



# Dr YSRHU e-Newsletter

Fortnightly e-Newsletter of Dr Y.S.R.Horticultural University



Vol.IX, Issue-3

Dr YSRHU e-Newsletter

1-15 February 2023



## Fortnight Focus

- The Events
- Education
- Research
- Extension
- General

## From Vice- Chancellor's Desk

Digital disruption in farming refers to the transformative impact of digital technologies on the farming sector. Dr.YSRHU (Dr. Y.S.R. Horticultural University) implemented several extension strategies for effectively reaching the farming community through digital disruption in extension service delivery for the prosperity of the horticulture sector. The digital extension strategies implemented by Dr.YSRHU:

1. Farmers Advisory Cell (FAC) provides regular advisories to farmers through a dedicated mobile number and organizes extension activities, including webinars on horticulture and allied sectors.
2. Plant Protection Advisory Cell (PPAC) providing advisories on plant protection and monitor pest and diseases.
3. Virtual Farmers Training Centre for online transfer of technologies to farmers, extension personnel, rural youth, and women including interactive sessions between farmers and scientists.
4. Dr.YSRHU Udyana Mitra: A sophisticated electronic wing to record videos on latest technologies in horticulture that are disseminated through the "Dr.YSRHU Udyana Mitra" program via various channels.
5. State Level Farmers Awareness Creation Centre (FACC) with digital display of latest technologies in Horticultural crops in Andhra Pradesh. An information kiosk is available as an e-resource on the latest technologies.
6. Community Radio Station: "Dr.YSRHU Udyana Vani - 90.8 FM," broadcasts daily programs on major operations in horticultural crops, weather forecasts and related topics.
7. Dr.YSRHU Phone-in Program: Scientists and teachers from Dr.YSRHU are available daily through phone-in programs to address queries and provide expert advice.
8. Dr.YSRHU YouTube Channel is created to upload digital extension activities, including Udyana Varthalu (horticultural news), Udyana Vani (radio programs), Udyana Mitra (technology videos), and more.
9. Crop-wise & Technology-wise WhatsApp Groups: Around 128 WhatsApp groups are created, categorized by crops and technologies, to provide regular advisories to farmers, rural youth, and women.
10. Dr.YSRHU Udyana Bandhu App: An Android app is developed, providing crop-wise and technology-wise information on 33 horticultural crops.
11. Pasidi Pantalu/Phone-in-live/TV Programmes: Scientists from Dr.YSRHU participate in phone-in-live programs and TV shows in collaboration with All India Radio and Doordarshan Kendra, discussing the latest technologies in horticulture.

These extension strategies by Dr.YSRHU vitrine the university's commitment to utilize digital platforms and to timely disseminate knowledge, provide timely advisories, and empower farmers with modern farming practices and reach more number of farmers with in the given time framework.

  
**Dr T. Janakiram**  
Vice-Chancellor

## The Events

Dr T Janakiram, Hon'ble Vice Chancellor, Dr YSRHU, inaugurated new Agricultural Drone purchased for demonstration at Dr.YSRHU- KVK, VR Gudem on 07.02.2023 and addressed the gathering on scope and importance of Agricultural Drones usage in farm operations. Dr A.R. Reddy, Principal Scientist, ATARI-Zone X, Hyderabad visited Natural farming block of KVK instructional farm. Dr M Raghavendra Reddy, Scientist (SS&AC), Dr.YSRHU-KVK, VR Gudem, organized the demonstration of spraying by new Agricultural Drone on Chilli. Dr.E. Karuna Sree, Principal scientist & Head and all scientists and staff of KVK, VR Gudem participated in the programme.



Dr.YSRHU-KVK, Venkataramannagudem organized one day programme on “Cashew flower festival” in Duddukuru village of Buttayagudem mandal, Eluru district, on 14.02.2023. Dr. T. Janakiram, Hon'ble Vice Chancellor, Dr YSRHU, participated as chief guest of the programme, addressed the gathering on research outcomes of Dr YSRHU on cashew varieties and improved crop management practices. Dr E Karuna Sree, Director of Extension and Principal Scientist & Head, KVK, VR Gudem explained about the use of agricultural drones in present situation. Dr M Raghavendra Reddy, Scientist (SS&AC) organized the spraying of fertilizers on cashew by Agricultural Drone and Sri E. Shali Raju, Scientist (Entomology) and Dr. K. Venkata Satish, Scientist (Horticulture) also participated in the programme. Srei Bujju Babu, ADA and Smt. Sumalatha, AO, FPO's representatives, VAA's, VHA's and more than 80 farmers participated in the programme. Demonstrated the nutrient spraying in cashew orchards with 13-0-45 in 20 acres using Agricultural drones.



