

## ***ANVESHAN-Student Research Convention: Central Zone***

A two-day central Zone Student Research Convention —*ANVESHAN-2024* was organised by the Association of Indian Universities (AIU), New Delhi in collaboration with the Guru Ghasidas Vishwavidyalaya (GGV), Bilaspur, Chhattisgarh from February 02-03, 2024. More than 62 students from different universities in Central region of India registered for the event. The students showcased their projects, which were indeed exemplary and expected to have a significant impact on society, enhancing Indian academic research in the international academic landscape.

The Inauguration Ceremony commenced on 2<sup>nd</sup> February 2024. The ceremonial dais was honored by the august presence of the Chief Guest, Prof. Amit Kumar Saxena, Vice Chancellor (I/c), Guest of Honor, Prof. Manish Shrivastava, Registrar, Special Guest, Prof. LVKS Bhaskar, Director of Research and Development. Dr. Amarendra Pani, Joint Director and Director (I/c) and Dr. Usha Rai Negi, Assistant Director, Research Division, AIU joined the event as the Convener and Co-convener of *Anveshan*, respectively. Prof. Harit Jha, Head, Biotechnology was the Coordinator, and Dr. Ganesh Prasad Shukla was the Co-coordinator of the event.

Prof. Amit Kumar Saxena, Vice Chancellor (I/c) welcomed the gathering and felicitated the dignitaries. In his inaugural speech, Prof. Saxena shared his perspective on Indian science and scholars and the origin of science in India. He further added the art of questioning and the way of understanding the research methodology in his speech. He shared some thought-provoking ideas with students to pursue interdisciplinary research to deal with societal problems with innovative solutions and to form communities of practice and become lifelong learners.

During his address, Prof. Manish Shrivastava underscored the vital role of collaboration and knowledge exchange in fostering scientific progress. He emphasized the need for researchers to transcend disciplinary boundaries and engage in cross-cutting dialogues to tackle complex issues effectively. Prof. Shrivastava encouraged students to embrace diversity of thought and perspective, recognizing it as a catalyst for innovation. He urged them to cultivate a spirit of curiosity and exploration, reminding them that true breakthroughs often arise from questioning established norms and exploring unconventional avenues. By promoting a culture of open inquiry and interdisciplinary collaboration, Prof. Shrivastava envisioned a future where Indian scientists and scholars continue to make profound contributions to global knowledge and understanding.

Dr. Harit Jha, in his welcome speech, introduced the concept of *ANVESHAN* and expressed his thrill at being selected by AIU to host this prestigious student research-driven event dedicated to

promoting innovation through the power of interdisciplinary research. He said, “As a Coordinator of *Anveshan*, it’s a great pleasure for me to host SRC. Keeping in sync with the University's vision, we strive to create innovative research-driven opportunities for aspiring researchers in India.”

Dr. Amarendra Pani gave a brief background of *ANVESHAN*, an annual flagship student research convention that includes the spirit of research culture in higher education institutions (HEIs) to promote out-of-the-box ideas in diverse fields ranging from Agriculture, Engineering, Health & Social Sciences to solve contemporary societal and technological challenges. The winning proposals from each zonal region shall compete for the national/international level competition to be held during 11th-12th March this year. The Research Division of AIU, as part of capacity-building activities, regularly organizes various seminars and conferences for strengthening Indian higher education. It also takes up research projects and recommends policies for higher education to MoE.

The inaugural session was graced by Vice Chancellor(I/c) Prof. Amit Kumar Saxena, Prof. Manish Shrivastava, Registrar, GGV and Prof. LVKS Bhaskar. They motivated the students to take up innovative research projects and contribute to India’s startup ecosystem as well as nation-building. They emphasized research at both grassroots and multidisciplinary levels to make India an innovation hub of the 21<sup>st</sup> century. They further stressed that *Anveshan* is a unique platform for budding scientists. The participants should interact among and up-skill themselves to thrive in this fast-changing complex society. Prof. Harit Jha, Coordinator, *Anveshan* thanked all the participants and student volunteers for their enthusiastic participation.

