



SKNAU : NEWS & VIEWS

A Quarterly Newsletter

October-December, 2021 : Vol. 2 (4)

Sri Karan Narendra Agriculture University, Jobner

Ratan Lal



Published by :

DIRECTORATE OF EXTENSION EDUCATION
Sri Karan Narendra Agriculture University, Jobner-303329
E-mail : director.ext@sknau.ac.in



From the desk of Vice-Chancellor

Greetings for the New Year 2022! I wish you and your families a very happy, prosperous and fruitful year ahead.

An eventful year has passed and we are now geared up for the greater responsibilities of the new year, with fresh energy. The last quarter commenced with the rabi season, with the hope of bringing cheer to the folks of whole agri space. SKNAU too started its season trials and field experiments aligned with the modern

problems faced by the farmers. Two important days viz., National Farmers Day and Agricultural Education Day also coincided with this quarter. The significance of each day has been engrained in the mandates of our University. Since, science and technology coupled with improved human capital can be a powerful driver to lift status of farmers, SKNAU is also doing its bit in this. Seeing the gravity of climate change problem, an automatic weather station has been set up at KVK, Dholpur, from where farmers of nearby places will be able to plan their agricultural operations after availing the real time weather information. The technical inputs in the form of quality seeds and planting material of the major crops along with the supplementary requisites like vermin-compost, bio-fertilizers, documentary production guides, etc. were made available to the farmers at University Sale Point.

Where the world is still dreaming for the end of COVID-19 distress, Omicron variant seems to have rewritten its time table. But as is said "Fire is the test of gold; adversity, of strong men", we will have to move bit by bit, closer to our goal. I can proudly say that in spite of all the hurdles, our SKNAU staff is making best efforts to perform its academic and research commitments. Amongst all the factors, infrastructural development and technology upgradation were observed as major challenge after this pandemic. Therefore, in response to these new e-world requirements, we equipped our student's classrooms with hi-tech teaching tools. We are also in the process of developing e-contents, course modules and quality lecture videos, so that students can access these anytime from afar.

I am happy to share that SKNAU received sanction for two research projects from RKVY and one from AICRP in the last quarter. Many webinars, guest lectures, trainings were organized for farmers, students, stakeholders etc. during this period. Apart from this, efforts for students' placements were also paced up. The quarter ended for us at a satisfying note.

At the end I wish to dedicate all the accomplishments of the year to the hard working SKNAU team. As no one can whistle a symphony, it takes a whole orchestra to play it. I strongly believe that SKNAU is marching ahead in the right direction and we as a team are committed to reach the new heights.

(Prof. J. S. Sandhu)

Best Wishes



Director, Directorate of Extension Education
Sri Karan Narendra Agriculture University, Jobner

Message

It gives me immense pleasure to introduce the 5th edition of the SKNAU: News & Views, which is certainly the result of hours of hard work, months of preparation and dedicated efforts put together by a remarkable team. The readers, our source of motivation, have also played their role in bringing out the best in us.

Year 2021 had been another productive year for all of us in all spheres of our activities, be it research, education or extension. SKNAU, Jobner continued to move forward in generating technologies towards sustainable scientific and knowledge-based advancements in agriculture and allied sectors, improving quality of higher agricultural education, institutional capacity building, and establishing linkages/ partnerships with other national/international agricultural research and development organizations/systems. In order to strengthen our linkages, we did bond with ICAR institutes, SAUs, NGOs and Industries, through signing of MoUs. SKNAU is committed to meet the emerging challenges in the field of agriculture and allied sectors through technological interventions. I am sure that the year 2022 would drive us to new horizons, technologies and innovations in agricultural research to come up with momentous growth in Indian agriculture, serving thereby the Indian farmers with renewed commitment.

My best wishes for the New Year 2022. May you stay fit, happy and healthy!

(Dr. Sudesh Kumar)

MOMENTS OF PRIDE

1. **Dr. A.K. Gupta**, Professor and Dean, SKNCOA, Jobner was awarded fellow of Indian Society of Agronomy for the year 2018 in the 5th International Agronomy Congress held at PJTSAU, Hyderabad during 23-27 Nov., 2021 for his outstanding contribution in the discipline of Agronomy.
2. **Dr. B. L. Kakraliya**, Director HRD, SKNAU, Jobner has been elected as Vice-President of Indian Society for Plant Physiology for the year 2022-2023. Dr. Kakraliya heartily welcomed this new responsibility and expressed his gratitude and sincere commitment towards it.
3. **Dr. L.R. Yadav**, Professor and Associate Dean, SKNCOA, Jobner was awarded fellow of Indian Society of Agronomy for the year 2020 in the 5th International Agronomy Congress held at PJTSAU, Hyderabad during 23-27 Nov., 2021 for his outstanding contribution in the discipline of Agronomy.
4. **Dr. H.P. Verma** student of Agronomy department was also awarded best Ph.D. Thesis award for year 2017 by Indian Society of Agronomy during 5th International Agronomy Congress held at PJTSAU, Hyderabad during 23-27 Nov., 2021.
5. **Dr. Deva Ram Bajya**, Asst. Professor awarded as Reviewer Excellence Award as reviewer of Agricultural Science Digest, Agriculture Research Communication Centre (ARCC) Journals.
6. Two meritorious girl students of SKNAU, Jobner namely, Monika Gurjar and Sarita Gurjar, who scored more than 7.5 OGPA, were awarded a scooter on 10 Dec., 2021 under Devnarayan Free Scooty Scheme. Hon'ble Vice Chancellor, Prof. J. S. Sandhu congratulated both the students and appreciated the government's drive towards providing encouragement to the girl students of rural and backward areas.



