K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

SCHOOL OF AGRICULTURAL SCIENCES

NEWSLETTER APRIL TO JUNE - 2025

S.No	CONTENT PAGE

FROM THE EDITORIAL TEAM

This issue brings together a rich collection of articles and features, ranging from organic farming practices and evolving trends in agricultural extension to insights into cutting-edge technologies shaping modern farming systems. We are also delighted to share alumni messages, highlighting their experiences and continued contributions to the field of agriculture.

Dear Readers,

It gives me immense pleasure to present to you the April–June 2025 edition of our School of Agricultural Sciences Newsletter. This quarterly publication continues to reflect the vibrant academic, research, and outreach endeavours that make our school a hub of innovation and excellence in agricultural sciences.

The past quarter has been particularly eventful, with remarkable faculty achievements, including patents, publications, and memberships in prestigious professional societies. Equally inspiring have been the student accomplishments in academics, co-curricular activities, and community connect initiatives that reflect their growing role as future leaders in agriculture.

This issue brings together a rich collection of articles and features, ranging from organic farming practices and evolving trends in agricultural extension to insights into cutting-edge technologies shaping modern farming systems. We are also delighted to share alumni messages, highlighting their experiences and continued contributions to the field of agriculture.

Through these pages, we celebrate not only our collective progress but also the spirit of curiosity, innovation, and service that defines our community. As we move forward into the new cropping season, may this newsletter serve as both an informative resource and a source of inspiration for all.

We sincerely thank you for your support and look forward to continuing this journey of knowledge sharing, innovation, and growth.

Warm regards,

Editorial Team

Dr. Anjali Tomar

Editor-in-chief & Assistant Professor

School of Agricultural Sciences

K. R. Mangalam University

FROM THE DESK OF IQAC COORDINATOR

The enthusiastic participation of students and faculty in capacity-building programmes, research endeavours, community connect initiatives, and field-based learning is shaping a new generation of agricultural professionals who are well-prepared to address contemporary global challenges.

It is with great pleasure that I share this message for the April–June 2025 edition of the School of Agricultural Sciences Newsletter. This publication continues to reflect the tireless efforts, academic vibrancy, and progressive outlook of the school, and I commend the entire team for showcasing the diverse initiatives and remarkable achievements of the past quarter.At the Internal Quality Assurance Cell (IQAC), our commitment remains focused on fostering a culture of excellence, accountability, and continuous quality enhancement across the university. Beyond ensuring compliance, IQAC strives to build an ecosystem where innovation, academic rigor, student engagement, and societal contributions are seamlessly woven into the institutional framework. It is heartening to witness how the School of Agricultural Sciences consistently aligns with this vision in all its pursuits.

The enthusiastic participation of students and faculty in capacity-building programmes, research endeavours, community connect initiatives, and field-based learning is shaping a new generation of agricultural professionals who are well-prepared to address contemporary global challenges. This newsletter is more than a compilation of activities it is a narrative of growth, collaboration, and innovation, reflecting how academic units integrate quality benchmarks, adopt - best practices, and contribute to the holistic development of students and the institution alike.

I encourage all readers to treat this edition not merely as a record of events, but as a source of inspiration and motivation to contribute meaningfully to our collective mission of academic and societal transformation. Let us continue to move forward with purpose, passion, and an unwavering commitment to quality.

Warm regards,

Editor

Dr. Shikha Dutt Sharma

IQAC Coordinator

MESSAGE FROM THE LEADERSHIP

Research is the foundation of agricultural innovation, and I am proud to witness the dedication of our faculty and students in exploring new frontiers that contribute to sustainable farming, agribusiness, and rural livelihoods. These endeavors not only enrich our academic environment but also strengthen our role in addressing national agricultural priorities and advancing the United Nations Sustainable Development Goals.

Dear Readers,

Warm greetings from the Office of Dean Research!

The School of Agricultural Sciences at K.R. Mangalam University has been making commendable progress in education, research, and community engagement. By promoting experiential learning, innovative research, and sustainable practices, the school is preparing future-ready agricultural professionals who are committed to advancing food security, rural development, and environmental sustainability.

Research is the foundation of agricultural innovation, and I am proud to witness the dedication of our faculty and students in exploring new frontiers that contribute to sustainable farming, agribusiness, and rural livelihoods. These endeavors not only enrich our academic environment but also strengthen our role in addressing national agricultural priorities and advancing the United Nations Sustainable Development Goals.

As we move ahead, I invite every member of our academic community to continue this journey of excellence with passion and purpose. Together, let us reaffirm our commitment to contributing meaningfully to agriculture, rural development, and society at large.

With warm regards,

Dr. Seema Raj

Dean Research

K.R. Mangalam University, Gurugram, Haryana

MESSAGE FROM THE DEAN

The past quarter has been marked by remarkable achievements, including faculty accomplishments in research, patents, publications, and prestigious memberships, as well as student successes in academic, cultural, and community connect initiatives. Alongside these, our focus on organic farming, emerging trends in agricultural extension, and innovative field-

Dear Readers,

It gives me immense pleasure to present the April–June 2025 edition of the School of Agricultural Sciences Newsletter. This publication is more than a record of activities - it reflects the energy, dedication, and shared vision that drive our school forward.

The past quarter has been marked by remarkable achievements, including faculty accomplishments in research, patents, publications, and prestigious memberships, as well as student successes in academic, cultural, and community connect initiatives. Alongside these, our focus on organic farming, emerging trends in agricultural extension, and innovative field-based learning continue to strengthen the bridge between theory and practice.

At the School of Agricultural Sciences, our mission is to prepare students to become knowledgeable, responsible, and innovative agri-professionals who can address the challenges of food security, climate change, and sustainable rural development. Every workshop, training session, and collaborative effort showcased in this newsletter is a step toward fulfilling that mission. I would like to extend my sincere appreciation to the editorial team for curating this edition with such thoughtfulness and to our faculty, staff, students, and alumni whose contributions and enthusiasm make our school a vibrant hub of learning and growth. As you go through this newsletter, I hope you find inspiration in the stories of innovation, collaboration, and commitment that define our collective journey.

Happy reading.

Warm wishes,

Dr. Joginder Singh Yadav

Dean, School of Agricultural Sciences

K. R. Mangalam University

SCHOOL VISION AND MISSION

ABOUT THE SCHOOL OF AGRICULTURAL SCIENCES

School of Agricultural Sciences at K. R. Mangalam University is fully equipped with the facilities of laboratories agriculture farms to carry out the Teaching, Practical and Research work. All the faculty members are well qualified (Ph.D. in their respective fields) and well experienced. The faculty remains in constant touch with various experts in the relevant fields and is willing to experiment with latest ideas in teaching and research. School of Agricultural Sciences imparts students technical knowledge, enhances their practical skill and ability, motivating them to think creatively, helping them to act independently and take decisions accordingly in all their technical pursuits and other endeavors. It strives to empower its students and faculty members to contribute to the development of society and Nation.

School Vision

To be an internationally recognized Agri-institute for agriculture education, research and innovation, and Agri-entrepreneurship.

School Mission

Interdisciplinary approach, innovative pedagogy, stimulating research to foster Agri-based employability and entrepreneurship.

Integrate global needs and expectations through collaborative programs with premier universities, research centers, industries, and professional bodies within India and abroad for global exposure & real-life work experience.

Practicing cutting-edge-technologies, tools, techniques, practices, and processes in the field of agriculture

Developing leadership, ethical values, and sensitivity to the environment.

FACULTY ACHIEVEMENTS

CERTIFICATE OF MERIT FOR EXCELLENCE IN ACADEMIC AWARD

Dr. Deepak Kumar, Assistant Professor at K. R. Mangalam University, Sohna-Gurugram, Haryana, has been honored with the Excellence in Academic Award 2025 by the Society of Agricultural Research and Social Development (SARSD), New Delhi. The award was conferred in recognition of his outstanding contribution and achievements in the field of Agriculture (Genetics and Plant Breeding). The felicitation took place during the International Conference on Allied Sciences and Novel Trends in Resilient & Precision Agriculture (ICAN 2025), held on May 29-30, 2025. Organized jointly by SARSD (New Delhi), Sushthayi Krishi Foundation (West Bengal), and Southern Federal University, Russia, the conference provided a global platform to celebrate excellence and innovation in agricultural sciences.

Society of Agricultural Research and Social Development (SARSD), New Delhi

(Regd. Under Registration of Societies: Regd. No.: S/3194/SDM/NW/2018)
House No.: 3, Pocket - H 34, Sector - 3. Rohini, New Delhi – 110085, India
Website: www.agriculturalsociety.co.in

Ref: ICAN-2025/130

Certificate of Merit

The executive committee of SARSD confer its

Excellence in Academic Award 2025

To
Dr Deepak Kumar
Assistant Professor
K R Mangalam University, Sohna-Gurugram, Haryana
For His/Her outstanding contribution and recognition in the field of
Agriculture (Genetics and Plant Breeding)

On the occasion of

"International Conference on Allied Sciences and Novel Trends in Resilient & Precision Agriculture"

on
ICAN 2025
ORGANIZED BY
SOCIETY OF AGRICULTURE RESEARCH AND SOCIAL DEVELOPMENT (NEW DELHI), SUSTHAYI KRISHI FOUNDATION (WEST BENGAL) & SOUTHERN FEDERAL UNIVERSITY, ROSTOV-ON-DON, RUSSIA

May 29-30, 2025

Mr. Akhil Gupta
President, SARSD

PRESIDENT

Certificate of Excellence in Reviewing

The School of Agricultural Sciences, K. R. Mangalam University, takes immense pride in announcing that Dr. Deepak Kumar, Assistant Professor, has been awarded the Certificate of Excellence in Reviewing by the Journal of Experimental Agriculture International on 4th April 2025.

