



AKS University
SATNA



ANUAL REPORT
ACADEMIC
2019-20



“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.



“AKS”

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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B.P. SONI

Chancellor
AKS University
and Thinker & Initiator of
The World Government for World Peace

Message

AKS University, Satna, stands as a beacon for integrating education with practical, real-world applications. With a focus on skill development alongside theoretical knowledge, AKSU is dedicated to producing graduates who are well-prepared to navigate and excel in today's global environment. The institution's philosophy that education should not only inform but also transform resonates strongly, as it emphasizes equipping students with skills that make them capable problem-solvers.

Under committed leadership, AKSU nurtures a culture of self-discovery and continuous growth, fostering both intellectual and practical skills that bridge the gap between academia and industry. The university's dynamic learning environment encourages innovation and a passion for excellence, inviting students to explore their potential fully and contribute meaningfully to society. Embracing AKSU's values and opportunities means embarking on a journey where education becomes a foundation for impactful change and professional success.

B. P. Soni
Chancellor
AKS University, Satna



Prof. P.K. Banik
Vice-Chancellor,
AKS University, Satna (MP) India

Message

It is an overview of AKS University, Satna, captures its essence as a forward-thinking institution dedicated to academic excellence and societal growth. The university's well-rounded approach to education, positions it as a competitive player in the global academic arena. The emphasis on creating socially responsible citizens through diverse extra-curricular and co-curricular activities, combined with a strong Placement Cell and National Service Scheme, equips students with both professional readiness and a sense of civic duty.

AKS University's advanced infrastructure, including its expansive library and research facilities, reflects its commitment to providing an enriching academic environment. Its focus on nation-building and innovation in education is evident in its growth and influence, particularly within the Vindhya region, where it has achieved recognition as a leading institution. For students seeking an education that prepares them for meaningful societal contributions, AKS University indeed offers a robust and inviting foundation.

Professor P. K. Banik
Vice Chancellor
AKS University



1. ABOUT AKS UNIVERSITY

This Annual Report is prepared for revealing the overall journey of progress of AKS University, Satna during the academic session of 2019-20.

Founded by visionary Shri B. P. Soni, AKS University's roots trace back to 1996, when he opened a computer college in Satna with a mission to make education accessible to all. Recognizing the growing demand for higher education in the region, the AKS Charitable Trust established AKS University in 2011 through the Government of Madhya Pradesh Act ,Notification No. 44, issued on December 31, 2011. In 2014, the university received UGC recognition under Section 2(f) of the UGC Act, further solidifying its status as a distinguished higher education institution.

AKS University goes beyond merely preparing students for entrepreneurship & employment; it focuses on providing “education for life,” equipping students with essential leadership and professional skills necessary to succeed in today’s globalized economy. Located in Satna town along NH-75, the university is conveniently situated approximately 4 km from Satna Railway Station and 120 km from the UNESCO World Heritage site of Khajuraho, making it accessible to students across the region.

Currently, AKS University serves a diverse student of over 7600, offering a wide range of programs across 10 Faculties. Through a curriculum designed to address current technological advancements and socioeconomic needs, AKS University continues to foster an environment of learning, growth, and innovation.

1.1 The key features of the University to make it par excellence are,

The key features that distinguish AKS University as an institution of excellence include:

- **Industry-Relevant Curriculum:** Programs are tailored to align with the latest technological developments and address current socioeconomic needs, ensuring students are well-prepared for modern industry demands.
- **Scholarship Programs:** Scholarships are available for meritorious students, supporting academic achievement and making quality education accessible to talented individuals.
- **Distinguished Faculty:** The university’s teaching faculty comprises renowned academicians, scholars, and industry experts from prestigious institutions, bringing a wealth of knowledge and experience to the classroom.



- **Advanced Teaching Methodologies:** AKS University incorporates innovative, ICT-enabled teaching practices and the latest learning pedagogies, creating an interactive and modern educational experience.
- **State-of-the-Art Infrastructure:** The campus is equipped with modern labs, classrooms, and other facilities that provide hands-on training opportunities, enhancing students' practical skills.
- **Research Opportunities:** The university encourages research at all levels, with faculty and students participating in projects that offer real-world applications and industry collaboration.
- **Holistic Student Development:** In addition to academics, AKS University offers a range of sports, extracurricular activities, and moral education, promoting the all-round growth of students.

Through these features, AKS University is dedicated to fostering academic excellence and preparing students to meet the challenges of a dynamic global landscape.

AKS University is committed to fostering skill development among field and industrial workers through targeted training programs. The university's research initiatives focus on indigenous traditional knowledge, food processing technology, agricultural product development, and biotechnology. As part of its Rural Agriculture Work Experience Programme, AKS University has adopted 35 villages in the Satna district, providing farmers with modern farming techniques.

In addition to a strong academic environment, the university prioritizes moral development and offers a variety of extracurricular activities, including sports. Students actively participate in inter-university technical fests and youth festivals at prestigious institutions such as IIT-KGP, IIS Bangalore, and IIT(ISM) Dhanbad, often achieving commendable positions in these competitions.

1.2. Objective of the AKS University:

“To Provide World Class State-of-the Art Education in the country “.

1.3. Vision of the AKS University:

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.

1.4 Mission:

- To promote multidisciplinary sustainable research in all faculties of University, and enhance our position as one of the best research and teaching universities.
- To promote innovation at all level in all faculties of University and provide emphasis on IPR, patents, incubation centre/s and startups.
- Implement updated outcome based curricula (OBE), develop graduate attributes among all students and create student centric teaching and learning environment.
- To develop proper correlation between teaching and research employing new approaches and pedagogies.
- Develop collaborations with premier national and international institute, universities and industries.
- To promote abilities of lifelong learning and life skills among all students and to impart value based and culturally rich education.
- Emphasis on quality education and promote teaching and research on sustainable development goals (SDGs) and protection of our environment.
- To develop capabilities among students to think and work independently.
- To develop fusion between academic and industries in terms of research collaborations, entrepreneurship and internship.
- Ensuring good governance inculcating accountability among all stakeholders of University.
- To provide a platform for all students from various backgrounds including rural students to achieve academics excellence inculcate human values and create an inclusive culture of equality and to be responsible citizens at national as well as global level. To contribute to the development of holistic knowledge society.



UGC Expert Team with AKS University Faculties

1.5 SWOC Analysis (Strength, Weakness, Opportunity and Challenges) of the AKS University:

At AKS University, we recognize that our most valuable assets are our faculty, laboratories, and library. To enhance the educational experience, we are committed to developing state-of-the-art laboratories that provide hands-on training for our students and foster research and development across various fields.

The university features a central library, complemented by departmental libraries for each faculty, as well as a book bank system to ensure that students have access to essential resources. We are also in the process of creating an AKS University Knowledge Bank and an e-library system.

Our faculty comprises alumni from prestigious institutions, including IITs, NITs, BIT, HBTI, ISM, Central and state Universities and others esteemed institutions of the country. Each department is led by experienced professors, many of whom have from renowned universities, research institutions and industries with both national and international acclaim.

The present Vice Chancellor **Professor-P K Banik**, participated in All India University Meeting, which was held in Bhopal. It was two days meeting, organized in Ravindra Nath Tagore University on 10th and 11th of January 2020, which witnessed the participation of almost all the Vice-Chancellors of the Universities, which come within the central zone of India. It was the first occasion when a private University was playing responsibility of organizing the meeting like this in which the intellectuals and educationists from more than eighty Universities made their participation. Speaking on the occasion, Professor-Banik



expressed his pertinent and logical views on the topics like Bench Marking, Higher Education Ranking, Rating, Research and Development.

The SWOC (Strengths, Weaknesses, Opportunities, and Challenges) analysis of AKS University, Satna, highlights the key internal and external factors impacting the institution's performance and growth.

1.5.1 Strengths

1. **Qualified Faculty and Experienced Leadership:** AKS University benefits from faculty with extensive academic and industry experience, many of whom are alumni of prestigious institutions.
2. **Comprehensive Curriculum and Innovative Teaching:** The university's curriculum is aligned with industry needs and includes a choice-based credit system (CBCS) and outcome-based education (OBE), promoting flexibility and practical skills.
3. **Research and Development Focus:** A strong emphasis on research across fields, such as biotechnology, agriculture, and environmental sciences, positions the university as a center for innovation.
4. **Modern Infrastructure:** State-of-the-art laboratories, libraries, and other learning resources support hands-on training and practical exposure.
5. **Community and Industry Engagement:** Initiatives like the Rural Agriculture Work Experience Programme and collaborations with industry ensure the university's active role in local development.

1.5.2 Weaknesses

1. **Location in a Semi-Urban Area:** The semi-urban setting makes it challenging to attract top-tier faculty and international students.
2. **Limited Government Research Funding:** As a private university, AKS faces difficulties securing substantial government grants for research.
3. **Lack of On-Campus Housing:** The limited availability of on-campus residential facilities restricts accommodation options for out-of-town students.
4. **Minimal Alumni Funding:** The university currently receives limited financial support from alumni, which can restrict its growth in certain areas.



1.5.3 Opportunities

1. **Expanding Placement and Industry Connections:** Strengthening industry collaborations and alumni networks can further improve placement opportunities for students.
2. **Government Partnerships:** AKS University has opportunities to contribute to national initiatives like Startup India, Digital India, and Swachh Bharat.
3. **Research Collaborations:** Increased partnerships with national and international universities and research institutions can expand the university's research capacity.
4. **Focus on Sustainable and Impactful Research:** There is potential for impactful research targeting rural upliftment and societal improvement, including projects in agrivoltaics, biotechnology, and eco-friendly materials.

1.5.4 Challenges

1. **Rapid Technological Changes:** Keeping up with fast-evolving technologies and pedagogical practices requires constant adaptation and investment.
2. **Recruiting High-Quality Faculty:** Attracting and retaining skilled faculty at the associate and professor levels is a challenge due to the location and limited funding options.
3. **Student Awareness and Outreach:** Raising awareness about available programs, especially among prospective rural students, is crucial for attracting a larger and more diverse student body.
4. **Meeting Global Standards:** Ensuring compliance with both national regulations and international benchmarks in education and research is essential to remain competitive on a global scale.

Through a clear understanding of these strengths, weaknesses, opportunities, and challenges, AKS University can strategically address areas for improvement and build on its core strengths to enhance its role as a leading educational institution.



1.6. University Credential: -List of Awards

Over the past eight years, AKS University has achieved significant recognition. In 2015, it received the "Excellent Private University in the Rural Sector" award from the Ministry of HRD, Government of India. The following year, in 2014, it was honored as the "Excellent Private University in Madhya Pradesh" at the National MP Technical Excellence Education Summit by CMAI. In 2017, AKS University ranked 27th among private universities in the India Today survey. Most recently, it was recognized as the "Best Private University in the Rural Sector" by Shri

Kamal Nath, the Hon'ble Chief Minister of Madhya Pradesh

National Education Excellence Award 2017	Most Innovative University of Madhya Pradesh 2017
	
Best Innovative University Award 2018	Best Private University Award for the Year 2018 by ICCI
	
Best University in ICT 2018	Best Private University 27th Rank in India



Awards and Recognitions of AKS University

1.7 Administrative Structure (Organogram):-

The administrative structure of AKS University, Satna, is designed to ensure efficient governance, support academic excellence, and foster a student-centered environment. At the top of the structure is the Board of Governors, which provides strategic direction and oversees the university's policies. The Vice-Chancellor, who serves as the chief executive officer, manages day-to-day operations, academic planning, and development efforts. Supporting the Vice-Chancellor are the Pro Vice-Chancellor, Registrar, Chief Finance & Account Officer and Deans of various faculties, each responsible for the academic leadership of their respective disciplines, including Agriculture, Engineering, Life Sciences, Management, and more.

Each faculty is further organized into departments led by department heads, who coordinate teaching, research, and departmental administration. Additionally, the Registrar oversees academic records, admissions, and regulatory compliance, ensuring smooth institutional functioning. The Controller of Examinations is responsible for all examination-related activities, maintaining assessment standards and academic integrity.