NEW AT SKNAU

Automatic Milk Pouch Packing Machine

Honorable Vice Chancellor SKNAU, Jobner Dr. J. S. Sandhu inaugurated newly installed fully automatic milk pouch packing machine on 25 Nov., 2021 at University Dairy Management Unit, Jobner. This machine can pack 25 pouches in one minute. Dr. Sandhu along with the other scientists, observed the operation and functioning of the machine. Dr. A. C. Shivran, Dean, College of Dairy Science and Technology informed that it will reduce the chances of adulteration, infection; will save time and labor in milk packing. It will also help the women self-help groups and entrepreneurs to market their products by packing them here.



Automatic Weather Station at KV Dholpur under DAMU Project

Automatic Weather Station has been established at KV Dholpur under District Agro-Meteorology Unit (DAMU) Project, which became functional from 18 Dec., 2021. Dr. Navab Singh, Senior Scientist & Head informed that, this Automatic Weather Station (AWS) will play an important role in weather based agri farming & safeguarding crops by providing the information about adverse environmental conditions such as hail, excess or deficient rain, heat wave & cold wave, frost etc. of the nearby region. It will also provide information on soil moisture and soil temperature, giving better information on the irrigation requirement.

Sale Counter, SKNAU, Jobner also vends now...

S. No.	Items
1	Quail eggs and meat
2	Napier planting material
3	Aonla Processed Products Murabba, Juice, candy
4	Bio Pesticides and Fungicides
5	Vermicompost
6	Vegetable seeds



CELEBRATIONS

Mahila Kisan Diwas

All the VKs of SKNAU, Jobner celebrated Mahila Kisan Diwas on 15 Oct., 2021 on the theme "Equity and Empowerment". Since rural agriculture is strictly backed by women in India, their knowledge upgradation through imparting skills has direct bearing on overall socio-economic welfare. At the outset, women farmers' gosthis were organized at each Centre in which women participants cleared their queries or doubts regarding crop and animal health issues. Further, women farmers were also trained on Nutri-garden, Nutri-thali, layout of nutri garden and year-round cultivation of vegetables in the nutrigarden to supply balance food to the family members.



World Food Day

World Food day was celebrated on 16 Oct., 2021 at different constituent units of SKNAU, Jobner with the theme "Our actions are our future. Better production, better nutrition, better environment and a better life". Prof. A. K. Gupta, Dean & FC, SKNCOA, Jobner gave a brief presentation on dynamics of food demand and food supply chain in present context. At the outset students of BSc (Ag) participated in essay writing and quiz competitions organized under the aegis of NAHEP, SKNAU, Jobner.

World Soil Day

World Soil Day with the theme "Halt soil salinization, enhance soil production" was celebrated at various constituent units of SKNAU, Jobner on 05 Dec., 2021. A special event in the village Rojri, Dist. Jaipur was also arranged by the Department of Soil Science and Agri. Chemistry, SKNCOA, Jobner to mark the occasion. Prof. J. S. Sandhu, Hon'ble Vice-Chancellor and the Chief Guest deliberated on soil testing and recommended dose of plant nutrient application for crop production. Prof. A. K. Gupta, Dean, SKN COA, Jobner, Prof. Sudesh Kumar, Director Extension, SKNAU, Prof. M. L. Jakhar, Director Research, SKNAU, Jobner, Scientists and Research scholars were present during the programme. Dr. S. K. Dadhich, HOD explained about the soil salinity problems and their remedies. Soil and water sample test was done in the soil testing van at the celebration spot. On the day, KVK Dholpur distributed Soil Health Card to the farmers in collaboration with State Agriculture Department, Dholpur.