This prestigious recognition was conferred in acknowledgment of Dr. Kumar's outstanding contribution to maintaining and enhancing the quality of the journal through his expert reviews.

HONORED AS FELLOW OF THE INDIAN SOCIETY OF OILSEEDS RESEARCH

Prof. (Dr.) J. S. Yadav, Dean, SOAS, has been admitted as a Fellow of the Indian Society of Oilseeds Research (ISOR), ICAR–Indian Institute of Oilseeds Research, Hyderabad on 20th May 2025. This prestigious recognition has been conferred upon Dr. Yadav for his significant contributions in the field of Oilseeds Research and Development in India. Since 2016, he has been actively engaged in advancing research, innovation, and sustainable practices in oilseed crops, contributing to agricultural growth and food security.

PROF. (DR.) J. S. YADAV CONFERRED LIFE MEMBERSHIP IN PRESTIGIOUS SOCIETIES

The School of Agricultural Sciences, K. R. Mangalam University, proudly announces that Prof. (Dr.) J. S. Yadav, Dean, School of Agricultural Sciences, has been honored with Life Membership in two esteemed organizations - the Indian Society of Soil Salinity and Water Quality and the Society of Digital Entrepreneurs on 13th May 2025 . This dual recognition not only highlights Dr. Yadav's outstanding contributions in the field of agricultural sciences but also reflects his active engagement with advancing research, innovation, and entrepreneurship.

Indian Society of Soil Salinity and Water Quality

(Registered no. ROS-088 dated 6/8/2008 under Societies Registration Act-1860)

LIFE MEMBERSHIP CERTIFICATE

Dr J. S. Yadav, Professor (Agronomy)

K R Mangalam University, Gurugram is the Life Member of Indian Society of Soil Salinity and Water Quality (ISSS&WQ), Karnal, Haryana.

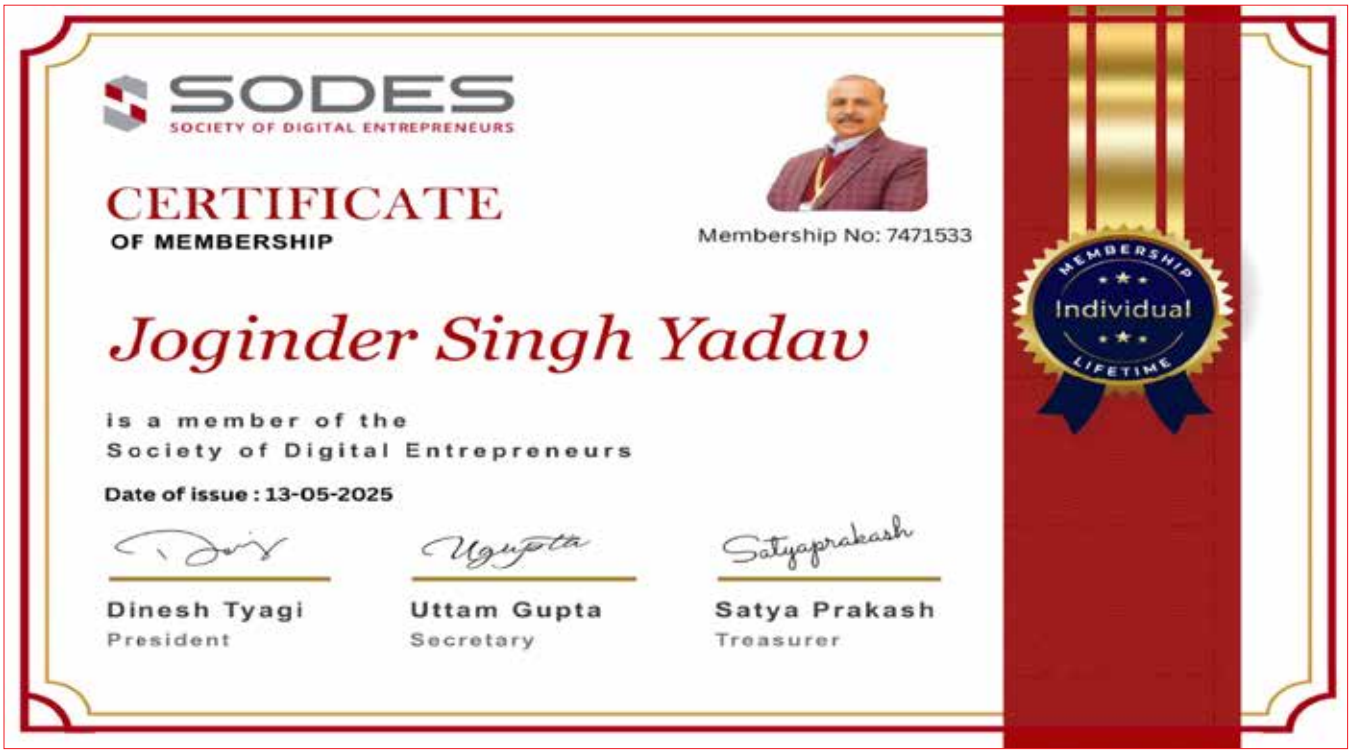
Life Membership No.: LM/2025/420

Dated: 13-05-2025

(Gajender Yadav)
(General Secretary)

(R. K. Yadav)
President

Registered Office: ICAR-Central Soil Salinity Research Institute, Zarifa Farm, Karnal-132001 (Haryana), India



SODES
SOCIETY OF DIGITAL ENTREPRENEURS

CERTIFICATE
OF MEMBERSHIP

Membership No: 7471533

Joginder Singh Yadav

is a member of the
Society of Digital Entrepreneurs

Date of issue : 13-05-2025

Dinesh Tyagi
President

Uttam Gupta
Secretary

Satya Prakash
Treasurer

MEMBERSHIP
Individual
LIFETIME

LIFE MEMBERSHIP IN INDIAN SOCIETY OF PLANT BREEDERS

The School of Agricultural Sciences is proud to announce that Dr. Deepak Kumar, Assistant Professor, School of Agricultural Sciences, has been conferred Life Membership in the Indian Society of Plant Breeders on 1st May 2025.

INDIAN SOCIETY OF PLANT BREEDERS
Centre for Plant Breeding and Genetics
Tamil Nadu Agricultural University, Coimbatore
Tamil Nadu, INDIA

Reg. No. 191/1995 ISPB/LM/Certificate/2025 dt.05.05.2025

Dr. R. Ravikesavan	Dr. S. Manickam	Dr. R. Pushpam	Dr. P. Shanthi
President	Vice President	Secretary	Treasurer

Dr. A. Subramanian	Dr. R. Suresh	Dr. A. Manivannan
Chief Editor, EJPB	Editor, EJPB	Editor, EJPB

Certificate

This is to certify that

Dr. DEEPAK KUMAR

Assistant Professor

School of Agricultural Sciences

K R Mangalam University, Gurugram, Haryana

is a LIFE MEMBER of Indian Society of Plant Breeders

Tamil Nadu Agricultural University, Coimbatore

Life Membership No. : LM 1002
Date of Enrolment : 01.05.2025

R. Pushpam
(R.PUSHPAM)
Secretary
5/5/25

https://www.ejplantbreeding.org; Email :ispbtnau@gmail.com

LIFE MEMBERSHIP IN THE BIOTECH RESEARCH SOCIETY, INDIA

Dr. Neha Sharma, Assistant Professor, School of Agricultural Sciences, K. R. Mangalam University, Gurugram, Haryana, has been conferred Life Membership of The Biotech Research Society, India (BRSI) on 14th May 2025, one of the most prestigious scientific societies in the country. With Membership Number LM-2948, her association with BRSI will remain valid until the age of 75 years.

THE BIOTECH RESEARCH SOCIETY, INDIA [BRSI]

(A Registered Scientific Professional Society : T5100/06)

Tel:+91-9447014980
E-mail: brsi.india@gmail.com
Website: https://brsi.in/

Ref: BRSI/2025-26/17

14 May 2025

CERTIFICATE OF MEMBERSHIP

This is to certify that Dr. Neha Sharma, Assistant Professor, School of Agricultural Sciences, K. R. Mangalam University, Gurugram, Haryana, is a Life Member of The Biotech Research Society, India (BRSI) with Membership Number **LM-2948**. The membership is valid till she attains the age of 75 years.

Sincerely,

Central Office Executive
BRSI

LIFE MEMBERSHIP IN SOCIETY OF EXTENSION EDUCATION, GUJARAT, INDIA

The School of Agricultural Sciences, K. R. Mangalam University, proudly congratulates Dr. Anjali Tomar, Assistant Professor, on being conferred Life Membership of the Society of Extension Education, Gujarat (India). With Life Membership No. 1674, Dr. Tomar officially became a member on 12th May 2025. This membership marks a significant milestone in Dr. Tomar's academic journey and recognizes her commitment to advancing the field of Extension Education and Communication.

COLLABORATIVE INITIATIVES BY SCHOOL

SOAS SIGNS MOU AND ADOPTS BHAGAT FARMS FOR DEVELOPMENT OF AN INTEGRATED FARMING SYSTEM MODEL

The School of Agricultural Sciences (SOAS), K.R. Mangalam University, has taken a significant step toward promoting sustainable agricultural practices through the signing of a Memorandum of Understanding (MoU) and adoption of Bhagat Farms. This collaboration marks the beginning of a long-term partnership aimed at developing the farm as a model site for Integrated Farming System (IFS). The initiative reflects SOAS's commitment to combining academic knowledge with practical applications that benefit farmers, students, and the broader community. By adopting Bhagat Farms, SOAS will create a demonstration model of IFS, showcasing how diversified and resource-efficient farming practices can improve productivity, sustainability, and profitability for small and marginal farmers.

