



AKS University **SATNA**



ANNUAL REPORT
2022-23



“आत्म दीपो भव”

AKS University carries forward the mantle of Aatma deepo bhava meaning ‘self-realization’ is the path to move on and look ahead for a brighter tomorrow.



The University is dedicated to perform in a unique manner to achieve academic excellence in creative way by using innovative ideas to produce perfect human resources and to act as centre for “**Amicable Knowledge Solutions**”.



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Message

Reflecting on the past year 2022-23, I'm filled with pride for our vibrant university community. We've achieved remarkable milestones in academics, research, and community engagement.

Our dedicated faculty have inspired students, fostering innovative thinking and equipping them for the future. Through groundbreaking research and interdisciplinary collaboration, we've addressed pressing societal challenges. Our commitment to inclusivity has created a thriving campus where everyone can flourish.

As we look ahead, let's continue our pursuit of excellence, integrity, and knowledge. Together, we'll shape future leaders and make a positive impact on the world. Thank you to our faculty, staff, students, and supporters for your invaluable contributions. Here's to continued success!

B. P. Soni
Chancellor
AKS University, Satna



Message

2022-23 has been a year of significant strides for AKS University, Satna. We have successfully implemented NEP 2020 across various programs, fostering holistic development and innovative thinking. Our faculty, committed to excellence, have adopted contemporary teaching methodologies, empowering students to excel in their chosen fields. We have witnessed remarkable achievements in research, with faculty and students actively contributing to knowledge advancement. The university's commitment to inclusivity and diversity has created a vibrant campus culture, nurtured talent and fostering global citizenship. We are grateful to our dedicated faculty, staff, students, and supporters for their unwavering commitment, and we look forward to building on our successes in the years to come.

These accomplishments underscore our collective efforts and commitment to academic excellence. I extend my heartfelt gratitude to all faculty, staff, and students for their unwavering dedication and hard work, which have made this year truly remarkable.

Warm regards,

Professor R. S. Tripathi

Vice Chancellor (Incharge),
AKS University



Executive Summary

AKS University (AKSU) is a leading University of Madhya Pradesh state established vide by the Govt of Madhya Pradesh Act & Notification no. 44 dated 31.12.2011 and duly recognized by the UGC under Section (2f) of UGC Act in the year 2014, is committed to nurturing well-rounded individuals equipped to meet the challenges of the future. With a focus on quality education, research and community involvement, the university aims to play a pivotal role in the educational landscape of India. The Campus is spread over approximately 110 acres. The AKS University is situated in the Satna city of Madhya Pradesh, adjacent to NH-75, 4 km from Satna Railway Station and 120 km from world heritage Khajuraho. At present the AKS University is offering 54 courses under 12 faculties and at present total student strength of the University is more than 6000. AKS University, achieved significant milestones in the academic year 2022-23. The University's unwavering commitment to academic excellence, research innovation, and holistic student development has resulted in substantial growth and recognition.

The university expanded its academic offerings, introducing new programs in emerging fields. The curriculum was updated to align with industry standards and global best practices. The faculty, renowned for their expertise, employed innovative teaching methodologies to enhance student learning experiences.

AKS University emerged as a hub for research and innovation. Faculty members secured prestigious research grants and published extensively in high-impact journals. The university's state-of-the-art research facilities supported cutting-edge research, leading to groundbreaking discoveries and patents.

The university fostered a vibrant campus life, with a focus on holistic student development. Students excelled in academics, extracurricular activities, and sports. The university's dedicated placement cell secured lucrative job offers for students in top-tier companies.

The university invested in infrastructure development, including modern classrooms, well-equipped laboratories, and a spacious library. The campus was transformed into a conducive learning environment, promoting academic and personal growth.

AKS University actively engaged with the local community through various social initiatives. The university organized various faculty development programmes, workshops,



seminars and outreach programs to address societal challenges and promote sustainable development.

Key Metrics:

- **Increased Enrollment:** The University witnessed a significant increase in student enrollment across various programs.
- **Improved Placement Record:** The placement rate for graduating students reached new heights, with top recruiters offering lucrative packages.
- **Research Publications:** Faculty members published a substantial number of research papers in reputed journals.
- **Patents Filed:** The University filed multiple patents for innovative technologies developed by its researchers.
- **Enhanced Infrastructure:** The University invested in state-of-the-art infrastructure, including new academic buildings and modernized laboratories.

Overall Growth Areas:

- **Internationalization:** The University is actively pursuing international collaborations to enhance its global visibility and attract international students.
- **Industry Partnerships:** Strong industry partnerships are being forged to provide students with industry exposure and internship opportunities.
- **Digital Transformation:** The University is embracing digital technologies to improve administrative efficiency, teaching-learning processes, and research activities.
- **Entrepreneurship and Innovation:** The University is nurturing a culture of entrepreneurship and innovation, encouraging students to develop innovative ideas and start their own ventures.

AKS University, Satna, is poised to continue its journey of excellence, making significant contributions to higher education and society at large.



SWOC Analysis of the University

SWOC Analysis of AKS University, Satna

Strength

- Vast and Lush Green Campus.
- Historical background.
- Highly experienced and well qualified faculty.
- Academic Excellence.
- Modern infrastructure.
- Most evolved OBE curriculum.
- Emphasis on Research and Innovation.
- Joint Degree programmes with IBM.
- Strong Industry Partnership.
- Incubation Centre.
- Patents and Technology Transfer.
- Programme offering and affordability.
- Eminent leadership.

Weakness

- Rural University in M.P.
- Lack of financial support from Govt.
- Attracting Qualified faculty and students.
- Lack of residential facility for students on Campus.
- Less number of Ph.D. faculty
- Comprehensive Pan India Presence.
- International Collaboration.
- Robust effort towards research.
- Fund allocation constraints.

SWOC

Opportunities

- Develop Research University.
- Full Implement NEP 2020 .
- Collaborative Research.
- Capacity building of faculty.
- Develop joint degree programmes with offer leading universities & Industries.
- To bring full e-governance at university.
- Develop online mode of learning.
- Research on IKS and SDGs.
- Start new multi disciplinary programmes in all faculties.

Challenges

- Innovative Teaching pedagogy.
- Financial Constraints.
- Fast changing technology and pedagogical innovations.
- Attracting meritorious Students.
- Develop functional start-ups on the Campus.
- Retention of faculty.
- Implementing Bloom's taxonomy (revised) in assessment and Evaluation.



1. ABOUT THE UNIVERSITY

2.1 About AKS University, Satna

The visionary of AKS University Shri B. P. Soni had started his humble journey to impart quality education in affordable cost by opening a small computer college in the year 1996 at Satna city of Madhya Pradesh, India. The mission was highly appreciated and to fulfill the demand of the Vindhya Region, in the year 2011 the AKS Charitable Trust established the AKS University at Satna, by the Govt of Madhya Pradesh Act & Notification no. 44 dated 31.12.2011 (Gazette notification Annx-1) and duly recognized by the UGC under Section (2f) of UGC Act in the year 2014.

2.2 Vision

The vision of AKS University, Satna is to be globally recognized premier Research University dedicated to “Amicable Knowledge Solutions” with ethical leadership, cooperation, community involvement and research prowess converges to forge innovative solutions for societal challenges and contribute to sustainable future.

2.3 Mission

1. Promote Multidisciplinary Research: Enhance sustainable research across all university faculties, aiming to establish our institution as a leading research and teaching university.
2. Foster Innovation: Encourage innovation at all levels within the university, focusing on intellectual property rights (IPR), patents, incubation centers, and startups.
3. Implement Outcome-Based Education: Adopt updated outcome-based curricula (OBE) to develop graduate attributes and create a student-centric teaching and learning environment.
4. Integrate Teaching and Research: Establish a strong correlation between teaching and research by employing innovative approaches and pedagogies.
5. Collaborate with Institutions: Build partnerships with premier national and international universities, institutes, and industries.



6. **Encourage Lifelong Learning:** Promote lifelong learning and life skills among students, providing a value-based and culturally enriched education.
7. **Focus on Quality Education:** Ensure high-quality education while emphasizing research related to sustainable development goals (SDGs) and environmental protection.
8. **Develop Independent Thinkers:** Equip students with the capabilities to think critically and work independently.
9. **Strengthen Industry-Academic Fusion:** Foster collaboration between academia and industry through research partnerships, entrepreneurship initiatives, and internships.
10. **Ensure Good Governance:** Cultivate accountability and transparency among all university stakeholders.
11. **Support Diverse Student Backgrounds:** Provide a platform for students from diverse backgrounds, including rural areas, to achieve academic excellence and develop human values, fostering an inclusive culture of equality and responsible citizenship.
12. **Contribute to Knowledge Society:** Play a significant role in developing a holistic knowledge society that benefits local and global communities.

2.4 Core Values of AKS University, Satna

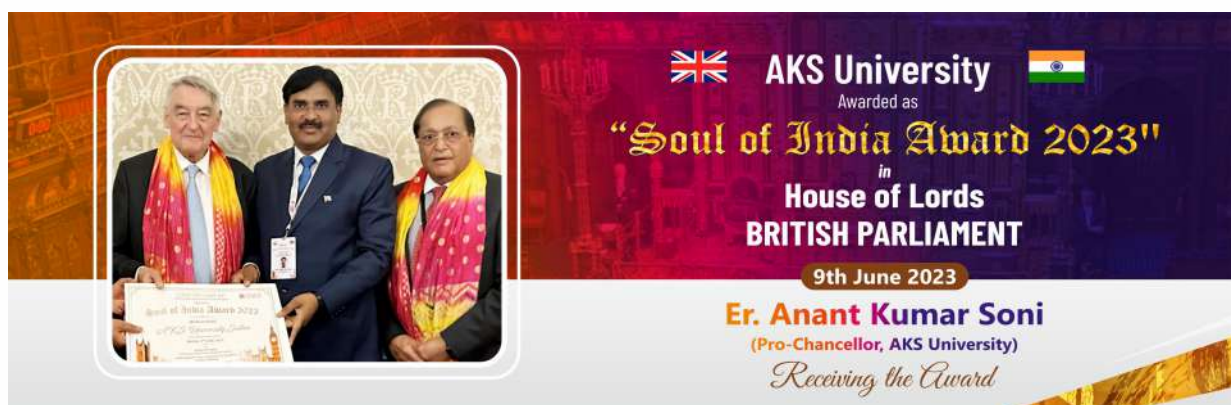
AKS University, Satna, is founded on a set of core values that guide its academic pursuits, administrative practices, and community engagement. These values include:

- **Academic Excellence:** Striving for the highest standards of education, fostering intellectual curiosity, and promoting critical thinking.
- **Innovation:** Embracing new ideas, technologies, and approaches to address challenges and drive progress.
- **Social Responsibility:** Contributing to the betterment of society through community engagement, research and service.



- **Ethical Conduct:** Upholding the highest ethical standards in all aspects of university life.
- **Respect:** Valuing diversity, inclusivity, and the dignity of all individuals.
- **Collaboration:** Fostering partnerships and teamwork to achieve common goals.
- **Sustainability:** Promoting environmental stewardship and sustainable practices.

These core values are integral to the university's mission and inform its decision-making processes. These guided the university's commitment to providing a quality education, fostering a positive learning environment, and making a meaningful impact on the community.





2. Academics at AKSU

In the 2022-23 academic year, AKS University achieved significant milestones in curriculum innovation, research, and student success. The university implemented the Choice-Based Credit System (CBCS) and Outcome-Based Education (OBE) models to align with NEP 2020, emphasizing flexibility, interdisciplinary learning, and practical skills. Faculty and students produced notable research across various fields, with publications in national and international journals. AKS University also expanded its industry partnerships, enhancing internship and placement opportunities. Students excelled in inter-university competitions and technical fests, with many securing top placements in leading companies, reflecting the university's commitment to excellence and career-readiness.

2.1 New Programs and Curriculum Enhancements

In alignment with the National Education Policy (NEP) 2020, AKS University, Satna has implemented several updates and improvements in its existing curricula to meet accreditation standards and foster a more flexible, holistic, and outcome-based education system. Here are some of the key updates and advancements made:

2.1.1. Curriculum Restructuring with Choice-Based Credit System (CBCS)

- AKS University has integrated a Choice-Based Credit System (**CBCS**) to provide flexibility and a broader learning experience, allowing students to select courses based on their interests and career goals.
- The CBCS curriculum includes core courses, discipline-specific electives, skill-based electives, and open electives, which are designed to encourage interdisciplinary learning and skill enhancement.

2.1.2. Focus on Outcome-Based Education (OBE)

- To align with NEP 2020's emphasis on measurable learning outcomes, AKS University has adopted an Outcome-Based Education (**OBE**) model. The curriculum is designed with clear learning objectives that align with skill-building, critical thinking, and employability.



- Learning outcomes are assessed through practical applications, projects, and evaluations aimed at ensuring that students gain competencies relevant to industry needs.

2.1.3. Integration of Technology and ICT in Teaching

- With NEP 2020 promoting digital learning, AKS University has strengthened its use of ICT tools for teaching and learning. This includes online learning platforms, digital resources and blended learning approaches.
- Smart classrooms and e-learning modules enable interactive sessions and online assessments, while virtual labs provide simulation-based training for students in various technical fields.

2.1.4. Multidisciplinary and Holistic Education

- Following NEP's vision for a multidisciplinary education, AKS University now encourages cross-disciplinary courses and electives, especially in fields like agriculture, biotechnology, engineering, and management.
- To foster holistic growth, the curriculum integrates aspects of ethical reasoning, environmental consciousness, and social sciences across all disciplines, equipping students with diverse perspectives.

2.1.5. Skill-Based and Vocational Courses

- AKS University has introduced skill-based courses and vocational training to make the curriculum more industry-oriented. This includes practical courses in areas like data science, AI, and sustainable agriculture.
- Partnerships with industries have enabled real-world training and internships, which support students in gaining hands-on experience and building job-ready skills.

2.1.6. Emphasis on Research and Innovation

- Aligned with NEP's emphasis on research, AKS University promotes a research-driven curriculum that encourages undergraduate and postgraduate students to participate in research projects.



- The university offers real-world projects and industry collaborations, particularly in agriculture, biotechnology, and environmental science, allowing students to contribute to innovations that benefit society.