Dr.G.Thanuja Sivaram, Assoc. Professor, Department of PSMA, College of Horticulture, Anantharajupeta received an external funded project entitled “Development of Medicinal Herbal Garden in Rayalaseema region of Andhra Pradesh” from National Medicinal Plant Board, Ministry of AYUSH, Gov. of India with budget outlay of Rs.5.4 lakhs for a period of 5 years. The project is aimed to develop medicinally important herbs which will deepen the level of education for students in traditional Ayurvedic medicine and also educate the community about the benefits of plant-based healing systems. It may also encourage the farmers of Rayalaseema region to look forward to cultivate medicinal plants in a sustainable manner.

Particulars	Estimated cost	Actual cost	Balance
Total	5.40	5.40	0.00

The Fresher's Day celebration was organized in a grand manner at Dr. YSRHU- College of Horticulture, Anantharajupeta on 15-02-2023. Dr. K. Gopal, Associate Dean congratulated the newly admitted students for securing seats in the college and enlightened the students regarding various career opportunities in the field of horticulture and facilities available in the campus. He urged the students to strive hard for achieving excellence in academics, sports & and games, and communication skills. Chief Guest Dr. Medasani Mohan, motivated the students by highlighting the importance of personality development, concentration, hard work, meditation to improve memory, etc. for getting success in all their endeavours. Guest of Honour, Sri. Anurag Meena, IFS, DFO, Annamayya District stressed upon the importance of horticulture in nation's economy and advised students to get awareness in various avenues, to set a good goal and strive hard to achieve the goal. Dr. K. T. Venkataramana, Zonal Research Head and Principal Scientist (H), HRS, Anantharajupeta advised students to work hard to get success and to inculcate social values and principles of personal excellence and care for others. Dr. P. Syam Sunder Reddy, OSA, other teaching and nonteaching staff, and senior students extended their wishes to freshers for a very happy and academically fulfilling journey ahead and pleasant stay in the college.



Dr.YSRHU- KVK, Venkataramannagudem, organized ARYA success meet on 07.02.2023. Honourable Vice-Chancellor Dr. T. Janakiram and Director of Extension Dr. Karuna Sree appreciated the group "Krishi Udhyana Raithu Utpattidharula Sangham" for their success and achievement.

## Education

Final year students of B.Sc (Hort.) of COH, VR Gudem (119 students) proceeded to South India Educational Tour from 30.01.2023 to 10.02.2023 and visited the most prestigious institutes viz.,TNAU, Madurai and Coimbatore, KAU, Thrissur, CTCRI, Trivandrum, CPRI, Indian Institute of Soil and Water Conservation, Ooty, CFTRI, Mysore, IIHR, IFAB, Bengaluru. Dr. A. Harshavardhan, Asst. Prof. (Hort.), Dr. K. Aruna Kumari, Asst. Prof. (Biotechnology) and Dr. P. Gangadhara Rao, Asst. Prof. (Hort.) accompanied and guided the students as the tour In-charges. Dr.T. Janakiram, Hon'ble, Vice-Chancellor, Dr.YSRHU and Dr. D.R. Salomi Sunitha, Dean of Student Affairs flagged off the South India Educational Tour on 30.01.23.



On 06.02.2023, Dr.G. Sandeep Naik, Scientist (Pl Path) and Gayathri, Asst Professor (Economics) AD representative for RHWE programme of Sri Krishnadevaraya College of Horticultural Sciences had visited and reviewed the activities of RHWE students allotted to Dr YSRHU-HRS, Anantharajupeta.



Dr.Ch.Ruth, Prof. (Pl.Path.), and AD representative, visited RHWE villages – Gopavaram & Gajulapalli in Nandyal dt. on 06.02.2023 and interacted with RHWE students and farmers. Conducted method demonstrations on enrichment of *Trichoderma viride* with FYM and 5 per cent neem seed kernel extract. Dr.M.Tagore Naik, Sr.Scientist, HRS, Mahanandi, Miss.Haritha,

VHA & 30 farmers were participated. Conducted diagnostic visit on chilli & turmeric cv. Roma and observed severe incidence of leaf curl virus, flower thrips in chilli. Suggested control measures by using blue and yellow sticky traps, sunflower as trap crop and spraying of neem oil @3ml with acetamiprid @0.3g. per liter of water.

With the inspiration of Dr. T Janakiram, Hon'ble Vice-Chancellor, Dr. YSRHU, a new initiative "Feel at Home @ UDAYANA SADANAM" an interaction program with Foreign students of Dr. YSRHU-COH, VRGUEM was organised on 07.02.2023 by the college of Horticulture, VRGudem. Students, Sonam Choden, Sangay Denchen, Ngawang Yeshi from Bhutan, Peter Chol from South Sudan (doing B.Sc. Horti.) and Ashok Sah from Nepal (M. Sc.) participated, shared their happiness to be a part of Dr. YSRHU family, showcased their talents and got motivated to be successful flag bearers of India and abroad. Hon'ble VC along with Mrs. Janakiram, Smt. Usha Sri, University officers, wardens and PRO encouraged the students for a healthy, happy and homely stay at Dr. YSRHU.