The development work has already commenced with the establishment of a vermicomposting unit at the farm. This unit not only promotes organic waste recycling and soil health improvement but also serves as a hands-on learning platform for students. In the coming months, SOAS plans to expand activities by incorporating additional components of the IFS model, such as horticultural interventions, livestock integration, and water resource management. Speaking on the occasion, Dr. J. S. Yadav, Dean, SOAS, emphasized that the adoption of Bhagat Farms will provide a live laboratory for students to gain field-based knowledge while also supporting the farming community in adopting modern yet sustainable practices.

The initiative aims to create a replicable model that can inspire farmers in the region to adopt integrated approaches for better income generation and environmental conservation. The collaboration between SOAS, KRMU and Bhagat Farms represents a step forward in the mission of linking education, research, and extension. With the active participation of faculty, students, and the farming community, the project is poised to become a benchmark in sustainable agricultural development.

Vermi-composting Unit at Bhagat Farms

MOU SIGNING CEREMONY BETWEEN SOAS AND BHAGAT FARM

The School of Agricultural Sciences, K.R. Mangalam University, signed a Memorandum of Understanding (MoU) with Bhagat Farms on 23rd April 2025, marking an important step towards strengthening industry-academia collaboration. The MoU aims to provide students with practical exposure, skill development opportunities, and hands-on training in modern farming practices, agribusiness, and sustainable agriculture. Through this partnership, both institutions will work together to promote research, internships, and knowledge exchange that will enhance students' employability and entrepreneurial skills. The ceremony reflected the shared vision of fostering innovation and bridging the gap between theoretical learning and real-world agricultural practices.

MOU SIGNING CEREMONY BETWEEN SOAS AND SOCIETY OF DIGITAL ENTREPRENEURS (SODES)

The School of Agricultural Sciences, K.R. Mangalam University, entered a Memorandum of Understanding (MoU) with the Society of Digital Entrepreneurs (SODES)-Delhi, on 8th May 2025, formalized through a signing ceremony aimed at promoting innovation, digital empowerment, and entrepreneurial growth among students. The collaboration seeks to create opportunities for students to gain exposure to digital tools, start-up ecosystems, and emerging technologies in agriculture and allied fields. By fostering joint workshops, training programs, and research initiatives, the MoU will enable students to develop entrepreneurial mindsets and enhance their digital competencies. The event highlighted the mutual commitment of SOAS and SODES to nurturing future-ready professionals equipped to contribute to both agriculture and the digital economy.

KRISHI VIKAS

CLIMATE-SMART EXTENSION APPROACHES: HELPING FARMERS ADAPT TO CLIMATE CHANGE WITH RESILIENT PRACTICES

Dr. Anjali Tomar
Assistant Professor
(Agri. Extension Education)

Climate change has become one of the greatest challenges for global agriculture. Farmers across the world are increasingly experiencing the consequences of shifting weather patterns—erratic rainfall, longer dry spells, unexpected floods, rising temperatures, and declining soil fertility. These challenges not only threaten crop productivity but also impact food security, incomes, and rural livelihoods.

In this scenario, climate-smart extension approaches are emerging as powerful tools to help farmers adapt, innovate, and build resilience. Extension acts as the bridge between scientific research and farmers' fields, ensuring that knowledge, skills, and practices reach rural communities in ways that are practical and impactful.

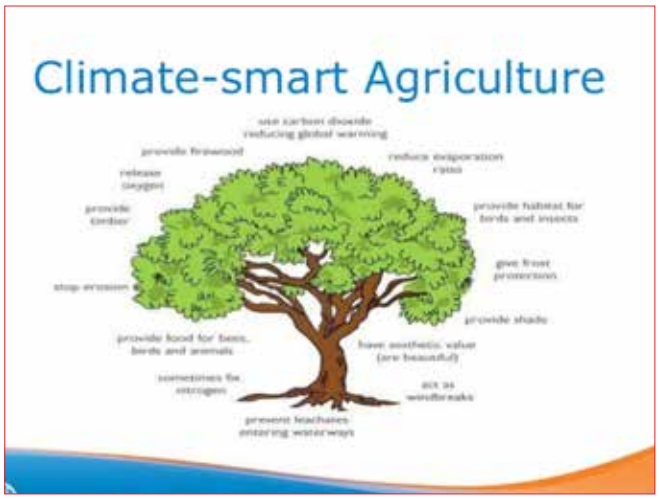
What is Climate-Smart Agriculture?

Climate-Smart Agriculture (CSA) is an integrated approach with three major goals:

1. Sustainably increase productivity to meet growing food demands,
2. Enhance adaptation and resilience to climate variability and shocks, and
3. Reduce greenhouse gas emissions wherever possible.

CSA is not about a single technology or practice - it is about combining multiple approaches tailored to local conditions, ensuring farmers can withstand risks while improving profitability.

Climate-Smart Practices Promoted Through Extension



Extension professionals are guiding farmers to adopt a range of adaptive and resilient practices:

- Agroforestry and Diversification: Integrating trees with crops or livestock reduces risks, improves soil fertility, and provides alternative sources of income such as fruits, fodder, or timber. For example, combining cereal crops with leguminous plants improves soil nitrogen and reduces fertilizer needs.
- Conservation Agriculture: Practices like minimum tillage, crop residue retention, and crop rotation help conserve soil moisture, reduce erosion, and enhance soil biodiversity—critical for long-term sustainability.
- Efficient Water Management: Water-saving technologies such as drip irrigation, sprinkler systems, and Alternate Wetting and Drying (AWD) in rice cultivation significantly reduce water use while maintaining yields.
- Climate-Resilient Crop Varieties: Farmers are increasingly

adopting drought-tolerant, flood-resistant, and early-maturing varieties that can cope with unpredictable weather. For instance, short-duration paddy varieties are useful in areas facing delayed monsoons.

- Organic and Low-Input Farming: Vermicomposting, green manuring, and biofertilizers enhance soil fertility and reduce dependence on chemical inputs, making farming more sustainable and cost-effective.
- Precision Farming and ICT Tools: Mobile applications, SMS-based advisories, and weather forecasting services help farmers make timely decisions regarding sowing, irrigation, pest control, and marketing.

Extension Approaches Driving Adoption

The effectiveness of climate-smart practices depends on how well farmers are engaged and supported. Extension professionals are using innovative methods to spread awareness and build capacity:

Farmer Field Schools (FFS): These provide hands-on training where farmers experiment with new practices directly in their fields, encouraging peer learning and confidence in adoption.

Community Workshops and Trainings: Organized at the village level, these sessions help farmers understand climate risks and practical adaptive strategies, while encouraging collective action.

Participatory Rural Appraisal (PRA): This approach involves farmers in identifying challenges and co-developing solutions, ensuring that interventions are locally relevant and farmer-driven.

ICT-Based Advisory Services: Mobile-based apps, helplines, and weather information services are empowering farmers with real-time data, improving decision-making and reducing risks.

Demonstration Plots: Establishing live models of climate-smart practices allows farmers to witness results first-hand before adopting them in their own fields.

Real-World Impact

Evidence from various regions highlights the potential of climate-smart extension approaches:

In Andhra Pradesh, crop diversification programs encouraged farmers to combine groundnut with horticultural crops like mango and vegetables, reducing risk and significantly improving earnings.

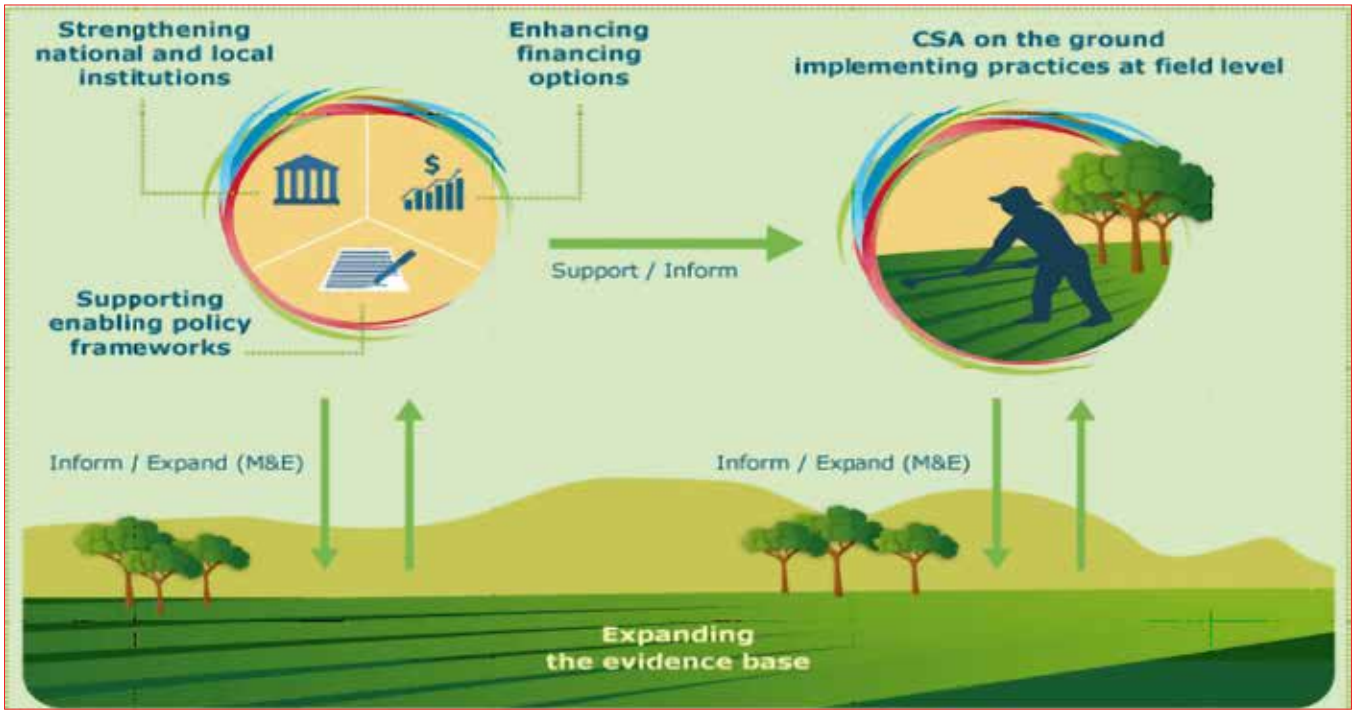
In Haryana, ICT-enabled weather advisories have allowed farmers to make better irrigation and pesticide decisions, minimizing crop losses due to sudden weather changes.