Following the Inauguration, the first round of assessment of the research projects started wherein the student researchers presented the 62 registered projects as posters in the prescribed format. Subject experts evaluated the participating projects in concerned areas based on stipulated parameters and after thorough examination; all of the registered projects were allowed for the next round of evaluation through Podium Presentation. The objective of the second round was to understand in-depth details about projects on evaluation parameters such as scientific principles, creativity, relevance, thoroughness, cost-effectiveness, teamwork, and skill. In the podium round, shortlisted projects were presented in front of judges through PowerPoint presentations, followed by question-answer sessions.

Keeping in mind the excellence and usefulness of the various research projects presented in the convention during the two days, jury members and distinguished evaluators scrutinized and declared first, second, and third prizes in different subject areas. Winners were awarded with

mementos and certificates in the valedictory ceremony which was overseen by Dr. Usha Rai Negi, Assistant Director, Research Division, AIU.

During the Valedictory Function, Prof. LVKS Bhaskar, Director Research & Development, GGV shared the report on 'Research and Innovation in the University Campus'. He also emphasized the value of Research & Innovation in the current scenario. Other dignitaries present on the podium were Prof. Amit Kumar Saxena, Dr. Amarendra Pani, Dr. Usha Rai Negi, and Dr. Harit Jha. Prof. Amit Kumar Saxena delivered the keynote speech as the Chief Guest and talked about the importance of patents and intellectual property rights for researchers and Universities. Prof. Harit Jha, and Dr. Ganesh Prasad Shukla felicitated the jury members.

Dr. Usha Rai Negi shared the important instructions for National/International level *Anveshan* and announced the date and venue of the convention. Prof. Harit Jha, Coordinator, Central Zone *Anveshan*, announced the names of winning teams and a detailed report of the event. He extended immense gratitude to AIU and the organizing team of *Anveshan 2023-24*. All participants received certificates of participation and the winners received special certificates of merits and mementos.

The concluding address was delivered by Dr. Amarendra Pani. He lauded the efforts of the host university, providing ample opportunities for the youth to explore the prestigious event. He appreciated all the team members of the Organizing Committee of Guru Ghasidas Vishwavidyalaya.

Given below is the details of the winners selected from the Central Zone.

### *Winners of Anveshan*

#### Basic Science

Sr. No.	Name of Participant	Rank	University/Institution	Project	Contacts
1.	Vanshika Sharma	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	Design and Development of Novel Triazole Based Azodye	8349274789 sharma.vanshika1004@gmail.com
2.	Snigdha Baliarsing	2 <sup>nd</sup>	Fakir Mohan University, Balasore, Orissa	Antimicrobial Peptide from Pearl Mussel	7008726502 <a href="mailto:snigdhasami@gmail.com">snigdhasami@gmail.com</a>

#### Interdisciplinary Science

Sr. No.	Name	Rank	University/Institution	Project Name	Email ID
1.	Vijendra Parmar	1 <sup>st</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	Vertical Farming with Agro Textiles	9516221087 <a href="mailto:Vijendrasinghparmar138@gmail.com">Vijendrasinghparmar138@gmail.com</a>
2.	Chetali Garhwal	1 <sup>st</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	Vertical Farming with Agro Textiles	9302577122 <a href="mailto:chaitaligarhwal@gmail.com">chaitaligarhwal@gmail.com</a>
3.	Ziniya Khan	1 <sup>st</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	Vertical Farming with Agro Textiles	7987481116 <a href="mailto:ziniyak0@gmail.com">ziniyak0@gmail.com</a>
4.	Rahul Shirodkar	2 <sup>nd</sup>	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	IOT Based Soil Testing Device	7756803559 <a href="mailto:rahulshirodkar1000@gmail.com">rahulshirodkar1000@gmail.com</a>