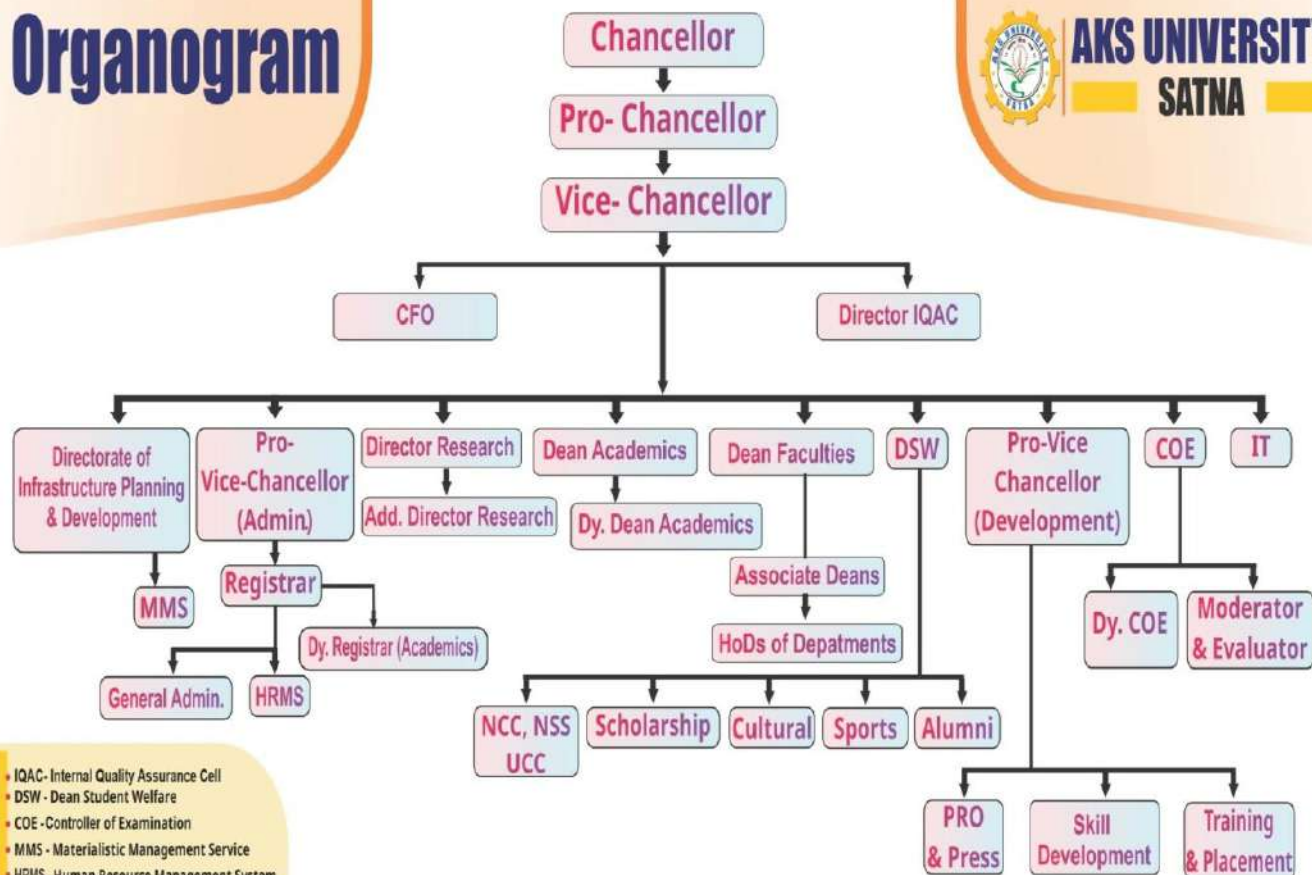
Various committees, such as the Academic Council and Research Council, support decision-making on curriculum development, research initiatives, and policy implementation. To address student needs, the university also has dedicated offices for Student Welfare, Placement, and Counselling. This robust administrative structure enables AKS University to maintain high standards of education and fulfill its mission effectively.



Organogram



AKS UNIVERSITY
SATNA



- IQAC- Internal Quality Assurance Cell
- DSW - Dean Student Welfare
- COE - Controller of Examination
- MMS - Materialistic Management Service
- HRMS- Human Resource Management System
- CFO- Chief Finance Officer
- IT - Information Technology
- PRO - Public Relation Officer
- NCC - National Cadet Corps
- NSS - National Service Scheme
- UCC - University Cadet Corps
- Admin. - Administration



2 ABOUT THE FACULTIES OF THE AKS UNIVERSITY

At AKS University Satna, has total 10 numbers of the faculties of studying and some of them are unique to Madhya Pradesh in their course structure and curriculum.

2.1 - Faculty of Agriculture Science & Technology (FAST):

The Faculty of Agriculture Science and Technology at AKS University is one of the largest faculties, dedicated to integrating teaching, research, and extension programs. Its primary objectives include:

- Providing quality education in the field of agriculture.
- Advancing learning and conducting research in agricultural science and technology, particularly for rural and marginalized farmers.
- Engaging in activities that align with the educational, research, and extension needs of the faculty and the university as a whole.

The educational programs at the Faculty of Agriculture Science and Technology aim to transform rural unemployed youth into successful agricultural entrepreneurs and agri-business managers. The impact of agricultural education will be reflected in the emergence of new entrepreneurs, increased employment opportunities, higher earnings, and improved working conditions.

The faculty is enriched by a 60-acre agricultural farm adjacent to its building, featuring an automatic weather station, two polyhouses, four nethouses, two mother nurseries, and various experimental fields and laboratories that provide hands-on experience for students. The modern dairy houses over 100 cows of various breeds, including Gir, while the poultry unit features the rare Kadaknath variety, along with a fishery unit. Students gain exposure to diverse crops and innovative techniques in crop production. Additionally, the faculty practices organic farming, producing around 200 tons of vermicompost and Nadep compost annually for use on the university farm.

The Faculty of Agriculture Science and Technology is committed to having qualified and experienced faculty members who inspire students to embrace their roles as the world's agricultural providers.



The undergraduate and postgraduate programs offered under the Faculty of Agriculture Science and Technology at AKS University include:

UG Level Courses (4 Year Degree Programme)	B. Sc. (Hons) Agriculture
	B. Tech. (Agricultural Engineering)
	B. Tech. (Food Technology)
PG Level Courses (2 Year Degree Programme)	M. Sc. Agriculture (Agronomy/ Horticulture /Soil Science/ Plant Pathology)

2.2- Faculty of Engineering & Technology:

The engineering programs at AKS University, Satna, offer a dynamic and inclusive curriculum designed to help students understand the global and social impacts of engineering solutions, as well as analyze contemporary engineering challenges. This approach allows students to cultivate essential skills for their future careers.

The Faculty of Engineering and Technology stands out as the leading engineering institution in the Vindhya region, providing opportunities for individuals with diverse abilities and educational backgrounds to thrive both intellectually and vocationally.

The programs begin with a solid foundation in engineering principles and professional practices, equipping graduates to pursue a wide range of responsible engineering roles. Students then have the opportunity to specialize in specific areas, preparing them to excel in their chosen fields.

The following programs are offered by the Faculty of Engineering & Technology:

UG Level Courses (4 Year Degree Programme)	B. Tech (Mechanical Engineering, Civil Engineering, Electrical Engineering, Computer Science & Engineering, Mining Engineering and Cement Technology)
PG Level Courses (2 Year Degree Programme)	M. Tech.



There are numbers of adequate Laboratories and workshops for the hands on training of the students. The strength of a FET is by its experienced teaching faculty members having equal knowledge.

2.3 - Faculty of Life Science & Technology

The Faculty of Life Science & Technology aims to deliver high-quality education paired with extensive practical and research opportunities, cultivating skilled biotechnocrats and entrepreneurs who meet the evolving needs of both academia and industry in the fields of Microbiology and Biotechnology.

This faculty is strengthened by a dedicated team of faculty members and a diverse student body from across the country. With a solid foundation in Microbial Technology and Plant Biotechnology, our programs emphasize key areas such as Genetics, Molecular Biology, Industrial Microbiology, Immunology, Bioinformatics, and Biochemistry, among others.

Students receive comprehensive training in Microbiology, Biochemistry, Genetics, Developmental Biology, Genetic Engineering, Biochemical Engineering, and elements of Biophysics, Biostatistics, Environmental Biology, and Bioinformatics. Biotechnology is approached as an interdisciplinary field, integrating Life Sciences, Chemical Engineering, and Bioprocesses. Our curriculum prepares students for industrial processes, focusing on byproduct evolution and the design and optimization of process equipment for effective production.

The Faculty of Life Science & Technology offers a two-year Master of Science (M.Sc.) in Biotechnology, a three-year Bachelor of Science (Honours) in Biotechnology, a four-year Bachelor of Technology (B. Tech) in Biotechnology, and a two-year Master of Technology (M. Tech) in Biotechnology. Additionally, the department offers a PhD program in Biotechnology.

2.4 Faculty of Pharmaceutical Science & Technology

The Faculty of Pharmaceutical Science & Technology (FPST) at AKS University, Satna, is a leading institution for pharmaceutical education and research in the Vindhya Region. Originally established as the Rajiv Gandhi Institute of Pharmacy in 2006, the



college was affiliated with Rajiv Gandhi Technological University in Bhopal and became a constituent unit of AKS University in 2012. It is recognized by the Pharmacy Council of India (PCI), New Delhi.

FPST offers a four-year Bachelor of Pharmacy (B. Pharm) program and a three-year lateral entry Bachelor of Pharmacy (B. Pharm LE) program. Additionally, the department provides a two-year Master of Pharmacy (M. Pharm) program with specializations in Pharmaceutical Chemistry and Pharmaceutics.

2.5 Faculty of Computer Application & Information Technology

Faculty of Computer Applications and Information Technology at AKS University, Satna, is dedicated to equipping students with the vision, creativity, and innovation needed to thrive in the corporate world. Our highly qualified and experienced faculty play a pivotal role in this mission.

We aim to provide a cutting-edge curriculum that combines theory, practical experience, projects, and seminars. Our primary goals are to enhance problem-solving abilities, foster innovative thinking, develop analytical skills, promote teamwork, and improve communication skills. We also emphasize readiness for emerging technologies, including artificial intelligence, IoT, machine learning, cloud computing, and network security.

Our department features well-equipped labs with the latest software and our own Management Information System, supported by a team of highly competent faculty members.

2.6 Faculty of Basic Sciences

The Faculty of Basic Sciences at AKS University, Satna, is dedicated to promoting collaborative, interdisciplinary research in Physics, Chemistry, and Mathematics, addressing the future needs of society. Basic science and research are essential for cultivating a new generation of thinkers and leaders in Science and Technology. In India, the significance of basic science has been amplified through various government initiatives, such as KVPY and NTSE, as well as the establishment of esteemed



institutions like IISER, NPL, ISRO, TIFR, and the development of Solar and Nuclear Power Plants.

What sets our program apart is its interdisciplinary focus, incorporating a strong engineering perspective and providing exposure to various fields within the Basic Sciences. The Faculty currently offers Bachelor's, Master's, and Ph.D. programs across Physics, Chemistry, and Mathematics.

2.7. Faculty of Commerce & Financial Studies

The Faculty of Commerce and Financial Studies at AKS University is celebrated for its outstanding teaching and vibrant curriculum. Our academic programs are of the highest caliber, reflecting our belief in the transformative power of ideas. Our diverse faculty and student body, representing a range of social backgrounds, collaborate to maintain our department's esteemed reputation for excellence in education, particularly in the economic, institutional, and organizational dimensions of commerce.

We are committed to creating an environment that promotes quality education in Commerce, Entrepreneurship, and Research. Our innovative approaches and dedication to academic excellence establish us as a leading institution focused on holistic development, aiming to uplift lives and society. We emphasize the cultivation of social, moral, ethical, and intellectual skills in our students, empowering them to become nation builders and sources of inspiration.

UG Level Courses (3 and 4 Year Degree Programme)	Bachelor of Commerce (Hons.)
	Bachelor of Commerce
PG Level Courses (2 Year Degree Programme)	M.com



2.8 Faculty of Management Studies

At AKS University Faculty of Management Studies, we are dedicated to delivering top-tier management education. Our emphasis on research, innovation, high-quality publications, and corporate consultancy has established us as a leader in the field.

Programs Designed for Your Success: Our diverse offerings, including BBA (H), MBA, and Ph.D. programs, equip students with the essential skills and knowledge for thriving careers in the corporate sector. Whether you're embarking on your educational journey or seeking to elevate your career, our programs provide an ideal foundation for personal and professional growth.

Proven Track Record: With a longstanding reputation for educational excellence and a strong placement record, AKS University Faculty of Management Studies is the preferred choice for aspiring professionals. Join our network of successful alumni who have excelled in top companies across various industries.

Tailored Programs for Every Aspiration: We offer a variety of programs to suit different interests and career objectives, giving you the flexibility to choose the path that aligns with your goals. Whether you wish to specialize in a specific area or explore the broader aspects of management, our programs lay the groundwork for your success.

- **BBA (Bachelor of Business Administration)** with two specializations
- **MBA (Master of Business Administration)** with five specializations
- **Ph.D. (Research Programs)**

2.9 Faculty of Social Sciences & Humanities

Social work is an interdisciplinary field that examines the lives and experiences of socially vulnerable individuals. A key focus is understanding the origins and effects of social problems at micro, meso, and macro levels. The field is particularly relevant for analyzing various interventions aimed at preventing or addressing these issues. It also encompasses research on how social work is organized and practiced.

At the Faculty of Social Sciences & Humanities, we take pride in our student-centered approach, which provides the flexibility and support for students to tailor their



educational experiences. This can involve combining programs and certificates across different areas, pursuing double majors, or engaging in unique interdisciplinary opportunities such as Work and Employment, Indigenous Studies, and Race & Ethnicity.