These examples illustrate how extension, when combined with climate-smart strategies, directly improves resilience, productivity, and farmer confidence.

Building Resilience for the Future

Climate change is not a future threat—it is a present reality. Farmers need timely support to adapt and thrive under changing conditions. By promoting climate-smart agriculture through extension-led initiatives, communities can strengthen food security, conserve natural resources, and create sustainable livelihoods.

The journey ahead requires collaboration between researchers, extension professionals, and farmers, ensuring that local wisdom and scientific innovation work hand in hand. Climate-smart extension is not just about new practices - it is about empowering farmers to become resilient, innovative, and future-ready.



ORGANIC FARMING IN AGRICULTURE

Ms. Neetu Sharma
Student of B.Sc. (Hons.)
Agriculture- Ist Year

Organic farming is a sustainable agricultural practice that avoids the use of synthetic chemicals, such as pesticides, herbicides, and artificial fertilizers, and instead emphasizes natural processes. The core idea of organic farming is to work in harmony with nature, focusing on improving soil health, enhancing biodiversity, and maintaining ecological balance. By using techniques like crop rotation, composting, and biological pest control, farmers can grow crops and raise animals in a way that support the environment. One of the key benefits of organic farming is the improvement of soil quality. Using organic matter like compost and manure, soil fertility is naturally replenished, leading to healthier crops. This also helps in preventing soil erosion and retaining moisture, making the farming system more resilient, especially in regions with unpredictable weather patterns. Over time, organic practices can help build up the organic content of the soil, which boosts its ability to store carbon and contributes to fighting climate change. Organic farming also promotes biodiversity. By avoiding chemical inputs, organic farms become habitats for a wide range of plants, animals, and beneficial insects. This diversity helps create a natural balance where pests and diseases are controlled through biological means, reducing the need for harmful chemicals. Moreover, organic farming reduces pollution in water sources and air, as there is less chemical runoff from fields into nearby ecosystems. In addition to its environmental benefits, organic farming is seen as a healthier option for consumers. Food produced through organic methods is free from synthetic chemical residues, which can be harmful to human health. As a result, organic produce is becoming increasingly popular among health-conscious individuals. Organic farming not only supports the well-being of people but also plays a crucial role in building a more sustainable and environmentally friendly future in agriculture.

TRADE BARRIERS AND GLOBAL MARKETS: HOW POLICIES AFFECT FARMERS WORLDWIDE

Mr. Anurag
Student of B.Sc. (Hons.) Agriculture- Ist Year

Agriculture has always been deeply influenced not just by the forces of nature but also by the policies that govern international trade. As globalization connects markets more than ever, farmers find themselves affected by decisions made far beyond their fields. Trade barriers- such as tariffs, quotas, and subsidies, are often introduced by governments to protect domestic industries or stabilize local economies. While these measures can benefit certain groups, they also create significant challenges for farmers across the globe, shaping what they grow, how much they earn, and whether their products find a place in the international marketplace.

At its core, trade in agriculture is about access—who gets to sell what, where, and at what price. Tariffs are taxes imposed on imported goods, often designed to protect domestic farmers from cheaper foreign produce. Quotas restrict the quantity of agricultural goods entering a market, while subsidies provide financial assistance to local farmers, making their products cheaper and more competitive. Though these policies may seem protective, they can tilt the playing field in favor of wealthier nations. For example, heavily subsidized crops from developed countries often flood international markets at lower prices, making it difficult for farmers in developing nations to compete.

The effects of these policies ripple through rural communities worldwide. Farmers in developing regions frequently struggle with low crop prices, limited market access, and reduced incentives to invest in sustainable farming practices. Some are forced to switch from food crops to cash crops to cater to global demand, creating local food security concerns. Others become dependent on fluctuating global markets, where a sudden tariff or policy shift can erase months of hard work. This unequal system widens the gap between wealthy and poor nations, leaving smallholder farmers at a disadvantage while large-scale agribusinesses thrive. Yet, within these challenges lie opportunities. Regional trade agreements, fair-trade initiatives, and digital marketplaces are opening new doors for farmers. By reducing reliance on middlemen and giving producers direct access to buyers, these platforms provide fairer prices and stronger connections between farmers and consumers. Climate-smart and value-added farming practices also enable producers to stand out in global markets that are increasingly demanding sustainable and ethically sourced food. Ultimately, trade barriers and agricultural policies are more than abstract economic tools—they are powerful forces shaping the daily lives of farmers. For global agriculture to be both fair and sustainable, policies must strike a balance between protecting local industries and ensuring equal opportunities in the international market. By promoting equitable trade practices and fostering farmer-friendly agreements, the world can move toward a future where farmers everywhere have the chance not just to survive, but to thrive.

EVENTS

FAREWELL CELEBRATION AT SOAS

The School of Agricultural Sciences (SOAS), K.R. Mangalam University, Gurgaon, organized a grand Farewell for the passing-out batch on 16th April 2025. The event was held in Room C-317 and brought together all faculty members, outgoing students, and current students from all years. The occasion was a perfect blend of celebration, nostalgia, and fun, honoring the achievements of the graduating students while fostering camaraderie within the SOAS community.

The program commenced with a warm welcome by the faculty, followed by an inspiring speech by Dr. J.S. Yadav, Dean, SOAS, who congratulated the outgoing students on their accomplishments and encouraged them to embrace future challenges with confidence and integrity. The Dean's words emphasized the importance of perseverance, continuous learning, and upholding the values of SOAS as they stepped into the next phase of their journey. Heartfelt speeches by other faculty members and students highlighted memorable moments, challenges overcome, and the academic and personal growth experienced by the graduating batch.

Adding vibrancy to the event, several student-led activities were organized. A dance competition showcased the creative and energetic talents of the students, while game competitions fostered friendly rivalry and brought laughter to the audience. The highlight of the celebration was the Mr. and Ms. Farewell event, where outstanding students from the passing batch were recognized for their personality, talent, and contribution to the SOAS community, making the occasion truly memorable.

The farewell also included opportunities for informal interactions, photo sessions, and sharing cherished memories between outgoing and current students. Faculty members personally engaged with students, offering guidance and encouragement for their future endeavors. The event concluded with warm wishes, laughter, and heartfelt goodbyes, symbolizing both the end of a chapter and the beginning of new journeys for the graduates.

The Farewell at SOAS successfully combined celebration, entertainment, and reflection, reinforcing the sense of unity, friendship, and belonging within the school. It was a fitting tribute to the passing-out batch and created memories that will be fondly remembered by all members of the SOAS community for years to come.


GPS Map Camera
Gurugram,Haryana,India
Sohna, Gurugram, Haryana 122103, India
Lat 28.271204, Long 77.069038
04/16/2025 12:59 PM GMT+05:30
Note : Captured by GPS Map Camera


FAREWELL
SOAS
2025
culture Sciences
Yesterday, Dreams of Tomorrow
aduating batch 2024-25"
Student coordinators
School of Agriculture Scie
K.R. Mangalam University

SESSION ON OUR EARTH, OUR RESPONSIBILITY

The School of Agricultural Sciences (SOAS), K.R. Mangalam University, organized a special session on the theme "Our Earth, Our Responsibility" on 23rd April 2025 to mark Earth Day. The event featured Dr. C.M. Bhagat, Managing Director of Bhagat Farms, Sohna, as the distinguished resource person. Convened by Prof. (Dr.) J.S. Yadav, Dean, SOAS, and coordinated by Dr. Anjali Tomar, the session was attended by 37 students of B.Sc. (Hons.) Agriculture. The program aimed to raise awareness about climate change, promote sustainable agricultural practices, and encourage individuals to adopt eco-friendly lifestyles in line with Sustainable Development Goal 13: Climate Action.

Dr. Bhagat delivered an inspiring talk, highlighting the environmental challenges posed by climate change, resource depletion, and unsustainable farming practices. Drawing from his experience at Bhagat Farms, he demonstrated how organic farming, composting, rainwater harvesting, and renewable energy can serve as practical solutions for building climate resilience. He emphasized the role of individuals and communities in reducing plastic usage, conserving water, planting trees, and making environmentally responsible choices. Encouraging the youth to act as eco-leaders, he urged students to engage in campus greening initiatives, spread awareness, and commit to sustainable living as a lifelong responsibility.

