



KSNUAHS

News Letter



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The future of food security will depend on a combination of the ecological prudence of the past and the technological advances of today.

-M. S. Swaminathan

From the Vice-Chancellor's Desk.....



Greetings to all.....

DRONE (Dynamic Remotely Operated Navigation Equipment) or Unmanned Aerial Vehicle (UAV) is considered as the prospective adoption of green technology in agriculture. Drones can either fly with autopilot and GPS or can be operated manually using radio signals with remote control or smartphone applications. In the agricultural sector, fixed wing and Multirotor UAVs are commonly deployed. Fixed wing UAVs have applications in aerial surveys, mapping and land surveying. The Multirotor UAVs aptly does surveillance, detection of crop pests, diseases and weeds. The Government of India intends to deploy drone in plausible sectors of agriculture through Kisan Drone. To promote drone in agriculture, 100% its cost is extended to Farm Machinery Training and Testing Institutes, KVKs, SAUs, 75% to FPOs, 40% to the existing custom hiring service centres to demonstrate application of drones in farmers' field. Entrepreneurs aspiring to have startups on drone related technologies are encouraged and supported under flagship of Startup India scheme. Drone has got plethora of applications in agriculture right from planting of trees or crops in remote areas by throwing seed bombs or biodegradable seed pods, soil and field analysis to examine soil and terrain condition, nutrient status enabling farmers' to undertake precision farming. Drones equipped with normalized difference vegetation index are employed in monitoring plant health. Drones in spray treatments navigate hard to reach areas, saves labour, chemicals and rescues labourer from health hazards due to chemical application. Drone can also be used in accurate estimation of crop loss due to natural perils and have greater bearing on deciding compensation to be given to the victims. Under crop insurance it can be effectively used to manage herd of larger size. Drones have got an enormous potential to transform Indian agriculture. Drone market in India is expected to reach \$6 billion by 2025.

Our University is fast catching up by deploying drone and demonstrating its application in agriculture for the rich benefit of farmers' coming under its jurisdiction. University has signed MoU with Clearskies Learning and Research Private Ltd., an authorized Remote Pilot Training Organization, Bangalore of Directorate General of Civil Aviation. KSNUAHS is pioneer in offering Remote Pilot Certificate for Drone operations in agriculture through "Empowering youth entrepreneurs in agriculture and horticulture by providing DGCA authorized Remote Pilot Certificate for Drone technology". University is also conducting research to examine the efficiency and viability of drone application in agriculture by availing research grants from competitive sources. Application of pesticides, foliar application of nutrients, herbicidal application in major crops of the region are demonstrating and assessing for the economic viability. Capacity building programmes on creating awareness about application of Drone in agriculture has also been taken up by the university.

In days to come, drone will become an essential future of Indian Agriculture. Though, drone technology has got an economic hurdle *ie.*, affordability but advances in research and development is likely to design drone technology. It's gamut can extend to portable to marginal and small land holders and become a revolutionizing path for transforming Indian agriculture.

Dr. R. C. Jagadeesha

12th Foundation Day

12th Foundation Day of the University was celebrated on **21/09/2024** at Iruvakkai Campus. Dr. K. C. Shashidhar, Registrar presented a brief report covering one year's progress of the University. The function was inaugurated by Prof. S. G. Siddaramaiah, Ex-President of Kannada Development Authority, Bengaluru. On the 12th Foundation Day Celebration he delivered speech highlighting importance of the University in the upliftment of the farming community. Dr. R.C. Jagadeesha, Hon'ble Vice Chancellor, presided over the function. During the occasion, teaching fraternity, scientists and service personnel were awarded with a memento for the noteworthy service rendered by them towards the holistic development of the University. Shri G. H. Srinivasa, Hon'ble MLA, Tarikere Constituency, Dr. P. K. Basavaraja, Eminent Educationist and Hon'ble members, of the Board of Management, KSNUAHS, Shivamogga also spoke and expressed their devotion and perseverance towards the University.