Under the able guidance and support of Hon'ble Vice-Chancellor, Dr.T.Janakiram, 13 varieties of tulip bulbs (Adrem, Bourbon Street, Canasta, Candela, Charade, Madame Lafeber, Mosni, Novisun, Pallada, Red Label, Rescue, Rodeo Drive, Worlds Favourite) were purchased from NEO Floritech, New Delhi. As a pretreatment, tunicated bulbs were exposed to freezing temperature at 2-6°C for 10 days and after 10 days planted in polybags of 8x10 inches placed under Fan and Pad polyhouse and shadenet conditions at Centre of Excellance, Dr.YSRHU on 08.02.2023.



Mosni variety grown under Fan and Pad polyhouse has shown early flowering compared to same variety under green shadenet house. Under Fan and Pad polyhouse, Mosni, Canasta shown flowering whereas, under shadenet conditions, Mosni, Canasta, Charade, Rescue and Worlds Favourite has shown flowering among 13 varieties. Dr.T. Janakiram, Hon'ble Vice-Chancellor, Dr YSRHU appreciated Floriculture team for their sincere efforts in making the tulips flowered.

On 09.02.2023, Dr.A.Devivaraprasad Reddy, Scientist, Dr.YSRHU- KVK, VRGudem explained about the fisheries based integrated farming systems, composite fish culture, poultry, duckery, goatry, vermicompost, ornamental fish culture, Farmers Advisory Cell, electronic wing, community radio station etc. to the RHWEP students.



On 10.02.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), Dr.YSRHU - Krishi Vigyan Kendra, Vonipenta took the RHWEP students to All India Radio, Kadapa, where the engineer explained about the activities being conducted in AIR. At KVK, Utukuru, Dr. Shilpa Kala, SMS (Plant protection) explained the students about the cultivation of mushrooms and their management. In the Kadapa Air Port, the students observed the landscape gardening being maintained.



On 14.02.2023, Smt. B. Neeraja Scientist (Pathology) and Dr. V. Anoosha, Scientist (Entomology) Dr. YSRHU-HRS, Ambajipeta proceeded to RHWEP Village, Gangalakurru Agraharam under the Year of Banana and created awareness on insect pests and disease management of Banana to the farmers.

## Research

Successfully achieved the *in vitro* culture establishment (76.8%) of *Aglaonema commutatum* (Chinese evergreen) indoor ornamental plant by culturing the shoot tip and axillary node explants in modified MS media supplemented with different kinds (BAP, Kinetin, TDZ, Metatoplin) and concentrations of cytokinins as part of Mr.G. Karthik, VHM/21-22, M.Sc research work on "Standardizing *in vitro* multiplication of *Aglaonema* sp. using shoot tips and nodal segments as explants". Various novel pre-treatment and surface sterilization methods were employed in this experiment to produce axenic cultures.



## Extension

### VC to Village Programme

Dr. P. Sunitha, Dr. T. Thomson and Dr. N.V. Gowtham Deekshithulu conducted VC to Village program at R.B.K. PedaTadepalli on 15.02.2023. Scientists of HRS, VR. Gudem explained about rodents habitat, distribution, abundance and economic significance varies in different crops and seasons. Also, informed about the several traditional and modern approaches and methods of rodent control.



On 15.02.2023, Dr. V. Anoosha, Scientist (Entomology) and Dr. G. koteswara Rao (Research Associate, Horticulture), Dr. YSRHU-HRS, Ambajipeta proceeded to Government Primary School, Vakalagaruvu, Adopted Village under VC to Village Programme and created awareness on horticulture crops, importance of balanced nutrition for kids and good habits that improve the health

### Dr. YSRHU Year of Banana activities:

Dr.YSRHU- KVK, Venkataramannagudem, has taken up banana plantation in KVK farm as a part of Year of Banana celebration 2023, on 07.02.2023. Honourable Vice-Chancellor Dr. T Janakiram, Dr. Karunasree, Director of Extension Dr. A. R. Reddy Principal Scientist, ATARI, all the SAC members and KVK staff have planted banana variety Karpura tissue culture plant in KVK farm.



Horticultural Research Station, Kovvur organized essay writing competitions to the school children of Dr.S.Radhakrishna High School on 3<sup>rd</sup> February 2023 as a part of DrYSRHU-Year of Banana 2023 and International Year of Millets during their visit to the Research station. Created awareness on banana genotypes, nutritional importance of banana and awareness was created on the importance of millets in human diet in view of 'International Millets 2023' for 60 students and 6 faculty members.

### Swatchatha Pakhwada:

On 15.02.2023, Dr.N. Srividya Rani, Scientist and Head, Dr. M. Harshitha, scientist (SSAC), Dr. S. Firoz Hussain, Scientist (Horticulture), Dr.B.S. Kanthi Sri, Scientist (Home Science) participated in the Swachhta pakhwada programme at Dr.YSRHU- KVK, Vonipenta. As a part of this programme weeding was done in the field and removal of parthenium weeds and burning of the parthenium away from the field was done. RHWEP students from Adhireddypalli and Settivaripalli also participated in the programme.