2.1.7. Personalized and Competency-Based Learning

- By implementing personalized learning paths, AKS University allows students to progress at their own pace and according to their competency levels.
- The curriculum includes competency-based assessments and practical tasks that help students apply theoretical knowledge to real-world scenarios.

2.1.8. Life Skills and Value-Based Education

- Reflecting NEP 2020's holistic approach, the curriculum now incorporates life skills, ethics, and value-based education. Courses and workshops on communication, leadership, teamwork, and moral education are integrated into the curriculum to foster character development and civic responsibility.

2.1.9. Continuous Curriculum Review and Accreditation Alignment

- The university has established a mechanism for continuous review and revision of curricula to ensure relevance with industry standards and accreditation requirements.
- Regular feedback from stakeholders, including industry experts, alumni, and academic boards, helps keep the curriculum updated and aligned with accreditation standards.

By integrating these NEP-aligned improvements, AKS University is committed to delivering an education that is flexible, multidisciplinary, and relevant, preparing students for a rapidly changing world and supporting their academic, professional, and personal growth.

2.2. New Programs

- Five new programmes (LLB, BALLB, B.Com. LLB, BBALLB and LLM) have been offered by Faculty of Law in the academic session 2022-23.
- Faculty of Engineering & Technology has introduced two new programmes i.e. Bachelor of Technology Computer Science & Engineering with Cyber Security and Bachelor of Technology Computer Science & Engineering with Artificial



Intelligence and Data Science. It has also started offering M. Tech. in Cyber Security.

- Faculty of Commerce Faculty of Social Science & Humanities and Faculty of Basic Science has revised its Three-year programme and launched Four-year BSc (Biotech) BBA/BCA/BSc (IT) (Hons) Programme as per the New Education Policy.

2.2.1 Existing Programmes

Faculty of Agriculture Science & Technology	B.Tech. /B.Tech. (LE) Agricultural Engineering
	B.Tech. /B.Tech. (LE) Food Technology
	B.Sc. (Hons.) Agriculture
	M.Sc. (Agri.) Agronomy/ Genetics and Plant Breeding/ Plant Pathology/ Soil Science/
	M.Sc. (Hort.) Vegetable Science
Faculty of Basic Sciences	B.Sc./B.Sc.(Hons.)
	M.Sc. in Chemistry / Mathematics / Physics
Faculty of Commerce & Financial Studies	B.Com / B.Com (Hons.)
	M.Com.
Faculty of Computer Application & Information Technology	B.Sc. (Hons.) IT
	BCA (Hons.)
	MCA
	PGDCA



Faculty of Education	Bachelor of Education (B.Ed.)
Faculty of Engineering & Technology	B.Tech. /B.Tech. (LE) Civil Engineering
	B.Tech. /B.Tech. (LE) Mechanical Engineering
	B.Tech. /B.Tech. (LE) Electrical Engineering
	B.Tech. /B.Tech. (LE) Mining Engineering
	B.Tech. /B.Tech. (LE) Cement Technology
	B.Tech. /B.Tech. (LE) Computer Science & Engineering (CSE)
	B.Tech. /B.Tech. (LE) CSE with Artificial Intelligence & Data Science
	B.Tech. /B.Tech. (LE) CSE with Cyber Security
	M. Tech. Computer Science & Engineering
	M. Tech. Mechanical Engineering
	M. Tech. Mining Engineering
Faculty of Law	B.A. LL.B
	B.B.A. LL.B



Faculty of Law	B.Com. LL.B
	LL.B.
	LL.M.
Faculty of Life Science & Technology	B.Sc./B.Sc. (Hons.) with Biotechnology
	B.Tech. Biotechnology
	M.Sc. Biotechnology/Environmental Science/ Microbiology
	M. Tech. Biotechnology
Faculty of Management Studies	BBA (Hons.)
	MBA
Faculty of Medical Science	BMLT
	BPTH
Faculty of Pharmaceutical Science & Technology	B. Pharm.
	M. Pharm. Pharmaceutics
	M. Pharm. Pharmaceutical Chemistry
Faculty of Social Sciences & Humanities	BA / BA (HONS.)
	M.A. (Economics) / (Education) / (Political Science)/ (Yoga Science)
	POST GRADUATE DIPLOMA IN YOGA



2.3 Academic Performance and Results

In the academic year 2022-23, students of AKS University, Satna, showcased commendable achievements in academics, research, and extracurricular domains, furthering the university's reputation for excellence. Many students excelled in inter-university technical fests, youth festivals, and zonal competitions, securing top positions at prestigious events held by institutions like IIT Kharagpur, IISc Bangalore and IIT(ISM) Dhanbad. This success highlighted their technical expertise, creativity, and innovation.

Furthermore, a significant number of students participated in community outreach initiatives through programs like the Rural Agriculture Work Experience, where they supported local farmers by introducing sustainable agricultural practices.

The university's strong placement record for the year is another highlight, with students securing roles in leading companies across diverse sectors. This success reflects AKS University's focus on holistic development, hands-on learning and industry engagement, equipping students with the skills and confidence to excel professionally and contribute meaningfully to their fields.

During the academic year 2022-23, some of the prominent recruiters that visited the campus include Samsung, Reliance Industries Ltd., Deutsche India Ltd., JSW, Sajjan India Ltd., Adani Group, TATA Consultancy Services, Cognizant Technology Solutions, L&T, Lixil, Rosy Blue India Pvt. Ltd, Mahinda & Mahindra, Atul Ltd., People Square, AkzoNobel, Shadowfax, Zydex Industries, Schneider, Ceipal, Tata Advanced Systems Ltd, Prakash Chemicals International Ltd, and Consera Realty visited the campus for first time. Morgan Stanley, J P Morgan Chase & Co., Tata AIG, ICICI Bank, Alkem Laboratories, and Wipro offered PPOs.

2.4 Teaching and Learning Innovations

AKS University Satna is dedicated to providing high-quality education and fostering an environment where students can thrive academically and personally. To achieve this, the university has integrated several innovative teaching methods that cater to the diverse learning needs of students and enhance their educational experience. This year, the introduction of flipped classrooms, blended learning, and online modules has marked a significant step forward in our academic approach.



Flipped Classrooms

The traditional model of classroom instruction has been revolutionized with the adoption of flipped classrooms at AKS University. In a flipped classroom, the conventional lecture and homework elements are reversed. Here's how it works:

- **Pre-class Preparation:** Students are provided with lecture materials, such as videos, readings, and presentations, to study before the class. This allows them to familiarize themselves with the content at their own pace.
- **Interactive In-class Sessions:** During the class, students engage in interactive activities, such as group discussions, problem-solving exercises, and hands-on projects. The instructor facilitates these activities, providing guidance and support as needed.

Benefits of Flipped Classrooms:

- **Enhanced Engagement:** Students arrive in class prepared, allowing for deeper discussions and more meaningful interactions.
- **Active Learning:** Emphasis on collaborative and hands-on activities helps students develop critical thinking and problem-solving skills.
- **Personalized Instruction:** Instructors can identify and address individual learning gaps more effectively during class activities.

Blended Learning

Blended learning combines traditional face-to-face instruction with online learning components, offering a flexible and dynamic educational experience. At AKS University, blended learning has been implemented across various programs to maximize the benefits of both learning modalities.

Key Features of Blended Learning:

- **Integration of Online Content:** Online modules, interactive videos, and digital resources complement classroom instruction, providing a rich array of learning materials.
- **Flexible Learning Environment:** Students can access online content anytime, allowing them to review and reinforce concepts outside of scheduled class hours.



- **Continuous Assessment:** Online quizzes, assignments, and discussions facilitate ongoing assessment and feedback, helping students stay on track with their learning goals.

The introduction of flipped classrooms, blended learning, and online modules at AKS University Satna represents a significant advancement in our teaching methodologies. These innovative approaches not only enhance the overall learning experience but also prepare students to thrive in a rapidly evolving academic and professional landscape. By embracing these methods, AKS University continues to lead the way in delivering a holistic and future-ready education.





3. Research and Development

In the year 2022-23, AKS University, Satna, advanced its commitment to innovation and societal impact through a range of research and development (R&D) activities. The university focused on fostering interdisciplinary research in key areas such as agriculture, biotechnology, environmental science, and engineering. Faculty and students collaborated on projects aimed at addressing both regional and global challenges, contributing to AKS University's role as a center of knowledge and practical solutions.

3.1 Key Research Focus Areas

3.1.1 Agriculture and Food Technology:

- In the agricultural domain, researchers worked on sustainable farming techniques, crop resilience, and improved food processing methods. Projects were aimed at increasing productivity, minimizing environmental impact, and supporting local farmers through technology-driven solutions.

3.1.2 Biotechnology and Life Sciences:

- Research in biotechnology focused on genetic engineering, plant tissue culture, and microbiology, with the goal of developing resilient crop varieties and improving plant health.
- Faculty and students conducted studies on the medicinal properties of indigenous plants and their potential applications in pharmaceuticals, contributing valuable findings to the field of healthcare and medicine.

3.1.3 Environmental Sustainability:

The university prioritized research in environmental science, focusing on renewable energy, waste management, and water conservation. Projects were designed to develop sustainable solutions, such as bioremediation techniques and low-cost solar energy systems, which support environmental preservation and reduce carbon footprints.

3.1.4 Engineering and Technology:

In the field of engineering, research activities included advancements in materials science, automation, and mining technology. The Engineering Research and Development Center facilitated hands-on projects, enabling



students to address real-world challenges related to industrial efficiency, resource management, and infrastructure development.

- Research in data science and artificial intelligence supported innovations in predictive analytics and process optimization, benefiting sectors such as healthcare, agriculture, and logistics.

3.2 Research Publications and Industry Collaborations

- AKS University faculty and students published numerous papers in national and international journals, showcasing significant findings across various disciplines. These publications underscored the university's commitment to academic excellence and knowledge dissemination.
- The university strengthened its ties with industry partners, facilitating collaborative R&D projects and internships that provided practical exposure to students while addressing industry-relevant challenges.

3.3 Grants and Funding

- The university successfully secured research grants from government bodies and private organizations, enabling the acquisition of advanced equipment and furthering the scope of research initiatives. These funds were pivotal in supporting high-impact projects that benefit both academia and society.

Through these focused research activities, AKS University has cemented its position as a center for innovation and problem-solving, contributing valuable knowledge and practical solutions that align with its mission of societal development and academic excellence

3.4 Research Centers and Facilities

AKS University, Satna, is dedicated to fostering a robust research culture, advancing innovation, and addressing regional and global challenges through its comprehensive research centers and facilities. These centers serve as hubs of knowledge and exploration, enabling faculty and students to pursue interdisciplinary research in fields such as agriculture, biotechnology, engineering, environmental science, and more. The university's investment in state-of-the-art research facilities underscores its commitment to high-quality education, skill development, and societal impact.

1. Centre of Excellence for Advance Biotechnology Research



2. Experimental Fields for Agricultural Research
3. Engineering Research and Development Center
4. Pharmaceutical Research and Technology Center
5. Data Science and Artificial Intelligence Lab
6. Center for Renewable Energy and Sustainable Technologies
7. Food Processing and Technology Center

3.4.1 Hi -Tech Horticulture

Under Faculty of Agriculture Science and Technology, University has developed two poly houses i.e. poly house-I (80m x 45m) and small (23mx14m) poly house-II for conducting Hands- on-training Horticulture crop research including M.Sc. (Ag) Horticulture research experiments, (Roses, Gerbera, Carnation) and exotic vegetable crops (Broccoli, Red cabbage, Chinese cabbage, Lettuce, Cucumber, Sponge guard etc.). These poly houses have also been used for, training of extension workers and Farmers Entrepreneurship development among the rural unemployed youth and also increasing income of farmers. Students have grown successfully Broccoli, Roses, Capsicum (Green, yellow and red) and bottle gourd.

3.4.2 Support Facilities for Research

- **Central Library and E-Library Resources:** The University's central library provides extensive resources, including journals, e-books, and databases, that support academic and research pursuits. The e-library system allows students to access international journals, research papers, and educational resources, enhancing the research ecosystem.
- **Collaboration and Industry Partnerships:** AKS University's partnerships with local and international research institutions provide additional opportunities for collaborative projects, internships, and funding. Memoranda of understanding (MOUs) with universities and industry leaders foster an environment of shared knowledge and innovation.
- **Research Grants and Funding:** To support high-impact research, AKS University actively seeks research grants from government bodies and private organizations.



This funding allows for the acquisition of advanced equipment and supports faculty and student projects across disciplines.

3.4.3 Impact and Benefits

- The research centers at AKS University serve as incubators of knowledge and innovation, empowering students and faculty to contribute to critical fields like agriculture, environmental sustainability, healthcare, and technology.
- Through hands-on research and industry collaborations, these centers help bridge the gap between academic knowledge and real-world applications, enhancing students' employability and preparing them for future careers.
- By focusing on issues relevant to the region, such as sustainable agriculture, energy efficiency, and rural development, AKS University's research initiatives directly benefit the community and contribute to regional and national development goals.

The research centers and facilities at AKS University, Satna, play an instrumental role in advancing scientific discovery, fostering skill development, and preparing students to make meaningful contributions in various professional fields. Through these resources, the university remains committed to innovation, sustainability, and societal impact, equipping its academic community to address present and future challenges.