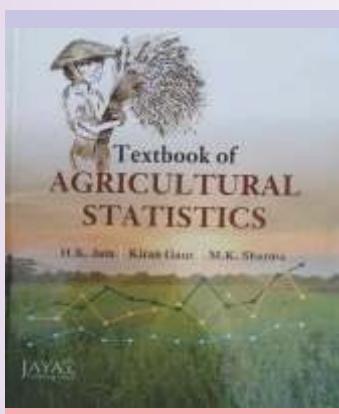
International Tea Day

College of Agriculture, Jhilai celebrated International Tea Day on 15 Dec., 2021 under the Chairmanship of Prof. J. S. Sandhu, Hon'ble Vice Chancellor, SKNAU, Jobner. At the very outset a seminar entitled "Organic Farming & Value Addition" was also organized. A galaxy of eminent personalities namely Sh. Murari Lal Sharma, ADM Tonk, Dr. Arun Tomar, Director CSWRI Avikanagar, Sh. R. K. Khandelwal, Dy Director Dept. of Agriculture Tonk, Dr. Khemraj Sharma, Ex DFO Jaipur, Sh. Daya Ram Choudhary, Dy Pradhan Niwai, Smt. Shanti Devi, Sarpanch Kiwada, Sh. Deva Lal Gurjar, Sarpanch Lalwadi graced the occasion.



Rashtriya Kisan Diwas

Rashtriya Kisan Diwas was celebrated on 23 Dec., 2021 at all KVKs and Colleges of SKNAU, Jobner. An interaction programme with farmers at nearby villages were organized under the chairmanship of respective unit heads to mark this day. Prof. A. K. Gupta, Dean & FC, SKNCOA, Jobner commemorated the role of Chaudhary Charan Singh, the fifth prime minister of India in bringing the most remarkable reforms in the agrarian sector. A seminar on Agriculture Diversification was also organized at COA, Jhilai on this occasion.



Book Published

- Book titled "A Textbook of Agricultural Statistics" Jointly authored by Dr. H. K. Jain, Dr. Kiran Gaur & Dr. M. K. Sharma was published in the month of November.

ACADEMIC ACTIVITIES

- Orientation Programme of B.Sc. (Hons.) Ag. part I students were organized at all constituent colleges of the University. Prof. A. K. Gupta, Dean & FC, SKNCOA Jobner informed that the aim of the programme was to orient all fresher students about rules & regulations, academic procedures, examination system and cocurricular activities of the University. Final theory and practical examinations of B.Sc. (Hons.) Ag. Pt II & Pt III were completed in this quarter.
- NSS seven days camp was organized from 11 to 17 Nov., 2021 at COA, Fatehpur and 23 to 29 Nov., 2021 at COA, Baseri. COA, Lalsot, Kumher (Bharatpur) and Kotputli also organized this seven-day camp in the last quarter.
- In the series of co-curricular activities a speech competition on 'SatarkataJagrukataKarykaram' was held on 21 Oct., 2021 at COA, Lalsot and on "स्वतंत्र भारत—सत्यनिष्ठा से आत्मनिर्भरता" at COA, Kumher on 23 Oct., 2021. Likewise, an intercollege NAAS elocution competition was organised on 25 Oct., 2021 at SKNCOA, Jobner. Apart from this, webinars were organized for the undergraduate students on "Agri-Startup and Agri- entrepreneurship" in the collaboration with CCS NIAM, Jaipur on 10 Nov., 2021 at COA, Fatehpur, 11 Nov., 2021 at COA, Jhilai, 15 Nov., 2021 at COA, Kumher, 17 Nov., 2021 at COA, Lalsot and 23 Nov., 2021 at COA, Kishangarhbas.



Student's Placements

Mr. Rakesh Kumar Choudhary M.Sc. (Hort.) was placed in Vitera India Pvt. Ltd. as Research Analyst and Mr. Sunil Banta was placed in Bayer Ocean, Jodhpur in the previous quarter.



Rural Entrepreneurship Awareness Development Yojana (READY)

To reorient the agriculture graduates for entrepreneurship development, students of B.Sc. (Hons) Ag Pt IV, were attached to different units/villages for Rural Awareness Work Experience and Agro Industrial Attachment (RAWE & AIA) and Experimental Learning. In the first week of Aug, 2021, on campus training was given to the READY students by university faculties. Subsequently students were attached to different villages for practical extension works for 56 days and to Units viz., KVks, research stations and

colleges for 21 days. From the third week of Nov. 2021 students have been attached to different Agro-Industries, where they can gain practical industrial experience.

Similarly, a 35 days RAWE training programme of 72 UG students of Jagannath University, Chaksu, Jaipur was organized at Rajasthan Agricultural Research Institute, Durgapura-Jaipur from 06 Oct., 2021 to 09 Nov., 2021. This training was conducted under guidance of Dr. A. S. Baloda, Director, RARI, Durgapura with the active involvement of Dr. Hemraj Gurjar, Coordinator, RAWE Training programme RARI, Durgapura, Jaipur.