The session included an interactive discussion, where students raised questions on sustainable farming, organic certification, and climate-resilient crops. Dr. Bhagat responded with practical insights, motivating students to align their academic and career goals with sustainability. The event concluded with a vote of thanks by Dr. Anjali Tomar and a memento presentation by Prof. (Dr.) J.S. Yadav to Dr. Bhagat in appreciation of his contribution to sustainable agriculture and environmental advocacy. The session successfully instilled environmental consciousness among students, reinforcing the idea that safeguarding the planet is both a local and global responsibility. By combining awareness with actionable solutions, the program contributed significantly toward building a community of environmentally responsible individuals dedicated to creating a greener and more sustainable future.

UNDERSTANDING GENDER: BREAKING STEREOTYPES, BUILDING EQUALITY

The School of Agricultural Sciences (SOAS), in collaboration with the Gender Sensitization and Safety Committee, organized a seminar on Understanding Gender: Breaking Stereotypes, Building Equality on 24th April 2025 at K.R. Mangalam University. The resource person, Dr. Shobhna Jeet (Associate Professor, School of Legal Studies & Chairperson, Gender Sensitization and Safety Committee), delivered an engaging session on the importance of breaking stereotypes, viewing gender as a social construct, and recognizing subtle biases that often exist in academic and professional settings. The seminar focused on deconstructing gender roles, promoting inclusivity, and encouraging equal opportunities for all. Dr. Jeet provided practical insights into how students and educators can contribute to a gender-sensitive environment, aligning the discussions with Sustainable Development Goal 5 (Gender Equality). The session was highly interactive, with students and faculty actively sharing experiences and exploring strategies to counter discrimination and build equality. With 58 participants, the seminar successfully raised awareness and inspired collective action toward creating a more inclusive and equitable society. It concluded with a vote of thanks by Dr. Ambika Bhandari, and a memento was presented to the speaker by Dr. Anjali Tomar as a token of appreciation. The event reaffirmed KRMU's commitment to fostering a safe, respectful, and gender-sensitive academic culture.

FIELD PROJECT ON PLANT IDENTIFICATION AND QR CODE GENERATION AT DR. BHAGAT FARM

The School of Agricultural Sciences (SOAS), K.R. Mangalam University, in collaboration with Dr. Bhagat Farm, Sohna, organized a field-based project from 28th April to 2nd June 2025. This initiative aimed to strengthen students' knowledge of plant biodiversity, taxonomy, and the integration of digital tools in agriculture.

Aim and Objectives

- The project combined classroom learning with practical application, giving students exposure to both modern and traditional farming systems. The key objectives were to:
- Identify and record diverse plant and crop species on the farm.
- Document species using scientific taxonomy and digital tools.
- Create digital plant profiles containing agronomic and botanical details.
- Generate QR codes linked to plant information for easy access.
- Build students' capacity in fieldwork, digital recording, and sustainable farm practices.

Activities and Methodology

Students documented over 50 plant species ranging from cereals, vegetables, fruits, medicinal plants, and agroforestry species. Data collected included common and botanical names, plant family, uses, and origin. Each profile was digitized and linked to QR codes generated through free online tools. These laminated QR tags were placed next to plants, allowing instant access to plant data via smartphones. To make documentation more effective, each species was photographed and geo-tagged using GPS-enabled devices. Students worked in groups, guided by faculty members, ensuring systematic collection and cataloguing of farm biodiversity.

Significance and Outcomes

The project highlighted the fusion of agriculture with digital innovation. By linking plants with QR codes, it created an interactive and accessible database that serves as an educational tool for students, researchers, and farmers. This initiative promotes transparency, traceability, and knowledge-sharing in farm management.

Key outcomes included

- Improved student skills in taxonomy, data collection, and digital integration.
- Development of a live digital database for plant identification.
- A scalable, low-cost model of using QR codes in agriculture.
- Enhanced awareness of sustainable and smart farming practices.

Conclusion

The field project at Dr. Bhagat Farm demonstrated how digital technologies can transform traditional farming systems. Students not only gained practical exposure to plant biodiversity but also learned to apply modern tools like QR codes for agricultural learning and management. This innovative initiative showcases how low-cost digital solutions can support sustainability, conservation, and education in agriculture.

PROJECT ON SUSTAINABLE ORGANIC WASTE MANAGEMENT AT DR. BHAGAT FARMS

The School of Agricultural Sciences (SOAS), K.R. Mangalam University, in collaboration with Dr. Bhagat Farms, Sohna, Gurugram, organized a one-month project on "Sustainable Organic Waste Management" from 2nd May to 2nd June 2025. The initiative provided B.Sc. (Hons.) Agriculture final-year students with hands-on training in eco-friendly waste handling techniques such as composting, vermicomposting, mulching, and biochar production. Guided by Dr. C.M. Bhagat, Managing Director of Dr. Bhagat Farms, and coordinated by Prof. (Dr.) J.S. Yadav, Dean, SOAS, along with faculty organizers Dr. Jay Nath Patel, Dr. Anjali Tomar, and Dr. Ambika Bhandari, the project aimed to demonstrate how organic waste could be transformed from a disposal problem into a valuable resource. During the course of the project, students actively participated in waste collection, segregation, and processing, gaining practical knowledge of circular waste systems and resource conservation. A significant achievement was the establishment of a functional vermicomposting unit at Dr. Bhagat Farms, which converted farm residues into nutrient-rich compost capable of enhancing soil fertility, improving water retention, and reducing dependence on chemical fertilizers. Through interactive sessions and field practice, students and farm staff learned about the environmental, social, and economic benefits of sustainable organic waste management. The project proved highly beneficial in strengthening students' experiential learning while promoting eco-friendly practices on the farm. It showcased the role of organic manures in restoring soil health, supporting plant growth, and reducing environmental pollution. The initiative also aligned with the United Nations Sustainable Development Goals, particularly SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), and SDG 15 (Life on Land). By integrating knowledge with practice, the project created awareness, built capacity, and offered a scalable model for sustainable agriculture that benefits both farmers and the environment.

AGRICULTURE AND COMMUNITY CONNECT

AWARENESS PROGRAMME ON ORGANIC FARMING

On 26th May 2025, the students of the School of Agriculture Sciences (SOAS) organized an awareness programme on organic farming in village Sanp Ki Nangli during their Student READY programme under the supervision of Dr. J. S. Yadav, Dean, SOAS and Dr. Anjali Tomar, Assistant Professor, SOAS. The event aimed to educate local farmers and community members about the benefits of organic agriculture, including improved soil health, reduced chemical usage, and sustainable farming practices. Through interactive sessions, and distribution of informative materials, the students emphasized the long-term environmental and economic advantages of adopting organic methods. The programme also included success stories from practicing organic farmers, encouraging wider adoption and fostering a sense of responsibility towards sustainable agriculture among participants.

PRASHN MANCH PROGRAMME ON NATURAL FARMING & INTEGRATED FARMING SYSTEM

On 1st June 2025, the Kisan Prashan Manch program aired on DD Kisan, organized by the School of Agriculture Sciences (SOAS), focused on empowering farmers with practical solutions to enhance their income and resilience. The discussion centered around two key themes: Integrated Farming Systems (IFS) and the Pradhan Mantri Matsya Sampada Yojana (PMMSY), both of which aim to revolutionize India's agriculture and fisheries sectors.

The program showcased real-life examples of how small and marginal farmers can benefit from IFS. Experts emphasized that agriculture today must go beyond increasing yields and move towards sustainable farming, resource efficiency, and diversified income streams. Through diversification, farmers can earn from multiple streams - milk, eggs, fish, vegetables, or honey, rather than relying solely on one crop. This approach helps stabilize income, enhances household nutritional security, and creates opportunities for women and youth participation in farming activities. The discussion also stressed the ecological advantages of IFS, such as soil health improvement, efficient water utilization, and reduced chemical dependence, making it a sustainable solution for future agriculture. Experts noted that this model is particularly beneficial for small landholders, as even one to two acres can be optimized to generate higher profits when managed systematically from multiple streams - milk, eggs, vegetables, fish, or honey - enhancing household nutrition and providing opportunities for women and youth participation in agriculture.

The episode also highlighted the Pradhan Mantri Matsya Sampada Yojana (PMMSY), a flagship central government scheme launched in 2020 to revolutionize India's fisheries sector. PMMSY aims to boost fish production, modernize fishing infrastructure, promote value addition and cold chain facilities, and create stronger market linkages. The scheme supports fish farmers, fishers, and entrepreneurs through financial assistance, skill training, and entrepreneurship development. By focusing on both inland and marine fisheries, PMMSY has been instrumental in increasing farmers' access to advanced technologies, improving their incomes, and strengthening rural economies. The episode encouraged farmers to integrate fish farming into existing agricultural systems to further diversify income sources, improve food availability, and create employment opportunities.

Bringing both themes together, Kisan Prashan Manch outlined a vision of agri-aqua synergy—a development model where integrated farming and PMMSY work hand in hand. The program envisioned a future where integrated farming systems and PMMSY work together to create sustainable agricultural ecosystems. This synergy ensures economic growth, nutritional security, and environmental sustainability. Experts urged farmers to adopt innovative practices, make use of government schemes, and share knowledge at the community level to successfully transition toward profitable, climate-resilient agriculture. By aligning fisheries initiatives with diversified farming practices, farmers can create sustainable ecosystems that maximize productivity and income. The discussion underscored that this combination not only ensures economic growth but also addresses food and nutritional security for rural households. Farmers were encouraged to explore government schemes, adopt innovative farming practices, and embrace a holistic view of agriculture to meet future challenges. Kisan Prashan Manch concluded with a call to action for farmers to embrace diversified, resource-efficient practices that guarantee long-term prosperity and make agriculture a sustainable livelihood option for future generations.