3.1 Research Publications and Projects

Title of paper	Name of the author/s	Name of journal
Performance Evaluation of Tractor Operated Furrow Irrigated Raised Bed Seed Drill for Chickpea Production.	Gupta R, Chundawat G.S., Aswani R.C. and Sarathe A.	Adv. Biores.
AHP-TOPSIS Based Multi Criteria Decision Making (MCDM) Approach for Performance Evaluation of Commercial Food Grain Storage Practices in Indian	Ajeet Sarathe, Kuldeep Shukla, Shekhar Kumae Mishra and Rajesh Kumar Mishra	International Journal of Food and Nutritional Sciences



Evaluate the effects of botanicals on Hatching percentage of pulse beetle in chickpea	Vishnoo Omar, Suraj kumar, Arvind Kumar, Aditya Kumar, Amit bagri, Lal, Bahadur Singh, Rama Sharma, and A.K. Bhowmick	International Journal of Food and Nutritional Sciences
A Review of the Present and Prospective Status of Biopesticides as Potential Substitutes for Chemical Pesticides	Rama Sharma, Aditya Kumar, Amit Bagri, Vikas Chandra, Lal Bahadur Singh, Vishnoo Omar	International Journal of Food and Nutritional Sciences
Study of relationship between adoption, knowledge and social-personal economic psychological and communication characteristic of wheat Growers of Panna block of Panna district	Ms. Rafiya Ameen and Mr. Vipin Yadav	International Journal of Food and Nutritional Sciences
A Comparative Study of Chemical Qualities of Raw Milk of Cow and Sheep	Poonam Sharma, Dr. U.K. Shukla, Anoop Shukla	International Journal of Food and Nutritional Sciences
A review on usefulness and limitations in use of sexed semen in dairy animals	S.K. Pandey	International Journal of Food and Nutritional Sciences
Constraints faced by mustard farmers in adoption of production technology	Nitin Saratkar, Vipin Kumar, Anoop Shukla, Y.K. Singh	International Journal of Food and Nutritional Sciences
Evaluation of Cultivars and Sulphur on growth and yield of Mustard (Brassica juncea L.)	Amit Kushwaha, Amit Singh Tiwari, Rajeev Kumar Tiwari	International Journal of Food and Nutritional Sciences
Influence of different levels of phosphorus and biofertilizers on growth, yield and quality of chickpea	Anil Prajapati, Amit Singh Tiwari	International Journal of Food and Nutritional Sciences
Integrated Nutrient Management in Chickpea Cultivation: Strategies for Sustainable	Prachi Singh, Ayodhya Prasad Pandey and Rajbeer Singh Gaur	International Journal of Food and Nutritional Sciences



Effect of Nitrogen and KSB levels on growth and yield of wheat (<i>Triticum aestivum</i> L.)	Shubhanshu Sukhdeve and V.D. Dwivedi	International Journal of Food and Nutritional Sciences
Growth, and yield response of Chickpea (<i>Cicer arietinum</i> L.) to nutritional application of phosphorus and Zinc levels.	Dr.T. Singh, Prachi singh, Pankaj Somwanshi and Aditya Kumar	International Journal of Food and Nutritional Sciences
Response of green gram (<i>Vigna radiata</i> L.) to varieties and different dates of sowing	Pushpendra Kumar Vaishya and Sanjay Lilhare	International Journal of Food and Nutritional Sciences
“Effect of fertility levels and seed rates on growth, yield and quality of wheat (<i>Triticum aestivum</i> L.)”	Nikhil likhitker and Amit Singh Tiwari	International Journal of Food and Nutritional Sciences
Growth and yield response of wheat (<i>Triticum aestivum</i> L.) to nutritional application of nitrogen and KSB levels.	Dr. T. Singh, Prachi Singh, Aditya Kumar and Udai Kamade	International Journal of Food and Nutritional Sciences
Influence of Herbicides and Varieties on Growth,Yield and Quality of Paddy(<i>Oryzasativa</i> L.)	Pawan shah and Sanjay Lilhare	International Journal of Food and Nutritional Sciences
Growth and yield response of wheat (<i>Triticum aestivum</i> L.) under different fertility levels and varieties	Dr. T Singh , Dr. V.D. Dwivedi, Prachi singh, Balram patidar	International Journal of Food and Nutritional Sciences
Influence of sources and levels of sulphur on productivity, quality and economics of mustard (<i>Brassica juncea</i> L.)	Jhankar Chaurasia And Dheerendra Prasad Chaturvedi	International Journal of Food and Nutritional Sciences
Antimicrobial studies on aqueous and ethanolic extract of root, stem and leaves of <i>Phyllanthus niruri</i> (Bhumi amla): Hepatoprotective Medicinal Plant.	Nigam R., Garg P.	Research journal of pharmacy and Technology



Scenedesmus sp. ASK22 cultivation using simulated dairy wastewater for nutrient sequestration and biofuel production: insight into fuel properties and their blends.	Pandey, A., Srivastava, S., Kumar, S.	Biomass Conversion and Biorefinery
Molecular modelling, DFT, molecular dynamics simulations, synthesis and antimicrobial potential studies of heterocyclic nucleoside mimetics	Piyush kant rai and kamlesh choure	Journal of Molecular Structure
Evaluation of plant growth-promoting activities of endophytic bacteria of Musa acuminata and their characterization	Shilpi Singh, Kamlesh Choure, Piyush Kant Rai, Sourabh Singh Gour, Vivek Kumar Agnihotri	Journal of Applied Biology & Biotechnology
Screening of plant growth-promoting Rhizobium Tarimense from root nodules of chickpea (Cicer arietinum)	Monika soni, Kamlesh Choure	Journal of Applied and Natural Science
Effect of salinity stress on phytochemical characteristics of Centella asiatica	Sonal Gupta, Ashwini A. Waoo	Journal of Applied and Natural Science
Characterization And Optimization of Recombinant GM-CSF Protein: Expression And Functional Analysis	Poonam Tiwari, Prabhat Kumar Jain, Deepak Mishra	Journal of Advanced Zoology
Fungal infection in some economically important fishes in river Hiran of Jabalpur	Saurabh Gupta and Deepak Mishra	International Journal of Food and Nutritional Sciences
Molecular Profiling and Phylogenetic Evolution studies on Pleurotus florida Mushroom by RAPD marker with special reference to Vindhya Region	Renu Sharma and Deepak Mishra	International Journal of Food and Nutritional Sciences
Corn Cob Grits: A new substrate for mushroom spawn (PLEUROTUS FLORIDA)	Jaya Singh, Saurabh Gupta and Deepak Mishra	International Journal of Food and Nutritional Sciences



Applications and Future Prospects of Proteases: An Overview	Shilpa Gautam and Deepak Mishra	International Journal of Food and Nutritional Sciences
Diversity of mycoflora associate with floriculture plant in Jabalpur. Madhya Pradesh	Jaya Singh, Saurabh Gupta and Deepak Mishra	International Journal of Food and Nutritional Sciences
Screening of fungal pathogens of Xanthium stramonium for Eco-friendly Management in Jabalpur Division	Saurabh Gupta and Deepak Mishra	International Journal of Food and Nutritional Sciences
Environmental Bioremediation: Utilizing Acidic Protease Enzymes for Waste Management	Shilpa Gautam, Abu Tahir and Deepak Mishra	International Journal of Food and Nutritional Sciences
Effect of varieties and biofertilizers on growth and yield of green gram (<i>Vigna radiata</i> L.)	Kanishk Tiwari, T. Singh, Amit Singh Tiwari and Rajeev Kumar Tiwari	International Journal of Food and Nutritional Sciences
Biopriming Strategies for Improved Seed Germination in Nutrient Poor Environments: A Comprehensive Review	Ashwini A. Wao*, Late Yasmin Banu	International Journal of Food and Nutritional Sciences
Environmental Rejuvenation during Global pandemic Lockdown	Dr. Ashwini A. Wao, Jyoti Pandey	International Journal of Food and Nutritional Sciences
HPTLC Method for Identification and Quantification of Secondary Metabolites in the Root, Stem, and Leaf Extract of <i>Achyranthes aspera</i>	Keerti Samdariya, Ashwini A. Wao	International Journal of Food and Nutritional Sciences
Impact of Pandemic on Socio-Economic Dynamics of Modern India	Dr. Akhilesh A. Wao, Dr. Ashwini A. Wao	International Journal of Food and Nutritional Sciences
Molecular Characterization and Genetic Diversity Analysis of Commercial Soybean(<i>Glycine Max</i> L. Merr.) Genotypes with	Jyoti Pandey, Rajesh Garg, Ashwini A. Wao	International Journal of Food and Nutritional Sciences



SSR Marker		
A Comprehensive Study On The Role Of GM-CSF In Various Diseases	Poonam Tiwari ¹ , Prabhat Kumar Jain, Deepak Mishra	Journal of Advanced Zoology
Phytochemical compounds and their pharmacological activity on <i>Tinospora cordifolia</i>	Praveen Garg, Jyoti Pandey, Ashwini A. Wao ^o *	International Journal of Food and Nutritional Sciences
Synthesis, Characterization and Biological Significance Of Novel Schiff-Base 3d Metal Complexes	Dinesh Kumar Mishra	Journal of Pharmaceutical Negative Results
Environmental benign synthesis of some novel biologically active 7-hydroxy-4-methyl coumarin derivatives	Dr. Shailendra Yadav	Current Research in Green and Sustainable Chemistry.
A brief review on natural dyes, pigments: Recent advances and future perspectives	Dr. Shailendra Yadav & Kanha Singh Tiwari	Results in Chemistry
Synthesis, Characterization and Biological Significance Of Novel Schiff-Base 3d Metal Complexes	Dinesh Kumar Mishra	Journal of Pharmaceutical Negative Results
Analysis of Heavy Metals in Soil Samples Collected at three Different Industrial Creeks of Satna, India	Manoj Kumar Sharma, Nahid Usmani, Laxmi Agnihotri	International Journal of Food and Nutritional Sciences
Comparative Qualitative and Antibacterial Study of <i>Bixa Orellana</i> L. Leaves With Some Selected Solvent For Some Selected Bacteria	Nahid Usmani, Manoj Kumar Sharma, Laxmi Agnihotri and Sundaram Khare	International Journal of Food and Nutritional Sciences
Study of Water Quality Parameters of the ground water of Maihar Tehsil Satna District	Nahid Usmani, Manoj Kumar Sharma, Deepraj Singh, Rahul Omar	International Journal of Food and Nutritional Sciences
Analysis of Heavy Metals in Soil Samples Collected at three	Manoj Kumar Sharma, Nahid Usmani, Laxmi	International Journal of Food and



Different Industrial Creeks of Satna, India	Agnihotri	Nutritional Sciences
Analysis of fluoride concentration in the water of bore-wells of Umariya city , M.P., India	Sushma Singh,,Manoj Kumar Sharma and Laxmi Agnihotri	International Journal of Food and Nutritional Sciences
Fuzzy-Based Energy Efficient GA Routing Algorithm in WSNs	Dr. Virendra Tiwari	CIMS
Fuzzybased Metaheuristics Artificial Bee Colony Optimization Approach to Enhance the Performance of Wireless Networks	Dr. Virendra Tiwari	Telematique
Pandemic-Induced Global Transformations and Future Directions	Dr. Akhilesh A. Wao ,Dr. Ashwini A. Wao	International Journal of Food and Nutritional Sciences
A Hybrid Model for CNN-Based Medical Image Diagnosis By Future Direction	Dr. Pushpendra Anuragi,Prof Y Venu Gopal,Mohnish Patel,Dr. Akhilesh A Wao	International Journal of Food and Nutritional Sciences
Dynamic Technique for Data Optimization using Artificial Bee Colonies (ABC) in Wireless Communications	Dr. Mirza Samiulla Beg	Telematique
Experimental investigations on nano-ferrite embedded nanocomposite polymer electrolytes for proton-conducting rechargeable batteries application	Lovely Ranjta, C. P. Singh and Neelesh Rai	Materials Today: Proceedings
Experimental investigations on nano-ferrite embedded nanocomposite polymer electrolytes for proton-conducting rechargeable batteries application	Lovely Ranjta, C. P. Singh and Neelesh Rai	Materials Today: Proceedings
study of educational achievement and practical problems of male/female teachers working	Dr.Sanand Kumar	Madhya bharti humanities and social sciences



Self esteem and its impact on academic achievement among DDU Gorakhpur University	Dr.Sanand Kumar	Asian Journal of Organic & Medicinal Chemistry
Significance of electronics in food technology and food industry	Gauri Richharia, Atul Deep Soni, Vikas Singh and Saket kumar	International Journal of Food and Nutritional Sciences
New advance technologies in agricultural engineering	Gauri Richharia, Atul Deep Soni, Madhulika Singh and Saket Kumar	International Journal of Food and Nutritional Sciences
The influence of various phosphorus levels on varieties for growth, yield, and quality of Mustard [Brassica juncea (L.) Czern & Coss.]	Aman Pandey, Brindaban Singh, Ayodhya Prasad Pandey, Rajbeer Singh Gaur and Neeraj Verma	International Journal of Food and Nutritional Sciences
Variability, Heritability and Genetic advance Studies of Maize (Zea mays L.) Genotypes at Satna District of Vindhya Region	Deepak Kumar, Rajbeer Singh Gaur, Ayodhya Prasad Pandey, Brindaban Singh and Neeraj Verma	International Journal of Food and Nutritional Sciences
Estimates on Characters Association and Path Coefficient Analysis in Maize (Zea mays L.) Varieties in District Satna of Madhya Pradesh	Deepak Kumar, Rajbeer Singh Gaur, Ayodhya Prasad Pandey, Brindaban Singh and Neeraj Verma	International Journal of Food and Nutritional Sciences
Variability, Heritability and Genetic advance Studies of Mungbean Genotypes (Vigna radiata L.) at Satna District of Madhya Pradesh (India)	Aradhna Nagpure, Prachi Singh, Rajbeer Singh Gaur, Brindaban, Singh, Ayodhya Prasad Pandey, Neeraj Verma	International Journal of Food and Nutritional Sciences
Variability Studies of Mustard Genotypes [Brassica juncea (L.) Czern and Coss] for Quantitative Traits and Yield Components at Satna District of Madhya Pradesh (India)	Rajbeer Singh Gaur, Ayodhya Prasad Pandey, Lavkesh Lodhi, Brindaban Singh, Neeraj Verma	International Journal of Food and Nutritional Sciences