National Agricultural Higher Education Project (NAHEP)

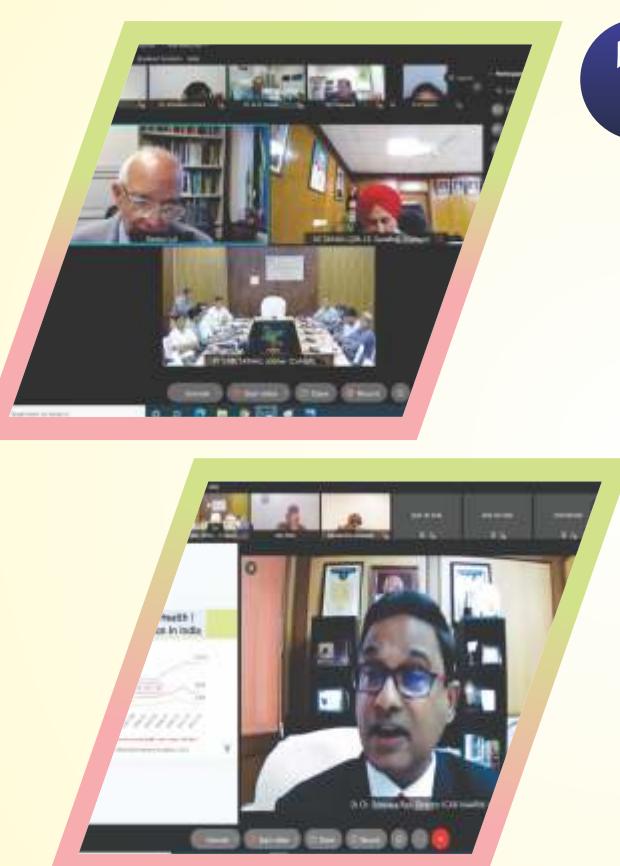
A world bank funded project IDP-National Agricultural Higher Education Project (NAHEP), is running at SKNAU, Jobner for improving the quality of education of UG students. Prof. A. K. Gupta, Dean & FC and PI-NAHEP informed that under the world bank funded project various training programmes, guest lectures, entrepreneurship courses and webinars were organized in the last quarter. The details of these programmes is as below:



S. No.	Title of the lectures/Trainings	Date	Keynote Speakers/ Experts
1.	Yoga & Meditation for Stress Management and Healthy Mind	1 Oct., 2021	1. Mr. Hanuman Sahay Rolaniya, President Patanjali KisanSeva Samiti, Rajasthan 2. Ms. Suman Sharma YogShikshakMahila, Patanjali Yog Samiti, Jaipur Rural
2.	Mock Drill for Fire Safety	12 Oct., 2021	Mr. Sandeep Nair Fire safety & security specialist, Ultra-Fire System, Jaipur
3.	Lecture on Career opportunities with Agriculture Education	20 Oct., 2021	Dr. A.K. Gupta P.I. NAHEP & Dean and Faculty Chairmen, SKNAU, Jobner
4.	Online Guest Lecture on Strength Identification Fundamental Building Blocks for Exam Preparation and Time Management	23 Oct., 2021	1. Harsha Rohit Principal Trainer of Harsha Rohit Training Society 2. Bhumika Pradeep Trainer of Harsha Rohit Training Society
5.	Innovation Idea/Technologies to Reduce Food Waste	25 Oct., 2021	Dr. A. K. Gupta, P.I. NAHEP & Dean and Faculty Chairmen, SKNAU, Jobner
6.	National Webinar on Teachers Shape Young Minds and Inspire them to be Leaders of Tomorrow	20 Nov., 2021	Dr. B. Sivaprasad, Trainer, Author & Motivational Speaker

In addition to this, various departments of SKNCOA, Jobner organized following weeklong Entrepreneurship short course training series in collaboration with NAHEP, SKNAU Jobner for the final year students.

S. No.	Course title	Date	Organized by (Department, Unit)	Keynote Speakers/ Experts
1.	Entrepreneurship in Bee Keeping	15 -20 Nov., 2021	Dept. of Entomology, SKNCOA, Jobner	1. Dr. K.N. Ojha 2. Dr. S.M. Haldhar 3. S.K. Khichi 4. Dr. S.L. Sharma 5. Ms. Suman Choudhary 6. Ms. Manisha Sharma
2.	Entrepreneurship in Mushroom Cultivation	23 - 27 Nov., 2021,	Dept. of Plant Pathology, SKNCOA, Jobner	1. Dr. D.K. Goyal 2. Dr. A.K. Meena
3.	Entrepreneurship Development Through Value Added Milk Products	29 Nov. to 04 Dec., 2021	Dept. of Livestock Production Management, SKNCOA, Jobner	1. Dr. Mahesh Datt 2. Dr. Juned Akhter
4	Short course training on Tissue culture and micropagation	13 to 22 Dec., 2021	Dept. of Plant Breeding and Genetics, SKNCOA, Jobner	1. Dr. Varsha Kumari 2. Mr. Manoj kr. Meena



INTERNATIONAL VIRTUAL WORKSHOP ON "SOIL CARBON FOR SUSTAINABLE CROP PRODUCTION AND SOIL HEALTH MANAGEMENT"

Dept of Soil Science, SKNCOA, Jobner organized a two days International Virtual Workshop entitled "Soil Carbon for Sustainable Crop Production and Soil Health Management" from 4 - 5 Oct., 2021 on the occasion of Platinum Jubilee Year of SKN College of Agriculture, Jobner. The Chief Guest of the event was "World Food Prize Winner-2020" Prof. Rattan Lal, Director of Carbon Management and Sequestration Centre, Ohio State University, USA and Hon'ble Vice chancellor Prof. J. S. Sandhu, SKNAU, Jobner. The eminent speakers Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM, Hyderabad and Dr. Sanjay Arora, Principal Scientist, ICAR-CSSRI-RRS, Lucknow delivered lectures on carbon management and 8 researchers presented their original research on carbon management in this two days International Virtual Workshop. Total 670 online delegates participated from India and abroad.



