Silar-CBD Instrument with PC Interface
3.	i) Patel Deepkumar Jayeshbhai	Ganpat University	Pipeline Inspection

	ii) Patel Manan Navinbhai iii) Patel Zeel Shaileshbhai iv) Patel Hilay Mukeshbhai		Device
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Agriculture

Rank	Name of the Participants	Institute Name	Title
1.	i) Yadav Om Manoj	University of Mumbai	SacoPeat™: A Novel Potting Media
2.	i) Shankar More ii) Sainath Suryawanshi	Swami Ramanand Teerth Marathwada University, Nanded	Novel Film Forming Spray for the Treatment of Mastitis in Cows
3.	i) Bhavik D Chaudhary ii) Dhruv S Soni., Patel iii) Mitkumar Daxeshkumar iv) Amin Sahil Bakulbhai	Ganpat University	Extraction of Material from Mushroom Residue for 3D Printing

Interdisciplinary Research

Rank	Name of the Participants	Institute Name	Title
1.	i) Thombare Namadev Bhagwan	Savitribai Phule Pune University, Pune	Agro-based Weeding Machine
2.	i) Sanket Pawar ii) Deepanshu Sharma iii) Mawwiz Shaikh	MGM University, Chhatrapati Sambhajanagar, Aurangabad	Tongue Operated Wheelchair
3.	i) Tejas Patil	Kavayitri Bahinabai Chaudhari North Maharashtra University,	Happy Feet: Pedicure Nail Lacquer for Animal Foot Infections

		Jalgaon	
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After the completion of the event, a feedback form was shared with the participants and mentors, and the following observations were seen:

- 54.2% of participants were pleased with the event's location while 25% of participants thought that the venue was excellent. 16.7% of participants were dissatisfied with the event's location while 4.1% of participants thought the venue was average.
- It was found that 41.7% of participants were extremely satisfied with the catering and food options indicating that they were very pleased with the event's location. 33.3% of participants thought the menu was satisfactory while 25% of participants thought the menu was neutral.
- Around 44.4.7% of participants were extremely satisfied, indicating that they were pleased with the accommodation facility. The accommodation facility satisfied 38.9% of the participants. 8.3% of participants were dissatisfied with the accommodation facility.
- 47.2% of participants were extremely satisfied, indicating that they were very pleased with the transport facility. 33.3% of participants were satisfied with the transport facility and 16.7% of participants thought the transport facility was neutral.
- 47.2% of participants stated that the experts were excellent in their field. Expert expertise was rated as good by 19.4% of participants, average by 16.7%, and very poor by 11.1% of participants.
- 52.8.2% of participants said the overall experience was excellent. Overall experience was rated as good by 27.8% of participants, average of 16.7%.
- If such events are organized in the future, 69.4% of participants intend to attend and around 16.7% of participants are also interested in attending the event. 8.3% of participants are unsure whether they will attend such events in the future, but 5.6% will most likely not attend.

- 75.0% of participants said that the staff was very helpful and friendly. 16.7% of participants rated their overall experience as good, while 5.6% rated it as average. Overall 75% participants highly appreciated the event.