## Natural Farming:



On 03.02.2023, Dr M Raghavendra Reddy, Scientist (SS&AC) and Sri E. Shali Raju, Scientist (Entomology), Dr.YSRHU-KVK, VR Gudem, in order to promote natural farming under “Outscaling of Natural Farming”, distributed yellow sticky traps for chilli field and Guava orchards and explained about their uses. Organized the spraying of neem extractants spray on Guava. Later, demonstrated the installation of sticky traps and observed the incidence of sucking pests in chilli.



## FLD:

Dr.M. Raghavendra Reddy, Scientist (SS&AC), Dr.YSRHU-KVK, VR Gudem, organized distribution of sesame seeds under CFLD oil seeds on 01.02.2023 and visited fields for sowing and monitored the germination in Telikacherla and Unguturu.



On 02.02.2023, Sri.G.Shali Raju, Scientist (Entomology), KVK, V.R.Gudem attended polambadi programme on maize at Telikicherla village and explained about pest and disease management in maize and later visited FLD plot on Management of Fall Army Worm (FAW) in Maize.

Dr. D. Thirupal, Scientist (Horticulture), Dr.YSRHU-KVK, Periyavaram conducted follow-up field visit in Acid lime orchards on 04.02.2023, as a part of Frontline Demonstration on “Flower regulation in Acid lime for getting higher yields” at Adopted village of Arimanupadu, Ozili Mandal, Tirupathi District. Recorded the harvesting data of Acid lime fruits from the beneficiary farmer’s fields. Smt. I. Rajeevana, Scientist (SSAC), Dr. P. Nagarjuna Reddy, Scientist (Agril. Extn.) from KVK, Periyavaram, RHWEP students from COH, Chinalaterpi and farmers participated.



Dr.M. Harshitha, scientist (SSAC) conducted diagnostic visit to pomegranate on 08.02.2023, regarding ‘FLD on micro nutrient management in pomegranate for getting higher yields’ at Lekkali-varipalli village of Mydukur mandal. As a part of this scientist interacted with the farmer regarding the spraying of micro nutrients especially Boron and Zinc during the flowering and fruit formation to prevent the flower drop and fruit cracking.

On 08.02.2023, Dr. B.S.Kanthi Sri, Scientist (H.Sc) conducted follow up visit on FLD on Demonstration on inter-cropping of pulses and millets. As a part of the visit, scientists visited Machug-aripalli village of B.Matam mandal and observed the crop in beneficiaries fields.



On 08.02.2023, Dr.M. Harshitha, scientist (SSAC) initiated FLD on Soil test-based fertilizer application in Papaya at KVK, Vonipenta. Based on soil test results, micro nutrients and nitrogen deficiency were observed in farmer's fields. As a part of the programme micro nutrients were provided to the farmers for foliar spray.

On 10.02.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), Krishi Vigyan Kendra, Vonipenta made a follow up visit to FLD on management of soil borne diseases in ground nut in Madirepalli village of Duvvur Mandal. Observed Tikka leaf spot and Stem rot and suggested suitable control measures.

### OFT:

Dr. B.S.Kanthi Sri, Scientist (H.Sc) attended medical camp in Mahathma Jyothiba Phule B.C girls High School to test hemoglobin levels of adolescent girls on 02.02.2023, and initiated OFT on 'Improving the nutritional status of the weaker sections through providing sesame and millet laddu'. Mrs. Shobha, School Principal also participated in the programme.



On 03.02.2023, follow-up field visit was conducted by Dr. D. Thirupal, Scientist (Horticulture), Dr.YSRHU - KVK, Periyavaram as a part of On Farm Trial "Assessment of new chilli varieties in Nellore District (LCA-620 & LCA-625)" at Petlur village, Venkatagiri mandal, Tirupati District. Observed thrips infestation and suggested spraying of Acetamiprid @ 0.2 g/l or Fipronil @ 2ml/l.

Sri.G.Shali Raju, Scientist (Entomology), Dr.YSRHU-KVK, V.R.Gudem provided, yellow and blue sticky traps as a part of OFT on Assessment on ICM in Chilli with reference to black thrips and later demonstrated the installation of sticky traps at Telikicherla village on 03.02.2023.



On 13.02.2023, Dr. B.S.Kanthi Sri, Scientist (H.Sc) visited Mahathma Jyothiba Phule B.C Girls High School and provided multi millet with sesamum seed laddu to 5 adolescent girls for ten days and initiated OFT on Improving the nutritional status of the weaker sections through providing sesame and millet laddu. Dr. N. Srividya Rani, Scientist and Head, Dr. M. Harshitha, Scientist (SSAC) and Mrs. Shobha, School Principal participated in the programme.

Scientists of Dr.YSRHU- Krishi Vigyan Kendra, Pandirimamidi visited tapioca fields on 14.02.2023, which are under harvesting at Beerampalli village of Rampachodavaram mandal and observed tuber formation under farmer's practice and trial on Soil Test based Nutrient Management in Tapioca. Yields are yet to be recorded as harvest of crop is under progress. Sri P. Raja Sekhar, Scientist (SS&AC), coordinated the visit. Total 8 farmers participated in the programme.