ZREAC Meeting Zone-III B

ZREAC meeting of Zone III B was successfully organized at ARS, Navgaon, Alwar under the chairmanship of Dr. Harphool Singh, Professor and ZDR, ARS, Navgaon. Sh. Deshraj Singh, Joint Director, Bharatpur Division, Department of Agriculture alongwith the officials of Agriculture Department attended the meeting. Scientists of different disciplines from ARS, Navgaon participated in the meeting. Three technologies were recommended and approved by house for inclusion in package of practices in zone III B.

S. No.	Recommendations	Concerned Scientist
1	Application of herbicide, imazethapyr 50g a.i./ha at 35 DAS in standing lentil crop	Dr. Indu Bala Sethi
2	Seed dressing with Thiamethoxam 70% WS @122 g a.i./ha for termite management in wheat crop	Dr. Anil Meena
3	Spray of Imidacloprid 17.8 SL @ 20 g a.i./ha for mustard aphid management	Dr. Anil Meena

New Project Sanctioned

- A project entitled “Developing Agri-entrepreneurship for Rural Youth self-resilient through Mushroom Production Technology” has been approved under RKVY-RAFTAAR of the worth of 96.5 Lakh (3 Years).
- RKVY project on ‘Seed production of important vegetable crops’ at Horticulture Farm, SKNCOA, Jobner RKVY project entitled “Seed production of important vegetable crops” and All India Networking research project on Onion & Garlic started at Horticulture farm, SKNCOA, Jobner to produce seed and seedlings of onion and other vegetable crops to sell through sale point, SKNAU, Jobner. Dr. M.R. Choudhary, Professor (Horticulture) & PI informed that during August 2021 to November 2021 total 121 kg seed of Onion variety ‘Bhima Shakti’ sold to farmers and earned a revenue of Rs. 2.42 Lakh.

CAPACITY BUILDING PROGRAMME

Training on “Data Analysis using Statistical Softwares”

A training on “Data Analysis using Statistical Softwares” was conducted in the Department of Statistics from 4-30 Oct., 2021 with 14 M.Sc. & Ph.D. students. Dr. Kiran Gaur, Head & training coordinator informed that the idea behind this training was to orient the students to perform the statistical analysis of their research data with the help of statistical softwares. A hands-on training on MS Excel, Word, Powerpoint, OPSTAT and SPSS was given to the students with practical examples related to their area.



FERTILIZER RETAILER TRAINING PROGRAMME

KVKs of SKNAU organized 15 days Fertilizer retailer training programme for rural youth. Through this programme youth can get easily license for fertilizer, seed and compost sale. In this programme participants were benefitted with 42 theory and practical lectures.

S. No.	Name of KVK	Date	No. of Participants
1.	KVK, Bharatpur	1-15 Dec., 2021	30
2.	KVK, Fatehpur	5-21 Oct., 2021	28
3.	KVK, Dausa	04-27 Oct., 2021	30



Vocational Training on Goat Farming at KVK, Kotputli



KVK, Kotputli organized 7 days vocational training on "Goat farming" from 25 Nov., 2021 to 01 Dec., 2021. Lt. Col. (Dr.) S.S. Shekhawat, Sr. Scientist & Head inaugurated the training programme and apprised that improved goat production through better housing and feeding practices has direct implication on income of millions of households as well as national food security. Dr. Suresh Knatva, SMS, LPM informed that 24 trainees were trained about various breeds, breeding technique, feeding management, shed designs, weather management, vaccination protocols, disease management and value addition of goat milk.

Workshop on Sensitizing officers about NEP-2020 by Dir. Edu., SKNAU

A workshop on sensitizing officers of affiliated colleges about NEP-2020 and ensuing performance indicators for renewal of affiliation was conducted on 30 Nov., 2021 at SKN Agriculture University, Jobner under the Chairmanship of Prof. J. S. Sandhu, Vice Chancellor, SKN Agriculture University, Jobner. The purpose of convening the meeting was sensitization for New Education Policy and to acquaint with the ICAR/ University system to maintain the quality of education and set an environment fit to foster competitiveness, critical thinking, innovation and creativity with academic quest. It was stressed upon that the affiliated colleges must get ICAR accreditation and implement the NEP-2020.