Correlation, Direct and Indirect Effect Studies of Different Characters on Seed Yield of Chickpea (<i>Cicer arietinum</i> L.) at Satna District of M.P.	Pawan Mishra, Prachi Singh, Ayodhya Prasad Pandey, Rajbeer Singh Gaur, Ankit, Bhagat, Neeraj Verma	International Journal of Food and Nutritional Sciences
Estimates on Characters Association and Path Coefficient Analysis in Garden Pea (<i>Pisum sativum</i> L.) Varieties in District Satna District of Madhya Pradesh	Ayodhya Prasad Pandey, Abhishek Sahu, Rajbeer Singh Gaur, Brindaban Singh, Neeraj Verma	International Journal of Food and Nutritional Sciences
Effect of organic manures on growth, yield and economics of onion (<i>Allium cepa</i> L.) in agroclimatic condition of Satna region	Najil Mohammad and Birendra Vikram Singh	Ann. Pl. Soil. Res. 24(4):670-672
Response of gibberellic acid on growth and attributes of radish (<i>Raphanus sativus</i>)	Singh, Birendra Vikram and Sansiya, Deepak	International Journal of Food and Nutritional Sciences
Effect of inorganic fertilizer and organic manure on growth, yield and quality of carrot (<i>Daucus carota</i> L.)	Ashish Kumar Sahu and Abhishek Singh	International Journal of Food and Nutritional Sciences
Effect of plant growth regulators on growth and quality of onion (<i>Allium cepa</i> L.)	Shubham Bansod, Abhishek Singh and Anshul Asre	International Journal of Food and Nutritional Sciences
Performance of organic manures, inorganic fertilizers, and their combinations on growth, yield and quality of radish (<i>Raphanussativus</i> L.)	Pushpendra and Anshul Asre	International Journal of Food and Nutritional Sciences
Models for forecasting Incidence of Thrips in Jabalpur District of Madhya Pradesh	Navneet Raj Rathore, Vikas Chandra, Neelash Patel	International Journal of Food and Nutritional Sciences
AI-based Modeling and Optimization of Rotating Magnetic Force assisted Powder	Pankaj K Shrivastava	International Journal of Abrasive Technology



Anthropogenic arsenic menace in contaminated water near thermal power plants and coal mining area of India	B. K. Mishra	Environmental Geochemistry & Health
Formulation and evaluation of the herbal shampoo	Prabhakar Tiwari, Madhu Gupta & Surya Prakash Gupta	European Chemical Bulletin
The Role of Local application of Daruharidra (<i>Berberis Aristata DC.</i>) and madhu (Honey) in Dushtavrana	Madhu Gupta, Prabhakar Singh Tiwari, Neha Goel, Surya Prakash Gupta	European Chemical Bulletin
Review of pharmacological effects of Zizyphusoenoplia (L.) Mill : A Comprehensive Analysis	Priyanka Gupta, Satyendra Garg, Neha Soni, Surya Prakash Gupta	European Chemical Bulletin
Formulation and Evaluation of Herbal Laundry Soap from Hingot Fruit	Madhu Gupta, Neha Goel, Prabhakar Singh Tiwari, Surya Prakash Gupta	European Chemical Bulletin
Review Article on Tulsi (Ocimum sanctum Linn.): Its Medicinal Properties and Importance in Traditional Indian Medicine	Shikha Singh, Anchal Pandey, Neha Goel, Madhu Gupta and Surya Prakash Gupta	History of medicine
A Review Article on Alzheimers disease	Rohit Pandey, Madhu Gupta, Shikha Singh, Neha Goel, Prabhakar Singh Tiwari and Surya Prakash Gupta	History of medicine
Recent advancements and clinical applications of liposomal delivery systems in cancer treatment	Shikha Singh, Madhu Gupta and Surya Prakash Gupta*	History of medicine
Formulation and Advancement of New Potential Therapies for Alzheimer's Disease	Dr. Sarita Santosh Mulik, Dr. Santosh Shivaji Mulik, Dr. Surya Prakash Gupta	History of medicine



New Report of Rust Disease of Jangali Gobhi (<i>Launaea procumbens</i> (Roxb.) Ramayya & Rajagopal, a medicinal plant in Satna, M.P.	Doomar Singh, Moti Lal	International Journal of Food and Nutritional Sciences
Screening of Mustard Cultivars/ genotypes against systemic infection caused by <i>Albugo candida</i> (Pers. Ex. Lev.) Kuntz	Moti Lal, Doomar Singh, Rajbeer Singh, Ayodhya Prasad Pandey	International Journal of Food and Nutritional Sciences

3.4.4 Books & Book Chapters

Number of books and chapters in edited volumes published Department and teacher wise during the year is detailed below.

Name of the teacher	Title of the book published	Title of the chapters published	Name of the publisher
Ashutosh Pandey		Genetic manipulation of microalgae for enhanced biotechnological applications. Handbook of Algal Biofuels https://doi.org/10.1016/B978-0-12-823764-9.00019-4	Elsevier
Ashwini A. Wao	Technology and innovations		AG Publishing House (AGPH Books)
Ashwini A. Wao		Biochar for the remediation of contaminated soil	Walter de Gruyter GmbH & Co KG
Ashwini A Wao, Razda Sheikh, Akhilesh A Wao		Nurturing the roots of higher education and research during the pandemic – Indian perspective	Pandemic 2020: Opportunities & Challenges, The Bhopal School of Social Sciences, Bhopal
Ashwini A Wao, Akhilesh A Wao		COVID-19 Pandemic Outbreak and its influence in Indian perspective	Shriyanshi Prakashan, Agra
Arpit Srivastava	Bio Technology questioning the		Book rivers



	reasons Addition-1		Publication
Kamlesh Choure		Environmental Biotechnology: An Overview	Taylor & Francis Group
Dr. Akhilesh A. Waoo	Proceedings of the International Conference on Emerging Trends in Artificial Intelligence and Smart Systems, Theetas 2022.		International Publication - EAI Publishing
Dr. Akhilesh A. Waoo	Communication Networks - Operations and Approaches		AGPH (Academic Guru Publishing House)
Dr. Akhilesh A. Waoo		Packet Delivery Comparison Using Artificial Bee Colony Algorithm with Dynamic Technique	Springer, Singapore
Dr. Akhilesh A. Waoo		Enhancing ABC with Dynamic Techniques to Optimize the Execution Time	EIA, EUDL (European Union Digital Library)
Dr. Akhilesh A. Waoo		User authentication system for securing and identifies by user and IOT device	EIA, EUDL (European Union Digital Library)
Dr. Akhilesh A. Waoo		Analysis of Supervised Machine Learning Classifier Techniques used in Gesture Classification	EIA, EUDL (European Union Digital Library)
Dr. Akhilesh A. Waoo		An Analytical Study of Energy Efficient Routing Approaches in Wireless Sensor Network	EIA, EUDL (European Union Digital Library)
Dr. Akhilesh A. Waoo		Fault-Tolerant Framework With Federated Learning For Reliable And Robust Distributed System	EIA, EUDL (European Union Digital Library)
Dr. Akhilesh A. Waoo		An Efficient Weed Growth Rate Estimator	EIA, EUDL (European Union



Dr. Akhilesh A. Wao		Optimizing fuzzy adaptive based metaheuristics abc to detect malicious node to improve the performance of wsn	EIA, EUDL (European Union Digital Library)
Dr. Akhilesh A. Wao		Secure and Stable Routing Protocol for Wireless Network: A Review Paper	EIA, EUDL (European Union Digital Library)
Dr. Subhadra Shaw		Sentiment Analysis Approaches: A Systematic Review	EIA, EUDL (European Union Digital Library)
Dr. Subhadra Shaw		Mitigating user cold-start issue in Recommendations System	EIA, EUDL(European Union Digital Library)
Ashwini A Wao, Akhilesh A Wao		COVID-19 Pandemic - Issues Challenges and Outcomes	The Bhopal School of Social Sciences, Bhopal
Pankaj k shrivastava		Cosmological Models based on Artificial Intelligence Approach for Conharmonically Flat Space Time	IEEE
Dr. Doomar Singh		Leaf Extract of Cassia fistula: A Biofungicide against Colletotrichum gloeosporioides and Cercospora bataticola	B P International
Dr. Doomar Singh		Ergot, Ergotism and Its Pharmaceutical uses, Industrial Applications of Soil Microbes	Bentham Science Publishers Pte. Ltd Singapore



3.5. Patents & Copyrights

Number of Patents awarded during the years 2022-23

Year of award	Date of Award	Name of the Faculty/student author of the patent	Patent Number	Patent Awarding Agency
2022	12/11/2022	Dr. Akhilesh A. Wao	202221061014	Indian Patent Office
	25/11/2022	Dr. Akhilesh A. Wao	202241064060	Indian Patent Office
	16/12/2022	Anant Kumar Soni, Dr. Kamlesh Choure, Sourabh Singh Gour, Vivek Agnihotri	20212102 5706	Indian Patent Office
Total				03
2022-23	09/01/2023	Sumit Pandey & Dr. Surya Prakash Gupta	202321040555	Indian Patent Office
	09/01/2023	Santosh Kumar & Dr. Surya Prakash Gupta	202321040556	Indian Patent Office
	06/02/2023	Digvijay Singh & Dr. Surya Prakash Gupta	202321029706	Indian Patent Office
	31/03/2023	Ashutosh Pandey, Kamlesh Choure and Ashwini A Wao	202341018091	Indian Patent Office
	11/04/2023	Shikha Singh, Roshni Tiwari, Kalicharan Sharma, Mymoona Akhtar & Surya Prakash Gupta	202321075319	Indian Patent Office
	19/05/2023	Gulshan Rathore, Sushama Rawat, Gundlapalli Swarnalatha, Dr. Richa Mishra, Dr. Kaushelendra Mishra, Dr. Surya Prakash Gupta, Dr Shobha kulshrestha, Prasad GorAKShanath Ghugarkar, Aditi Omprakash Jyotishi, Ms. Roshani Kumari,	202311023107	Indian Patent Office



		Ravindra D. Hiremath		
	10/06/2023	Dr. Shailendra Yadav	2023221060106A	Indian Patent Office
	16/06/2023	Dr. Akhilesh A. Wao	202121057235	Indian Patent Office
Total				08
Grand Total				11

3.6 Grants and Funding

Internal Research Project, Seed Money

Name of the faculty recipient of Seed Money	Name of the Project	Grant for the year
Dr Ashwini A. Wao	IOT soil nutrients monitoring and analysis for bioremediation	2022-2023
Dr. Ashutosh Pandey	Biofuel production from micro algae	2022-2023
Mrs. Shruti	Intelligent Chatbot for personalized Assistance	2022-2023
Ms Poonam Sharma	Dairy poential and importance of A2 milk of Gir and Sahiwal cows	2022-2023
Dr SK Pandey	Studies on replacement of commercial poultry ration with Azolla	2022-2023
Dr Pranesh Singh Baghel	Studies on integrated chicken, azolla and fish farming	2022-2023
Dr. Brindaban Singh	Foundation and certified seed production in oil seed crops and its conservation	2022-2023
Miss Prachi Singh	National initiatives for climate resilience in agriculture in relation to crop diversification	2022-2023
Dr. V. D. Dwivedi	Productivity improvement of wheat crop through ridge furrow sowing	2022-2023



	method for increasing water use efficiency	
Dr. Kamlesh Choure	Development of protocol for Cordyceps militaris production	2022-2023
Dr. Kamlesh Choure	Development of organic compost production method for mushroom production	2022-2023
Dr.Surya Prakash Gupta	Design And Synthesis Of 2-(Indolin-1-Yl)-5- (Trifluoromethyl) Aniline Based Novel Pharmaceutical Agents and their Biological Evaluation	2022-2023
Dr. Surya Prakash Gupta	Formulation Optimization Of Lavender Essential Oil Loaded Lipid Nanoparticles	2022-2023
Dr. Gopal Garg	Design, Development of Poly Herbal Formulation for Anti-Cancer Activity Through Site Specific Vesicular Drug Delivery System	2022-2023
Mr. Vishutosh Bajpai	Building Planning Design & Quantity Surveying Using BIM	2022-2023
Prof P K Palit	Sustainable mining using airpower	2022-2023
Dr. Shailendra Yadav	Development of Green Distemper and Night Glowing Emulsion Paint	2022-2023
Dr. Shailendra Yadav	Assembly and Method For Conversion of Plastic Waste in to Colourless Hydrocarbon Oil	2022-2023
Dr. C. P. Singh	Development of MWCNT Doped nano composite gel polymer electrolyte for electrochemical device application	2022-2023
Er.Prafull Gautam	Development of Bakery Centre	2022-2023



Mr. Brijnandan singh	Clinical Laboratory evaluation of HIV HBsAg In rural patient	2022-2023
Dr. Brajesh kumar	Physiotherapy management with LASER in patient with prolapsed intervertebral disc	2022-2023
Mr. Abhinav Shrivastava	Establishment of fine art lab for skill development	2022-2023





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4. Infrastructure and Campus Development

AKS University Satna has undertaken several significant infrastructure and campus development activities during the academic year 2022-23 to enhance the learning environment and support its growing student population. Here are some of the key developments:

4.1. Modernization of Classrooms

- **Smart Classrooms:** Several classrooms have been upgraded to smart classrooms, equipped with interactive whiteboards, projectors, and high-speed internet connectivity². This allows for more engaging and interactive teaching methods.
- **Classroom Renovations:** Existing classrooms have been renovated to provide a more conducive learning environment, including improved seating arrangements and better lighting.

4.2. Library and Digital Resources

- **Library Expansion:** The university library has been expanded to accommodate a larger collection of books, journals, and research papers¹. This includes both physical and digital resources.
- **Digital Library Access:** Enhanced access to digital libraries and online databases has been provided, allowing students and faculty to access a wealth of information from anywhere on campus.

4.3. Research and Development Facilities

- **Research Centers:** New research centers have been established, focusing on various emerging fields such as Data Science, Artificial Intelligence, and Environmental Science³.
- **Laboratories:** Modern laboratories have been equipped with state-of-the-art equipment to support advanced research and practical learning³.

4.4. Technological Infrastructure

- **Wi-Fi Network:** The campus-wide Wi-Fi network has been upgraded to ensure seamless connectivity for students and faculty.
- **Video Conferencing:** High-definition video conferencing systems have been installed to facilitate virtual lectures, seminars, and international collaborations.



4.5. Campus Amenities

- **Cafeteria and Dining Facilities:** The university cafeteria has been expanded and modernized to provide a variety of healthy and nutritious meal options for students.
- **Sports and Recreation:** New sports facilities, including a sports courts, and a fitness center, have been developed to promote physical well-being and recreational activities.

4.6. Sustainability Initiatives

- **Green Campus: Efforts** have been made to create a more sustainable campus by planting trees, installing solar panels, and implementing waste management systems.
- **Environmental Awareness Programs:** Programs and workshops have been organized to raise awareness about environmental conservation and sustainability among students and staff.

These infrastructure and campus development activities have significantly enhanced the overall learning experience at AKS University Satna, making it a more vibrant, modern, and student-friendly environment.

