

ANVESHAN-Student Research Convention: North Zone

A two-day North Zone Student Research Convention—*ANVESHAN 2024* was organized by the Association of Indian Universities (AIU), New Delhi in collaboration with Sharda University, Greater Noida, Uttar Pradesh from January 19-20, 2024. About 32 innovative projects were showcased by students and their mentors. Projects showcased in the event were indeed exemplary and are expected to have a significant impact on society. 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 Inaugural Session commenced on January 19, 2024 and the ceremonial dais was honored by the presence of the Guest of Honor, Dr. Amarendra Pani, Joint Director and Director (I/c), Research Division, AIU who joined through online mode. Dr. Usha Rai Negi, Assistant Director, Research Division, AIU, Prof. Sibaram Khara, Vice Chancellor, Sharda University, Prof. Bhuvnesh Kumar, Dean Research, Prof. Mohit Sahni, Associate Dean Research and *Anveshan* Convenor, Dr. Lalit P Chandravansi, Assistant Dean, Research, Dr. Richa Tomar, Assistant Professor, Dr. Sandhya Gupta, Assistant Professor, faculty members and students of Sharda University with respected judges from different areas were also present.

Dr. Richa Tomar, Sharda University delivered her welcome address. Prof. Mohit Sahni, *Anveshan* Convenor and Associate Dean of Research, Sharda University, warmly welcomed all dignitaries with a deep sense of respect. He also interacted with the participants and mentioned that this research convention is very important from the research point of view and also highlighted that strengthening research acumen among students and faculty members is one of the prime activities of AIU.

Prof. Bhuvaneh Kumar, Dean of Research, Sharda University shared his thoughts on the upcoming trends in various fields. He also interacted with the participants and judges of the event. He explained that Sharda University gives importance to research-oriented events like *Anveshan* to raise the level of research in the university. He motivated all the participants and welcomed all of them to become a part of Sharda University through the Student Research Convention.

Guest of Honor, Dr. Amarendra Pani, Joint Director and Director (I/c), Research Division, AIU interacted through online mode and shared his thoughts on current and future research. Dr. Pani gave a brief background of AIU explaining how it was established. Furthermore, he shared that the Research Division of AIU as part of capacity- building activities, regularly organizes various seminars and conferences for strengthening Indian higher education. Last but not least, he motivated

the participants to take part in such kinds of events organized by other universities.

Prof. Sibaram Khara, Vice Chancellor Sharda University appreciated the students who participated in the *ANVESHAN* programme, he employed a storytelling method to explain the changing patterns in different sectors and the significance of upskilling students to keep up with the most recent advances. He emphasized every student is unique and also the importance of adapting an experiential learning pedagogy to meet the thrust for knowledge and learning approaches among students of different caliber.

Dr. Lalit P Chandravansi, Assistant Dean of Research, Sharda University extended the Vote of Thanks to all the speakers, judges mentors and faculty members of the *Anveshan*. He also welcomed all the participants and encouraged them for the presentation.

Poster Presentation of the participants held through which all the participants from different universities displayed their project posters, and equipment's working model which were assessed by the judges in their respective fields such as Agricultural Science, Social Science, Engineering and Technology, Basic Science, Health Science and Interdisciplinary Research followed by question and answer session.

On the second day, all the participants from various North Zone Universities displayed their oral presentations which were again assessed by the judges of respective six fields followed by a question and answer session. The presentations were assessed on the parameters such as scientific principles, creativity, relevance, thoroughness, cost- effectiveness, impact sociologically, teamwork, and skill. Keeping in mind the excellence and usefulness of the various research projects presented in the convention during the two days, judges scrutinized and declared first, second and third positions in different subject fields.

The Valedictory Function and Prize distribution of *ANVESHAN* was anchored by Dr. Richa Tomar and Dr. Sandhya Gupta. All the winners got the prizes and certificates according to their positions. Prof. Sibaram Khara, Vice Chancellor, Sharda University, Prof. Bhuvnesh Kumar, and Prof. Mohit Sahni congratulated the students for their presentation during the technical session, they addressed the participants about the importance of learning in the competition, being an ongoing phenomenon and advised them to have an open-ended approach for new experiences in life.