#### Agricultural Science

Sr. No.	Name	Rank	University/Institution	Project name	Contacts
1	Animesh Shukla	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Chhattisgarh	Water Resource conservation and management planning through implementation of UAV technique	7415393823 <a href="mailto:animeshshukla.forestry@gmail.com">animeshshukla.forestry@gmail.com</a>

2	Shishir Chandrakar	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Chhattisgarh	Water Resource conservation and management planning through implementation of UAV technique	9399471642 <a href="mailto:ccrforestry@gmail.com">ccrforestry@gmail.com</a>
3	Abhishek Maitry	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Chhattisgarh	Water Resource conservation and management planning through implementation of UAV technique	8109508650 <a href="mailto:abhimaitry@gmail.com">abhimaitry@gmail.com</a>
4	Khushi Barfa	2 <sup>nd</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	Integrated Farming system in Sustainable way	99818 86990 <a href="mailto:khushibarfa951@gmail.com">khushibarfa951@gmail.com</a>
5	Ajay Rathore	2 <sup>nd</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	Integrated Farming system in Sustainable way	9685928963 <a href="mailto:ar3868738@gmail.com">ar3868738@gmail.com</a>
6	Jay Pandey	2 <sup>nd</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	Integrated Farming system in Sustainable way	8889207076 <a href="mailto:jay151027@gmail.com">jay151027@gmail.com</a>

### Health Science

Sr. No.	Name	Rank	University/Institution	Project Name	Contacts
1	Robins Kumar	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Chhattisgarh	MANAS	9262585107 <a href="mailto:Robinskr12345@gmail.com">Robinskr12345@gmail.com</a>
2	Nikhil Kaser	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya,	MANAS	6261963880 <a href="mailto:nikhil1999kaser@gmail.com">nikhil1999kaser@gmail.com</a>
3	Tannu Kaushik	1 <sup>st</sup>	Guru Ghasidas Chhattisgarh Vishwavidyalaya, Chhattisgarh	MANAS	9821560626 <a href="mailto:manas23october@gmail.com">manas23october@gmail.com</a>
4	Atharv Ansh Tiwari	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Chhattisgarh	MANAS	8085256280 <a href="mailto:atharvtiwari999@gmail.com">atharvtiwari999@gmail.com</a>

### Social Science

Sr. No.	Name	Rank	University/Institution	Project Name	Contacts
1	Jhalak Sachdev	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	Himalayan States in Peril	7000321725 <a href="mailto:sachdevjhalak6@gmail.com">sachdevjhalak6@gmail.com</a>
2	Prakhar Tiwari	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh	Himalayan States in Peril	7987008586 <a href="mailto:frprakhartiwari9990@gmail.com">frprakhartiwari9990@gmail.com</a>

### Engineering and Technology

Sr. No.	Name of Participant	Rank	University/Institution	Project Name	Contacts
1	Taniya Singh	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Chhattisgarh	Metamaterial based Refractive index sensor for bio sensing and energy harvesting application	7794932350 <a href="mailto:taniya1633@gmail.com">taniya1633@gmail.com</a>
2	Kajal Kumari	1 <sup>st</sup>	Guru Ghasidas Vishwavidyalaya, Chhattisgarh	Metamaterial based Refractive index sensor for bio sensing and energy harvesting application	9508379397 <a href="mailto:kajalg95083@gmail.com">kajalg95083@gmail.com</a>
3	Prateek Panwar	2 <sup>nd</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	DIGI YOGA	7999956242 <a href="mailto:prateekpanwarengine@gmail.com">prateekpanwarengine@gmail.com</a>
4	Jenil Panchal	2 <sup>nd</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	DIGI YOGA	7999956242 <a href="mailto:jenil.panchal10@gmail.com">jenil.panchal10@gmail.com</a>
5	Dhairya Jain	2 <sup>nd</sup>	Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh	DIGI YOGA	6260764293 <a href="mailto:dhairyajain29@gmail.com">dhairyajain29@gmail.com</a>