## Diagnostic Visits:



On 02.02.2023 and 03.02.2023, Smt. I.Rajeevana Scientist (Soil Science) conducted diagnostic field visits to farmers field at Armenipadu village of Ojili mandal. Visited to cluster bean and chilli fields at various location and distributed inputs to the farmers i.e., Arka Vegetable Special. Explained about the importance of vegetable mix to the plant. Observed the incidence of virus to chilli field and thrips, aphids to cluster bean field. Suggested remedial measures for the crop recovery.

On 04.02.2023, conducted field visit to Groundnut crop under CFLD Oilseeds programme at Arimenupadu village, Ojili Mandal. Kadiri lepakshi (K-1812) Groundnut variety given for demonstration is at flowering stage (30 DAS) and suggested for application of gypsum @ 500kgs/ha. CFLD Oilseeds Programme in-charge Dr. P. Nagarjuna Reddy, Scientist (Agril. Extension) enlightened beneficiaries regarding prophylactic package like spraying neem oil for the management of pests. Later distributed and installed Yellow and blue sticky traps for control of sucking pests.



On 04.02.2023 Dr. D. Thirupal, Scientist (Horticulture), Smt. I. Rajeevana, Scientist (SSAC) and Dr. P. Nagarjuna Reddy, Scientist (Agril. Extn.) Dr.YSRHU-KVK, Periyavaram conducted a diagnostic field visit to chilli at adopted village of Arimanupadu, Ozili Mandal, Tirupathi District. Identified the thrips and mites damage as a major problem and recommended spraying of Spiromesifen @ 0.8

ml/l or Diafenthiuron @ 1.5 g/l.

On 08.02.2023, Dr. M. Raghavendra Reddy, Scientist (SS&AC) and Sri E. Shali Raju, Scientist (Entomology) Dr.YSRHU-KVK visited Papaya orchards in Kaikaram to diagnose nutrient deficiencies & papaya ring spot virus and recommended suitable remedial measures.



On 10.02.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), Dr.YSRHU - Krishi Vigyan Kendra, Vonipenta made a diagnostic field in cotton to Madirepalli village of Duvvur Mandal. The scientist observed aphids and magnesium deficiency in cotton and suggested the farmer to spray Thiomethoxam @ 0.2 gm per litre to control aphids and Magnesium Sulphate @ 10 gm/litre, twice at an interval of 7 to 10 days for magnesium deficiency.

On 12.02.2023, Dr. S. Firoz Hussain, Scientist (Horticulture) made a diagnostic field visit to groundnut at Madirepalli village of Duvvur Mandal. Observed tikka leaf spot in groundnut and suggested the farmer to spray Propiconazole @ 2.0 ml per litre + Keleol (mineral oil) @ 5.0 ml per litre to control the disease.



## Training Programmes Organized

On 01.02.23, Dr. N.B.V. Chalapathi Rao, Principal Scientist (Ento.) delivered lecture on insects pests of coconut and Dr. Vadde Anoosha, Scientist (Ento.), explained about biocontrol of coconut insect pests and role of lab rearing parasitoids and predators in insect pest management of coconut to trainees during biocontrol lab visit. Sri A. Kireeti, Scientist (Hort.), explained about the ground pollination technique in coconut to trainees.



On 01.02.2023, Dr. P. Lalitha Kameswari, Principal Scientist and Head and Dr. S. Adarsha, Scientist (Entomology), Dr.YSRHU - Krishi Vigyan Kendra, Pandirimamidi, conducted training program on management of chilli black thrips at Dugutta village of Kunavaram mandal. Sri Sonde Mutthamma, Sarpanch, Doogutta village attended as a chief guest and distributed *Baevaria bassiana* and *Verticillium lecanii* to the beneficiary farmers and explained method of application and care to be taken for application of biopesticides. Dr.S.Adarsha Scientist (Entomology) coordinated the program. Sri Sai Kumar VHA, Doogutta, Sri Uday Kumar, Kondrajapuram village participated in the program.

Dr.B.Vijayasree, Scientist (Home Science), Dr.YSRHU - KVK, Periyavaram on 08.02.2023, conducted training programme on 'Establishment of Nutrigardens at KVK, Periyavaram for the women and rural youth under SC-Sub plan' and explained about the significance of Nutrigardens to ensure dietary and nutritional security for the farm families. Dr.B.Govinda Rajulu, Principal Scientist & Head distributed Vegetable Seed kits and enlightened them on organic cultivation of vegetables. Smt. I.Rajeevana, Scientist (SSAC), Dr.D.Thirupal, Scientist (Horticulture) RHWEP students, TVS seva trust team participated.