List of Awardees during 12th Foundation Day

Sl.No	Name of the Awardee	Designation	Award
01	Dr. Kantharaj Y.	Assistant Professor, CoH, Mudigere	Best Teacher
02	Dr. Veeranna H. K.	Professor, CoA, Shivamogga	Best Researcher
03	Dr. Rudragouda F. C.	Scientist (Agronomy), KVK, Shivamogga	Best Extension Scientist
04	Smt. Sujatha K.	Assistant Comptroller, Iruvakkai	Best Service Personnel under Group 'A'
05	Sri. Chikkanna P. C.	Senior Field Assistant, CoF, Ponnampet	Award under Group 'C'
06	Smt. Shashikala	Farm Labourer, CoA, Shivamogga	Award under Group 'D'
07	Dr. N. A. Naveen	Scientist (Agronomy) KVK, Brahnavar	Certificate of Merit for Externally Funded Projects for the Year 2023-24.
08	Dr. Ravikumar D.	Scientist (Soil Science), KVK, Hiriyur	
09	Dr. Vinay Kumar H. M.	Assistant Professor (Agri. Extension Education)	
10	Nine Teaching faculty of various colleges / Research stations		Award for Publishing research papers in journals with high NAAS rating

Unnathi – Our Student, Our Pride

The College of Forestry in association with Alumni association hosted **Unnathi -2024** on **01/07/2024** to celebrate the achievements of Alumni who have been selected to the cadre of IFS&ACF and were also the recipients of Medals of recognition at State Level. The programme commenced with the planting of trees. Further, the students were felicitated by Dr. G. M. Devagiri, Dean, College of Forestry and Dr. C. G. Kushalappa, Former Dean, College of Forestry.



The Senior Professors and Associate Professors of the College joined in the felicitation programme. Dr. G. M. Devagiri spoke of the students' journey and the determination each one had. He emphasised about this factor which enabled them to live their dreams. Further, Dr. C. G. Kushalappa expressed his happiness on the students' achievements and highlighted the fact that the forest graduates must be the green warriors ever. The alumni spoke of their journey to success and the role played by their teachers in pursuing their dreams. The program also included an interaction with the on-going batch of students. The alumni spoke and guided the students about the methods of cracking the exams. The day was a remarkable one owing to the nature of celebration and major take aways for the students.

Workshop on Bamboo

The 23 students from 3rd year B.Sc (Hons.), Forestry participated in the **Bamboo Workshop**. This skill oriented workshop was conducted from **02/07/2024 to 05/07/2024** for four days. Mrs. Jamila, Mr. Nagesh, Mr. Ajith and Mr. Jinu from Uravu bamboo based development organization from Kerala were the resource persons. The main objective of this workshop was to enlighten the participants with the knowledge of the widely used raw material bamboo. This was able to impart the creative skills of making various bamboo based products.



Firstly, Mr. Jinu briefed the students about the versatile grass bamboo, its various species and its utilization. Further, the students were made to learn the manufacturing of three different products i.e., joinery (key holders, shell shaped stand and tongs), weaving (bangle and pen stand) and furniture. The entire workshop was worth all the effort. It was very effective in empowering the students with the knowledge of bamboo and the skills of making various products.

Fish Farmers Day 2024

Inland Fisheries Division, Agricultural and Horticultural Research Station, Kademadkal had organized **Fish Farmers Day** at ZAHRS, Mudigere on **10/07/2024**. The programme was inaugurated by Dr. Dushyanth Kumar, Director of Research, KSNUAHS, Shivamogga by lighting the lamps. During his inaugural speech he enlightened the farming community regarding the scope for fish fingerlings production in this vocation. Dr. Narayan S. Mavarkar, Dean College of Horticulture, Mudigere was invited as chief guest. The dignitary educated the participated farming community for effective utilization of different water bodies for fish culture at the hill zone. Mr. Ashok Kumar, President Taluk Krishika Samaja, Mudigere enlightened about effective utilization of local resources as a feed for fishes. Another progressive farmer and national awardee Mr. Laxmanagowda, Goutuvalli, addressed the gathering and educated the farmers regarding multiple usages of water sources. Dr. M. Shivaprasad ADE, Mudigere spoke about benefits of fish usage in daily diet. Dr. Krishnamurthy A. T., Senior Scientist, ICAR-KVK, Chikkamagalur, educated for effective utilization of new fish varieties for culture. Dr. Laxmana ADR, President in the programme, in his presidential remarks instilled facts to the farming community about enhancing fish production and improving the profit margin through the adoption of new technologies. During the technical session Dr. Shruthyshree Assistant Professor Fish, ZAHRS, Babburu, Hiriyur educated the farming community regarding importance of water quality parameters. Dr. Rajanna C., Technical Assistant & Expert in colour fish production, educated the farmers regarding



production of high value ornamental fishes in back yard. Mr. Kuppan, Retd. Fisheries Officer briefed about cultivable fish varieties. After technical session Dr. Dushyanth Kumar, Director of Research and other guests distributed the fish fingerlings to the trainees.