As part of the AKSU community, students not only receive a high-quality education but also gain valuable experiences outside the classroom. We emphasize the development of essential life and employment skills, including research and leadership competencies, enabling students to tackle significant societal challenges. We offer a range of undergraduate and postgraduate research opportunities, both locally and internationally, along with peer mentorship training and support. Faculty of Social Sciences & Humanities also offers courses of Masters Degree in Yoga

2 Yrs	B.A.
2 Yrs	M.A. Yoga
1 Yrs	PG. diploma of yoga
3 Yrs (Minimum)	Ph.D

2.10 Faculty of Education

The Faculty of Education at AKS University was established in 2012 and is recognized by the National Council for Teacher Education (NCTE). This co-educational institution offers a two-year B.Ed. program designed to cultivate professional values and enhance the learning skills of future educators through the development of the 4Cs: Curiosity, Creativity, Competence, and Compassion.

Our Faculty of Education is dedicated to fostering quality and excellence in training value-oriented teachers for society, equipping them with knowledge in emerging educational fields to thrive in a technology-driven world.



3. Curriculum Design and Teaching Learning

3.1 Curriculum Components

The curriculum, a multifaceted framework, acts as a roadmap for the teaching and learning experiences students engage with in an academic program. Curriculum design is a crucial component of any nation's educational system, encompassing objectives, learning outcomes, course content, instructional methods, and assessment strategies. With the rapid evolution of technology and the emergence of new fields, it is essential that curricula remain dynamic, undergoing regular reviews and updates.

At AKS University (AKSU), our mission is to nurture the next generation of leaders by equipping students with the resources they need to explore a diverse range of academic and recreational interests. We emphasize the development of 21st-century skills—such as teamwork, problem-solving, research, time management, information synthesis, and proficiency with advanced technological tools—empowering students to take ownership of their learning while benefiting from the guidance of experienced faculty.

AKSU's educational approach prioritizes exploration, creativity, learning, and critical thinking. We are committed to delivering education grounded in systematic pedagogical principles, transforming these into practical learning experiences that prepare students for career paths aligned with their passions and expertise.

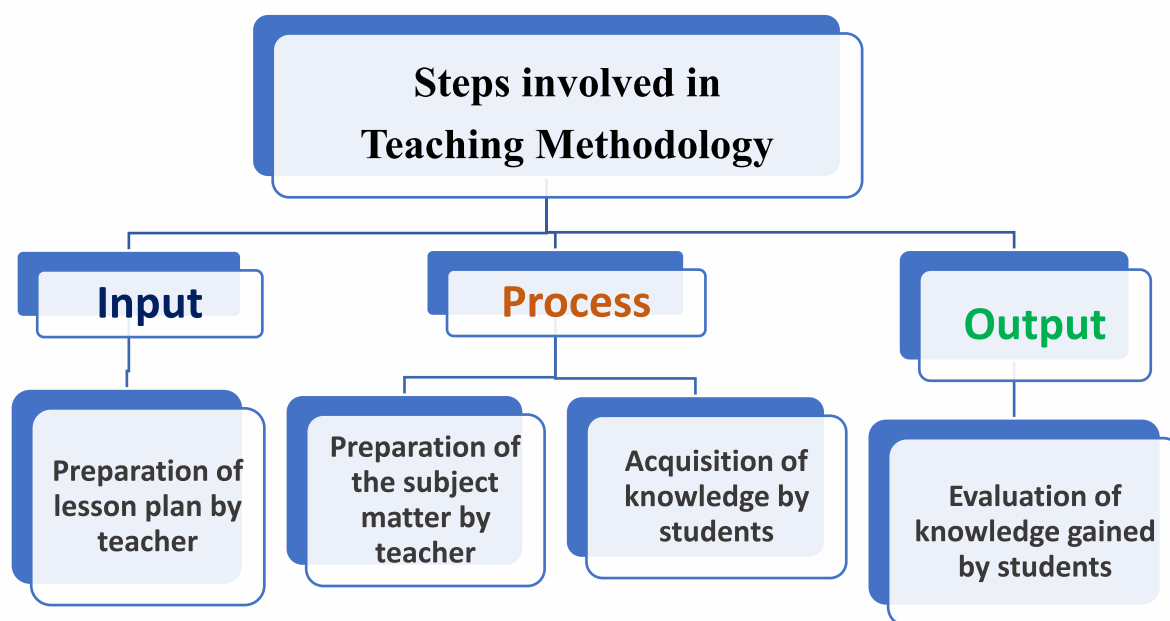
Our Project-Based Learning (PBL) methodology integrates real-world contexts and technology into the curriculum, fostering independent work, critical thinking, and lifelong learning. Our carefully crafted modules aim to produce employable graduates ready to excel as specialists across various industries, businesses, and public service sectors. We achieve this by enhancing their ability to integrate and apply technical concepts, promoting interactive development, and encouraging creative problem-solving. The module also focuses on the personality development of students living and believing in sustainable environment with Human Values, Yoga and Meditation to enhance their employability and build confidence, innovative skills, and imagination.



3.2 Teaching-Learning & Evaluation System

The University employs a system of multiple and continuous activity evaluation, which is communicated through various channels, including the college calendar. Each student and faculty member receives a copy of the calendar at the start of the academic session. The Controller of Examinations (CoE) oversees all internal assessments and manages the logistics for university-wide examinations.

To support its students, AKSU has developed innovative Teaching-Learning and Evaluation processes that effectively assess the knowledge and skills acquired throughout the programs. This approach is founded on the belief that evaluation is integral to examination and that examination is essential for assessment. Consequently, the University has established a diverse array of evaluation methods that operate alongside curriculum delivery.



3.3 Strategies of AKSU

AKSU is dedicated to providing quality higher education for undergraduate and postgraduate students through a comprehensive education service model. Key components include:



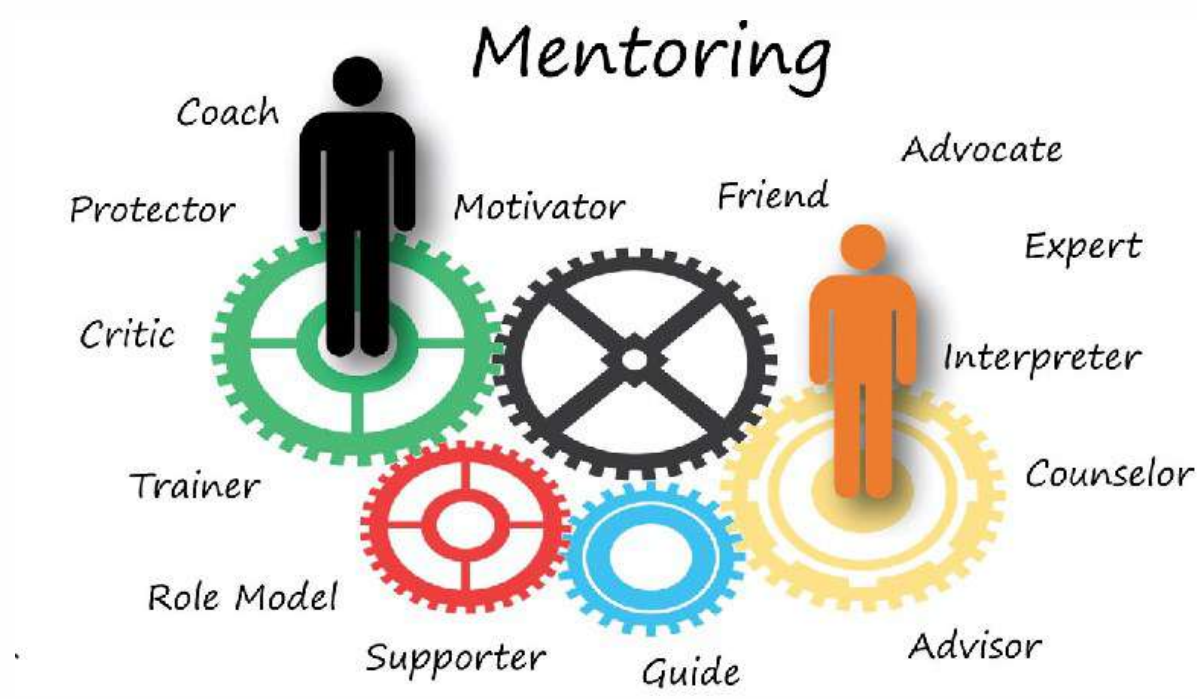
- **Team-Centric Learning and Key Point Pedagogy:** Designed to support slow learners, this model enhances understanding through collaborative exercises.
- **Project-Based Learning:** This approach cultivates critical thinking, communication, and cooperation, emphasizing innovative experimental learning through practical applications.
- **Blended and Multidisciplinary Learning:** AKSU leverages the transformative potential of integrated learning approaches.
- **Industry-Academia Collaboration:** Partnerships with organizations such as Synergy University, MUSE Mantra, and IBM facilitate experiential learning through educational tours and industry exposure.
- **SWOT Analysis:** We apply SWOT analysis to evaluate educational aspects, ensuring accountability to societal expectations.
- **Employability Skills Development:** Our programs focus on internships and placements, preparing students for responsible roles and practical experiences.
- **Library Best Practices:** Continuous quality enhancement in library services supports academic success.
- **Core Values and Vision Alignment:** We adhere to the university's mission and values, emphasizing personality development and communication skills training.
- **Technical Competency Mapping:** Students are trained to leverage interpersonal skills to meet organizational goals.
- **Social Responsibility:** Through NSS, NCC, and UCC, students are encouraged to engage in global research initiatives.
- **State-of-the-Art Facilities:** Our advanced infrastructure and laboratories provide students with hands-on experience using the latest technologies.

3.4 Mentorship Model

AKSU believes that mentoring is an incredibly valuable experience essential for growth and development for all concerned. Setting up the right mentor mentee relationship involves creating a safe and supportive environment where both mentor and mentee can engage in building trust, setting goals and achieving them through creative problem solving and reaching a solution. For the benefit of our students a faculty mentor



is assigned to every student. Each Faculty Mentor has 30 students assigned to him for their entire scholastic duration at AKSU.



Students and their mentors share responsibility for ensuring productive and rewarding mentoring relationships. Both parties have a role to play in the success of mentoring. For the students, a mentor is someone who serves as a guide throughout their institutional training. They provide both professional and personal advice to the students. They further give constructive feedback on writing, teaching and other elements of career design. They can serve to help students balance professional goals with their personal lives or give emotional encouragement during challenging times.



4. Research Development and Innovations

The academic session of 2020-21 marked a period of substantial progress for AKS University, Satna, in the areas of research, development, and innovation. Despite the pandemic, research activities at AKS University continued with a focus on COVID-19-related challenges. Research in areas such as public health, biotechnology, and sustainable technologies gained momentum.

Faculty and students participated in virtual conferences and webinars to share insights and learn from global experts. With a strong focus on fostering knowledge creation, technology development, and practical applications, the university pursued a range of initiatives across disciplines, including biotechnology, agricultural sciences, environmental studies, engineering, and information technology. These efforts not only contributed to academic advancements but also addressed regional and societal needs. Below is an in-depth overview of the research development and innovation activities at AKS University during this period.

4. 1. Research Centers and Areas of Focus

AKS University invested in developing dedicated researches that fostered interdisciplinary studies and facilitated impactful research. These research were aligned with the university's priority areas, such as:

- **Biotechnology and Life Sciences:** Focused on microbial technology, plant biotechnology, and environmental biotechnology, these centers conducted research on genetic engineering, biochemistry, and industrial microbiology.
- **Agricultural Sciences and Technology:** With a strong emphasis on improving agricultural productivity, the university's research in this field included soil science, plant pathology, and horticulture. Projects under these areas were geared toward optimizing crop yield and developing sustainable farming practices.
- **Environmental Science and Sustainability:** AKS University's environmental research addressed pressing issues such as waste management, water purification, and sustainable resource management. Projects were tailored to address the environmental challenges faced by the local community and beyond.



- **Engineering and Technology:** Research in this faculty encompassed civil, electrical, and computer engineering, with projects focusing on the integration of new technologies like IoT, renewable energy systems, and materials engineering.

4.2. Interdisciplinary Research and Collaboration

To drive innovation, the university encouraged interdisciplinary research, combining knowledge from multiple fields to address complex challenges. Collaboration between faculties of agriculture, engineering, and environmental science led to projects on bioengineering and sustainable development. These collaborations were not only internal but also extended to partnerships with other universities and research institutions, as well as industry players, ensuring the practical relevance and applicability of research outcomes.