Dr Usha Rai Negi, Assistant Director, Research, AIU appreciated the students for their project presentations. She addressed the students about guidelines for participation in National Level competitions and motivated them with a fruitful path.

Both, Dr. Richa Tomar and Dr. Sandhya Gupta, Assistant Professors, Sharda University proposed the Vote of Thanks. They expressed their gratitude to the officials from the Association of Indian Universities. Prof. Mohit Sahni, Associate Dean Research and *Anveshan* Convenor acknowledged the participants, faculty mentors, and Judges for being a part of *ANVESHAN* wishing all the very best for future events and projects.

Winners of *Anveshan*

Category	Position	Participant's Name	University/ Institution	Topic/ Title
Agricultural Science	1st	Muskan Chadha	Sharda University Greater Noida, Uttar Pradesh	Development of low fat and antioxidant-rich synbiotic drink and spread using kefir and basil seed gum extract
	2nd	Aastha Dubey Prasun Kumar Singh Priyaranjan Raj Pragati Priya	Galgotias University, Gautam Buddh Nagar, Uttar Pradesh,	Exploring synergistic effects of peptone and MgSO ₄ concentrations for fast growth and increased Cordycepin production in culture medium of Cordyceps militaris: a bioprocess optimization study
	3rd	Joginder Ritik Himank Aryan	SGT University, Gurugram, Haryana	Kisan Alarm Suite
Interdisciplinary Research	1st	Puru Goel Manvi Singh Dipanjan Koley	SGT University, Gurugram, Haryana	Nanofibres of Wound Healing
	2nd	Harsh Sable Vaishali	Sharda University, Greater Noida, Uttar Pradesh	Bioremediation of Lead and Cadmium contaminated waste water by microbial filmed filter
	3rd	Paridhi Mridul sharma Prem Anurag	Galgotias University, Gautam Buddh Nagar, Uttar Pradesh,	Cancer Diagnostic Kit
Engineering and Technology	1st	Kalpana Sharma Rahul Kumar	Sharda University, Greater Noida, Uttar Pradesh	Microbial powered desalination system for portable water production and energy harvesting
	2nd	Guddu Kumar Somya Gupta Akif Khan Arpit Goyal	Galgotias University, Gautam Buddh Nagar, Uttar Pradesh,	Untraceable UAV Drone
	3rd	Tanish Bansal Rohit Yadav Ayush Kumar Jha	SGT University, Gurugram, Haryana	Recycling of metal Slag
Social Science	1st	Gunjan Chauhan Himanshu Sharma Nitin Kumar	SGT University, Gurugram, Haryana	Portable Video Comparator
	2nd	Kalash Sharma	Sharda University, Greater Noida, Uttar Pradesh	Efficient antimicrobial metal oxide- polymer Nanocomposite coatings for hospitals walls
	3rd	Mahak Jain	Bhagat Phool Singh Mahila Vishwadhalay, Sonapat, Haryana	Prestige for the masses

Health Science	1st	Dr Mannu Gupta Dr Partishtha Sharma Dr Aditi Rapriya Dr Angel Arora Dr Virender Singh	SGT University, Gurugram, Haryana	NasoCon: A nose shaping device after primary lip repair
	2nd	Shilpa Kumari	Sharda University, Greater Noida, Uttar Pradesh	Development of green nanoparticles for the treatment of osteoporosis under in-vitro model
	3rd	Himanshu Kumar Singh	ICAR- National Dairy Research Institute, Karnal, Haryana	Milk-flaxseed-based fermented beverage for female health: Development and Validation in ovariectomized murine model
Basic Science	1st	Kalpana Sharma Ankit Kumar	Sharda University, Greater Noida, Uttar Pradesh	Microbial electrolysis cell for the generation of green hydrogen from agriculture waste
	2nd	Nishi Gautam Siya Bharti Ankit Mehta	SGT University, Gurugram, Haryana	Design and synthesis of multi- targeted novel kinase inhibitors
	3rd	Pratibha Tanisha Tamanna Tannu	Bhagat Phool Singh Mahila Vishwadhalay, Sonapat, Haryana	Traffic Turbine