The Department of Chemistry at AKS University's Green Chemistry lab has successfully created two groundbreaking products using waste materials. Patents have been filed for these exceptional innovations. Here's a brief overview of the developed products:

- i. The Green Chemistry Lab at AKS University has created an environmentally-friendly paint using discarded plant leaves and other agricultural waste. This innovative paint formula is entirely free from hazardous chemicals. Not only is it long-lasting and cost-efficient, but it's also suitable for both indoor and outdoor applications.
- ii. The Green Chemistry Laboratory has also developed a waste plastic converter with the capability to transform plastic waste into liquid fuel oil. Through this process, 1 kilogram of waste plastic can yield 900 milliliters of liquid fuel. This resultant liquid fuel is suitable for use in diesel vehicles or any other diesel engines after being blended at a ratio of 70 parts diesel oil to 30 parts plastic oil.



Green Chemistry Lab with Ecopaint and Oil extraction from Polythene facility



Preparation of Eco Friendly Paint and Extraction of Fuel Oil in Gren Chemistry Lab

4.7 AKS Developer Student Club (ADSC)

University has separate crop cafeteria of Kharif, Rabi and Horticulture crops in which improved high yielding varieties of Kharif and Rabi crops were grown in AKS University Research Farm since last 11 years. The purpose of crop cafeteria is to teach the UG and PG students about the important characteristics of various high yielding varieties of kharif and rabi crops including horticultural crops. Farmers of surrounding areas, RAWE village adopted farmers and extension workers have also visited crop cafeteria site and appreciated very much



Some of Research activities carried out at AKSU Crop Cafeteria



5. Student Life and Extracurricular Activities

5.1. NCC, NSS, and UCC Activities:

Engaging in NCC, UCC and NSS inspires students to actively contribute to the advancement of the nation while nurturing a deep sense of patriotic dedication. The NCC/NSS initiatives cultivate a profound respect for the myriad differences in religion, language, culture, ethnicity, lifestyle, and habitat, fostering a strong sentiment of national solidarity and communal harmony. These undertakings enhance students' capacity to actively engage in community development and various other social initiatives.

AKS University has initiated the National Cadet Corps (NCC) program with the authorization of the relevant authority, utilizing its internal resources. Currently, NCC cadets are engaged in mandatory institutional training and are also required to participate in a minimum of two annual Combined Annual Training Camps (CATC) held off-campus.



AKS University NCC Wings



AKS University NCC Students participating in Independence day parade

NCC cadets actively participate in community service, such as organizing blood donation drives, facilitating tree plantation initiatives, promoting awareness campaigns like "Clean India", undertaking campus cleanup drives, and contributing to nearby orphanages and elderly care homes through donations and visits.

AKS University's NSS volunteers actively engaged in routine social service endeavors, encompassing initiatives such as organizing blood donation camps, conducting health and environmental awareness campaigns, planting trees, advocating for the Clean India campaign, undertaking campus cleanliness drives,

facilitating self-employment programs, and extending support to local orphanages and mental health facilities. Here is a glimpse of the various activities accomplished by the NSS students at AKS University:



AKS University NSS Unit

AKS University Cadet Corps (UCC): In accordance with regulatory guidelines, the availability of seats for participation in the National Cadet Corps (NCC) and National Service Scheme (NSS) at the university is limited. In order to expand the opportunities for students to engage in such enriching activities, AKS University has introduced the University Cadet Corps (UCC) Unit. This initiative was launched in the year 2018



Some Activities of AKS University UCC wing



5.2. Camps Attended by AKS University NCC SW Cadets

DURING (2022-2023)

Year	Date	Place	Name Of Bataliyan	No. Of Participants
2022	03-07/08/2022	Parade Ground Civil Line Rewa	3 MP BN NCC Rewa	17
2022	01-07/08/2022	Parade Ground Civil Line Satna	3 MP BN NCC Rewa	17



TRAKKING CAMP

Year	Date	Place	Name Of Bataliyan	No. Of Participants
2022	01-08/09/2022	AKS University	3 MP BN NCC Rewa	19
2022	12/07/2022	AKS University	3 MP BN NCC Rewa	15



2022	14 -23 /07/2022	Dri Chitrakoot	3 MP BN NCC Rewa	22
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EBSB CAMP

Year	Date	Place	Name Of Bataliyan	No. Of Participants
2022	24/12/202 To 2/01/2022	Kerela	Kerela Group	01
2022	7-18/09/ 2022	Raipur	EBSB Camp Was Conducted By Raipur Group	02
2022	1-16/08/2022	Delhi	EBSB IDC Delhi Camp Was Conducted	01
2022	5-13/05/2022	Chatterpur	EBSB Chatterpur Camp Was Conducted Group Headquator NCC Saugo	01

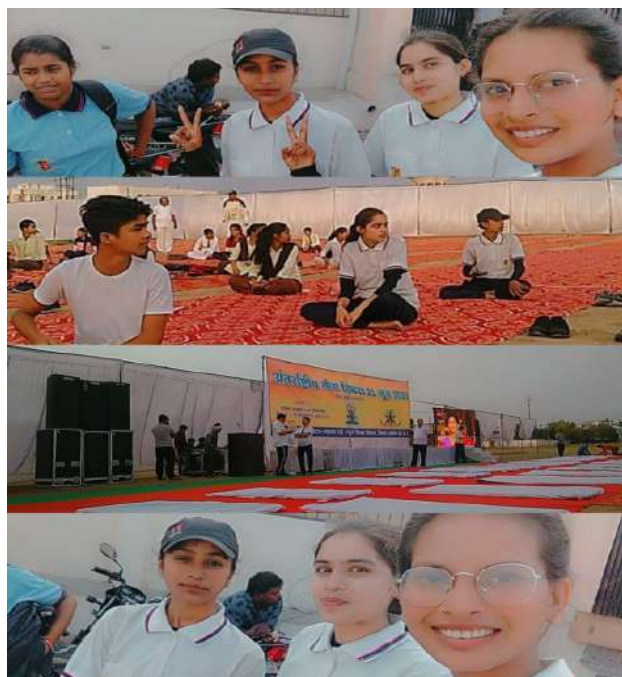


CATC -21 (DTE, IGC, RDC-1)

Year	Date	Place	Name of Bataliyan	No. Of Participants
2022	15 - 22/11/2022	RAIPUR	CATC-9 CAMP WAS CONDUCTED BY 27 CG BN NCC	02
<u>IDC DELHI</u>				
2022	1-16/08/ 2022	Delhi	IDC Delhi Camp Was Conducted	01

NCC DAY CELEBRATION

Year	Date	Place	Name of Bataliyan	No. Of Participants
2022	27/11/ 2022	AKS University	NCC Cadets SW	29



BETI BACHAO BETI PADHAO

Year	Date	Place	Name of Bataliyan	No. of PARTICIPANTS
2023	08/09/2023	AKS UNIVERSITY	NCC CADETS SD&SW OF AKS UNIVERSITY	23



VISHAV STANPAN DRAWING COMPETATION

Year	Date	Place	Name Of Bataliyan	No. Of Participants
2022	28/10/2022	AKS University	NCC Cadets Sd & Sw Of AKS University	02
2022	17/07/2022	AKS University	NCC Cadets Sd & Sw Of AKS University	24





STANDARD DRIFTING SERVICE (S.D.S.)	
ROLL NO. AND NAME OF WRITTEN QUALIFIED CANDIDATES	
STANDARD DRIFTING SERVICE (S.D.S.)	
ROLL NO.	NAME
000001	SHIVAM KUMAR
000002	SHIVAM KUMAR
000003	VISHAL KUMAR
000004	ADITHYAN KUMAR
000005	KRISHNA KUMAR
000006	ANANYA KUMAR
000007	ANANYA KUMAR
000008	ANANYA KUMAR
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5.2 NSS Club

NSS (National Service Scheme) Unit at AKS University, Satna

The NSS (National Service Scheme) Unit at AKS University, Satna, stands as a beacon of community engagement and social responsibility. Through its diverse range of extension activities, the NSS Unit embodies the university's commitment to fostering holistic development among students while making tangible contributions to society.

The NSS Unit at AKS University Satna not only encourages active participation from students but also collaborates closely with faculty members, local NGOs, government agencies, and community leaders to maximize the impact of its initiatives. By nurturing a spirit of volunteerism and civic duty, these extension activities not only enrich the learning experience of students but also nurture responsible citizenship and empathy towards societal needs.

NSS Activities in Year -2022-23

Date	Name of Activity	Place of activity	No. of students	Detail of Activity
10.01.2023	Voter Awareness Campaign	AKSU campus	54	Posters & speech on voter awareness
26.01.2023	Republic day celebration	AKSU campus	100	Republic day celebration presented a poem "Rastriya yuva geet". volunteers also presented a nukkadnatak with theme "Matdata jagrukta".
30.01.2023	Two minutes silence in	AKSU campus	66	Two minutes silence in the memory of martyrs in front of the statue of



	memory of martyrs			Father of the Nation Mahatma Gandhi, also planted seedling.
02.02.2023	Aao Computer ko jane	AKSU campus	30	30 Rural girls learn about Basic Computer and MS office-Microsoft Office
07.02.2023	Breast Cancer Awareness program	AKSU campus	10	Awareness drive to aaganbadi women workers and girls regarding Breast cancer.
14.02.2023	Black Day	AKSU campus	15	Tributes were paid to those martyred in the Pulwama attack in India on 14 February and a memorial was established in their memory.
20.02.2023	Plantation for Green drive	AKSU campus	18	Two years have been completed by the Chief Minister by planting saplings every day. On this occasion, the state Government has decided to plant trees extensively in the entire state on 19 February 2023.
22.02.2023	Satna Gaurav Diwas	AKSU campus	55	Satna Gaurav Diwas Rally organized from Satna Nagar Nigam to Dhawari Stadium with the cleanliness drive.
28.02.2023	Science Day Celebration	AKSU campus	21	On the occasion of Science Day, students of Biotechnology had made a working model of heart for organ literacy campaign and also some models related to engineering and presented them.
08.03.2023	Women's day Celebration	AKSU campus	22	LED Bulb Assembling Awareness program/
11.03.2023	Domestic appliances repairing Program	AKSU campus	20	In this Domestic appliances like mixer. Cooker, repairing Program has been conducted
12.03.2023	Use of solar energy awareness program	AKSU campus D-Block	21	Green energy like solar light awareness program conducted







List of UCC Activity Program

Year	Date	Place	Name Of Bataliyan	No. Of Participants
2022	12.11.2022	Distt. Hospital Satna	Swachh Bharat Mission	25
2022	03-12.2022	Muktiyar Ganj Satna	Raktdaan Jagrukta Rally	45
2022	05-12-2022	Aber Satna M.P	Ucc Anual Camp	40
2022	05-12-2022	Aber Satna M.P	Ucc Anual Camp	35
2022	10-12.2022	Aber Satna M.P	Ucc Anual Camp	25



**UCC ARMY ATTECHMENT
Jabalpur CAMP**



**VOLLEYBALL CHAMPIONSHIP
ABER**



5.4 . Coding Club

The AKS Developer Student Club (ADSC) is a student-led coding club at AKS University dedicated to fostering a vibrant coding culture and promoting the importance of programming among students. Our club serves as a platform for students to enhance their technical skills, collaborate on innovative projects, and connect with like-minded peers who share a passion for technology and software development.

The first building block of ADSC was setup in YEAR 2022-23 with the unwavering support of Dr. Akhilesh A. Wao (HOD CSE) and tremendous efforts of students of CSE Dept.

From there onwards ADSC has never looked back and tried the best to help students with all possible.

ADSC operates on the principles of collaboration, innovation, and continuous learning. Our activities are designed to cater to students at all levels of proficiency, from beginners with no prior coding experience to advanced developers looking to hone their skills further. By offering a wide range of events such as coding workshops, hackathons, guest lectures, and mentorship programs, ADSC aims to make programming accessible and engaging for everyone.

Sl. No	Name of faculty	Responsibility
1.	Dr. Akhilesh A. Wao	Head
2.	Anurag Garg	Mentor
3	Pradeep Singh	Lead
4	Avinash Agrawal	DSA Lead
5	Alok Tamrakar	Backend Lead
6	Muskan Shukla	AR/VR Lead
7	Naveen Gupta	Android Dev Lead
8	Satyam Garg	Frontend Lead
9	Vopender Chaudhary	Graphic Design Lead
10	Veebahadur Sen	Web Dev Lead
11	Sahdev Patel	PR/Management Lead

5.8 Cultural Club -Cultural Activities at the University

The Cultural Directorate at AKS University in Satna stands as a pivotal hub for the preservation and enrichment of cultural and archaeological heritage in the local and surrounding areas. This directorate is committed to fostering the cultural development of students through diverse avenues such as workshops, training programs, and competitions. Its primary dedication lies in preparing students for diverse realms of arts and culture.



In pursuit of this goal, the Cultural Directorate emphasizes the development of practical skills and the acquisition of a comprehensive knowledge base. The central objective is to nurture creativity and its expressive manifestation within the collaborative context of a group. Actively engaged, the Cultural Directorate promotes various genres of performing arts, including Classical, Traditional, Folk, and Tribal forms in the fields of Music, Dance, Drama, and Fine Arts.

To further support student artists, different clubs have been established, and selected individuals are offered stipends, reinforcing the commitment to cultivate and encourage artistic talents.

Within AKS University Cultural Directorate thrives with the sole purpose of delving into and preparing students for a diverse range of cultural engagements. This hub orchestrates a multitude of events through its distinct centres, each designed to foster cultural exploration and expression.