4.3 MOU with AKS University

For the continual improvement, the university has signed MOU with various Indian and Overseas Institution for Training, Joint R&D and Exchange Programme. MOUs listed as under:

AKS University, Satna (M.P.)					
<u>Memorandum of Understanding</u>					
1	2020	IP Intellect Services (IPIS)	01Year	Intellect Property Rights related Activities such as Patent, trademark, copyright, design registration	25/02/2020
2	2020	Mprex Health carePvt Ltd	05Years	Internship in CRO	02/02/2020
3	2019	Plant Ditech, Israel	01Year	Student Training and Research collaboration	05/04/2019
4	2019	IP Intellect Services (IPIS)	01Year	Activities related to Intellectual Property Rights, including patent registration, trademark protection, copyright acquisition and design registration.	28/02/2019



MOU with Jain irrigation Systems Ltd



MOU with Plant DiTech, Israel

4.3. Funding and Support for Research Projects

Recognizing the need for financial support in fostering impactful research, AKS University allocated internal funds to research projects that addressed key academic and societal issues. For instance:

- **Internally Funded Research Projects:** In 2019-20, the university funded more than 200 projects across disciplines, supporting faculty and student researchers in conducting studies with real-world applications. These projects enabled scholars to explore innovative ideas, such as sustainable practices and eco-friendly materials.
- **Industry Partnerships and Grants:** AKS University successfully established partnerships with industries and government bodies, enabling access to external research grants. Industry collaboration allowed researchers to work on projects with immediate industrial applications, further strengthening the university's research ecosystem.



The following project were be sanctioned in year 2019-20

Name of the PI/ Co-PI	Title of the research project, endowments, Research Chairs
Dr Aslam Saeed	A Comparative Study of Public vs. Private Insurance Companies in India
Chandra Shekhar Gautam	Advancing Web Development with Python and Django for student
Sandhya Pandey	Antimicrobial Studies on Different Varieties of Neem
Arpit Srivastava	Carbon Footprint and Microplastics analysis from different Freshwater ecosystem of Madhya Pradesh region
Dr Kausik Mukherjee	Change Management in Organizational Restructuring
Brijesh Soni	design a model for Preserving Historical Archives through Advanced Technology
Brijesh Soni	Design a Strategic Development model through big data
Dr.Pramod Singh	Design an Early Disease Detection system Using AI-Powered Predictive Analytics
Ms.Shivani Patnaha	Design an Face Recognition Attendance System
Dr.Saket Kumar	Design and Development of a Lab Kit for Microcontroller-Based Projects
Mr. Roopesh Jaiswal	Design of an Automatic Brain Tumor Detection System Using Machine Learning approaches
Brijesh Soni	Design of an Intelligent System in Health Care using Machine Learning
Mr. Hari Mohan Mishra	Design of privacy preserving policy, mechanism for data storage on cloud
Ms. Alka Singh	Design Software Development Efficiency with DevOps Practices
Chandra Shekhar Gautam	Design To identify Modern Cyber Security Challenges with AI Solutions
Mr. Deependra Kumar Shukla	Designing a solution for improving performance through memory management
Mr. Roopesh Jaiswal	Develop a Home-based Monitoring System for Predicting Diabetes and Hypertension



Mr. Veerendra Tiwari	Developing Interactive Learning Environments with IoT-Based Smart Classrooms
Devendra Pandey	Development and Quality evaluation of biscuit fortified with barley
Ms. Neha goel	Development of Analytical method for combination of drugs for Hepatitis treatment
Ms. subhra mishra	Digital Transformation in Traditional Businesses
S. K. Singh	Effect of fertility levels and varieties on growth, yield and Quality of wheat (triticum aestivum L.)
Dr. Pramod Singh	Enhancing Academic Research and Collaboration with Advanced Software Tools
Ms. Ankit Sharma	Enhancing Cybersecurity Education and Practices for skill enhancement
Mr. Roopesh Jaiswal	Enhancing Cybersecurity Education among civilians
Mr. Roopesh Jaiswal	Ensuring Secure and Scalable IT Systems for University Infrastructure
Dr. Usha Dwivedi	Fiscal Policy and Political Stability in Developing Countries
Mr. Prabhakar tiwari	Spectrophotometric method development and validation of for the estimation of Pharmaceuticals
Dr. Purnima Singh Sikarwar	Effect of NPK with organic manures on plant growth and buld yield of Garlic (Allium Sativum L.)
Dr. Purnima Singh Sikarwar	Influence of NPK and organic manures on growth, yield and ouldingy of okra (Abelmoschus esculents L.) CV. Pusa Sawari
Dr. K. R. Maurya	Genetic Variability and Heritability for different traits in cowpea (Vigna unguiculata (L.) Walp)
Dr. Balaji Vikram	Effect of Integrated nutrient management on growth and yield of cauliflower (Brassica Oleraceae Var. botnytis L. CV Pusa Snowball.
Dr. Abhishek Singh	Effect of Nitrogen level and Boron on growth, yield and quality of cabbage (Brassica oleraceae Var. Capitata L.)
Dr. K. R. Maurya	Effect of Nitrogen and Bio-organics on growth, yield and quality of Okra (Agelmoschus esculentus (L.) Moench)



Dr. K. R. Maurya	Genetic variability for quantitative and qualitative limits of Radish (<i>Raphanus sativus</i> L.)
Dr. Balaji Vikram	Effect of different levels of Nitrogen on plant growth, yield and quality of carrot (<i>Daucus carota</i> L.) CV. Carrot sindhuri
Dr. Abhishek Singh	Effect of organic and Inorganic manure and fertilizer on growth, yield and quality of tomato (<i>Solanum Lycopersicum</i> L.).
Dr. Abhishek Singh	Effect of organic manures and Bio-fertilizers on growth, yield and economic of Broccoli (<i>Brassica Oleraceae</i> Var. Italica).
Dr. Abhishek Singh	Effect of integrated Nutrient management on Brinjal (<i>Solanum Melongena</i> L.) under Satna condition.
Dr. K. R. Maurya	Effect of Nitrogen levels with and without magnesium on growth, yield and quality of African Marigold (<i>Tagetes erecta</i> L.) CV Pusa Narangi.
Dr. Abhishek Singh	Effect of Nitrogen levels and biofertilizer on growth, yield and flower quality of Gladiolus (<i>Gladiolus grandiflora</i> L.) CV. Melody.
Dr. Abhishek Singh	Effect of integrated nutrient management on growth and yield of Potato (<i>Solanum tuberosum</i> L.)
Pragya Shrivastava	Program for Improving Mental Health Services for University Students
Pragya Shrivastava	Harnessing AI for Social Good and Addressing Public Health Challenges
Virendra Tiwari	Design of AI Pervasive model to deliver customized Sales Assortment Recommendations
Dr. Bineeta Singh	Study on direct and indirect effect for quantitative and quality trait in maize
Dr. Bineeta Singh	Study on direct and indirect effect for quantitative and quality trait in mustard (<i>Brassica juncea</i> L.)
Mr. Rajbeer Singh Gaur	Study on Genetic Variability and Path Coefficient Analysis for Quantitative and Qualitative Traits in Chickpea (<i>Cicer arietinum</i> L.)
Shankar Bera	develop an Advance Data Storage and Management with Cutting-Edge Technologies
Shankar Bera	Design an Innovative Entrepreneurial Ecosystem: Incubating Startups within the Institution



Prof G K Pradhan	Blast Design Optimization in open cast mine
Prof G K Pradhan	Explosive Materials and Technologies uses in open cast mines
Er P K Palit	Safety and Risk Management in underground metal mining
Dr Sandeep Prasad	Technological Integration in mining sectors
Prof A K Mittal	Economic Efficiency in open cast mining
Dr B K Mishra	Geomechanics and Rock Properties of open cast coal mining
Prof. S Dasgupta	Sustainable mining using airpower system in mining
Er. P S Tiwari	Check survey in underground coal mines in Hasdeo Area
Er. P S Tiwari	Boundary survey of Jarar Granite Mine
Er. P S Tiwari	Air borne Dust survey in underground coal mine
Anurag Chaturvedi	Assessment of potential of Waste to wealth in Satna city
Bhupendra Singh	Impact of sanitary land filling towards sustainable development of Rewa district
Suman Patel	Study EIA of Rewa - Nagod highway-Bi -pass
Dr RLS Sikarwar	Study of Impact of land use change on spice diversity and ecosystem concerning in Agriculture land scape of Satna district
Dr RLS Sikarwar	Study the effects of Invasive plant species on forest ecosystem structure and function
Dr. C. P. Singh	Synthesis and Characterisation of [PVA:LiCH ₃ COO] Gel Polymer electrolyte for electrochemical devices
Dr. Neelesh Rai	Synthesis and Characterisation of ZnS Nano Particle Using Chemical Co-precipitation Method''
Dr. C. P. Singh	Development of SnO ₂ nano particle Using Sol Gel Method for Nano composite Polymer electrolyte
Lovely Singh	Synthesis and Characterisation of [PVA:LiCH ₃ COO] based Gel Polymer electrolyte for electrochemical devices



Dr. Neelesh Rai	Synthesis and Characterization Of SnO ₂ Nanoparticle Using Sol-Gel Technique For Semiconductor Device Application
Ravi Pandey	Development of grouting for Repair & Rehabilitation of Silo
Aush Gupta	Use of agricultural waste as alternate fuel for Cement Kiln
G C Mishra	Software for estimation of Raw mix design for Cement Clincher
Piyush Gupta	Development of grinding aid for cement mill
Vishutosh Bajpai	Application of Utolevel and field survey
Vishutosh Bajpai	Design floor plan 2D and 3D by using Archicad
Garima Pandey	Design for M 40 and M 50 Grade Concrete for an Industrial Structure
Shradhha Pandey	Studies on the influence of Industrial Effluent on Geotechnical Properties of Cohesive Soil
Shradhha Pandey	Construction planning and Management by critical path method
Mr. Rajbeer Singh Gaur	Study on Genetic Variability and Path Coefficient Analysis for Quantitative and Qualitative Traits Okra
Mr. Ayodhya Prasad Pandey	Study on Genetic Variability and Path Coefficient Analysis for Quantitative and Qualitative Traits in Ground Nut
Mr. Ayodhya Prasad Pandey	Study on Genetic Variability and Path Coefficient Analysis for Quantitative and Qualitative Traits in Linseed (<i>Linum usitatissimum</i> L)
Dr. Bineeta Singh	Study on Correlation & Path Analysis in Wheat (<i>Triticum aestivum</i> . L.)
Mr. Rajbeer Singh Gaur	Studies on genetic variability yield and yield attributing characters in maize [<i>Zea Mays</i> (L)].
Mr. Ayodhya Prasad Pandey	Study on Genetic Diversity in Finger Millet (<i>Eleusine coracana</i> . L.)
Dr Ajeet Sarathe	Design & Development of Soil Conditioner
Er Vijay Singh	Development of paddle operated paddy thresher
Rupak Desh bhartar	Development of manual seed planter



Er Vijay Singh	Design, Fabrication and performance evaluation of paddle operated modified groundnut decorticator
D. P. Chaturvedi	Response of different levels of potassium and date of sowing on Growth, yield and quality of chickpea (Cicer Arietinum L.)
S. K. Singh	Effect of post emergence herbicides and interval of application On growth, yield and quality of black gram (Vigna Mungo L.)
S. K. Singh	Assessment of Integrated Weed Management in Green gram (Vigna radiate L.)
S. K. Singh	Integrated Nutrient Management in Maize (zea mays L.)
Dr. T. Singh	Effect of phosphorus and zinc levels on growth, yield and Economics of chickpea (Cicer Arietinum L.)
Dr. T. Singh	Effect of phosphorus level and spacings on growth yield and Quality of black gram (Phaseolus Mungo L.)
Dr. T. Singh	Effect of different combinations of nutrients and varieties on Growth, yield and quality of mustard (Brassicajuncea L.)
Dr. T. Singh	Effect of nitrogen levels and varieties on growth, yield and Quality of rice (oryza sativa l.) Kymore Plateau
S. K. Singh	Effect of sowing and varieties on growth, yield and quality of Sesame (Sesamum Indicam L.)
D. P. Chaturvedi	Response of nitrogen levels and plant spacings on growth, yield and quality of maize (Zea Mays L.)
S. K. Singh	Response of mustard (Brassica Juncea L.) to integrated weed Management
Dr. T. Singh	Effect of Phosphorous Levels and Varieties on Growth, Yield and Quality of Black Gram (Vigna Mungo L.)
D. P. Chaturvedi	Response of Maize (Zea mays L.) to Integrated Nitrogen Management Under Satna Condition”
D. P. Chaturvedi	Influence of different levels of sulphur and phosphorus on Growth, yield and quality of sesamum (Sesamum Indicum L.)
D. P. Chaturvedi	Influence of integrated phosphorus management on growth, Yield and quality of green gram (Vigna Radiate L.)