किसान
प्रश्न मंच


किसान
प्रश्न मंच
SEASON 2

FACULTY RESEARCH UPDATES

RESEARCH ARTICLE

Dr. Ambika Bhandari, Assistant Professor, SOAS, have published a comprehensive review titled “Role of Plant Growth Promoting Rhizobacteria for Advanced Sustainable Agricultural Practices” in the Asian Journal of Soil Science and Plant Nutrition. This review highlights the potential of Plant Growth Promoting Rhizobacteria (PGPR) in enhancing crop productivity while promoting environmentally sustainable farming practices. By synthesizing current research, the article emphasizes how PGPR can improve soil fertility, plant growth, and stress tolerance, making it a valuable resource for researchers, students, and practitioners in sustainable agriculture. The paper was published on 14th April 2025.

Asian Journal of Soil Science and Plant Nutrition

Volume 11, Issue 2, Page 1-14, 2025; Article no.AJSSPN.133620
ISSN: 2456-9682

Role of Plant Growth Promoting Rhizobacteria for Advanced Sustainable Agricultural Practices: A Review

Ambika Bhandari [a++*], Ashoka P [b#], M. R. Bhanusree [c++], P. Anandan [d++], K. Pooja [e†], K.Nivetha [f‡] and K. Ravi Kumar [g^]

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[e] Department of agronomy, Annamalai university, Chidambaram 608002, India.
[f] Department of Agronomy, Annamalai University, Chidambaram Tamilnadu 608002, India.
[g] Agricultural College, Naira under Acharya N.G.Ranga Agricultural University, Andhra Pradesh, India.

Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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Review Article

Received: 02/02/2025
Accepted: 05/04/2025
Published: 14/04/2025

UK DESIGN PATENT

The School of Agricultural Sciences at K.R. Mangalam University proudly announces that Dr. Meena Bhandari and Dr. Joginder Singh Yadav, Dean, SOAS, have been awarded the Certificate of Registration for a UK Design by the Intellectual Property Office, United Kingdom. The design, registered on 7th April 2025 and granted on 23rd April 2025, is for a Medicinal Plant Testing Device for Active Component Identification. This innovation holds immense significance in advancing agricultural and pharmaceutical research by ensuring precise identification of medicinal plant components. The recognition not only highlights the academic excellence and research potential of SOAS faculty but also reinforces the university's commitment to fostering innovation and global contributions in science and technology.

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6435569

Grant date: 23 April 2025

Registration date: 07 April 2025

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Meena Bhandari, Dr. Joginder Singh Yadav

in respect of the application of such design to:

Medicinal Plant Testing device for Active Component Identification

International Design Classification:
Version: 15-2025
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING, SECURITY OR TESTING

Adam Williams

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

THE PATENT OFFICE OFFICIAL

FDP ATTENDED

Faculty members of the School of Agricultural Sciences (SOAS), K.R. Mangalam University, including Dr. Ambika Bhandari, Dr. Anjali Tomar, Dr. Gajraj Yadav, Dr. Deepak Kumar, Dr. Neha Sharma, and Dr. Jay Nath Patel, actively participated in a 6-day Faculty Development Programme (FDP) on Enhancing Pedagogy and Research in Agricultural Sciences held from 7th to 12th April 2025. The FDP, organized by SOAS in collaboration with the Internal Quality Assurance Cell (IQAC), KRMU, focused on strengthening teaching methodologies and advancing quality research in agricultural sciences.


KRMU/EVENT/2024-2025/2431/P36

SCHOOL OF AGRICULTURAL SCIENCES
IN ASSOCIATION WITH
IQAC

CERTIFICATE OF PARTICIPATION
IS PRESENTED TO
Dr. Ambika Bhandari, Assistant Professor,
K.R. Mangalam University
for successfully completing the 6-days Faculty Development Programme on "Enhancing Pedagogy and Research in Agricultural Sciences" organized by the School of Agricultural Sciences and Internal Quality Assurance Cell, K. R. Mangalam University, Haryana, India from 7th - 12th April 2025.

Dr. Rabiya Basri, Organizer and Asst. Prof., K. R. Mangalam University
Dr. J. S. Yadav, Convenor and Dean, SOAS, K. R. Mangalam University
Prof. Raghuvir Singh, Vice Chancellor, K. R. Mangalam University


KRMU/EVENT/2024-2025/2431/P40

SCHOOL OF AGRICULTURAL SCIENCES
IN ASSOCIATION WITH
IQAC

CERTIFICATE OF PARTICIPATION
IS PRESENTED TO
Dr. Anjali Tomar, Assistant Professor,
K.R. Mangalam University
for successfully completing the 6-days Faculty Development Programme on "Enhancing Pedagogy and Research in Agricultural Sciences" organized by the School of Agricultural Sciences and Internal Quality Assurance Cell, K. R. Mangalam University, Haryana, India from 7th - 12th April 2025.

Dr. Rabiya Basri, Organizer and Asst. Prof., K. R. Mangalam University
Dr. J. S. Yadav, Convenor and Dean, SOAS, K. R. Mangalam University
Prof. Raghuvir Singh, Vice Chancellor, K. R. Mangalam University


KRMU/EVENT/2024-2025/2431/P39

SCHOOL OF AGRICULTURAL SCIENCES
IN ASSOCIATION WITH
IQAC

CERTIFICATE OF PARTICIPATION
IS PRESENTED TO
Dr. Gajraj Singh Yadav, Assistant Professor,
K.R. Mangalam University
for successfully completing the 6-days Faculty Development Programme on "Enhancing Pedagogy and Research in Agricultural Sciences" organized by the School of Agricultural Sciences and Internal Quality Assurance Cell, K. R. Mangalam University, Haryana, India from 7th - 12th April 2025.

Dr. Rabiya Basri, Organizer and Asst. Prof., K. R. Mangalam University
Dr. J. S. Yadav, Convenor and Dean, SOAS, K. R. Mangalam University
Prof. Raghuvir Singh, Vice Chancellor, K. R. Mangalam University


KRMU/EVENT/2024-2025/2431/P38

SCHOOL OF AGRICULTURAL SCIENCES
IN ASSOCIATION WITH
IQAC

CERTIFICATE OF PARTICIPATION
IS PRESENTED TO
Dr. Deepak Kumar, Assistant Professor,
K.R. Mangalam University
for successfully completing the 6-days Faculty Development Programme on "Enhancing Pedagogy and Research in Agricultural Sciences" organized by the School of Agricultural Sciences and Internal Quality Assurance Cell, K. R. Mangalam University, Haryana, India from 7th - 12th April 2025.

Dr. Rabiya Basri, Organizer and Asst. Prof., K. R. Mangalam University
Dr. J. S. Yadav, Convenor and Dean, SOAS, K. R. Mangalam University
Prof. Raghuvir Singh, Vice Chancellor, K. R. Mangalam University


KRMU/EVENT/2024-2025/2431/P37

SCHOOL OF AGRICULTURAL SCIENCES
IN ASSOCIATION WITH
IQAC

CERTIFICATE OF PARTICIPATION
IS PRESENTED TO
Dr. Jay Nath Patel, Assistant Professor,
K.R. Mangalam University
for successfully completing the 6-days Faculty Development Programme on "Enhancing Pedagogy and Research in Agricultural Sciences" organized by the School of Agricultural Sciences and Internal Quality Assurance Cell, K. R. Mangalam University, Haryana, India from 7th - 12th April 2025.

Dr. Rabiya Basri, Organizer and Asst. Prof., K. R. Mangalam University
Dr. J. S. Yadav, Convenor and Dean, SOAS, K. R. Mangalam University
Prof. Raghuvir Singh, Vice Chancellor, K. R. Mangalam University


KRMU/EVENT/2024-2025/2431/P34

SCHOOL OF AGRICULTURAL SCIENCES
IN ASSOCIATION WITH
IQAC

CERTIFICATE OF PARTICIPATION
IS PRESENTED TO
Dr. Neha Sharma, Assistant Professor,
K.R. Mangalam University
for successfully completing the 6-days Faculty Development Programme on "Enhancing Pedagogy and Research in Agricultural Sciences" organized by the School of Agricultural Sciences and Internal Quality Assurance Cell, K. R. Mangalam University, Haryana, India from 7th - 12th April 2025.

Dr. Rabiya Basri, Organizer and Asst. Prof., K. R. Mangalam University
Dr. J. S. Yadav, Convenor and Dean, SOAS, K. R. Mangalam University
Prof. Raghuvir Singh, Vice Chancellor, K. R. Mangalam University

EXPERIENTIAL LEARNING BY STUDENTS

STUDENTS GAIN HANDS-ON EXPERIENCE THROUGH RAWE PROGRAM

The final-year B.Sc. (Hons.) Agriculture students of the School of Agricultural Sciences successfully completed their Rural Agricultural Work Experience (RAWE) during April–June 2025 at Krishi Vigyan Kendra (KVK), Muradnagar, Ghaziabad.

The program aimed to bridge classroom learning with real-world agricultural practices, enabling students to understand rural life, farmers' socio-economic conditions, and practical aspects of farming. Students participated in a wide range of activities including village surveys, integrated farming system demonstrations, vegetable nursery raising, herbal garden development, natural and organic farming, vermicomposting, soil testing and soil health card preparation, livestock and fishery interventions, and crop production techniques.

In addition, the students attended extension events such as beekeeping training, agricultural exhibitions, Krishi Vigyan Mela at ICAR-Pusa, Natural Farming Testing Centre visits in Kurukshetra, and the 11th Mega Vegetable Expo in Karnal, which gave them valuable exposure to the latest innovations in agriculture.

This experiential learning program not only enhanced the students' technical knowledge but also strengthened their communication, problem-solving, and extension skills—preparing them to serve as future agricultural professionals and entrepreneurs.