Dr.B.Vijayasree, Scientist (Home Science), Dr.YSRHU - KVK, Periyavaram on 08.02.2023, conducted training programme on 'Establishment of Nutrigardens at KVK, Periyavaram for the women and rural youth under SC-Sub plan' and explained about the significance of Nutrigardens to ensure dietary and nutritional security for the farm families. Dr.B.Govinda Rajulu, Principal Scientist & Head distributed Vegetable Seed kits and enlightened them on organic cultivation of vegetables. Smt. I.Rajeevana, Scientist (SSAC), Dr.D.Thirupal, Scientist (Horticulture) RHWEP students, TVS seva trust team participated.



On 08.02.2023, Dr. S. Firoz Hussain, Scientist (Horticulture), KVK, Vonipenta conducted a training programme on induction of flowering in mango. The scientist explained the farmers about de-blossoming in mango till the age of four years. For inducing flowering, the scientist explained that spraying of ethrel @ 2.0 ml per litre + 2.0 g Urea per litre induces flowering and improves fruit set. When the age of the mango reaches five or six years, foliar application of Cycocel @ 2.0 ml per litre and soil drenching of Paclobutrazol @ 4.0 ml in 2.0 litres of water helps in inducing profuse flowering, improves fruit set and fruit yield.

ing of Paclobutrazol @ 4.0 ml in 2.0 litres of water helps in inducing profuse flowering, improves fruit set and fruit yield.



Smt. I.Rajeevana, Scientist (Soil Science & Agril.Chemistry), conducted training programme on preparation of vermicompost to the farmers of mudananyanipalli and T. B kandriga farmers at KVK, Periyavaram, on 08.02.2023. Explained farmers about how to prepare vermicompost and how to enrich the vermicompost with TVD and other biofertilizers. How to make pit, how to make bed material in it and followed by how to fill it with wastages, how to release earthworms and finally how to cover it with gunny

bags. Explained about what are precautions to be taken while doing vermicompost. In this programme Dr. B. Govindarajulu Principal Scientist & Head explained farmers about how to use vermicompost for growing organically growing vegetables. Distributed farmers plastic bags for further encourage of preparation of vermicompost. In this program Dr.B. Vijayasree, Scientist Home Science, Dr. D. Tirupal, scientists and farmers participated.

On 09.02.2023, Dr. B.S.Kanthi Sri, Scientist (H.Sc) conducted training programme on Value addition to mango fruit and its nutritional benefits at Dr.YSRHU - KVK, Vonipenta. Explained about the various post-harvest technologies and value addition procedures to the farmers. Highlighted various nutritional benefits of Mango.Dr. M. Harshitha, Scientist (SSAC) and Dr.S.Firoz Hussain, Scientist (Horticulture) also participated in the programme.



Dr.YSRHU - KVK, Nellore-2 (Periyavaram): on 10.02.2023, Dr.B.Vijayasree, Scientist (Home Science) conducted Skill development and Vocational Training programme on jute and cloth bags making at KVK Periyavaram and explained about the marketing avenues for jute and cloth products by establishing convergence with

the different institutions. Smt. K. Kusuma Kumari, Founder of Niha Textiles & Handicrafts, Nellore participated as Resource person, enlightened SHG women on global environmental degradation & impacts of use of plastics, need and importance of using jute and cotton bags. Dr.B.Govinda Rajulu, Principal Scientist and Head motivated women to utilise this opportunity for self-employment, income generation and sensitized them on need of the hour to stop using single use plastic. Later women stitched some of the models and samples and displayed in the training. MEPMA community organizers Sri.Venkateswarlu, Sri Durgesh Kumar, TVS Seva Trust team Sri Nithin, Sri Satish, Ms. Alekhya, Sri Kesavulu and trainer Smt. Kalyani, master trainers and women participated.



On 10.02.2023, Smt. I.Rajeevana, Scientist (Soil Science & Agril.Chemistry), conducted training programme on Nutrient management in Banana as a part of Year of Banana- 2023 at Dr.YSRHU - KVK, Periyavaram. Explained farmers about integrated nutrient management in banana, nutrient deficiencies, especially micronutrients and potassium and usage of fertilizers through drip

(fertigation) and their dosage. Dr. B. Govinda Rajulu, Principal Scientist and Head, Dr.YSRHU - KVK, Periyavaram, explained about usage of the micronutrient mixtures. Arka Banana Special was distributed to farmers. Dr. P. Nagarjuna Reddy, Scientist ( Agril. Extension), Dr. D. Tirupal, Scientist (Horticulture) and farmers participated.



On 10.02.2023, a training programme on 'Mushroom production technology' was conducted to RHWEP students of Sri Krishnadevaraya College of Horticultural Sciences, Anantapuramu allotted to Dr YSRHU- HRS, Anantharajupeta at ELP unit of COH, Anantharajupeta by Dr. K. Arunodayam, Assistant Professor (Pl. Path.). Explained about importance of mushrooms in daily diet, congenial climatic conditions, materials required for cultivation of mushrooms and hands on training to the students on bed preparation. Sri. G. Sandeep Naik, Scientist (Pl. Path.), HRS, AR Peta, coordinated the programme.