S. K. Singh	Effect of sulphur levels and date of sowing on the growth, Yield and quality of sesame (Sesamum Indicum L.)
S. K. Singh	Response of Integrated weed management in soybean (Glycine max L.)
Mr. Diwakar Dubey	Analysis and Mathematical Modelling of DSTATCOM for Power Quality Improvement.
Mr. Achyut Pandey	A novel approach towards the design of self clocked D-flip-flop using 90 nm CMOS process
Rama Shukla	A Fault prediction Analysis of 3 phase induction Motor
Mr. Achyut Pandey	PCB defect detection using Robust modelling and experimental Validation
Mr. Diwakar Dubey	Electrical and Dielectric measurement in some amorphous semiconductor
Dr. Ashwini A. Wao	Study of Physiochemical and biological Profile of Fresh water with special reference to AKS University
Dr. Kamlesh Choure	Pharmacopial Investigation of Curcuma Casia
Dr. Lovely Mahawar	Study of Physiochemical and biological Profile of Fresh water with special reference to Bichiya River
Dr. Reni Nigam	Study of Microbicidal effect of Paddy Straw Mushroom
Dr. Deepak Mishra	quality evaluation and biological profile of waste water of AKS University
Dr. Kamlesh Choure	Germplasm conservation of different varieties of curcuma
Dr. Deepak Mishra	Chromatographic Fingerprint analysis and Phytochemical Profiling of Curcuma Amada
Mr. Arpit Srivastava	Evaluation of antimicrobial profile of Curcuma Casia
Dr. Lovely Mahawar	Chromatographic Fingerprint analysis and Phytochemical Profiling of Curcuma casia
Dr. Ashwini A. Wao	Chromatographic Fingerprint analysis and Phytochemical Profiling of Neem and Belpatra
Mr. Shailendra Singh Parihar	Development of a Low-Cost Air Cooling System using Thermoelectric Modules



Mr. K.C kori	Simulation of Fluid Flow in Pipes using Computational Methods
Mr. Alok Ranjan Tiwari	Design and Analysis of a Composite Material for Structural Applications
Mr. Ketan Agrawal	AI-Based System for Real-Time Monitoring and Control of Manufacturing Processes
Virendra Tiwari	Management of Smart Phone Battery Efficiently and its technical Analysis
Chandra Shekhar Gautam	Design and development of Self-adaptive Feature Extraction and quality Image Processing and assessment for smart phone devices.
Dr. Pramod Singh	Developing a Smartphone as a Point-of-Care Device for Convenient Medical Diagnosis.
Ms. Alka Singh	VR-Enabled Classrooms.
Chandra Shekhar Gautam	Touch screen issues in LAVA mobiles
Dr. Shubhra Shaw	Automated AI based Customer Service Inquiry Resolution System
Dr. Akhilesh A. Wao	To Design a Fast-Charging portable Plate for Mobiles and Tabs
Mr. Deependra Kumar Shukla	Churn prediction system
Mrs. Suneeta Singh	Child's Behavior detection using mobile app
Dr. Pramod Singh	Design and Development of Mobile app for agriculture
Chandra Shekhar Gautam	Design and Development of Chatbot for enhanced Customer Satisfaction
Mr. Vinay Kumar Dwivedi	Mobile app for event management
Mr. Madan Mohan Mishra	Application for tracking usage pattern during study hours for students.
Mrs Deepa Shukla	Energy conservation in wireless body area network using prediction based data transmission techniques
Mr. K.K.Tripathi	An experimental investigation of Solar collector with reflector



Dr. Rama Shukla	Development of Schemes of Improving the efficiency of solar panel and Improved utilization of solar energy
Mr Pranjal D.Mishra	Design an efficient grid connected solar photovoltaic system
Dr.Gauri Richchariya	Renewable energy Management and adaptability of application in Satna city
Mr. Prabhakar tiwari	Formulation, Development & Evaluation of & Effervescent Tablet of & Analgesic & Anti Pyretic Drug
Dr. S.P.Gupta	Development and validation of stability indicating assay for evogliptin and metformin using RP-HPLC
Devendra Pandey	Study on drying behaviour of pudina leaves under hot air oven method
Rajesh Kumar Mishra	Study on effect of steeping temperature on physiochemical changes of barley
Vipul Sharma, CA Megha Goyal	Comparative Analysis of Financial Performance in Public vs. Private Sector Banks
Dr Dhirendra Ojha	Corporate Social Responsibility Practices in Indian Companies
CA Himanshu Agrawal, Bharat Kumar Soni	Impact of GST on Small and Medium Enterprises (SMEs) in India
Vipul Sharma, CA Megha Goyal	Corporate Governance Practices in Indian Companies
CA Himanshu Agrawal, Bharat Kumar Soni	Effectiveness of Supply Chain Management in the Retail Industry
Dr Dhirendra Ojha, Dr Aslam Saeed	A Study on Work-Life Balance Among Women Employees in the IT Sector
Bikas Shaha, CS Shobhna Jain	Corporate Restructuring and Its Impact on Financial Performance
Dr Dhirendra Ojha, Dr Aslam Saeed	A Study on Employee Satisfaction in the Retail Industry
Bikas Shaha, CS Shobhna Jain	Comparative Analysis of Working Capital Management in Public vs. Private Sector
Dr Dhirendra Ojha, Dr Aslam Saeed	Analysis of Financial Risk Management Practices in Indian Banks



Sachhidanand, Dr Dhirendra Ojha	The Effectiveness of Advertising in Creating Brand Awareness
Dr Aslam Saeed, CA Prabhat Pandey	Analysis of the Role of Corporate Bonds in Portfolio Management
Vipul Sharma, CA Megha Goyal	Role of Leadership in Organizational Change Management
Bikas Shaha, CS Shobhna Jain	A Study on Credit Risk Management in Banks
Vipin Kumar Soni, Shivam Pandey	The Impact of Demonetization on the Indian Economy
Vipul Sharma, CA Megha Goyal	Impact of Financial Literacy on Personal Financial Planning
Bharat Kumar Soni, CA Ravi Mahtele	The Impact of Technology on Financial Services Industry
Vipul Sharma, CA Megha Goyal	Impact of Technological Innovations on the Banking Industry
Bharat Kumar Soni, CA Ravi Mahtele	Analysis of the Impact of Trade Unions on Employee Relations
Dr Dhirendra Ojha, Dr Aslam Saeed	Analysis of the Effectiveness of Customer Relationship Management (CRM) in the Retail Sector
Bharat Kumar Soni, CA Ravi Mahtele	The Role of Women Entrepreneurs in Economic Development
Sachhidanand, Dr Dhirendra Ojha	Analysis of the Financial Performance of Startups in India
Dr Aslam Saeed, CA Prabhat Pandey	Impact of Corporate Governance on Corporate Ethics
CA Himanshu Agrawal, Bharat Kumar Soni	The Impact of Brexit on International Trade and Commerce
Bikas Shaha, CS Shobhna Jain	A Study on the Impact of Social Media Marketing on Small Businesses
Er.DevendraPandey	Development and Quality evaluation of Finger millet biscuit
Dr Dhirendra Ojha	The Impact of Monetary Policy on Inflation and Economic Growth
Gaurav Singh	The Effects of Corruption on Economic Development



Dr.O.P.Tripathi	Solar Winds and Spacecraft Electronics: Analyzing the Impact of Space Weather on Satellite Operations
Dr.C.P. Singh	Harnessing Solar Power: Investigating Solar Panel Efficiency, Dynamics, and Their Impact on Energy Systems
Dr.O.P.Tripathi	Design and Implementation of a Smart Home Automation System using IoT (Internet of Things) technology
Mr. Amir Haseeb Siddiqi	Facilitating Workshops on Integrating Technology in the Classroom
Dr.R.S.Mishra	Innovative Teaching Strategies for Diverse Classrooms
Reni Nigam	Anti Oxidant activities and Photochemical Profiling of Termaric
Mrs Shinu Shukla	Performance Management Systems in Remote Work Environments
Radha Singh	Investment Strategies in Stock Markets
Dr B Soni	Comparative Study of Public and Private Sector Banks
Dr D Ojha	Trends in International Trade and Their Impact on Local Economies
Dr Aslam Sayeed	Role of Microfinance in Economic Development
Dr Puspha Soni	The Political Economy of Health Care Systems,
Rajeev Bairagi	The Relationship Between Political Freedom and Economic Prosperity
Bharat Kumar Soni	The Role of Artificial Intelligence in the Banking Sector
Dr. Bhagwan Deen	Technology Integration in Education
Dr. Shikha Tripathi	Creating Inclusive Learning Environments for Students with Special Needs
Dr. Kalpana Mishra	The Impact of Parental Involvement on Student Achievement
Mr. Amir Haseeb Siddiqi	Promoting Critical Thinking Skills in Early Childhood Education
Neeta Singh	Implementing Project-Based Learning in the Curriculum



Dr.R.S.Mishra	The Role of Emotional Intelligence in Teacher Effectiveness
Neeta Singh	Addressing the Achievement Gap Through Differentiated Instruction
Dr.R.S.Mishra	Integrating Technology into Teacher Training
Dr. Bhagwan Deen	Strengthening Practicum and Field Experience Components
Rajeev Bairagi	The Role of International Organizations in Economic Development
Dr.Saket Kumar	Sensor-Based Electronics Lab Kit: Hands-On Learning with Embedded Sensor Systems
Dr.O.P.Tripathi	Electromagnetism in Action: Developing a Physics Lab Kit for Electric and Magnetic Field Experiments
Dr.Saket Kumar	Thermodynamics in Practice: A Lab Kit for Heat Transfer and Energy Conversion Experiments
Dr.C.P. Singh	Exploring Energy Conservation: A Lab Kit for Mechanical Energy, Work, and Power Experiments
Lovely Mahawar	Study of Impact of Hg Pollution on flora of Singrouli
Purnima Singh	Curriculum Review and Enhancement
Dr PUSPHA SONI	Trade Policies and Their Political Consequences

4.4 AKSU Seed Money for internal Funded Research Projects:

Name of the faculty recipient of Seed Money	Name of the Project
Dr Kamlesh Choure	Screening of industrially important thermophilic bacteria from hot springs of Madhya Pradesh
Dr Ashwini A. Wao	Novel biofertilizer formulation from optimal crop ion saline soil environment
Dr. Deepak Mishra	Chemoprofiling of mushroom for value added products
Dr Pankaj Kumar	Studies on effect of non-genetic factors on milk production traits of Gir and Sahiwal cows



Dr S S Tomar	Long run spatial planning and recovery of nutrients from animal manure
Dr Niha Gautam	Advance trainings on Livestock management trends for skill development
Mr. Rajbeer Singh Gaur	Genetics of common yellow mosaic virus in mung bean towards resistant variety
Dr. D. P. Chaturvedi	Organic farming in 12 acre farm of AKS University Satna
Dr. Abhishek Singh(P.I)	Cultivation of cut rose under naturally ventilated polyhouse conditions in Vindhya region of Satna
Sh G C Mishra	Utilization of Low Grade Limestone in Portland cement Manufacture
Dr Rahul Omar	Manufacture of porous concrete for Pavement.
Dr.Surya Prakash Gupta	Synthesis, Characterization & biological evaluation of some novel mannich bases of benzimidazole derivatives
Dr.Surya Prakash Gupta	Design and formulation of <i>Tridax procumbens</i> based polyherbal cream for wound healing potential
Dr. Madhu Gupta	Phytochemical, Pharmacognostical & In vitro study of anti-inflammatory action of leaf extracts of insulin plant
Ms. Neha Goel	Development And Evaluation of Spectrophotometric Methods for The Determination Of Risperidone In Pure And Tablet Dosage Forms
Mr.Prabhakar Tiwari	Drug Release and Nanodroplet Formation from Amorphous Solid Dispersions: Insight into the Roles of Drug Physicochemical Properties and Polymer Selection
Dr Sailendra Yadav	Utilization of Plastic Waste Wax as a Alternative Fuel for Cement Production
Dr Sailendra Yadav	Green Synthesis and Characterization of New Heterocyclic Corrosion Inhibitors



Mr.Diwakar Dubey	Analysis and Mathematical Modelling of DSTATCOM for Power Quality Improvement.
Dr. Samit Kumar	Preparation and physico-chemical characterization on non- acetylated xylan- based hydrogels for sustained and targeted delivery of drugs
Er.Devendra Pandey	Development and quality evaluation of Millet Fortified Biscuit

4.4. Significant Research Projects and Outcomes

During the 2019-20 academic session, numerous projects were undertaken by faculty and students, producing valuable outcomes. A few notable research initiatives include:

- **Agricultural Research Projects:** Projects in the agricultural sciences addressed critical issues such as abiotic stress tolerance in crops, soil health improvement, and water conservation methods. Research into renewable energy, a technology that combines agriculture and solar power, showcased innovative ways to maximize land use for both food and energy production.
- **Biotechnology Advancements:** Research in biotechnology focused on food safety, bioprocess technology, and medical biotechnology. One of the prominent projects involved developing nano-based solutions for water purification, providing affordable, eco-friendly solutions to improve water quality.
- **Renewable Energy Research:** In the engineering faculty, researchers focused on renewable energy sources, particularly solar and bioenergy. These projects aimed to reduce dependency on non-renewable resources and to support sustainable energy solutions for rural communities.