Fourth Orientation Training Programme



The fourth orientation training programme for newly recruited assistant professors and Subject Matter Specialists of SKNAU was organized by Directorate of Human Resource Development from 1- 21 Dec., 2021. Prof. J. S. Sandhu, HVC inaugurated this training programme and welcomed all the participants. Dr. B. L. Kakraliya, Director, HRD informed that total 16 Assistant Professors and SMSs were oriented about University rules and regulations, research base and infrastructural facilities etc.

Improved Sheep and Goat Farming Training at KVK, Bharatpur

Three days training programme on improved sheep and goat farming was organized at KVK, Bharatpur from 15-17 Dec., 2021. Dr. R. K. Dular, Sr. Scientist & Head informed that, this 3 days programme was sponsored by Ministry of Fisheries, Animal Husbandry and Dairying, Govt. of India. Dr. Basant Kumar, SMS, LPM coordinated the programme and delivered lectures on importance, advantages, scope of goat farming and various breeds suitable for Bharatpur region. Total 40 participants attended the training and certificates were issued to all the participants.



Training on “Dairy and Food Processing for PCDF Personal, Lucknow



A three days training of dairy officers of different districts of Uttar Pradesh was conducted by Department of Agriculture Engineering, SKNCOA and Directorate of Extension Education, SKNAU, Jobner during Oct 6-8, 2021. Experts of different fields of dairy and food processing delivered their lectures in this training. In this three days programme exposure visits of these officers were also organized to the University farms, dairy and livestock farms of SKNCOA, RARI Durgapura and SARAS Dairy Jaipur.

HRD ACTIVITIES

To improve the competency of employees, Directorate of Human Resource Development, SKNAU, Jobner organizes different types of training programmes in coordination with reputed organizations. Dr. B. L. Kakraliya, Director HRD, informed that total 23 Scientists and University officers of SKNAU, Jobner were nominated by HRD in this quarter to participate in the following 10 training programmes:

S. No.	Title of Training Programme	Organized by	Duration
1.	Three days online training programme on "Administrative and Financial Rules". (3 Scientists)	HCM-RIPA, Jaipur	20-22 Oct., 2021
2.	A 21-days training course on "Plant Health Management Strategies in Different Crops". (2 Scientists)	NIPHM, Hyderabad	10-30 Nov., 2021
3.	05-days online training programme on "On-Farm Production of biocontrol agents and microbial biopesticides". (2 Scientists)	NIPHM, Hyderabad	08-12 Nov., 2021
4.	03-days online training programme on "Indiscriminate use of pesticides and fertilizers in Agriculture". (4 Scientists)	NIPHM, Hyderabad	15-17 Nov., 2021
5.	A 21-days training programme on "Plant Protection Techniques for Plant Health Management". (1 Scientist)	NIPHM, Hyderabad	03- 23 Dec., 2021
6.	03-days online training programme on "Rajasthan Transparency in Public Procurement Act". (Three officers)	HCM-RIPA, Jaipur	15 -17 Nov., 2021
7.	An Online 21-days National Training Course on "Entrepreneurship Strategies in Agriculture, Horticulture, Animal Husbandry & Allied Sectors for Economic Development of India". (2 Scientists)	Directorate of Ext., Uttar Banga Krishi Vishwavidyalaya, Pundibari (WB)	21 Nov. -11 Dec., 2021
8.	05-days online training programme on "Advanced techniques for identification of Quarantine Pathogens". (2 Scientists)	NIPHM, Hyderabad	29 Nov. -03 Dec., 2021
9.	An International Agronomy Congress on "Agri. Innovations to combat Food and Nutrition Challenges". (2 Scientists)	Prof. Jayashankar Telangana State Agricultural University, Hyderabad	23 - 27 Nov., 2021
10.	An Online 14-days Faculty Training Programme on "Molecular Biology Tools and its Application in Agriculture and Allied Sciences". (2 Scientists)	Centre of Excellence in Agri biotechnology, SVPUAT, Meerut (U.P.)	1 - 14 Dec., 2021

MEETINGS

- VCC Meeting:** Prof. J. S. Sandhu, Hon'ble Vice-Chancellor, SKNAU, Jobner attended Vice-Chancellor's Coordination Committee Meeting held at Rajbhawan, Jaipur. Sh. Kalraj Mishra, Hon'ble Governor of Rajasthan chaired the meeting. He emphasized on technology outreach and income enhancement of farmers and deliberated on the issues of recruitment and pension.