- Society for Dramatic Art and Short Films
- Centre for Dance and Music
- Club for Photograph and Fine Arts

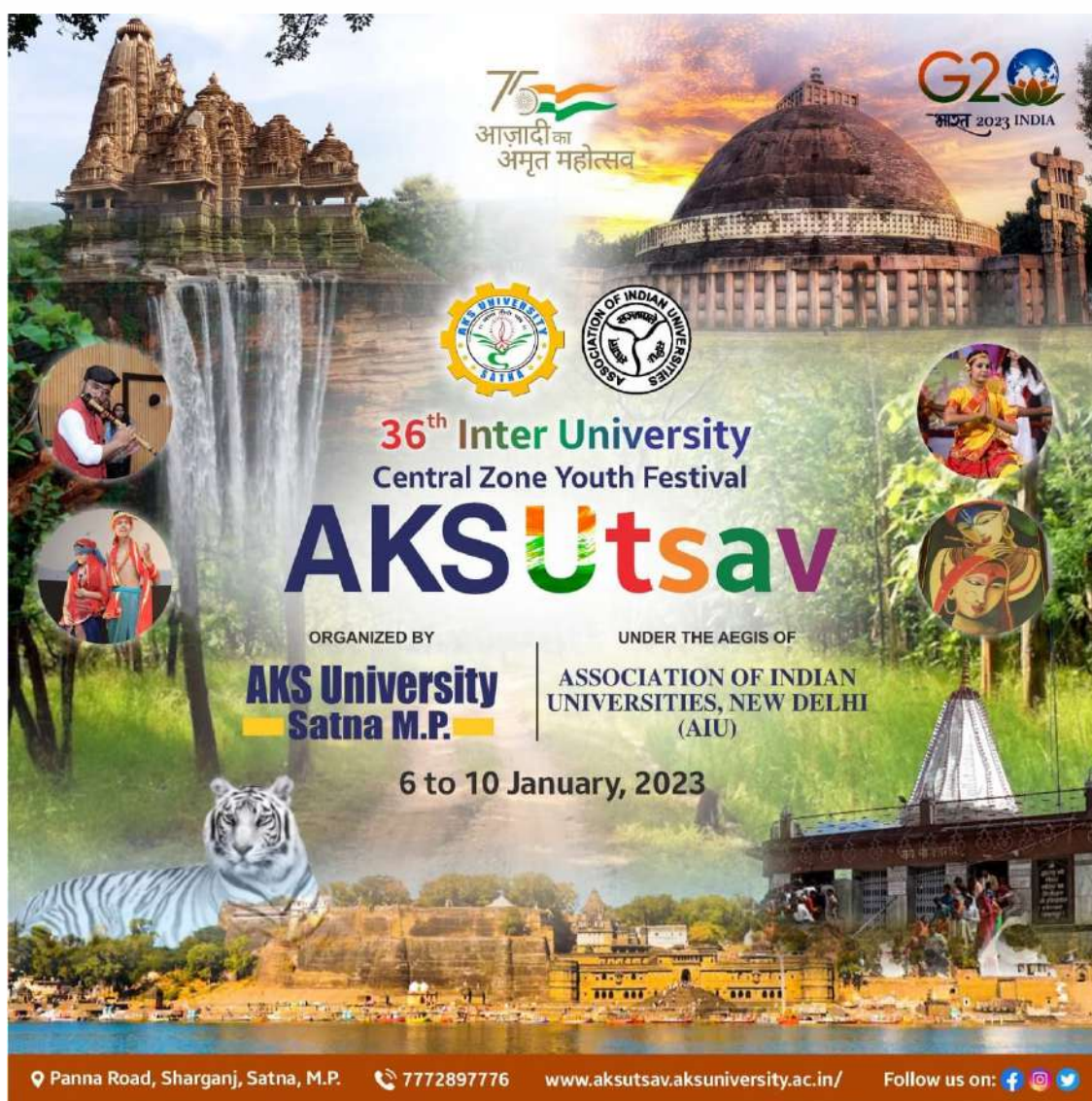
The Dramatic Society is dedicated to arranging cultural events for students at both the intercollegiate and intercollegiate levels. Annually, the society hosts intercollegiate cultural competition aimed at promoting creative expression among students. Additionally, students are actively motivated to engage in intercollegiate cultural programs such as "Spondan." Notably, our students consistently take part in inter university zonal cultural festivals and youth festivals, showcasing their talents and enthusiasm. The below photographs showing some of the cultural activities performing by the AKS University students.

5.9. 36th Inter-University Central Zone Youth Festival 2022-23, AKSUtsav

The 36th Inter-University Central Zone Youth Festival 2022-23, AKSUtsav, took place from January 6th to 10th, 2023, at AKS University in Satna, Madhya Pradesh. Hosted by AKS University and under the aegis of the Association of Indian Universities (AIU), New Delhi the event saw participation from 23 universities across Madhya Pradesh and Uttar Pradesh, with 801 students and team managers competing in 28 events across six categories: Cultural Procession, Music, Dance, Literary, Fine Arts, and Theatre. The festival kicked off with a grand opening ceremony at AKS University's Open Air Theatre, followed by a cultural procession on January 6th, which was flagged off by the Honorable



Vice Chancellor and the AIU Observer. The subsequent days featured a wide range of competitions, including Western Vocal Solo, One Act Play, Classical Dance, Skit, Folk Tribal Dance, and more. Highlights included a Mega Cultural Night & Open Mic on January 9th, where students from participating universities performed, and a Valedictory Ceremony on January 10th. Banaras Hindu University emerged as the overall champion, winning 24 awards, while Devi Ahilya Vishwavidyalaya, Indore, claimed the 1st Runner-Up spot, followed by Raja Mansingh Tomar Music and Arts University, Gwalior, as the 2nd Runner-Up. The festival concluded with a vote of thanks from the organizers, celebrating the successful culmination of this vibrant cultural exchange.





Facilitation of Joint Secretary, AIU Chief Guest of Programme at Valedictory function of 36th Inter University Central Zone Youth Festival 2022-23, “AKSUtsav” organized by AKS University Satna under the aegis of Association of Indian Universities AIU New Delhi 06-10 January 2023



Facilitation of Observer, AIU Special Guest of Programme at Valedictory function of 36th Inter University Central Zone Youth Festival 2022-23, “AKSUtsav” organized by AKS University Satna under the aegis of Association of Indian Universities AIU New Delhi 06-10 January 2023



Facilitation of award ceremony and facilitation of winners at 36th Inter University Central Zone Youth Festival 2022-23, “AKS Utsav” organized by AKS University Satna under the aegis of Association of Indian Universities AIU New Delhi 06-10 January 2023





5.10. Awards/medals won by students for outstanding performance in cultural activities at inter-university/state/national/international events

Year	Name of the award/ Medal	Team/ Individual	Inter-university / State / National / International	Name of the event
2022	First Rank	Individual	Inter University	Cookery / Eat Right Mela -2022 organized By Collector and Food and Drug Adminstration District Satna on 08 August 2022
2022	First Rank	Individual	Inter-University	Petriotic Song/ Inter University District Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 27 to 28 September 2022
2022	First Rank	Individual	Inter-University	Speech/ Inter University District Azadi Ka Amrit MahotsavaEvent Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 27 to 28 September 2022
2022	First Rank	Individual	Inter-University	Spot Painting/ Inter University District Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 27 to 28 September 2022
2022	First Rank	Individual	Inter-University	Slogan Writing / Inter University District Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 27 to 28 September 2022
2022	First Rank	Individual	Inter-University	Petriotic Song/Inter University Division Level Azadi Ka Amrit



2022	First Rank	Individual	Inter-University	Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. TRS College Rewa on 15 October 2022
2022	First Rank	Individual	Inter-University	Speech/ Inter University Division Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Model Science College Rewa on 14 October 2022
2022	First Rank	Individual	Inter-University	Spot Painting/ Inter University Division Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Sanjay Gandhi College Sidhi on 12 October 2022
2022	First Rank	Individual	State	State Level Sugam Sangeet Competiton (National Lata Mangtreshkar Samman Alankaran Prasang) -2022 organized by Ministry of Culture, Govt. of Madhya Pradesh, Bhopal on 27 September 2022
2022	Second Rank	Individual	Inter University	Speech Competition/ Inter University District Level Youth Festival (India @2047 Yuva Samvad) organized By Neharu Yuva Kendra, Satna (M.P.) Ministry of Youth Affairs and Sports, Government of India) on 14/10/2022
2022	Second Rank	Team	Inter University	Street Play / Inter University District Level Competition on Swachchh Sarvekshan 2022 organized by Office Nagar Palik Nigam Satna Madhya Pradesh on 14 February 2022
2022	Second Rank	Individual	Inter University	Speech / Eat Right Mela -2022 organized By Collector and Food and Drug Adminstration District Satna on 08 August 2022



2022	Second Rank	Individual	Inter University	Painitng / Eat Right Mela -2022 organized By Collector and Food and Drug Adminstration District Satna on 08 August 2022
2022	Second Rank	Individual	Inter University	Poster Making / Eat Right Mela -2022 organized By Collector and Food and Drug
2022	Second Rank	Individual	Inter-University	Faincy Dress Competiton / Inter University District Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 27 to 28 September 2022
2022	Third Rank	Individual	Inter-University	Story Writing/ Inter University District Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 27 to 28 September 2022
2022	Third Rank	Individual	Inter-University	Story Writing/Inter University Division Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 17 October 2022
2022	Third Rank	Individual	Inter-University	Poetry Singing Competiton / Inter University District Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt. Autonomous P.G. College Satna on 27 to 28 September 2022
2022	Third Rank	Individual	Inter-University	Poster Making Competiton / Inter University District Level Azadi Ka Amrit Mahotsava Event Organized By Department of Higher Education Govt. of Madhya Pradesh Hosted By Govt.

2022	Sixth Rank	Individual	Inter University	Inter University District Level Yuva Panchayat 2022 Organized By Department of Higher Education, Govt. of Madhya Pradesh Hosted by Govt. Autonomous P.G. College Satna on 15 July 2022
2022	Certificate of Appreciation	Individual	Inter University	Lokgeet Gayan / Lokutsav Bharat Parv Republic Day Programme 2022 organized by Office of Collector and District Majistrate District Satna on 26 January 2022
2022	Represented Satna District at State Level	Individual	State	State Level Yuva Panchayat 2022 Yuva Panchayat 2022 Organized By Department of Higher Education, Govt. of Madhya Pradesh at Raveendra Bhavan, Bhopal on 22-23 July 2022



IInd Rank in Cultural Procession/ 36th Inter University Central Zone Youth Festival, 2022-23 AKS Utsav Organized By AKS University, Satna under the aegis of Association of Indian Universities (AIU) New Delhi from 6 - 10 January 2023



Performance of Group Song Indian / 36th Inter University Central Zone Youth Festival, 2022-23 AKS Utsav Organized By AKS University, Satna under the aegis of Association of Indian Universities (AIU) New Delhi from 06 to 10 January 2023



IInd Rank in Group Song Indian / 36th Inter University Central Zone Youth Festival, 2022-23 AKS Utsav Organized By AKS University, Satna under the aegis of Association of Indian Universities (AIU) New Delhi from 06 to 10 January 2023



Vth Rank in Classical Dance / 36th Inter University Central Zone Youth Festival, 2022-23 AKSUtsav Organized By AKS University, Satna under the aegis of Association of Indian Universities (AIU) New Delhi from 06 to 10 January 2023



Vth Rank in Spot Photography/ 36th Inter University Central Zone Youth Festival, 2022-23 AKSUtsav Organized By AKS University, Satna under the aegis of Association of Indian Universities (AIU) New Delhi from 06 to 10 January 2023





6. Community Engagement and Social Responsibility

In the year 2022-23, AKS University continued its commitment to serving the local community through various outreach initiatives in education, health, agriculture, and sustainability. These programs aim to uplift and empower the surrounding communities in Satna and nearby areas, supporting sustainable development and social well-being.

- **Education Initiatives:**

- The university organized educational workshops and literacy programs in local schools and communities, promoting digital literacy and foundational skills.
- Faculty and students conducted skill development sessions, focusing on employability skills, financial literacy, and entrepreneurship to empower local youth and improve job prospects.

- **Health and Wellness Programs:**

- Health camps were held to provide free medical check-ups, screenings, and consultations in rural areas with limited access to healthcare facilities.
- Students and faculty from health-related departments offered workshops on nutrition, hygiene, and preventive healthcare, raising awareness about common health issues and promoting wellness.

- **Agricultural Training and Support:**

- Through the **Rural Agriculture Work Experience Program (RAWEP)**, AKS University adopted villages in the Satna district, where students provided training to local farmers on sustainable farming practices, water management, and soil health.
- Demonstrations on organic farming, pest control, and crop rotation aimed to enhance productivity and promote eco-friendly practices among farmers.

- **Sustainability and Environmental Programs:**

- AKS University promoted sustainable practices in local communities by conducting workshops on waste management, water conservation, and renewable energy.



- The university initiated tree plantation drives and environmental awareness campaigns, encouraging students and residents to participate in creating a greener, more sustainable environment.

These community outreach programs underscore AKS University's mission to contribute to societal development through practical, impactful projects. By integrating students into these initiatives, the university enhances their understanding of real-world issues and instills a sense of responsibility towards community welfare and sustainability.

5.1 Outreach Programs

5.1.1 Seed Production Programme

Under Experiential Learning programming (ELP) University has started seed production programme in which students are allotted land to grow all important kharif and rabi crops using improved technologies. Since last four years seed production programme of improved varieties of all the important Kharif and Rabi crops are going well. Improved seeds of various crops produced during kharif and rabi season are distributed among the adopted farmers of RAWA villages and remaining seeds are supplied to the needy farmers of surrounding villages.

5.1.2 Organic Farming and Vermi Composting

University has demarcated 15 acres of land for performing organic farming (Organic farming block). All the crop residue, cattle wastes, Horticultural crops waste and mandi wastes (vegetables and fruit wastes) are used in preparing compost. Organic insecticides, neem-based kernels (neem oil and neem cakes), fish slurry, Amrat pani are being successfully produced and are being used in growing of rice, Mung bean, wheat, gram, fodder crops, urad and all vegetables in kharif and rabi season. Organic insecticides developed in the dairy unit are used in organic farming unit of AKS University and also supplied to the RAWA adopted farmers who are performing organic farming.

University has established Vermicompost unit nearby dairy farm. This unit has more than 50 pits equipped also with vermin wash unit producing more than 173 ton of vermicompost and same is used in research experiments of Agronomy and Horticulture, poly houses and also in organic farming unit.



5.1.3 Mushroom Cultivation and Training

Faculty of Agriculture Science and Technology along with Faculty of Life Science Biotechnology Department develop a Mushroom cultivation and training center in the AKS University. The objective of this center is to develop new and cost affective techniques for mushroom cultivation, which will help farmer and unemployed youth for self employment and develop new entrepreneurship in rural area of Satna district. Faculty has decided to run a 7 days Training program including hands-on training related to mushroom cultivation and spawn production for different species mushroom (Oyster and Button mushroom). Interested farmers and young unemployed youth will be trained to start their own business.