Krishi Aranya Mela -2024

Krishi Aranya Mela -2024 organised at Kanaka Das Bhavan, Periyapatna on **18/07/2024**. The Mela was inaugurated by Dr. R. C. Jagadeesha, Honb'le Vice-Chancellor, KSNUAHS, Iruvakki, Shivamogga. Dr. K. C. Shashidhar, Registrar, KSNUAHS, Shivamogga, Dr. Hemla Naik, Director of Education, Dr. Dushyanth Kumar, Director of Research, Dr. S. U. Patil, Dean (PGS), Dr. N. Shivashankar, Director of Student Welfare, Dr. K. T. Gurumurthy, Director of Extension and Dr. P. K. Basavaraj, Honb'le Member, Board of Management, KSNUAHS, Iruvakki, Shivamogga were present during the occasion. Dr. R. C. Jagadeesha, in his inaugural address, spoke about the practical knowledge of the farmers which may be imparted to the students. Further, he also spoke about seeking knowledge on the latest technology and scientific practices that enable greater yield, from the academicians of Agriculture and Forestry. He insisted on an exchange of knowledge with regular conduit. Dr. B. Hemla Naik too spoke about the role of farmers and latest developments in the agricultural domain. He advised the students to put the theories into practical utility and thus be available for the farming community. Dr. Basavaraj spoke about the role of forest in the maintenance of healthier environment. The interconnection between rainfall, forest and crop yield was deliberated upon. Dr. Dushyanth Kumar spoke about utilising the theoretical knowledge for the benefit of the farming community. A few farmers spoke about the productive nature of training programmes and fairs organised by College of Forestry. An interaction was facilitated wherein the farmers were encouraged to seek clarifications and cite grievances, if any. The questions were taken up and answered by the resource persons and Dr. R. C. Jagadeesha himself. The Mela was organised as a part of forestry rural work experience programme. Final year students put up demonstration models and charts that gave an insight into farm forestry, seed treatment and soil properties.



Extension Activities

Integrated Plant Protection Practices in Horticultural Crops under SSCP Scheme

ICAR, New Delhi, KSNUAHS, Shivamogga, OFRC, Shivamogga and ICAR-Krishi Vigyan Kendra, Chikkamagaluru jointly organized three days training programme on **Integrated Plant Protection Practices in Horticultural Crops under SCSP scheme** from **03/07/2024** till **05/07/2024**. The programme was organized at ICAR-KVK, Chikkamagaluru and coordinated by Dr. Suchithra Kumari, M. H., Scientist (Plant Protection), ICAR-KVK, Chikkamagaluru. The training programme was inaugurated on 03/07/2024. Dr. Shivaprasad M., Associate Director of Extension, Dr. Srinivas V., Dean (Hort.), College of Horticulture, Mudigere, Dr. A.T. Krishnamurthy, Senior Scientist and Head, ICAR-KVK, Chikkamagaluru and Mr. D. L. Ashok Kumar, President, Taluk Krishik Samaj, Mudigere presided the inaugural function. Dr. Suchithra Kumari M. H. welcomed the guests and gave the information about the objective of the training programme. Thirty five farmers from Chikkamagaluru district participated in the training programme.



Training programme on “Clonal propagation and top shoot grafting in Robusta coffee”

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga, ICAR–Krishi Vigyan Kendra, Chikkamagaluru, Central Coffee Research Institute (CCRI), Balehonnuru and Coffee Board, Mudigere jointly organized one day hands on training programme on '**Clonal propagation and top shoot grafting in Robusta coffee**' organized on **16/07/2024**. The programme was organized at Krishi Vigyan Kendra, Mudigere and co-ordinated by Dr. Suresh



Kumar, B., Scientist (Horticulture), KVK, Mudigere. The training programme was inaugurated by Mr. Dinesh Devarunda, President, Coffee Board, Karnataka., Mr. Mohan Kumar, President, Karnataka Growers Federation, Dr. M. Senthil Kumar, Director of Research, CCRI, Balehonnur. Mr. D. L. Ashok Kumar, President Mudigere Taluk Krushika Samaja, B. R. Balakrishna, president Mudigere taluk Growers Association and Dr. Shivaprasad, M., Associate Director of Extension, presided over the inaugural function. Senior Scientist and Head, KVK, Mudigere, Dr. A. T. Krishnamurthy, welcomed the guests and gave the details about the objective of the hands on 'training programme. One hundred thirty farmers from Chikkamagaluru and neighboring districts Hassan, Shivamogga participated in the training programme.