- **Monthly Review Meeting** of all the constituent units of SKNAU, Jobner was held on 14 Oct., 2021 under the Chairmanship of Hon'ble Vice Chancellor Prof. J. S. Sandhu. The work progress and issues faced by each Centre with possible solutions were deliberated upon in the meeting.
- **Academic Council Meeting:** The 18th meeting of academic council was held on 14 Oct., 2021 and 19th meeting on 22 Nov., 2021 under the Chairmanship of Hon'ble Vice-Chancellor in hybrid mode to discuss and implement the academic matter including the provision for providing part time jobs to needy undergraduate students and engagement of adjunct faculty recruitment of various teaching posts.
- Sh. B. L. Banjara, Comptroller, SKNAU and Er. Lakhbir Singh, EO, SKNAU attended Budget Finalization Committee (BFC) Meeting, Govt. of Rajasthan on 28 Dec., 2021. It is for their efforts and representation that SKNAU got the acceptance of fund for 2 buses, 8 new college buildings and 3 new college boundary walls.
- **Staff Council Meeting** were held on 19 Oct., 2021, 23 Nov. 2021 and 13 Dec., 2021 under the Chairmanship of Dean & Faculty Chairman, SKN COA, Jobner Prof. A. K. Gupta.
- Dr. Sudesh Kumar, Director Extension Education, SKNAU, Jobner attended Seed Hub Meeting on 21 Oct., 2021 at ICAR-ATARI, Jodhpur and Scientific Advisory Committee (SAC) Meeting on 26 Oct., 2021, at KVK, Gonera, Kotputli.
- Dr. Sudesh Kumar, Director Extension Education chaired the monthly review meetings of KVks on 25.Oct., 2021, 24 Nov. 2021 and 28 Dec. 2021.



★★★★★ *Distinguished Visitors*

Lt. Col. Bhawani Singh, Commanding Officer of 1st Rajasthan NCC Battalion Jaipur inspected NCC unit of S.K.N. College of Agriculture, Jobner on 01 Oct., 2021 and interacted with cadets, motivated them and told the benefits of NCC to cadets. He also discussed about the essential requirements of NCC unit with Dean and faculty chairman Dr. A.K. Gupta.



Divyanshi Didwaniya, Member of NITI Aayog visited at College of Agriculture, Basedi 07 Oct., 2021 and observed the infrastructural arrangements and facilities there.



Sh. Deep Chand Khairiya, MLA, Kishangarh Bas visited College of Agriculture, Kishangarh Bas on 15 Nov., 2021 and pondered upon the issues like development of required infrastructure like college building, hostels and sports complex etc.



Sh. O.P. Saharan, SDM, Kishangarh Bas visited College of Agriculture, Kishangarh Bas on 24 Nov., 2021 and interacted with the college students and staff.



Sh. Murari Lal Sharma, ADM Tonk, **Dr. Arun Tomar**, Director CSWRI Avikanagar, **Sh. R. K. Khandelwal**, Dy. Director Dept. of Agriculture Tonk, **Dr. Khemraj Sharma**, Ex DFO, Jaipur visited College of Agriculture, Jhilai, Tonk on the occasion of International Tea Day on 15 Dec., 2021.



Dr. K. K. Pathak (IAS), Secretary, Rural Development Department, Govt. of Rajasthan, Jaipur along with **Shri Surendra Singh Rathore**, CEO, Biofuel Authority and team of rural development department visited to SKN College of Agriculture, Jobner on 16 Dec., 2021. All the dignitaries observed the functioning of biogas plant and discussed about possibilities of biogas and Bio-CNG Production in Rajasthan. Dr. Pathak suggested to initiate some collaborative programmes between SKN Agriculture University and rural development department.

Brig. Saurabh Singh Shekhawat, KC, SC, SM, VSM, Commander 81 Mountain Brigade visited, Krishi Vigyan Kendra, Kotputli on 28 Dec., 2021 and appreciated their team efforts in managing the Centre.



Visits to Constituent Units of University

Hon'ble Vice Chancellor Prof. J. S. Sandhu visited COA, Jhilai on the occasion of International Tea Day on 15 Dec., 2021. **Hon'ble Vice Chancellor** also visited KVK, Navgaon on 29 Dec., 2021 and Chaired the Convocation programme of DAESI programme.



Dr. M. L. Jakhar, Director Research SKNAU, Jobner visited RARI Durgapura, ARSS Kotputli and ARS, Fatehpur, on 16 Dec., 2021, 08 Dec., 2021 and 29 Dec., 2021, respectively. Dr. Jakhar monitored the different experiments conducted, Rabi 2021 seed production programmes and discussed the station related issues with respective officers.



Dr. R. Paliwal, Registrar and **Dr. A. S. Baloda**, Director, RARI visited COA, Jhilai on 06 Oct., 2021 and interacted with fresher students during the Orientation programme.



Dr. N.K Gupta, Director Education, Dr. I. M. Khan, DSW and Dr. A. S. Baloda, Director, RARI visited COA, Kotputli on 05 Oct., 2021 and interacted with freshers in their Orientation programme.



Sh. B.L. Banjara, Comptroller, SKNAU, Jobner visited College of Agriculture, Kumher, Basedi, Bhusawar and KVK, Dholpur on 21-22 Oct., 2021 and discussed various financial issues with faculty members.