5.2 Social Responsibility Initiatives

Extension Activity-

The Faculty of Agriculture Science and Technology Department of Agriculture Extension takes an active role in rural development by adopting 35 villages surrounding Satna. Through the Rural Area Work Experience (RAWE) projects, undergraduate B.Sc.



(Hons) Agriculture students engage with local farmers to impart advanced agricultural practices

Kisaan Sanghosthi Year 2022-23 in RAWE allotted village

S.No	Name of village	Date	Number of participants	Resource person	Objective of programme
1.	Madhavgadh	15-09-2022	30	Dr. S S Tomar Dr. Nalin Khare Prof. R.C. Tripathi	Plants and planet
2.	Lohra	11-10-2022	35	Dr. Bharti Sao Dr. Abhishek Singh Prof. R.C. Tripathi	Conservation of our natural resource
3.	Marahua	12-11-2022	25	Dr. SS Tomar Dr.NalinKhare	Organic farming
4.	Gada	12-10-2022	28	Mr. Aditya Kumar Patel Dr. Rama Sharma	IPM
5.	Sidhauli	28-10-2022	35	Dr. Doomar Singh Dr. Brindavan Singh Prof. R.C. Tripathi	Awareness about plant Health



Faculty of Agriculture Science and Technology students working in RAWE program

5.3. Establishment of Nutri-Garden under RAWE Programme in dopted villages

The nutri garden plays an important role to provide nutritious food material and improve health quality of the people of the villagers. Growing of seasonal fruits and vegetables in the backyard spaces of the farmer's house with the participation of rural women is an urgent need of hour for an improvement of the economic conditions with the sale of excess produce and consumptions of quality nutritious food for mainnting healthy life.

Looking to the above importance of Nutri-Gardens, the Faculty of Agriculture Science & Technology, AKS University, Satna established **311** Nutri-gardens for small and marginal farmers of **37** villages of Satna district in two phases under RAWE programme in which students visit in allotted villages and perform their activities of plantation for kitchen gardens



and nutritious gardens along with collection of data related to biodiversity and agrobiodiversity conservation and problems of villages, farmers related to water, soil, flora and fauna etc.

This programme was implemented under two phases. First phase includes plantation of fruit plants whereas Second phase includes establishment of organic vegetable garden round the year.

Good quality plant materials and vegetable seeds were provided by the AKS University to the farmers procured from ICAR-Central Institute of Subtropical Horticulture, Lucknow.

5.4 Establishment of Poshan Vatika

Important species of plant diversity has been introduced in farmer's field with view to multiply them and steps towards insitu conservation. The scientific harvesting of bioresources will lead to sustainable utilization

Name of village	Year	Date	Resource person
Madhavgad	2022-23	01-07- 2022	Anoop Shukla , VipinKumar
Lohra	2022-23	09-07- 2022	Shivram Prajapati, Rafiya Ameen
Marahua	2022-23	06-08- 2022	Anoop Shukla
Jakhi	2022-23	26-09- 2022	Shivram Prajapati
Lalpur	2022-23	22-07- 2022	Rafiya AmeenAnshul Asre
Karhi	2022-23	12-10- 2022	Sanjay LilhareAP
Bhaad	2022-23	18-10- 2022	Garima Singh
Sherganj	2022-23	17-10- 2022	Dr. Nalin Khare
Sitpura	2022-23	01-09- 2022	Sumit Tiwari

Itma	2022-23	01-09- 2022	Anoop Shukla
Sohaula	2022-23	28-10- 2022	Vishnu Omar
Bachbai	2022-23	17-11- 2022	Abhishek Singh
Sahijanakothar	2022-23	13-10- 2022	Rafiya Ameen
SahijanaUbaari	2022-23	23-11- 2022	Anoop Shukla



PoshanVatika at KarhiKothar Village



Village- Itma

Village- Sitpur



Involvement of Aganvadi workers in Village Biodiversity Conservation at KarhiKotharVillage



Sitpura



Lohra

5.5 AKS Radio

The first and only community radio of Satna M.P.

AKS Radio 90.4 FM is licenced from Ministry of Information and Broadcasting, Govt of India and Ministry of Communication and Information Technology, Govt of India.



Our station has a **broadcasting range of over 30kms radius** from Satna, covering **2.8 lac** of population. Listenership as of now is more than 10,000 approx.

AKS Radio was Started on 12th January 2023 on occasion of **Yuva divas** which is the birthday of Swami Vivekananda the great saint, motivator and spiritual writer and orator . Its Broadcasting center is in AKS University Campus and hosted by Mr. Sanjay Gupta a Radio Jockey.





6. Faculty Development and Achievements

9.1 Professional Development and Training

Faculty Development Programs at AKS University Satna (2022-23)

Faculty development programs are essential for maintaining the highest standards of education and fostering a culture of continuous improvement. At AKS University Satna, these programs play a pivotal role in enhancing the professional skills of the teaching staff, ensuring they remain well-equipped to meet the evolving demands of modern education. Here are some key reasons highlighting the importance of these programs:

Enhancing Teaching Skills

Faculty development programs provide educators with the latest pedagogical techniques and teaching methodologies, such as the use of ICT in education, flipped classrooms, and blended learning. This enables faculty members to deliver more effective and engaging instruction, ultimately improving student learning outcomes.

Promoting Research and Innovation

By offering support and training in research methodologies, these programs encourage faculty members to engage in innovative research projects. This not only contributes to the university's academic reputation but also advances knowledge in various fields. The availability of research grants and guidance in developing research proposals further supports this objective.

Keeping Up with Technological Advancements

In today's digital age, staying updated with the latest technological tools and platforms is crucial. Faculty development programs at AKS University include training in online teaching tools, digital resources, and video conferencing systems. This ensures that educators can effectively integrate technology into their teaching practices, providing students with a modern and relevant education.

Encouraging Professional Growth

Continuous professional development is vital for career advancement and personal satisfaction. These programs provide opportunities for faculty to enhance their skills, gain new knowledge, and stay updated with industry trends. Participation in workshops,



conferences, and exchange programs also facilitates networking and collaboration with peers from other institutions.

Improving Student Outcomes

Well-trained and motivated faculty members can significantly impact student success. By enhancing teaching quality and research capabilities, these programs indirectly contribute to better student performance, higher retention rates, and improved graduation outcomes. A supportive and dynamic learning environment nurtured by skilled educators benefits students' overall academic and personal development.

Strengthening the University's Reputation

A strong focus on faculty development demonstrates AKS University's commitment to academic excellence and continuous improvement. This not only attracts high-quality faculty members but also enhances the university's reputation among prospective students, parents, and academic peers.

In summary, faculty development programs at AKS University Satna are crucial for fostering a culture of excellence, innovation, and continuous learning. These programs ensure that faculty members are well-prepared to provide the best possible education to students, driving the university's mission of academic and research excellence.

To keep the above-mentioned facts in mind there are three Major faculty development programmes have been organized in Year 2022- 23.

6.1. Qualitative Research Methods (Held)

A six days Faculty Development Program on "Qualitative Research Methods" at AKS University, Satna, was organized on 04th to 09th July 2022, plays a vital role in enhancing faculty research skills and knowledge in qualitative research approaches. This program equips faculty members with essential tools and methodologies for conducting in-depth, interpretive research, enabling them to explore complex social, educational, and behavioral phenomena.

Through sessions on data collection, analysis techniques, and interpretive frameworks, participants gain a deeper understanding of qualitative research processes, such as interviews, case studies, ethnography, and thematic analysis. The training supports faculty in producing high-quality research that contributes to a richer understanding of human behavior, social dynamics, and community needs—valuable for fields like social



sciences, management, and education. By empowering faculty to conduct and mentor students in qualitative research, this program strengthens the university's research output and supports academic excellence and interdisciplinary exploration.

Six Days Faculty Development Programme on Qualitative Research Methods

From 04-July-2022 to 09-July-2022

Organized by Faculty of Management Studies

Duration and Details	
Days	06
Mode	Offline
Duration	09:30 AM - 05:00 PM
Fees	05,00,000/- to 15,00,000/-

Programme Objectives

- To provide a comprehensive understanding of qualitative research methods.
- To develop research proposals and research plans.
- To conduct field research and data collection.
- To analyze and interpret qualitative data.
- To write research reports and dissertations.

Programme Content

Day	Topic	Activities
Day 1	Introduction to Qualitative Research	Introduction to Qualitative Research, Research Design, and Planning, Data Collection Methods
Day 2	Research Design	Research Design, Sampling, Data Collection, Data Analysis, and Reporting
Day 3	Data Collection	Data Collection, Data Analysis, and Reporting
Day 4	Data Analysis	Data Analysis, Data Interpretation, and Reporting
Day 5	Reporting	Reporting, Data Interpretation, and Reporting
Day 6	Conclusion	Conclusion, Data Interpretation, and Reporting

For Registration Scan QR Code

Registration Fee

05,00,000/- to 15,00,000/-

6.2. Faculty Development Programme on “Yoga for Happiness and Well-Being”

The faculty development program on “Yoga for Happiness and Well-Being” at AKS University, Satna, played a pivotal role in promoting holistic wellness among faculty members. Recognizing the impact of mental and physical well-being on teaching effectiveness and overall faculty satisfaction, the program focused on incorporating yoga practices that support stress reduction, mental clarity, and emotional balance.

Participants engaged in various yoga techniques, breathing exercises, and mindfulness practices designed to enhance relaxation, resilience, and a positive mindset. The program emphasized the importance of self-care, enabling faculty to manage work-related pressures effectively and maintain a harmonious work-life balance. By fostering

personal well-being, the training empowered educators to bring a calmer, more focused approach to their interactions with students, ultimately creating a positive and supportive learning environment.

Such programs underscore the university's commitment to nurturing a healthy academic community, recognizing that faculty well-being directly contributes to enhanced teaching quality, improved job satisfaction, and a thriving educational atmosphere.

Chief Patron

Dr. Anil Kumar
Vice-Chancellor
AKS University, Satna

Convener

Dr. Anil Kumar
Vice-Chancellor
AKS University, Satna

Co-ordinator

Dr. Anil Kumar
Vice-Chancellor
AKS University, Satna

FIVE DAYS

Faculty Development Programme
on
"Yoga for Happiness and Well-Being"

From 17 JAN 2023 to 21 JAN 2023

Organized By
Department of Yoga
AKS UNIVERSITY SATNA

Duration and Delivery

Day	Time
Day 1	11 AM to 12 PM
Day 2	11 AM to 12 PM
Day 3	11 AM to 12 PM
Day 4	11 AM to 12 PM
Day 5	11 AM to 12 PM



AKS University

WISDOM BEGETS KNOWLEDGE

Why This FDP?

- To provide an overview of the concept of yoga and its benefits.
- To provide a practical guide to the practice of yoga and its benefits.
- To explore the scientific and philosophical foundations of yoga.
- To provide a comprehensive understanding of the practice of yoga and its benefits.

Programme Outline

Day	Topic	Speaker
Day 1 17 JAN 2023	Introduction to Yoga	Dr. Anil Kumar
Day 2 18 JAN 2023	Understanding the Mind-Body Connection	Dr. Anil Kumar
Day 3 19 JAN 2023	Introduction to Ashtanga Yoga	Dr. Anil Kumar
Day 4 20 JAN 2023	Practicing Ashtanga Yoga	Dr. Anil Kumar
Day 5 21 JAN 2023	Practicing Ashtanga Yoga	Dr. Anil Kumar



List of Conferences Seminars Workshops Organized by the Department

Title of the Programme	From	To
National Workshop on Research Methodology and Current Research Trends	27-Mar-23	31-Mar-23
An interactive workshop on one-to-one marketing	24-Mar-23	24-Mar-23
General Lecture on Entrepreneurship on Health Aspects	12-Apr-23	12-Apr-23
Yoga Utsav 2022	22-May-23	22-May-23
National Technology Day	11-May-23	11-May-23
“The Causes of Qualitative Decline in Teacher Education and their Solution	25-Apr-23	25-Apr-23
National Workshop on Research Methodology and Current Research Trends (RMCRT)	27-Mar-23	31-Mar-23
National Science Day	28-Feb-23	28-Feb-23
basic processes of cement production, and the challenges in choosing a good cement	10-Feb-23	10-Feb-23
A National Conference on Mining of Coal	16-Oct-22	17-Oct-22



organized by Mining Youth Conclave, New Delhi,		
National Summit for Institutional Leaders (NSIL) -2023, Devi Ahilya Vishwavidyalaya, Indore M.P.	16-Jan-23	17-Jan-23
National Seminar on Mathematical Modelling (NSMM-2022)	22-Dec-22	22-Dec-22
A Nation Seminar on National Mathematics Day	22-Dec-22	22-Dec-22
World Food Day 2k22*	15-Oct-22	15-Oct-22
Applications of Labour Laws and New Labour's codes in India"	6-Dec-22	6-Dec-22
Hair and Skincare Workshop	21-Nov-22	26-Nov-22
Universal Human Values (UHV) on	6-Nov-22	8-Nov-22
Sustainable Development in Civil Engineering	10-Nov-22	11-Nov-22
Workshop on Android with Hardware Programming	17-Sep-22	17-Sep-22
International conference on Global efforts on Agriculture, Forestry, Environment and Food Security	17-Sep-22	19-Sep-22
Workshop on HR Management	7-Sep-22	7-Sep-22
A workshop on Eat Right	8-Aug-22	8-Aug-22
A Hands on Training on PLC & SCADA BASED INDUSTRIAL AUTOMATION	1-Jul-22	15-Jul-22



One Week National Workshop
on
R² M C R T
Research Methodology & Current Trends (RMCRT)
27th to 31st March 2023



National Workshop
on
Research Methodology & Current Research Trends
Organized by
Research Directorate & Department of Biotechnology
AKS University, Satna (M.P.) India
Venue : Central Hall, A-Block



AKS University, Satna
Faculty of Management Studies



Organized
an Interactive Workshop
on
One to-One Marketing
Expert talk by
Mr. Rahul Bhargava
Founder & Director R Dot Ventures
shekunj.com & octahire.com
24 March 2023



AKS UNIVERSITY, SATNA
Department of Education

Organizing
National Conference
on
"Causes of qualitative decline in teacher education and their solution"
on
25th APRIL, 2023



Panna Road, Sherganj, Satna, MP 7772897776 www.aksuniversity.ac.in/ Follow us on: f t i n



7. OTHER MISCELLANEOUS EVENTS

7.1 SKILL DEVELOPMENT ACTIVITIES

i. AKSU- MSME Business Incubation Centre

In 2020, the AKSU MSME BIC (Business Incubation Center) was founded with a clear mission: to boost local employment and combat unemployment. The center is dedicated to cultivating a supportive environment for entrepreneurial growth within the country. Specifically, it aims to address the needs of rural areas by fostering livelihood incubation initiatives. These initiatives prioritize essential commercial activities, strategically chosen to establish enterprises and drive economic development in rural communities.