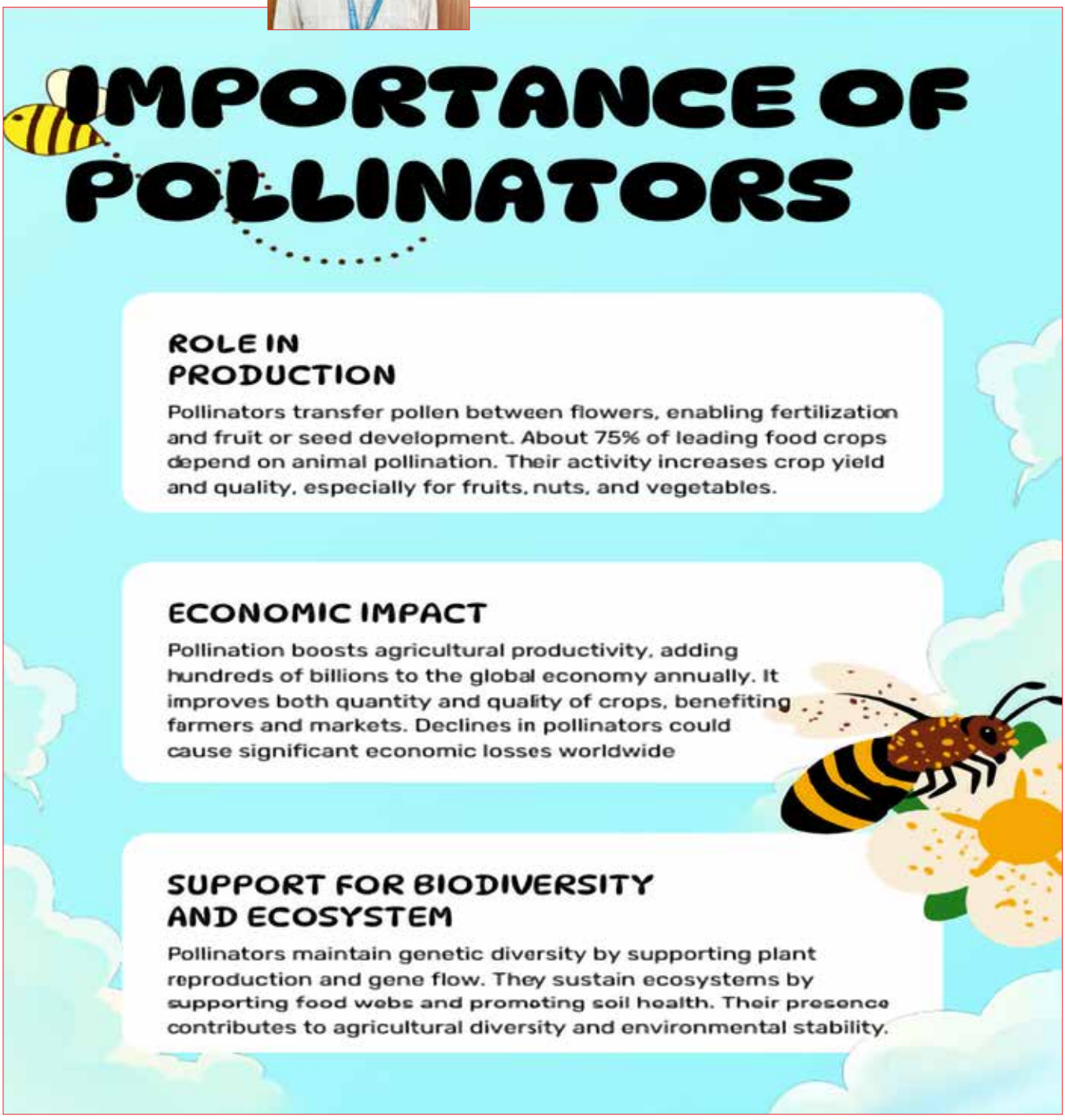
STUDENT'S CORNER

STUDENTS GAIN HANDS-ON EXPERIENCE THROUGH RAWE PROGRAM

Digital Poster on Importance of Pollinators prepared by:

Bhanu Pratap Singh,

Student of B. Sc. (Hons.) Ag. II year

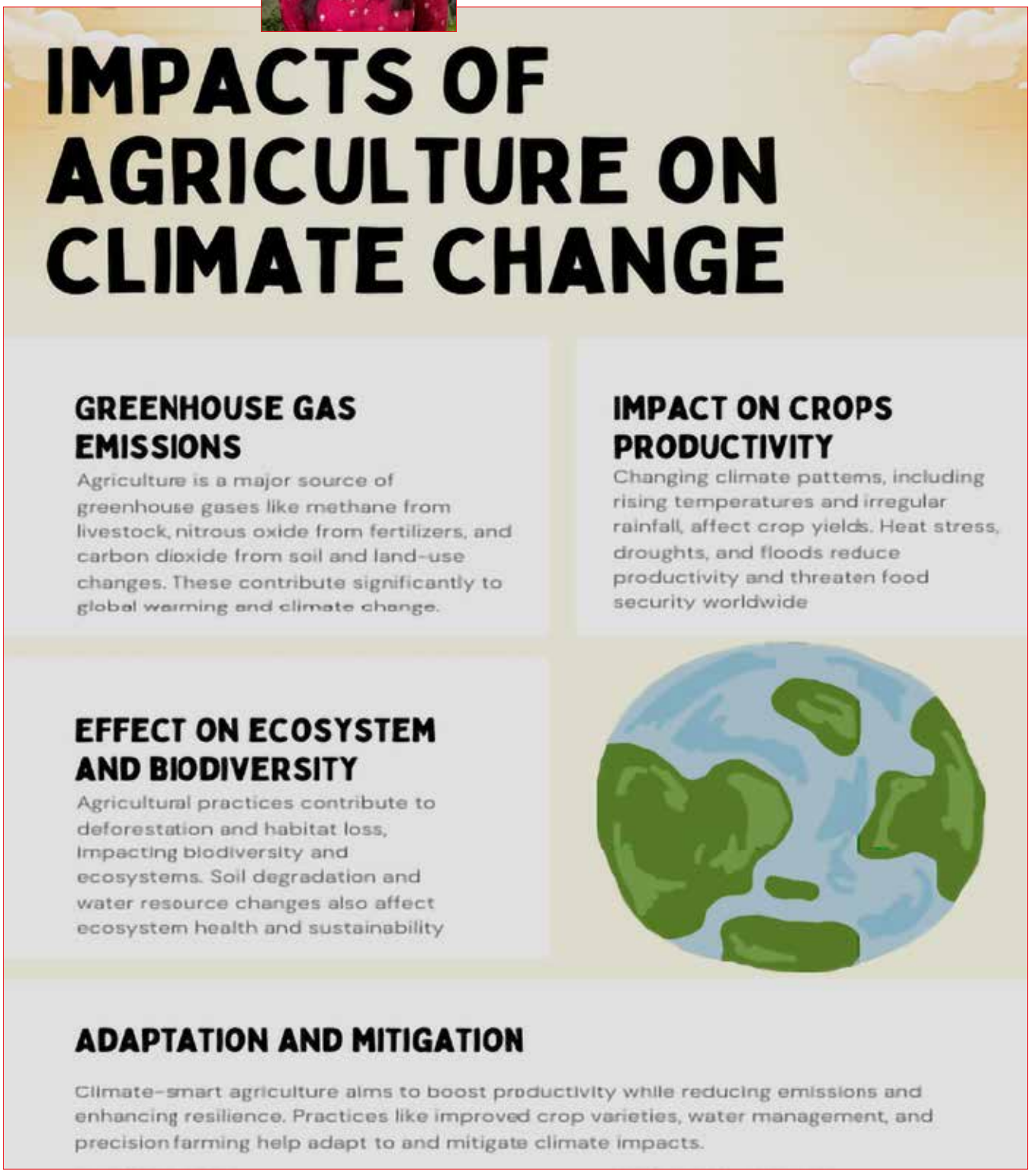


STUDENTS GAIN HANDS-ON EXPERIENCE THROUGH RAWE PROGRAM

Digital poster on Impacts of Agriculture on climate change:

Harshita,

Student of B. Sc. (Hons.) Ag. II year



DIGITAL POSTER ON AGRICULTURAL WASTE MANAGEMENT

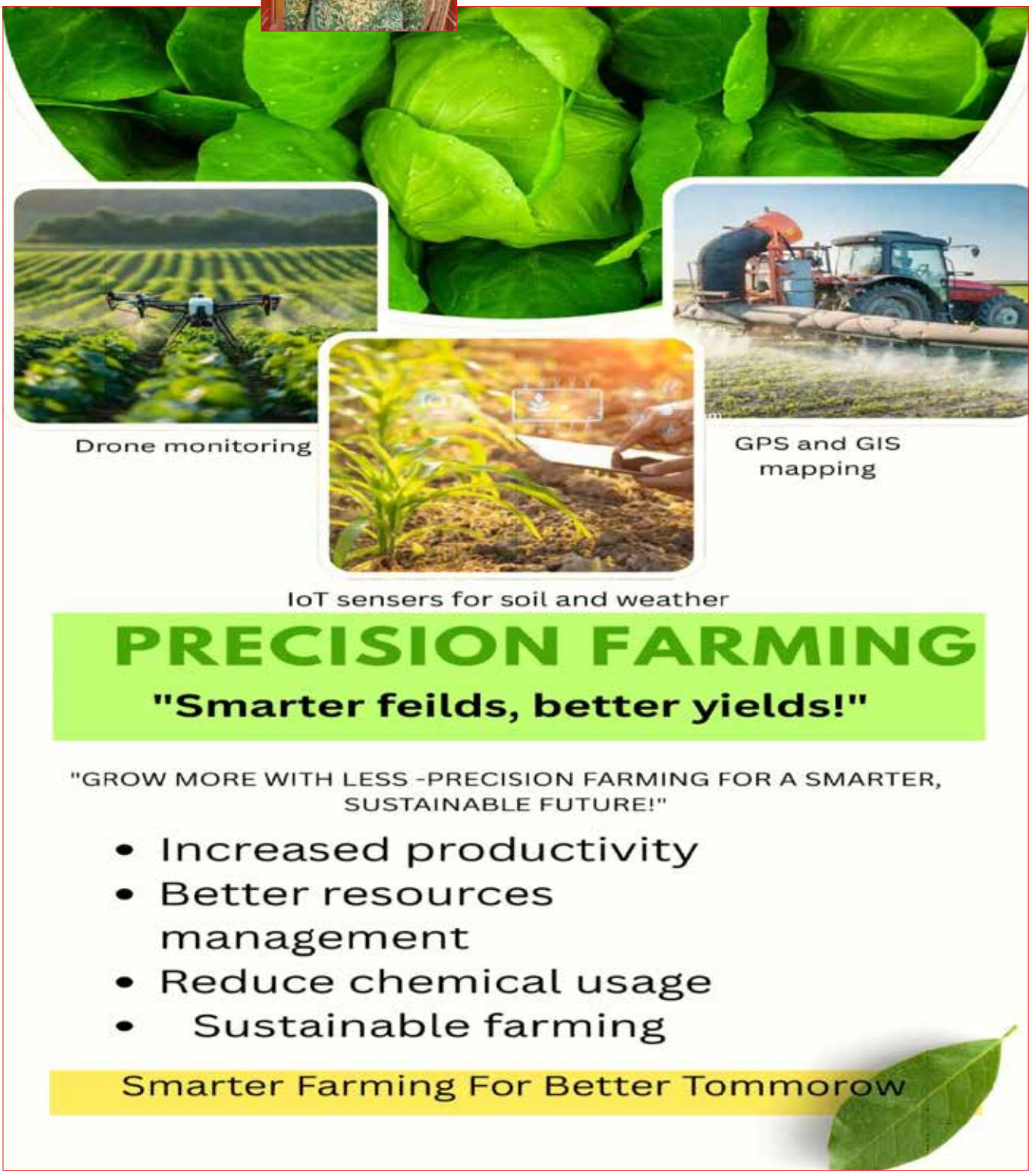
Gourav

Student of B. Sc. (Hons.) Ag. II year

Digital poster on Precision Farming:

Surabhi Dubey

Student of B. Sc. (Hons.) Ag. II year



No race can prosper till it learns there is as much dignity in tilling a field as in writing a poem.

Gourav

Student of B. Sc. (Hons.) Ag. II year

Agriculture without chemicals, food without fear.

Aayushi

Student of B. Sc. (Hons.) Ag. II year

When farmers prosper, the nation grows stronger.

Harshita

Student of B. Sc. (Hons.) Ag. II year

Farming is not just a job, it's a way of life.

Shiv

Student of B. Sc. (Hons.) Ag. II year

ALUMNI CORNER

I am Abhishek, an alumnus of K.R. Mangalam University, and I recently completed my B.Sc. (Hons.) Agriculture. Looking back, my four-year journey here has been nothing short of transformative. The university provided me with not just academic knowledge, but also the confidence and skills to face real-world challenges. From classroom learning to hands-on field experiences, seminars, and workshops, every step contributed to shaping my career and personality. The guidance and constant encouragement from my professors played a vital role in motivating me to explore my potential and take part in various academic and co-curricular activities. Beyond academics, the vibrant campus life, meaningful friendships, and opportunities for leadership made my student life truly memorable. These years at KRMU have given me a strong foundation, invaluable experiences, and beautiful memories that I will always carry with me.

Abhishek

Alumni of B.Sc. (Hons.)

Batch: 2020-24

My name is Harish and being a student of B.Sc. (Hons.) Agriculture at K.R. Mangalam University has been one of the most rewarding chapters of my life. When I first joined, I was filled with curiosity and a little uncertainty about what lay ahead. Over the course of four years, I not only gained deep knowledge of agricultural sciences but also learned valuable lessons about teamwork, leadership, and resilience. The university gave me opportunities to explore my interests through field projects, student activities, and interactive sessions with experts, all of which broadened my perspective. What I cherish most are the bonds I built with my peers and mentors, who guided me at every step. Looking back, I can say that KRMU was not just a place of study for me, but a place that shaped my confidence, aspirations, and vision for the future.

Harish

Alumni of B.Sc. (Hons.)

Batch: 2020-24

THOUGHTS FROM FACULTY MEMBERS

I am truly honored to share my thoughts in this edition, highlighting the transformative power of agricultural extension and communication in shaping the future of our rural communities.

Agricultural extension serves as a vital bridge between research institutions and the farming community, ensuring that innovations, scientific knowledge, and sustainable practices are effectively translated into real-world applications. In a time when agriculture faces mounting challenges - from climate change to food insecurity and population pressure - the role of extension becomes more crucial than ever.

Through strategic communication and knowledge dissemination, we can foster stronger collaboration, build resilience, and empower farmers with the tools they need to adapt, innovate, and prosper. Extension professionals play an indispensable role - not just in enhancing productivity - but in driving inclusive growth, environmental stewardship, and rural transformation. Let us continue to support and strengthen agricultural extension efforts as a pathway to a more secure, sustainable, and equitable future for all.

Dr. Anjali Tomar

Assistant Professor, SOAS.

INTERNSHIP

Students of the School of Agricultural Sciences, K.R. Mangalam University, Mr. Shiv Rattan Yadav, Ms. Harshita, and Ms. Surabhi Dubey, from 2nd year B.Sc. (Hons.) Agriculture, successfully completed their internship program at IFFCO from 2nd June to 30th June 2025 under the guidance of Dr. Jeewan Ram Khoja. During the internship, they worked on a project entitled “Case Study on Nano Fertilizers Awareness and Sales in Madhya Pradesh and Kerala State.” The program provided them with practical exposure to the application, awareness, and market analysis of nano fertilizers, enhancing their understanding of sustainable agricultural practices and agri-business strategies. Their active involvement in field studies and data analysis reflects the commitment of SOAS to integrate academic learning with industry-oriented practical training, thereby preparing students for real-world challenges in agriculture.

IFFCO

इंडियन फार्मर्स फर्टिलाइजर कोऑपरेटिव लिमिटेड
INDIAN FARMERS FERTILISER COOPERATIVE LIMITED

Ref. No. HO/HRD/03/2025 8th July, 2025

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Shivrattan (2313820007)** pursuing B.Sc. (Hons.) Agriculture from K.R. Mangalam University, Gurugram has undergone internship w.e.f. 02.06.2025 to 30.06.2025 at IFFCO-FMDI, Gurugram under the guidance of Dr. Jeewan Ram Khoja, Sr Field Manager, MKCO, FMDI, Gurugram.

During the internship, the student had diligently and sincerely pursued the training and has submitted a report on **"IFFCO and case study on Nano fertilisers awareness and sales in Madhya Pradesh and Kerala state"**.

The student was found punctual, hardworking, and inquisitive.

With best wishes to the student for all future endeavours.

Yours faithfully
for Indian Farmers Fertiliser Cooperative Limited

(Sasmita Birabar)
Dy. General Manager (HR)

IFFCO
पूर्णतः सहकारी स्वामित्व
Wholly owned by Cooperatives

इंडियन फारमर्स फर्टिलाइजर कोआपरेटिव लिमिटेड
INDIAN FARMERS FERTILISER COOPERATIVE LIMITED

Ref. No. HO/HRD/03/2025 8th July, 2025

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Harshita (2313820019)** pursuing B.Sc. (Hons.) Agriculture from K.R. Mangalam University, Gurugram has undergone internship w.e.f. 02.06.2025 to 30.06.2025 at IFFCO-FMDI, Gurugram under the guidance of Dr. Jeewan Ram Khoja, Sr Field Manager, MKCO, FMDI, Gurugram.

During the internship, the student had diligently and sincerely pursued the training and has submitted a report on **"IFFCO and case study on Nano fertilisers awareness and sales in Madhya Pradesh and Kerala state".**

The student was found punctual, hardworking, and inquisitive.

With best wishes to the student for all future endeavours.

Yours faithfully
for Indian Farmers Fertiliser Cooperative Limited

8/7/25
(Sasmita Birabar)
Dy. General Manager (HR)

IFFCO
पूर्णतः सहकारी स्वामित्व
Wholly owned by Cooperatives

इंडियन फारमर्स फर्टिलाइजर कोआपरेटिव लिमिटेड
INDIAN FARMERS FERTILISER COOPERATIVE LIMITED

Ref. No. HO/HRD/03/2025 8th July, 2025

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Surabhi Dubey (2313820017)** pursuing B.Sc. (Hons.) Agriculture from K.R. Mangalam University, Gurugram has undergone internship w.e.f. 02.06.2025 to 30.06.2025 at IFFCO-FMDI, Gurugram under the guidance of Dr. Jeewan Ram Khoja, Sr Field Manager, MKCO, FMDI, Gurugram.

During the internship, the student had diligently and sincerely pursued the training and has submitted a report on **"IFFCO and case study on Nano fertilisers awareness and sales in Madhya Pradesh and Kerala state".**

The student was found punctual, hardworking, and inquisitive.

With best wishes to the student for all future endeavours.

Yours faithfully
for Indian Farmers Fertiliser Cooperative Limited

8/7/25
(Sasmita Birabar)
Dy. General Manager (HR)

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