Coconut Tree Climbing Skill Training Programme

A three day skill development training on Coconut tree climbing was organized from **22/07/2024** to **24/07/2024** by ICAR-Krishi Vigyan Kendra, Chitradurga in collaboration with Organic farming research station, Shivamogga. Dr. P. K. Basavaraj, Honb'le Member, Board of Management, KSNUAHS, Shivamogga inaugurated the programme and opined that



farmers should practice agriculture as a business, and should make profit out of it. In order to make agriculture a profitable venture, farmers should adopt scientific methodology and adopt innovative technologies and to get the latest updates farmers had be in regular contact with scientists. He also suggested the farmers to participate actively during the training programme and make use of it to the maximum extent.

Dr. Suresh D. Ekabote, Associate Director of Agriculture, ZAHRS, Babbur Farm participated as chief guest in the programme and suggested the farmers to collect and keep the contact numbers of all the scientists and resource persons of ICAR-KVK and contact them for further information on agriculture related problems. Dr. Kumara O, Senior Scientist and Head, ICAR-KVK, Chitradurga presided over the programme and during his presidential address, he briefed that coconut tree climbing skill training is very useful. An adept tree climber can earn Rs.2000 to Rs.2500 per day. Further, this makes it an entrepreneurial activity. Dr. Mahantesh P. S., Scientist (Horticulture), welcomed all the guests and participants to the programme, Dr. Saraswathi J. M., Scientist (Home Science), delivered vote of thanks and Mrs. Geetha Kumari B. N., Senior Technical Officer, ICAR-KVK hosted the programme. Around 43 farmers from various villages of Chitradurga district have participated in the programme.

Certificate Course on Drone Technology

Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga, SCSP programme sponsored by Indian Council of Agricultural Research New Delhi, ICAR-ATARI zone – XI, Bengaluru and ICAR-Krishi Vigyana Kendra, Brahmavar, Udupi has jointly organized a certificate course programme on **“Empowering Youth Entrepreneurs in Agriculture and Horticulture by providing DGCA- Authorized. Remote Pilot Certificate (RPC) for Drone Technology”** under Revolving fund operating at ICAR-Krishi Vigyan Kendra, Udupi headed by Dr. Naveen N. E, Scientist (Agronomy). This was a public private partnership programme where technical information regarding usage of drone in agriculture and other aspects was covered and the practical part such as drone operation, simulation, flight *etc.*, would be taught by Clearskies Learning and Research Pvt. Ltd Bengaluru.



The programme was inaugurated on **06/08/2024** by Dr. R. C. Jagadeesha, Hon'ble Vice Chancellor, KSNUAHS, Iruvakkki and all other key officials of the university were present on this programme. After the inauguration the technical information was given by experts of the university upto 10/08/2024. Later the participants were sent to Clearskies Learning and Research Pvt. Ltd., Bengaluru for practical application viz. simulation, drone fly *etc.*, in six batches having four person in each batch. Total 24 participants were trained in the programme.

Nursery Techniques in Horticulture crops training under ARYA project

ICAR-Krishi Vigyan Kendra, Shivamogga organized three days Skill oriented capacity development programme on **“Nursery Techniques in Horticulture crops”** under Attracting and Retaining Youth in Agriculture (ARYA) project from 12/08/2024 to 14/08/2024. The programme was inaugurated by Dr. K. T. Gurumurthy, Director of Extension, Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Shivamogga. In his inaugural speech, he suggested the participants to start nursery business as regular income generating activity by raising seedlings of various crops and improved varieties / grafts / hybrids *etc.* which were in demand. The programme was graced by Dr. G. K. Girijesh, Senior Scientist and Head, ICAR-KVK, Shivamogga and ARYA project nodal officer Dr. Girish, R., Scientist (Plant Protection), ICAR-KVK, Shivamogga. The training programme was organized by Dr. Bharathkumar M. V., Scientist (Horticulture), ICAR-KVK, Shivamogga.



During this programme, lectures on basic knowledge about tools, equipments and growing structures used in nursery for production of planting materials, importance and scope of propagation methods in horticultural nursery management, role of nurseries in horticulture development, maintenance of mother blocks, rootstocks, bud rootstocks, pest and diseases in nursery have been delivered by experts. A hand on training to the participants was conducted by Mr. Shashikumar, owner of Sri Durgamba Nursery, Shikaripura. It was about the layout of nursery and nursery management practices like cutting, layering, budding and grafting for major horticulture crops. Totally 22 youth participated in the programme.