Business incubators serve as potent tools for economic development, propelling progress through innovation and the application of technology. They actively contribute to economic development strategies by fostering the growth of small businesses and promoting internal expansion within local economies. Additionally, these incubators play a crucial role in facilitating technology transfer. The AKS University Business Incubator extends an invitation, offering another chance for individuals to register their ideas and become integral contributors to the ongoing transformation.

B. Participation of Hackathon

- I. **Highlight on the timeline**—AKS University celebrated significant moments at the Smart City Satna Hackathon 1.0. The university proudly showcased its innovative products and startups, including Nano-biofertilizers, Bio-detergent, and Microbial Degrading Compost

The presentation garnered high praise, marking a proud and commendable achievement for the AKS University MSME Business Incubation Centre

At the M.P. Startup Conclave in Indore in 2022, AKS University took the stage to present and exhibit a lineup of smart agriculture solutions and a diverse range of bio-products tailored for agriculture. The collaborative efforts of AKS University, MSME Business Incubator, and Smart City Satna Incubation Center demonstrated that groundbreaking solutions for societies are emerging from 3-tier cities. This not only marked a significant presence at the conclave but also



hinted at the creation of historical examples in the near future.

Come April 6, 2022, AKS University took the lead in hosting the "AKSU-MSME-Hackathon 2022" in partnership with the Ministry of MSME, Government of India. Within the university grounds, the AKS University MSME Business Incubator assumed a crucial role as 23 innovative business



Hackathon 2022 organised at AKS University

The University has done MoU's with 17 skill sector council of Ministry of Skill Development, Govt. of India.

7.2 Faculty Achievements and Recognitions

Number of awards received for research/innovations by the institution/teachers/research scholars/students during the year

Year of award	Name of the Awardee	Name of the award	Name of the awarding body	Category of award (innovation/technology transfer etc)
2022-23	Dr. Abhishek Singh	Senior Scientist Award	Kalash Research and Welfare Society Prayagraj U.P.	Innovation
	Dr. Bharti Sao	Young Scientist Award in Floriculture	Vigyan Varta	Innovation
	Dr. Bharti	The Young Horticulturist	Vigyan Varta	Innovation



Mr. Anshul Asre	Excellence in Teaching Award	Society for Scientific Development in Agriculture and Technology	Innovation
Dr. R.L.S. Sikarwar	Vishwambhar Puri Medal	Indian Botanical Society	Innovation
Dr. R.L.S. Sikarwar	Lifetime Achievement Award	The Society of Life Sciences, Satna	Innovation
Dr. R.L.S. Sikarwar	Shraddha Suman Puruskar	Shraddha Suman Sansthan, Patna	Innovation
Dr. Akhilesh A. Wao	Best Research Supervisor Award	Global Foundation for Skill Development and Entrepreneurship	Innovation
Dr. Akhilesh A. Wao	Best Research Paper Award in THEETAS 2022	AKS University and CSI Jabalpur Chapter	Innovation
Dr. Subhadra Shaw	Best Research Paper Award in THEETAS 2022	AKS University and CSI Jabalpur Chapter	Innovation
Dr. Subhadra Shaw	Best Research Paper Award in THEETAS 2022	AKS University and CSI Jabalpur Chapter	Innovation
Dr. Shailendra Yadav	International best Researcher award	ISSN Award/ www.issnaward.com	Innovation
Dr. Sushma Singh Parihar	International best Researcher award	ISSN Award/ www.issnaward.com	Innovation
Virendra pandey	Young Bio-Technologist award	International Conference, GAFEF, Pokhara	Innovation



	Dr. Dilip tiwari	Certificate Of Appreciation	Navyoga	Innovation
	Dr. Dilip Tiwari	Award Of Excellence	U.P Naturopathy and Yoga Teacher's & Physician Association	Innovation
	Dr. Dilip Tiwari	Certificate Of Honor	Ministry Of Ayush Government of India	Innovation
	Sheerendra Kumar Upadhyay	Scientist of the Year Award 2021	ATDS (U.P)	Innovation
	Sheerendra Kumar Upadhyay	Excellence Research Award	SSDAT	Innovation
	Sheerendra Kumar Upadhyay	Excellence Research Award	Astha Foundation	Innovation
Total				20

Dr Kausik Mukherjee -

2022	International Conference Indonesia Bali	Keynote Speaker
	Uk London	Guest Talk On Women Empowerment
	Linkan University Malaysia	Keynote Speaker In International Conference

Dr. T.Singh:-

2022	Sam Higginbottom University of Agriculture, Technology & Sciences, Prayagraj , UP	Expert member selection committee for the post of Horticulture
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Dr. Ashok Kumar Bhaumik

20.10.2022	RSKV	Expert member in evaluation of P.hD thesis Lal bahadur
11.09.2022	IGKV, Raipur	Expert member in evaluation Ashitosh Mohaman P.hD. – viva exam
01.09.2022	IGKV	Expert member in evaluation Ashitosh Mohaman P.hD. – Oral viva examoral Sri Krishna gupta
25.08.2022	RSKV	Expert member in evaluation of P.hD thesis Lal bahadur Sonu singh lodhs
17.06.2022	MPAUT, Rajasthan	Expert member in evaluation of P.hD thesis

Dr. R.L. Shikarvar

October, 2022	Department of Botany, University of Lucknow, Lucknow (Uttar Pradesh)	<ul style="list-style-type: none"> • Chaired Session in XLV All India Botanical Conference of Indian Botanical Society. • Received Prof. Vishwambhar Puri Medal -2022 of Indian Botanical Society. • Delivered medal Lecture on “Past and Present Biodiversity of Chitrakoot”
November, 2022	Department of Botany, Karnataka University's Karnataka Science College, Dharwad (Karnataka)	<ul style="list-style-type: none"> • Chaired Session in XXXII Annual Conference of Indian Association for Angiosperm Taxonomy and National Symposium
March, 2022	Department of Botany, Ambah Autonomous P.G. College, Ambah, Morena (Madhya Pradesh)	<ul style="list-style-type: none"> • For Practical Examination of B.Sc. Botany Students.
September, 2022	Department of Botany, Ambah Autonomous P.G. College, Ambah, Morena (Madhya Pradesh)	<ul style="list-style-type: none"> • For attending Board of Studies Meeting
September, 2022	Dr. R.D. Gaur Central University, Sagar	<ul style="list-style-type: none"> • Attended National Symposium and Received “Lifetime Achievement Award” given



	(Madhya Pradesh)	by Society of Life Sciences
September, 2022	Magadh Girls College and T.P.S.P.G. College, Patna (Bihar)	<ul style="list-style-type: none"> Delivered Invited Lectures on “Biodiversity of Indian Scriptures”
November, 2022	Faculty of Biosciences, Barkatullah University, Bhopal (Madhya Pradesh)	<ul style="list-style-type: none"> Conducted Ph.D. Viva- Voice of Mr. Ashish Singh Tomar

Dr. Akhilesh A. Wao, Associate Professor

2022-23	Expert talk	Expert talk in Research Circle on Research, Innovation and Ranking using e-Resources on 22nd Jan 2022
	Session Chair	Third Online International Conference on Advances in Physical, Mathematical and Computational Sciences is being organised on 24 th and 25 th June 2022, by faculty of Physical Sciences, St. Aloysius College (Autonomous), Jabalpur.

Dr. B. K. Mishra

1	2022	Geological survey of India training institute	delivering e-Lectures
2	2022	Hindalco, Lohardaga	GET, Technical Training, Resource person
3	2022	Govt polytechnic college, Koderma	delivering e-Lectures
4	2022	Govt. P. G. College, Satna	Expert Lecture
5	2022	Chitkara University	Summer School

Prof AK Mittal

1	September, 2022	Barsingsar, Lignite Mine,	5 days workshop of
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2	October,2022	Hanoi, Vietnam	Paper presentation on safety standard in Indian mines in four days seminar
3	October,2022	Mining Youth Conclave, New Delhi	One day workshop at New Delhi
4	November,2022	ACC Kymore Mine, Katni	Three days field Trial of Blasting
5	December,2022	Hindalco, Lohardaga, Ranchi	For six days Classes of New entrants as engineer



Dr. Deepak Mishra

01	July 2022	Amity University Dubai	International Conference on Technologies for Smart Green Connect Society- 2022 For Sustainable Development
02	May 2023	Govt. PG College Amarpatan Satna (MP)	Expert lecture on Environment Protection Act 1986 and Global Scenario
03	January 2023	Gurbarga University Kalburgi	Jury Member (Dance Category) at 36 th South East Zone Youth Festival
04	February 2023	Ganpat University Gujrat	Jury Member (Dance Category) at 36 th West Zone Youth Festival
05	2023	Govt. TRS College For Excellence Rewa	Member of Board of studies in Department of Biotechnology and Zoology
06	2023	Govt. TRS College For	Member of Board of studies in



8. Strategic Goals and Future Plans

1. **Enhance Academic Programs:** Continuous improvement of the curriculum to align with industry standards and emerging trends.
2. **Introduce New Programs:** Launch new academic programs in emerging fields such as Data Science, Artificial Intelligence, and Environmental Science.
3. **Skill Development:** Focus on skill development programs to prepare students for the job market.
4. **Research Funding:** Increase research funding to support faculty and student research projects.
5. **Technological Advancements:** Upgrade campus-wide Wi-Fi network and video conferencing systems to support online learning and virtual collaboration.
6. **Community Engagement:** Organize health camps, environmental conservation initiatives, and education programs for underprivileged children.

Long-term Goals

1. **Expansion Plans:** Establish new research centers focusing on interdisciplinary studies and emerging fields.
2. **Program Diversification:** Diversify academic programs to include a wider range of disciplines and specializations.
3. **Infrastructure Development:** Continuous investment in upgrading laboratories, libraries, and other research facilities to ensure they remain at the forefront of technological advancements.
4. **Sustainability Initiatives:** Implement green campus initiatives, including solar panel installations and waste management systems.
5. **Internationalization:** Expand student and faculty exchange programs with reputed international universities to enhance global exposure and collaboration.
6. **Enhancing Technological Infrastructure:** Further development of the digital infrastructure to support online learning, research, and communication.

These goals are aligned with AKS University Satna's mission and vision of fostering academic excellence, innovation, and continuous improvement. By focusing on these



priorities, the university aims to provide a high-quality education and create a conducive environment for learning and growth.

8.3 Community and Industry Engagement

Enhanced Strategies for Engaging with the Local Community and Industry Stakeholders

AKS University Satna has developed robust strategies to deepen its engagement with the local community and industry stakeholders. Key initiatives include:

- **Health Camps and Environmental Programs:** Regularly organizing health camps, environmental conservation initiatives, and educational outreach for underprivileged children to promote community well-being and sustainability.
- **Cultural and Sports Events:** Hosting cultural festivals, sports competitions, and community events to foster social cohesion and holistic development.
- **Industry Partnerships:** Establishing strong ties with local and national industries to facilitate internships, practical training, and collaborative research projects. These partnerships provide students with real-world experience and enhance their employability.
- **Agriculture Extension:** AKS University focus on disseminating agricultural knowledge and technologies to improve farming practices. Key initiatives include organizing workshops on crop production, pest management, and sustainable farming techniques. The university also conducts Kisan Goshthies and Gram Choupal programs to promote community well-being. These efforts aim to enhance agricultural productivity and support rural development.

Efforts to Expand the University's Impact Regionally and Nationally

To broaden its impact, AKS University has undertaken several strategic efforts:

- **Research Collaborations:** Engaging in joint research projects with industry partners and other academic institutions to address real-world challenges and contribute to technological advancements.
- **Alumni Network:** Building a robust alumni network that supports current students through mentorship, career guidance, and networking opportunities.



- **Global Collaborations:** Expanding international collaborations with reputed universities and research institutions for student and faculty exchanges, thereby enhancing the university's global presence.
- **Community Service Projects:** Encouraging students and faculty to participate in community service projects to address regional needs and foster a sense of social responsibility.

These initiatives demonstrate AKS University's commitment to making a meaningful impact on both the local community and the wider region, driving positive change and fostering academic and social development.



9. Conclusion

AKS University Satna has made significant strides in various areas over the academic year 2022-23. Here are some key highlights:

- **Academic Excellence:** The university was awarded the **23rd rank among India's Best Private Universities** by Outlook Magazine in 2023. It also received the **Best University in Central India for Teaching Excellence & Research** by CEGR, New Delhi.
- **Accreditation:** The B.Sc.(Hons) Agri. Programme of the faculty of Agriculture Science & Technology has duly accredited by National Agricultural Education Accreditation Board (NAEAB) of ICAR New Delhi.
- **Research and Development:** The establishment of the Research & Development Cell (RDC) and the introduction of the AKS University Research Projects Funding (AURPF) scheme have bolstered research activities.
- **Faculty Development:** Various faculty development programs, including workshops and training sessions, have enhanced teaching skills and research capabilities.
- **Technological Advancements:** Upgrading the campus-wide Wi-Fi network and video conferencing systems have supported online learning and virtual collaboration.
- **Community Engagement:** The university has actively engaged in community service through health camps, environmental programs and educational outreach for underprivileged.
- **Awards and Recognition:** AKS University received the **Soul of India Award 2023** in the House of Lords British Parliament, recognizing its contributions to education and research.

These achievements reflect AKS University Satna's commitment to academic excellence, research innovation, and community engagement, positioning it as a leading institution for education and development.



Established by MP Legislature Act no. 44 of 2011 and duly recognised by UGC under section 2 (f)

AKS University, Satna (M.P.)

THE UNIVERSITY WITH DEFFERENCE

Sherganj, Panna Road, Satna-485001 (M.P.)

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