4. 5. Community-Focused Research and Extension Activities

Community engagement was a core aspect of AKS University's research strategy. In particular, the university's Rural Agriculture Work Experience (RAWE) Programme facilitated direct support for local farmers. As part of this program, the university adopted 35 villages in the Satna district, providing training on advanced farming techniques and



modern agricultural practices. This initiative highlighted the university's commitment to using research to drive socioeconomic development in the region.

4.6 Research Conferences, Seminars, and Workshops

AKS University hosted various conferences, seminars, and workshops to promote knowledge exchange, skill development, and networking opportunities for researchers. These events covered topics like biotechnology, sustainable agriculture, and engineering advancements, providing a platform for researchers to showcase their work and receive feedback from peers. Additionally, faculty and students were encouraged to participate in national and international conferences, broadening their exposure and building connections with the global academic community.

Title of the Conferences, Seminars, and Workshops	Date	Organized by
A Symposium on “Mahatma Gandhi”	23-Aug- to 07-Sep-2019	Department Education/ Art
A National Conference on "Biotechnology And sustainable Agriculture" For Doubling of Farmer's Income By 2022	05 to 07-Sep-2019	Faculty of Agri. Sc. & Tech.
National Seminar on Mining and Processing of Raw Materials for Steel, Cement and Power	21 to 22 Sep-2019	Department of Mining Engineering
Exclusive workshop on " Handmade Silk thread Jewelry"	11 to 17 Nov-2019	Department of Art and Department Education
exclusive workshop on " Programming using Python"	19-Nov-2019	Department of Computer Sic. & Information Technology
Workshop on " Agriclinic & Agribusiness Centres"	21-Dec-2019	Faculty of Agri. Sc. & Tech.
" Geo Technical Aspects Of Earthquake Engineering"	26 to 28 Dec-2019	Department of Mining Engineering Department of Civil Engineering
PCRA, Min. of Petroleum, A seminar on Energy Conservation	06-Jan-2020	Faculty of Engineering & Engineering



National Workshop on " Opportunities & Extension in Entrepreneurship Development"	10 to17 Feb-2020	Faculty of Agri. Sc. & Tech.
2 Days intensive Workshop for it's students on " Goods and Services Tax (GST) in India"	24 to 25 Feb-2020	Faculty of Commerce & Financial Management
Re-imagining Education for 21st Century Learnings	07-Mar-2020	Department of Computer Sic. & Information Technology
World Environment Day Workshop	05-Jun-20	Department of BioTechnology
Webinar on Introduction to Finite Element Method (FEM)	08-Jun-20	Department of Computer Sic. & Information Technology Faculty of Basic Sciences
A Webinar on " Anandam & Alpaviraam" which leads to Spiritual Enlightenment.	10-Jun-20	Faculty of Humanities
National Webinar on " POWER TRANSFORMER"	18-Jun-20	Department of Electrical Engineering
Webinar Series 2020: Uses of ICT in Good Governance	21-Jun-20	Faculty of Commerce & Financial Management Faculty of Management Studies
National Webinar on "Covid19 Pandemic & Relief Measures"	22-Jun-20	Department of BioTech Department of Pharmacy
National Webinar on "Image & Video Analysis With Computer Vision Applications."	25-Jun-20	Department of Computer Sic. & Information Technology
National Webinar on "Energy Management Industry"	30-Jun-20	Faculty of Engineering & Engineering
International Webinar on "Mindfulness: De-stress using breath"	30-Jun-20	Department of BioTech, Department of Commerce Department of Management



AKS UNIVERSITY
The University with a Difference

WEBINAR
Department of Electrical Engineering
POWER TRANSFORMER

Date: 18 June 2020, Time: 11:00 am

Er. R.K. Shrivastav
Administrator, EE&T
AKS University, Satna

Dr. G.K. Pradhan
Dean, EE&T
AKS University, Satna

Er. Anant Soni
Pro Chancellor and Chairman
AKS University, Satna

Er. Gaurav Kumar Mishra
Assistant Professor
Govt. Polytechnic College, Bahrich (U.P.)
Former Engineer in IYENL, Haryana

Free Registration Live Broadcast at: <https://www.aksuniversity.ac.in/live>

AKS UNIVERSITY
SATNA

WEBINAR
Department of Agriculture Science
**Dairy Farm: An Opportunity:
Present & Future Aspects**

Date: 29 June 2020, Time: 10:00 am

Mr. N.S. Parmar
IAS - Secretary
Mining, Bhopal (M.P.) India

Dr. H.N. Avasthi
Prof. of Dairy Science
Indian Veterinary Research Institute, Izatnagar (U.P.)

Dr. Anant Kumar Soni
Chairman, IAS
Department of Agriculture, Satna

Dr. S.S. Tomar
Dean, Dairy Science
AKSU

Head
Dr. Neeraj Verma
Head, Dairy Science
AKSU

Co-ordinator
Mr. Ashutosh Gupta
A.P. Department of
Agriculture Science

Live Broadcast at: <https://www.aksuniversity.ac.in/live>

Organizing Committee

Patron in Chief

Shri B.P. Soni
Hon'ble Chancellor

Patrons

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Dr. Jaya Singh, Women scientist, ICAR-DWR, Jabalpur

For further details, Please contact :

Ms. Shampi Jain

Organizing Secretary

Department of Agriculture Science

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Contact for Conference :

7974781132 (Mr. Sanjeev Kumar Singh)

8120147776 (Dr. Neeraj Verma)

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Biotechnology and Sustainable Agriculture in Doubling of Farmer's Income by 2022



5th-7th September, 2019

Important Dates

Abstract Submission: 25th August 2019

Last Date of Registration: 1st September 2019

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AKS UNIVERSITY SATNA
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WEBINAR SERIES - 2020
एक भारत समर्थ भारत
सोमवार 22 जून 2020, समय : 3 बजे से...

Webinar Scheduled on **Google Meet**

RESOURCE PERSON
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(महामहोदय, योगदान संजी)
अखिल भारतीय विद्यार्थी परिषद

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Pro Vice Chancellor
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Er. Anant Soni
Pro Chancellor and Chairman
AKS University, Satna

Dr. Akhilesh Kr. Pandey
Ex. Chairman M.P. Private University
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Live Streaming Link : <https://www.aksuniversity.ac.in/live>

WEBINAR

Department of Computer Science & Biotechnology
International Web Colloquium On Cyber-Cloud-Computing (IWC-3C-2020) - 2.0

BioSignal-Processing using R & IoT using Python

Time@10am
Date: 16 June 2020

Mr. Balachandar Kaliappan
Head
Department of Computer Science

Mrs. Simmi Chawla
Prof. & Head
Department of Biotechnology

Mr. Brijesh K Soni
Co-ordinator
AP, Department of Computer Science

राज्य आनंद संस्थान
आय्याल विमान, गोपाल

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Webinar Series 2020
आनंद की अवधारणा
एवं
अल्प विराम : स्वयं से मुलाकात

Webinar Schedule on **Google Meet**

10 जून 2020, समय : 11 से 1 बजे तक

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AKS UNIVERSITY SATNA
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WEBINAR SERIES - 2020
Department of Yoga
Covid-19 Pandemic and Relief Measures
Date: 22 June 2020, Time: 10:00 AM

Webinar Schedule on **Google Meet**

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Prof. Ishwer Bhardwaj
Prof. & Dean, Faculty of Ayurveda and Medical Science
Gurukul Kangri University, Haridwar

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Prof. Bharat Tiwari
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4.7. Publications and Research Output

Faculty and students at AKS University were active in publishing their findings in reputed national and international journals. Research output included articles, book chapters, and conference proceedings across fields such as biotechnology, engineering, and environmental science. These publications not only increased the university's visibility in the academic world but also contributed valuable insights to their respective fields.

Title of the Research Paper	Name of the Faculty Member	Name of the Journal
N-doped ZnO/graphene oxide: a photostable photocatalyst for improved mineralization and photodegradation of organic dye under visible light	Rama Sharma	Ionics
Electrical arc machining: Process capabilities and current research trends	Pankaj K Shrivastava	Journal of Mechanical Engineering Science
Stokes flow of reiner-rivlin fluid past a deformed sphere	Bharat Raj Jaiswal	International Journal of Fluid Mechanics Research
Assessment of blasting quality of an opencast mine	G K Pradhan	International Journal of Innovative Technology and Exploring Engineering
Delay timing its and effect on blasting fragmentation	Rajak M.K.; Pradhan G.K.	International Journal of Engineering and Advanced Technology
Modeling and optimization of EDM of metal matrix	Pankaj K Shrivastava	International Journal of Recent



composite using black hole algorithm		Technology and Engineering
Full length Paper Published on N-doped ZnO/grapheme oxide: a photostable photo catalyst for improved mineralization and photo degradation of organic dye under visible light.	Rama Sharma	Ionics
Analysis Of Women Economic Development Through SHG	Rajesh Kumar Agrawal, Anurag Singh Parihar	Think India Journal
Experimental Modeling and Optimization of Electrical Arc Machining of Al-B4C Metal Matrix Composite	Pankaj K Shrivastava	Australian Journal of Mechanical Engineering

4.8 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 writer	Title of the book published	Title of the chapters published	Year of publication	ISBN number	Name of the publisher
Dr Rama Sharma	Photocatalytic degradation of pharmaceuticals using graphene-based materials		2019	978-3-319-75484-0	Springer international publishing AG
Sarathe A., Mishra R. K. and Singh V	Recent Research in Agriculture for Doubling of Farmer's Income, Empyreal Publishing House, India,	SWOT analysis of food-processing industry infrastructure in India: a Review,	2019	978-81-946373-2-5	Empyreal Publishing House, India



4.9. Intellectual Property and Innovation

The university promoted intellectual property rights (IPR) awareness and encouraged patent filings for novel inventions. Partnerships with organizations specializing in IPR allowed faculty and students to understand the patenting process and explore commercialization opportunities. Research projects with patent potential included nano-based milk adulteration testing systems, biodegradable plastics, and innovative agricultural technologies.

4.10. Student-Led Research and Innovation

AKS University emphasized the importance of student involvement in research, equipping them with skills to tackle real-world challenges. Through mentorship programs, faculty members guided students in research projects and innovative experiments, leading to a range of student-led projects. The university's encouragement of student participation in conferences and research competitions helped build a strong foundation for future researchers and innovators.

4.11. Sustainable Development Goals (SDGs) Integration

In alignment with the United Nations Sustainable Development Goals, AKS University directed many of its research efforts toward sustainability. Projects on waste management, renewable energy, and sustainable agriculture were aimed at addressing global challenges and contributing to the SDGs. This approach not only provided research with a strong ethical foundation but also equipped students to engage with sustainability issues professionally.

4.12. Facilities and Resources for Research

AKS University continued to expand its research facilities and resources during 2019-20, providing advanced laboratories, libraries, and equipment across faculties. The biotechnology lab, agricultural research farms, and dedicated computing resources allowed for sophisticated experiments and data analysis. By maintaining up-to-date research facilities, the university created an environment conducive to high-quality research and innovation.



4.13. Future Directions in Research and Innovation

Looking ahead, AKS University aims to further enhance its research capabilities through strategic goals:

- **Increased Funding:** The university seeks to secure additional research grants from government agencies, industries, and international institutions, enabling broader research initiatives.
- **Enhanced Collaboration:** Future plans include strengthening partnerships with global research institutions, particularly in areas like sustainable agriculture, environmental technology, and digital transformation.
- **Innovation Hubs and Incubation Centers:** Plans for establishing innovation hubs and incubation centers are underway, aimed at nurturing startups and transforming research into viable products or services.
- **Focus on Emerging Technologies:** The university intends to expand research into emerging fields such as artificial intelligence, blockchain, and advanced materials, ensuring its students and faculty remain at the forefront of technological innovation.

In the 2019-20 academic session, AKS University, Satna, demonstrated a steadfast commitment to advancing research, development, and innovation across diverse academic disciplines. By emphasizing interdisciplinary research, supporting community engagement, and encouraging student participation, the university not only contributed to academic knowledge but also addressed significant regional challenges. Through robust support for faculty and student-led projects, investment in state-of-the-art research facilities, and active promotion of intellectual property rights, AKS University has established itself as a hub for transformative research and practical innovation.

Moving forward, the university is well-positioned to expand its research impact, foster sustainable development, and cultivate the next generation of leaders and innovators in India. The strategic focus on partnerships, funding, and emerging technologies reflects AKS University's forward-thinking approach, ensuring that it will continue to be a prominent contributor to both academic and societal progress.



5. AKS University Achievements

In the academic year 2019-20, AKS University, Satna, achieved significant milestones that strengthened its reputation for academic excellence and societal contributions. Key achievements included advancements in research, innovation, and academic growth, as well as recognitions in regional and national forums. The university fostered a strong research culture with numerous faculty and student research projects across biotechnology, environmental sciences, agricultural technology and engineering. Many projects, particularly those focused on sustainable agriculture and renewable energy, received attention for their positive impact on the community and relevance to pressing environmental challenges.