On 10.02.2023, a training programme on 'Vermicompost production technology' was conducted to RHWEP students of Sri Krishnadevaraya College of Horticultural Sciences, Anantapuramu, allotted to Dr YSRHU- HRS, Anantharajupeta at ELP unit of COH, Anantharajupeta by Dr M. Ramaiah, Professor (Entomology). During the programme, Professor explained about importance of vermicompost in enhancement of crop growth and yield, congenial climatic conditions, materials required for vermicompost production and precautions to be taken during preparation of vermicompost. Sri. G. Sandeep Naik, Scientist (Pl Path), HRS, AR Peta coordinated the programme.



On 15.02.2023, Dr. M. Harshitha, scientist (SSAC) conducted training programme on method of soil testing by using soil testing mini kits to the RHWEP students at KVK, Vonipenta. As a part of this scientist explained the procedure to estimate soil pH, soil Nitrogen, soil Phosphorus and soil Potassium by using soil testing mini kits to the RHWEP students. Dr.N. Srividya

Rani, Scientist and Head participated in the programme.

### SCSP:

An awareness camp was conducted on ICAR-SC Sub Plan Project 2022-23 at Y.Kota (V) of Obulavaripalli (M) and Lakshmi nagar, Anantharajupeta (V) of Rly. Kodur (M) Annamaiah (YSR KADAPA) (dist), which was allotted to the department of Plant Pathology, during financial year 2022-23. Dr. Ch.Ruth, P.I, Professor (Pl.Path.), Dr.K.Swarajya Lakshmi, Co-PI, Prof. (Horticulture) and Dr.K.Arunodhayam, Co-PI, Asst.Prof. (Pl. Path.) explained the importance and cultivation of mushrooms to SC beneficiaries along with ELP students Srujana, Farjana, R.J.Vasanth, Giddaiah on 01-02-2023 and 03-02-2023 respectively. Sri Hari, VHA, Anantharajupeta and Sri Yashwanth, VHA, Y.Kota and Velugu group members participated in the program. Selected 20 beneficiaries from each participated village.



As a part of the project, an awareness programme on mango at Bommavaram village, Obulavaripalli mandal was conducted on 03.02.2023. Dr. G. Sarada, Assoc. Prof. (Ento.) & PI explained about the pest and disease management in mango at flowering and fruiting period and also emphasized the importance of biopesticides in pest management and safeguarding the beneficial insects. Dr. Lalitha Kadiri, Assoc. Prof. (Agro) explained the importance of integrated nutrient management in mango. Sri P. Ramaiah, VHA coordinated the programme. 30 farmers and 10 P.G. students participated in the programme.





On 09.02.2023 an awareness cum training programme on mango was conducted at Y. Kota village, Obulavaripalli mandal. Dr. G. Sarada, Assoc. Prof. (Ento.) & PI, Co-PIs Dr. K.M.Yuvaraj, Professor (Hort.), Dr.Lalitha Kadiri, Assoc. Prof. (Agro) explained about pest & disease management and INM practices in mango. Associate Dean Dr. K. Gopal also attended the programme and released pamphlet on mango cultivation aspects. Smt. Ashia, Horticulture officer and Yaswanth, VHA coordinated the programme. Dr. Ruth, Dr. M. Ramaiah, Dr. A. Nischala, and Dr. G. Rajeswari also participated in the program. 50 Farmers and 12 P.G. students attended the programme

### Training Programmes Participated

Dr.G.Ramanandam, PS (Hort.) & Head, Dr.K.Ravindra Kumar, SS (Hort.) and Dr. Ch.S.Kishore Kumar, SS (P.Path) participated in 'District level stakeholders workshop on climate resilient agriculture & allied sectors' at CTRI, Rajamahendravaram on 7<sup>th</sup> February 2023 organized by NABARD AP Regional Office, East Godavari district. Dr.K.Ravindra Kumar delivered invited talk on "Effect of climate change on banana - adaptation and mitigation strategies to overcome the harmful effects".



On 03.02.2023, Dr. D. Sreedhar, Senior Scientist (Hort.) from Dr YSRHU- HRS, Anantharajupeta and Dr. K.Subramanyam, Principal Scientist (Pl. Path.) & Head, HRS, Mahanandi attended farmers training programme on Mango production technology organised by Dept. of Horticulture, Nandyala Dist. at Peddapudilla village of Peapully mandal. During the programme scientists explained about water management, fertilizer management, micro nutrient management, pests and disease management in Mango. Smt. Sumitra Ramesh, Hon'ble Member of Board of Management, Dr.YSR Horticultural University attended as Chief Guest. Sri Nagaraju, District Horticultural Officer, Nandhyal district, Horticultural Officer, VHA's and farmers participated in the programme.

### TSP:



Dr.YSRHU- KVK, Pandirimamidi has provided plastic crates to tribal farmers of Rajampalem, Pandirimamidi kota and Vetukuru villages of Rampachodavaram and Maredumilli mandals for harvesting operations in Annato and Cashew under TSP – 2022-23, on 08.02.2023.