Dr. Sudesh Kumar, Director Extension Education, Jobner visited KVK, Dausa, KVK, Kotputli, KVK, Navgaon and KVK, Ajmer on 27 Oct., 2021, 28 Dec., 2021, 29 Dec., 2021 and 08 Nov., 2021, respectively. He interacted with fertilizer retailers and reviewed CFLDs and FLDs conducted by KVks.



Er. Lakhbir Singh, EO, SKNAU visited COA, Kumher and COA, Baseri on 24, Nov., 2021 and 25, Nov., 2021, respectively and reviewed the ongoing construction of farm fencing, girls' hostel and also assessed the future requirement.



Dr. A. S. Baloda, Director, RARI visited ARSS and KVK, Tabiji, Ajmer on 25 Nov., 2021 and reviewed the experiment conducted.



Wealth and health from the use of organic waste in mushroom production

“Nature alone is antique, and the oldest art is Mushroom”

-Thomas Carlyle

Mushrooms are favorable food in vegetarian-predominant people of India. It is a vegetarian delicacy with easily digestible as well. Mushroom is an excellent source of protein, vitamins, mineral, folic acid, and iron but very low sugar and fat. Mushroom so called delight for diabetic and rich in protein, micro-elements, having alkaline nature and more than 90% digestibility is now becoming a choice food for most of the people of the country. Market for mushroom is growing rapidly because of their nice aroma, subtle flavor, nutritious and medicinal values with special taste.

“The grounds generosity takes in our residue and grows a beauty in the form of Mushroom”

There are many remarkable ecological advantages in cultivation of edible fungi in Rajasthan. One major advantage is the efficient re-integration of agricultural residues. The state has a very large availability of various types of raw substrate material mainly straw of wheat, barley, pearl millet, sorghum and other different organic wastes, poultry manure, gypsum etc. for the growing of mushrooms. The cultivation of mushrooms is less expensive than that of other cash crops. The major reason for this is it requires little space, water, and inexpensive raw materials. The Biological efficiency under optimal conditions is more than 100% in case of oyster while button mushroom can yield 15-20 % B.E. Cost of cultivation and benefit ratio in most of the edible mushrooms is five times than input cost.

Market demand is also rising and there is good market for fresh mushroom. After the COVID pandemic the demand of mushroom has increased manifold in all over the world including India. Besides this, mushroom cultivation has good potential for addressing the problem of self-employment and malnutrition among rural people of the country. Mushroom is an export-oriented crop. India is exporting mushroom in the form of canned, dry powder and various value-added products to different countries. The left mushroom substrate can then be used either as animal feed or as compost for application in farm for crop nutrition. The hands-on training is required for the successful mushroom cultivation and its processing, value addition and marketing.

Realizing the importance of this wonderful crop, Hon'ble Vice Chancellor, Dr. J. S. Sandhu inspired his scientists to develop a mushroom unit and give hands on training on mushroom cultivation to farmers. Under the supervision of Dr. M. L. Jakhar, Director Research, SKNAU and Dr. A. S. Baloda, Director, RARI, a demonstration unit on oyster mushroom has been developed at RARI, Durgapura, Jaipur. Main objective of this unit is to impart proper practical knowledge on spawn production, production techniques of different mushrooms, compost making, value addition through organizing hand-on trainings. Dr. P.S. Shekhawat, Incharge, Mushroom Unit, RARI, is doing excellent work to empower the participants with the necessary entrepreneurial skills to set up mushroom growing units as self-employment activity that will go a long way in strengthening the mushroom production in the state. In 2021, Dr. Shekhawat trained around 150 participants, which includes farmer, unemployed youth, farm labor, farm women, students, agriculture graduates, retired government officials, etc. Around 500 farmers are benefitted by his technical guidance in developing the mushroom unit. More than 40 % farmers have started their own mushroom production unit at their farm after getting training and continuous technical guidance from mushroom unit of RARI, Durgapura. Depending upon the size of the mushroom unit, farmers are earning Rs. 5000-50,000 per month from mushroom cultivation. Mr. Shankar Lal Meena has started a first private commercial mushroom spawn lab at village Dantli, Near Jagatpura, Jaipur after getting practical training from mushroom unit, RARI, Durgapura. All this is possible because of the broad vision of our HVC, Dr. J. S. Sandhu for increasing farmer's income, which inspires our scientists to work hard for the progress of the farmers, who are the backbone of our country.



EDITORIAL BOARD

PATRON



Prof. J. S. Sandhu

Hon'ble Vice-Chancellor

EDITORIAL ADVISORS



Dr. A. K. Gupta
Dean & Faculty Chairman



Dr. Sudesh Kumar
Director Extension Education



Dr. M. L. Jakhar
Director Research

EDITORS



Dr. Basant Kumar
SMS (LPM)



Dr. Sheela Kharkwal
Asst. Professor



Dr. Shweta Gupta
Asst. Professor



Dr. Partibha Singh
Asst. Professor



Dr. Arun Pratap
SMS (LPM)



Sh. Manoj Kumar
Clerk Gr. II, DEE

TECHNICAL SUPPORT