AKS University also expanded its academic programs, integrating outcome-based education and project-based learning approaches to enhance student engagement and skill development. Faculty and students actively participated in conferences and published extensively, contributing to the university's visibility in the academic community. The institution received accolades for its efforts, including awards for excellence in private university education and innovations in the rural sector, further establishing it as a leading institution in Madhya Pradesh.

Additionally, the university's Rural Agriculture Work Experience Programme, which supports local farmers by providing training in modern farming practices, underscored its commitment to community engagement and social responsibility. Through these achievements, AKS University continued to make strides in education, research, and community service, enhancing its role as an institution dedicated to both academic progress and societal development.



**5.1. Number of awards received for research/innovations by the institution/
teachers/ research scholars/students during the year 2019-20**

Name of the awardee	Name of the award	Name of the awarding body	Category of award (innovation/technology transfer etc)
Dr. Ashwini A Wao	Women Researcher Award In First International Scientist and Medicine Program	International Scientist Awards, on Engineering, Science and Medicine, Chennai.	Innovation
Dr. Deepak Mishra	Eminent Biotechnologist Award	Asian Biological Research Foundation (ABRF), Prayagraj (India)	Innovation
Dr. Kamlesh Choure	Outstanding Achievement Award of the Society	The Society for Bioinformatics and Biological Sciences	Innovation
Dr.Surya Prakash Gupta	Innovative Researcher Award-2019	SPER International Conference & Exhibition, Narai Hotel, Bangkok, Thailand	Innovation
Dr.Surya Prakash Gupta	SPER Principal of the Year Award 2019	Society of Pharmaceutical Education and Research	Innovation



The GASS National Research Video Webinar on
Hypothesis
 Saturday, May 30, 2020
 Organized and Conducted by
The Global Association of Social Sciences¹
The International Research Journal of Social Sciences and Humanities²
 In Technical Collaboration with
Indore School of Social Work, Indore, Madhya Pradesh
 Affiliated to Devi Ahilya University, Indore, and
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This is to certify that
DR KAUSIK MUKHERJEE
 has attended and presented
 his/her paper entitled
IMPORTANCE OF HYPOTHESIS IN RESEARCH


Dr Sunil Goyal
 Director – National Research Video Webinar
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 Professor and Head


Dr Mathew C. P.
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 2. An Official International Double Blind Peer Reviewed Refereed Recognized Indexed Impact Factor Open Access Monthly Scientific Research Journal of The Global Association of Social Sciences, ISSN 2320 – 4702, Included in UGC Approved List of Journals, Journal No. 64811, Indexed in SJIF and Directory of Research Journals Indexing, DRJI, Journal ID : 586, Scientific Journal Impact Factor Value for 2020 is 7.18 visit at <https://scifactor.com/>



5.2. The Faculty Development Programme

Faculty Development Programs (FDPs) play a crucial role in enhancing the quality of education and research in a University. Such kind of programs are designed to



equip faculty members with the latest teaching methodologies, research skills, and professional development opportunities

There were two Faculty Development Programme (FDP) were organized by AKS University in Satna in 2019-20, associated with “**Proactive ‘I’**” which is a 21st century education & innovation company that envisions to transform life & environment through its innovative mix of trainings, environment and innovation labs. The key highlighting their importance:

- **Enhancing Teaching Quality:** FDPs provide faculty with updated pedagogical techniques and tools, allowing them to create more engaging and effective learning environments. This leads to improved student outcomes and higher levels of student satisfaction.
- **Encouraging Research and Innovation:** Workshops and seminars included in FDPs focus on current research trends, funding opportunities, and best practices in academic publishing. This support encourages faculty to pursue innovative research projects, fostering a culture of inquiry and academic excellence.
- **Skill Development:** FDPs often cover essential skills such as digital literacy, data analysis, and effective communication. These skills are vital for modern educators, enabling them to adapt to changing educational technologies and methodologies.
- **Networking Opportunities:** These programs provide faculty members with opportunities to connect with peers, industry experts, and researchers. Networking can lead to collaborative projects, sharing of resources, and broader professional support.
- **Promoting Lifelong Learning:** FDPs instil a culture of continuous professional development among faculty members. By emphasizing the importance of lifelong learning, these programs encourage educators to stay informed about advancements in their fields and adapt to new challenges.
- **Alignment with Institutional Goals:** By participating in FDPs, faculty members can align their teaching and research efforts with the university’s strategic goals. This alignment enhances the institution's overall mission and vision, contributing to its growth and reputation.
- **Improving Faculty Retention and Job Satisfaction:** Investing in faculty development demonstrates an institution’s commitment to its staff. This investment can lead to higher job satisfaction, improved morale, and better retention rates among faculty members.



- **Supporting Student-Centered Learning:** FDPs often focus on student-centered teaching approaches, helping faculty design courses that prioritize student engagement and active learning. This shift can lead to a more fulfilling educational experience for students.

In summary, Faculty Development Programs at AKS University, Satna, are essential for fostering an environment of excellence in teaching, research, and professional growth. By investing in faculty development, the university not only enhances its educational offerings but also contributes to the broader academic and professional landscape, ultimately benefiting students and the community.

The FDP aimed to equip faculty members with the necessary tools and knowledge to adapt to the evolving educational landscape, ensuring high-quality education for students.

More than 210 total faculty members of the university actively attend and participated in two major FDP organized in AKS University.

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Dr. R.S. Tripathi
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Mrs. Rama Shukla
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Mr. Divakar Dubey
(Assistant Professor, Department of Electrical Engineering, AKS University, Satna (M.P.))

FIVE DAYS
Faculty Development Programme
on
"Make Academics A Cakewalk"


From 14 January 2020 to 18 January 2020

Organized by
AKS UNIVERSITY SATNA
In Association With
PROACTIVE 'I'

Duration and Delivery

Day	5
Mode	Face to Face
Duration	05:00 Hrs. Per Day
Timing	10:00 AM to 01:00 PM 02:00 PM to 04:00 PM




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Email: tpo@aksuniversity.com
Website: www.aksuniversity.ac.in
Contact No. 8889232776, 7692657776
For Registration Contact - Mr. Ashutosh Dubey, Mr. Divakar Dubey



Why This FDP?

Consider asking yourself these specific questions:

- Do you lack focus while reading?
- Do you get distracted while listening lectures?
- Do you feel like postponing your studies?
- Do you find subjects difficult to remember & understand?
- Do you want to reduce effort in academics & become effective?

Programme Outline

Day-1 14-January-2020	Mr. Varun Chamadia	Become aware of the 15 cortical skills of the brain based on the masterwork of Nobel Prize winner Dr Roger Sperry.
Day-2 15-July-2020	Mr. Varun Chamadia	Get access to the Universal Input, Process & Output of the world of Academics. Master the Input to master Process to Master Output.
Day-3 16-July-2020	Mr. Varun Chamadia	Discover the universal design of nature & its relevance with our academics.
Day-4 17-July-2020	Mr. Varun Chamadia	Discover how some of the greatest brains used to write and identify the patterns that could give us access to Genius within.
Day-5 18-July-2020	Mr. Varun Chamadia	Master the art of Mind Mapping and practise minimum of 7 exercises and some 20 over post session.



Five Day FDP on “Make Academics a Cackwalk”

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Er. Anant Kumar Sori
(Chairman & Pro Chancellor, AKS University, Satna (M.P.))

Patrons

Dr. Hanuwardhan Shrivastava
(Dean & Pro VC (Development), AKS University, Satna (M.P.))

Dr. B.S. Tripathi
(Pro VC (Academics), AKS University, Satna (M.P.))

Convener:

Er. Ajay Sarathi
(Head, Department of Agricultural Engineering, AKS University, Satna (M.P.))

Dr. Parikaj Kumar Shrivastava
(Head, Department of Mechanical Engineering, AKS University, Satna (M.P.))

Coordinator

Er. Abhinav Shrivastava
Assistant Professor,
Department of Mechanical Engineering, AKS University, Satna (M.P.)

Er. Vijay Singh
Assistant Professor,
Department of Agricultural Engineering, AKS University, Satna (M.P.)

SIX DAYS

Faculty Development Programme
on
“Communication Maestro”



From 08 July 2019 to 13 July 2019

Organized by
AKS UNIVERSITY SATNA
In Association With
PROACTIVE 'I'

Duration and Delivery

Day	6
Mode	Face to Face
Duration	05:00 Hrs. Per Day
Timing	10:00 AM to 01:00 PM 02:00 PM to 04:00 PM



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Panna Road, Shergarh, Satna (M.P.) INDIA

Email: tp@aksuniversity.com
Website: www.aksuniversity.ac.in
Contact No. 9889237776, 8989490226
For Registration Contact - Er. Abhinav Shrivastava, Er. Vijay Singh

Why This FDP?

The resistance we have for communicating are often the communication we need to have !

- How can we Understand why others are doing what they are doing?
- How can one have effective conversations in difficult times like difference of opinion, high stake issues or emotionally charged situations?
- How can we communicate for better results & relationships when dealing with Bad Behavior, Violated Expectations, Broken Promise?
- Communication Maestro is a programme that will move participants from being stuck in difficult situations to communicate effectively to breakthrough the resistance and cause Transformation.
- The world that we live in is becoming full of reaction that is often the source of misery.

Programme Outline

Day-1 08-July-2019	Mr. Varun Chamadia	Self evaluate your ability on scale (1 to 10) around communication outcomes
Day-2 09-July-2019	Mr. Varun Chamadia	Universal design of communication and set yourself up for an extra ordinary adventure of communication.
Day-3 10-July-2019	Mr. Varun Chamadia	Discover the fundamental goal of every communication.
Day-4 11-July-2019	Mr. Varun Chamadia	Master the act of listening before speaking. This will set you apart from 95 % of humanity.
Day-5 12-July-2019	Mr. Varun Chamadia	Learn to express yourself fully. Master expressing feelings & facts while creating psychological safety.
Day-6 13-July-2019	Mr. Varun Chamadia	Self reflects the Transformation. Do the same self-evaluation to quantitatively & qualitatively see the difference in your communication skills.



Six Day FDP on “Communication Maestro”



6. Infrastructure & Resource Development

In 2019-20, AKS University made significant investments in infrastructure and resource development to support quality education and research. The campus is equipped with state-of-the-art laboratories for various disciplines, including advanced biotechnology labs, engineering workshops, and environmental science labs. These facilities provide hands-on learning opportunities and enable students and faculty to conduct research in areas such as agriculture, renewable energy, and water management.

The university also expanded its library resources, offering a comprehensive collection of books, journals, and e-resources, complemented by departmental libraries and a developing e-library system. This enriched learning environment supports students' academic pursuits and enhances research output.

Additionally, AKS University invested in ICT-enabled classrooms and modern teaching aids to facilitate interactive and technology-driven learning. The establishment of experimental fields and polyhouses for the agriculture faculty allowed students to gain practical exposure to crop production and soil management techniques, essential for agriculture-based studies.

Due to the effect of Covid-19 the AKS University also developed inhouse system to run the regular online classes and also performing the internal examination and end semester examination online. Durin this period the faculty members of AKSU uploaded more than 5000 video lectures for the benefits of the students as well as provided online study materials to the students.

By expanding infrastructure and enhancing resources, AKS University provided students with an innovative, hands-on education environment, supporting both academic and professional growth, and reinforcing the university's commitment to creating a modern, student-centered campus.

6.1. Student Support and Progression

In 2019-20, AKS University provided comprehensive student support services aimed at fostering academic success, personal growth, and career readiness. The university offered a range of programs to support student progression, including



mentorship, counseling, and skill development initiatives. Faculty mentors were assigned to guide students throughout their academic journey, offering personalized advice on course selection, research opportunities, and career paths. AKS University also maintained a strong focus on mental health and wellness, providing counseling services that addressed academic stress and personal challenges.

To enhance employability, the university organized workshops and training sessions on communication skills, interview techniques, and resume building. Additionally, industry-oriented internships and placement programs connected students with leading companies, increasing job prospects upon graduation. The university also facilitated a variety of extracurricular activities, such as sports, cultural events, and student clubs, promoting holistic development and a well-rounded university experience.

Through these initiatives, AKS University demonstrated its commitment to student success, ensuring that each student had the resources, guidance, and support needed to thrive academically and professionally. The 2019-20 academic year showcased the university's dedication to nurturing confident, skilled, and socially responsible graduates.