Training and Awareness Programme on Energy Efficient Pumps

A training and awareness programme on Energy Efficient Pumps was organized in Amasebailu village of Kundapura Taluk, Udupi District on **22/08/2024**. The programme was jointly organized by ICAR-Krishi Vigyan Kendra, Udupi, Vyavasaya Sahakari Sangha, Amasebailu and Grama Panchayath, Amasebailu. Shri Kiran Kumar Kodgi, Hon'ble MLA of Kundapura inaugurated the session and opined that solar and wind energy will be the future energy for both agriculture and domestic purposes. Shri Kishore Kumar Kodgi, President of Campco was the chief guest. He spoke about the importance of reducing dependency on fossil fuels and other non-renewable energy sources. The program was witnessed by local leaders from Gram Panchayath and co-operative societies. Dr. Dhananjaya B., Senior Scientist and Head, ICAR-KVK, Udupi welcomed the gathering with welcome notes. Dr. Chaithanya, spoke about improved practices in pepper and areca nut. Dr. Shankar spoke on sources of renewable energy in agriculture. There was a discussion of farmer and scientist.



Krishi Sakhi's Programme

Subject	Venue	Date and Participants
Krishi Sakhi Module III training Batch I and III	ICAR-Krishi Vigyan Kendra, Chitradurga collaboration with NRLM, Zilla panchayath	08-07-2024 to 13-07-2024 80 Krishi Sakhi's Participants. and 22-07-2024 to 29-07-2024 33 Krishi Sakhi's Participants.
Natural Farming Training Programme for Krishi Sakhi's	ICAR-Krishi Vigyan Kendra, Udupi	08-07-2024 to 12-07-2024 30 Krishi Sakhi's Participants.
Training Programme for Pashu Sakhi and Krishi Sakhi	ICAR-Krishi Vigyan Kendra, Udupi	29-07-2024 32 Krishi Sakhi's Participants.
Training programme for Krishi Sakhi Module 3 (Batch VI)	ICAR-Krishi Vigyan Kendra, Chitradurga	12-08-2024 to 17-08-2024 26 Krishi Sakhi's Participants.
Capacity building programme on Natural Farming to Krishi Sakhi	ICAR-Krishi Vigyan Kendra, Chikkamagaluru	30-07-2024 to 03-08-2024, 05-08-2024 to 09-08-2024 and 19-08-2024 to 23-08-2024. Totally 140 Krishi Sakhi's Participants.
NATURAL FARMING -Capacity Development programme for Krishi Sakhi	ICAR-Krishi Vigyan Kendra, Shivamogga	Batch-1 from 05-08-2024 to 09-08-2024, Batch-2 10-08-2024 to 14-08-2024 and Batch-3 19-08-2024 to 23-08-2024 Totally 93 Krishi Sakhi's Participants.

Patron-in-Chief**Dr. R. C. Jagadeesha, Vice-Chancellor****Patron Chairman****Dr. B. Hemla Naik, Director of Education****Editor****Dr. Basavaraj Beerannavar****Associate Editor****Assistant Editor****Assistant Editor****Dr. T. M. Soumya****Dr. Mallikarjuna M. C.****Dr. Priyanka***If undelivered please return to:*

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Photo News

Training Programme on **Seed Treatment and safe use of Pesticides Usage** was organised jointly by Department of Agriculture and EEU, Madikeri at Devanageri village of Virajpet taluk on **10/07/2024**.



PG Research Conference-2024 was held on **1st and 2nd August 2024** at main campus Iruvakk. Dr. Indires K. M., Former Vice Chancellor, UHS, Bagalkot was present as chief guest, Dr. R. C. Jagadeesha, Hon'ble Vice Chancellor, KSNUAHS presided and Dr. S. U. Patil served as organizing chairman. Totally 89 PG and Ph.D students



Academic Management System (AMS) workshop was conducted on **22/07/2024**. All the students were made to board on AMS platform. I and II year marks card were uploaded by using AMS platform. PG teachers and students were made aware about the software regular academic activities.



National Sports Day is celebrated annually in India on **29/08/2024** to commemorate the birth anniversary of legendary hockey player Major Dhyani Chand. Dr. Ramakrishna Hegde, Dean In-charge spoke about the significance of the day and insisted on being engaged in sports activities for good physical and mental health.



ICAR-Krishi Vigyana Kendra, Udupi was inaugurated the Entrepreneurship Development Programme (EDP) on **Coconut shell art** on **09/09/2024**.



A Field Day on Demonstration of **Soya Bean (JS-335)** Crop was organized in Kanabagatte village, Ajjampurataluk of Chikkamagaluru district on behalf of Krishi Vigyan Kendra, Mudigere.