6.2 Student Achievement in Cocurricular Activities

S. No	Name of the student	Name of the event	Date of Event	Name of the Organising Institution
1.	Asmita Tiwari	Mehendi / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
2.	Priyanshi Naidu	Western Vocal Solo / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi



3.	Tulsi Tripathi	Classical Vocal Solo (Hindustani/Karnataka) / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
4.	Tulsi Tripathi	Light Vocal Solo / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
5.	Prateek Nigam	Elacution / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
6.	Shruti Jain	On the Spot Painting / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
7.	Amit Kumar	Cartooning/ 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
8.	Amit Kumar	Collage / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi



9.	Akarshit Dwivedi	Spot Photography / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
10.	Amit Kumar	Poster Making/ 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
11.	Shruti Jain	Rangoli / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
12.	Asmita Tiwari	Mehendi / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
13.	Sanjana Agrawal	Clay Modeling / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi
14.	Kunal Dongre	Classical Instrumental Solo (Non Percussion) / 35th Inter University Central Zone Youth Festival-2019-20 Mrignayani Youth fest	14 -18 Dec 2019	Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi



15.	Asmita Tiwari	Mehendi / 35th Inter University National Festival-2019-20 Amity Utasav	03-07 Feb 2020	Amity University, Noida, Uttar Pradesh under the aegis of Association of Indian University (AIU) New Delhi
16.	Prateek Nigam	Block Level Speech Competition organized By Neharu Yuva Kendra Satna (M.P.)	27 Sep 2019	Neharu Yuva Kendra, Satna Madhya Pradesh, Ministry of Youth Affairs and Sports, Govt. of India
17.	Prateek Nigam	Speech Competiton / Suddha Ke Liye Yuddha	09 Aug. 2019	Department of Food Safety, Satna, Government of Madhya Pradesh
18.	Ashutosh Singh	Speech Competiton / Suddha Ke Liye Yuddha	09 Aug. 2019	Department of Food Safety, Satna, Government of Madhya Pradesh
19.	Kamini Singh	Eassy Writing Competition / All India Essay Writing Event -2019	12 Sep 2019	Shri Ram Chandra Mission and United Nation information Center India and Bhutan
20.	Archit Gautam	Eassy Writing Competition / All India Essay Writing Event -2019	12 Sep 2019	Shri Ram Chandra Mission and United Nation information Center India and Bhutan
21.	Ankita Tiwari	Painting Competition / State Level Painintng Competiton 2019	02 Oct 2019	Department of Higher Education Govt. of Madhya Pradesh Hosted by Mahatma Gandhi Chitrakoot Gramodaya University Chitrakoot Dist. Satna



First Rank in Cultural Procession / 34th Inter University Central Zone Youth Festival Joun Parv 2019 Organized Sambhalpur University Odisha Under the aegis of Association of Indian Universities (AIU) New Delhi on 7-11 January 2019



1st Rank in Cultural Procession / 34th Inter University Central Zone Youth Festival Joun Parv 2019 Organized Sambhalpur University Odisha Under the aegis of Association of Indian Universities (AIU) New Delhi on 7-11 January 2019



Facilitation for participation in Folk Orchestra at 35th Inter University National Youth Festival-2020 AMITYUTSAV organized by Amity University, Noida Uttar Pradesh under the aegis of Association of Indian University (AIU) New Delhi on 03-07 February 2020



Photo with Joint Secretary AIU and VC Amity University, Noida during faciliation ceremony at 35th Inter University National Youth Festival-2020 AMITYUTSAV organized by Amity University, Noida Uttar Pradesh under the aegis of Association of Indian University (AIU) New Delhi on 03-07 February 2020



Participation in Folk Orchestra at 35th Inter University National Youth Festival-2020 AMITYUTSAV organized by Amity University, Noida Uttar Pradesh under the aegis of Association of Indian University (AIU) New Delhi on 03-07 February 2020



First Rank in Folk Orchestra / 35th Inter University Central Zone Youth Festival-2020 Mrignayani Youthfest organized by Jeewaji University, Gwalior Madhya Pradesh under the aegis of Association of Indian University (AIU) New Delhi on 14-18 December 2019



Award of Appreciation for participation in Street Play / National Theatre Fest "RANGREZZ"-2019 organized By Chitkara University, Patiyala Punjab on 27-28 September

7. Extension Outreach Activity (session 2019-20)

7.1. Kisaan Mela AgriTech-2020 organized by AKS University in Madhya Pradesh



Kisaan Mela AgriTech-2020 organized by AKS University in Madhya Pradesh

The Kisaan Mela AgriTech-2020 organized by AKS University Satna, with the association of Department of Farmer Welfare and Agriculture Development, (Govt. of MP) aimed to educate and empower farmers with modern age technologies as well as to found the solutions the associated issues of local farming community. More than 5000 farmers and 150 agricultural input providers were participated in this event focused on sharing innovative agricultural practices, sustainable farming techniques and advancements in technology.

The primary goal of this Kisaan Mela was to bridge the gap between modern agricultural techniques and traditional practices. The organizing committee, comprising faculty members, students, and local agricultural officers, worked tirelessly to create a program that would benefit all participants. They secured partnerships with various agricultural departments and NGOs to provide workshops, demonstrations, and resources.



Highlights of the Event

- **Workshops and Demonstrations:** The fair featured workshops on organic farming, pest management, innovative irrigation techniques and new age agricultural machineries. Experts from the agricultural field shared valuable insights, helping farmers learn new skills that could enhance their productivity.
- **Exhibitions:** Local farmers showcased their produce, including organic vegetables and traditional crops, promoting healthy eating and sustainable farming. This exhibition not only highlighted the quality of local agriculture but also fostered a sense of pride within the community.
- **Technology Showcase:** Several agricultural startups presented cutting-edge technologies, such as smart irrigation systems and modern farming machineries and equipment. Farmers were able to interact with these technologies, gaining hands-on experience that could transform their practices.
- **Panel Discussions:** Thought leaders in agriculture participated in discussions about the future of farming in India, addressing challenges such as climate change, market access, and government policies. These discussions encouraged dialogue and inspired innovative thinking among participants.
- **Cultural Programs:** The fair included cultural performances, traditional music, and dance, celebrating the rich agricultural heritage of the region. This not only entertained but also strengthened community bonds.

The Kisaan Mela was a resounding success. Over 5000 visitors attended, with many expressing gratitude for the knowledge and resources gained. Farmers reported increased awareness of sustainable practices, and several expressed interest in adopting new technologies demonstrated at the event.

Feedback from participants highlighted the importance of such initiatives in fostering community engagement and collaboration. Many attendees suggested making the Kisaan Mela an annual event to continue building on the momentum created.



2nd AgriTech मध्य प्रदेश

Kisan Vigyan Mela - 2020

National AgriExhibition Cum Workshop



एकेएस में एग्रीफेस्ट-2020 का तीसरे दिन गरिमापूर्ण समापन

➤ जैविक खेती के माध्यम से होगा गुणवत्तापूर्ण उत्पादन-पद्मश्री बाबूलाल दाहिया

➤ किसानों के सहयोग और मेले में उनकी सहभागिता के लिए एकेएस वि.वि. ने माना आभार



किसानों और विद्यार्थियों के लिए व्याख्यान और प्रदर्शनी

कृषि विभाग, म.प्र. शासन के आयोजन के तहत तीन दिनों का कार्यक्रम शुरू किया गया। कार्यक्रम में किसानों के बीच जागरूकता बढ़ाने के लिए विभिन्न विषयों पर व्याख्यान और प्रदर्शनी का आयोजन किया गया।

सतना (मध.प्रदेश)। हमारे किसानों को अपनी जमीन में अधिक पैसा कमाने के लिए हमें अधिक जानकारी देना चाहिए। डॉ.बी.एल.कृष्ण ठाकुर, जिला कृषि अधिकारी, सतना ने किसान कल्याण की योजनाओं पर विस्तार से प्रकाश डाला। उन्होंने किसानों को अधिक पैसा कमाने के लिए अधिक पैसा देना चाहिए।

इन स्टॉल को मिला प्रथम, द्वितीय और तृतीय पुरस्कार

कृषि और उनकी राय के आधार पर हमें नए से प्रथम अवार्ड अवॉर्ड प्रदान किया, द्वितीय पुरस्कार कुबोटा और तृतीय पुरस्कार जीन डियर को, डॉ.बी.एल.कृष्ण ठाकुर ने प्रथम अवार्ड कृषि खादी निगम प्रामोदगो, द्वितीय पुरस्कार युनाइटेड फर्मेस, सतना और तृतीय पुरस्कार निर्मल सोडन को, डॉ.बी.एल.कृष्ण ठाकुर ने प्रथम पुरस्कार के हकदार एग्रीकॉपी और मृदा विभाग, एकेएस.वि.वि., द्वितीय पुरस्कार संयुक्त इंडी विभाग, और तृतीय पुरस्कार एग्रीकॉपी इन्फोर्मेशन विभाग को प्रमाण पत्र देकर सम्मानित किया गया। कृषि क्षेत्र में उत्कृष्ट कार्य करने वाले 16 किसानों को 10 हजार रु का पुरस्कार आभा द्वारा प्रदान किया गया। जबकि विशिष्ट पुरस्कार के लिए बायोटेक्नोलॉजी और फूड टेक्नोलॉजी विभाग को प्रदान किया गया।



7.2. Number of extension and outreach programs conducted by the institution through organized forums like NSS/NCC Session 2019-20

Name of the activity	Organising unit/ Forum/ collaborating agency	Date of the activity
COMBINED ANNUAL TRAINING Program	AKS university (NCC) and 3 MP BN NCC Rewa	02-12-2019
Swachha Bharat Abhiyan	AKS university (NCC) and 3 MP BN NCC Rewa	15-11-2019
Awareness about Organic Cultivation Programme at Badera	Department of Agriculture AKS University and Village Panchayat	31-10-2019
Kisaan Sanghosthi at Badera about high tech Agriculture	Department of Agriculture AKS University and Village Panchayat	30-10-2019
Kisaan Sanghosthi at Gobrawn Khurd about Organic Cultivation Programme	Department of Agriculture AKS University and Village Panchayat	26-10-2019
Kisaan Sanghosthi at Gudhuwa about Organic Cultivation Programme-Integrated pest management	Department of Agriculture AKS University and Village Panchayat	21-10-2019
Kisaan Sanghosthi at Dangi Tola awareness about excess use of fertilizer	Department of Agriculture AKS University and Village Panchayat	14-08-2019
Kisaan sanghosthi at Sohawal with the theme of orgnic cultivation	Department of Agriculture AKS University and Village Panchayat	11-08-2019
Save water Campain at lagargawan village	Department of Agriculture AKS University and Village Panchayat	24-07-2019
Plantation programme at Amdari a awareness progreamme	Department of Agriculture AKS University and Village Panchayat	24-07-2019
Save water Campain programme at Sohawal	Department of Agriculture AKS University and Village Panchayat	23-07-2019



Kuposhan Mukti Abhiyan Lohraura an awareness programme	Department of Agriculture AKS University and Village Panchayat	20-07-2019
Social Awareness Program	AKS university (NCC) and 3 MP BN NCC Rewa	15-07-2019
Kisaan sanghosthi at Dhankhed about Biofertilizer	Department of Agriculture AKS University and Village Panchayat	11-07-2019
E-Chaupal	Department of Agriculture AKS University and RAWA allotted Village	29-05-2020









8 Conclusion

The 2019-20 Annual Report of AKS University reflects a year of progress, resilience, and a steadfast commitment to the institution's core mission of providing high-quality, accessible education. The university's achievements in research, student support, curriculum innovation, and community service have laid a strong foundation for continued growth and excellence. As it moves forward, AKS University is well-positioned to expand its impact, leveraging its strengths to foster future generations of skilled professionals, responsible citizens, and innovators. Through a combination of academic rigor, community involvement, and an unwavering dedication to student success, AKS University continues to make meaningful contributions to both the local and broader educational landscape.

A detailed account of the university's progress and accomplishments, highlighting its commitment to academic excellence, research, and community engagement. During this academic session, AKS University strengthened its position as a reputable institution focused on delivering quality education, promoting innovation, and driving regional development. The report captures how the university's mission to provide affordable, skill-based education has positively impacted the lives of its students and the community.

A key area of focus for AKS University in 2019-20 was research and development, with substantial investments in infrastructure, faculty training and collaborative projects. The university established dedicated research centers in areas such as biotechnology, agricultural sciences, and environmental studies, producing innovative solutions to real-world challenges. These centers facilitated interdisciplinary research and contributed to the advancement of knowledge in critical fields. By fostering collaborations with industries, government agencies, and other educational institutions, AKS University enhanced the relevance and impact of its research, positioning itself as a leader in applied research within the region.

Community outreach was another essential aspect of the university's activities in 2019-20. The Rural Agriculture Work Experience Programme, for instance, involved direct engagement with local farmers, providing training on modern farming practices to boost agricultural productivity. The adoption of villages in Satna district



demonstrated AKS University's commitment to social responsibility and its dedication to regional upliftment. By addressing local challenges in agriculture, water management, and sustainable development, the university contributed meaningfully to the betterment of society.

Recognizing the importance of student wellness and extracurricular activities, AKS University offered opportunities for students to participate in sports, cultural events, and student clubs, promoting a well-rounded education that balances academics with personal development.



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