Dr.K.Mamatha, Principal Scientist (Hort.), Dr.K.Ravindra Kumar, Sr. Scientist (Hort.) and Dr. Ch.S.Kishore Kumar, Sr. Scientist (Pl.Path.) conducted field visits in Alluri Seetaramaraju district on 06.02.2023 for selection of beneficiaries to implement TSP under AICRP (Fruits). Beneficiary selection for banana cv. Amrutapani TC plants distribution, collection of tuber crops germplasm, collection of banana germplasm and selection of village for conducting nematode awareness training programme were done along with Sri Malludora, AEO and Sri Basavaraju, NGO.



## Scientific Advisory Committee (SAC) Meetings of Dr.YSRHU-KVKs



Scientific Advisory Committee (SAC) of KVK, VRGudem was conducted on 07.02.2023 in the presence of Dr.T.Janakiram, Hon'ble Vice Chancellor, DrYSRHU. Dr.A.R. Reddy, Principal Scientist, ICAR-ATARI, Hyderabad, Dr. Naram Naidu, Director of Research, Dr.YSRHU, Dr.E.Karunasree, Director of Extension, NABARD District Manager, Eluru, Department Officials, SAC committee members, progressive farmers, KVK scientists, participated and provided their valuable inputs for the betterment of action plan for the year 2023.

On 08.02.2023, Dr.YSRHU- KVK pandirimamidi conducted 11th Scientific Advisory Committee meeting under the chairmanship of Director of Extension, Dr. Karuna Sree. Dr A.R Reddy from ATARI, Hyderabad, representatives from all line departments, scientists, NGOs and farmers attended the program.



## Attracting and Retaining Youth in Agriculture (ARYA)

On 07.02.2023, Dr.YSRHU - KVK, Venkataramannagudem conducted the Success Meet of ARYA programme. Dr.A.R. Reddy, Principal Scientist, ATARI, Hyderabad and Dr. E. Karuna Sree, Director of Extension, DrYSRHU participated as Chief Guest and Guest of Honor. All the participants of the four enterprises participated and explained their success in respective enterprises. The critical inputs of the Backyard poultry, Goat/Sheep and Apairy projects were distributed to the participants. The programme was coordinated by the Nodal officers Dr.V.Deepthi, Dr.T.Vijaya Nirmala, Dr.K.Venkata Satish, G.Shali Raju and Dr.A.Devivaraprasad Reddy.



Dr.A.R. Reddy, Principal Scientist, ATARI, Hyderabad and Dr. E. Karuna Sree, Director of Extension, DrYSRHU participated as Chief Guest and Guest of Honor. All the participants of the four enterprises participated and explained their success in respective enterprises. The critical inputs of the Backyard poultry, Goat/Sheep and Apairy projects were distributed to the participants. The programme was coordinated by the Nodal officers Dr.V.Deepthi, Dr.T.Vijaya Nirmala, Dr.K.Venkata Satish, G.Shali Raju and Dr.A.Devivaraprasad Reddy.

## Phone-in-Programs under Farmers Advisory Cell of Dr YSRHU

Dr YSRHU-Farmers Advisory Cell organized the following Phone-in-Programs during the first fortnight of February, 2023 (3-4 PM).

Date	Topics	Scientist Name
01.03.2023	మునగ పంట సాగులో పాటించవలసిన	Sri.M. Mutyala Naidu Principal Scientist (Hort.) & Head HRS, Darsi
02.03.2023	పుట్టగొడుగులలో వివిధ రకాలు, వాటిని పెంచే విధానం, పోషక ఉపయోగాలు	Dr. B.S. Kanthi Sri, Scientist (Home Science), KVK, Vonipenta
03.03.2023	ఉసిరిలో నీటి యాజమాన్యం	Smt B.Vimala Scientist (Hort) HRS, Anantapuramu

04.03.2023	ఆహార పదార్థాల నాణ్యత లో తీసుకోవలసిన	Dr. P.C. Vengaiah Scientist (FST), HRS, Pandirimamidi
06.03.2023	అరటి సాగులో ఎగుమతి ప్రమాణాలు	Dr.T.Susila Sr. Sc. (Hort.) & Head BRS, Pulivendula
07.03.2023	సపోటా తోటలో చీడపీడల యాజమాన్యం	Dr.P. Sunitha Scientist (Ento.) HRS, VR Gudem
09.03.2023	వేసవిలో కోడిపిల్లల యాజమాన్యం	Dr. P.Manjari Scientist (Veterinary Sc.) KVK, Priyavaram
10.03.2023	ఇంటర్నెట్ ఆధారిత వ్యవసాయ సేవలు	Dr.R. Praveen Babu Scientist KVK, Pandirimamidi
13.03.2023	అరటిలో సమస్యాత్మకంగా మారుతున్న	Dr.A. Snehalatha Rani Scientist (Pl. Path.) HRS, Kovvur
14.03.2023	మిరపలో మేల్తైన యాజమాన్య పద్ధతులు	Dr.K.Giridhar Principal Scientist (Hort.) & Head HRS, Lam
15.03.2023	లాభసాటిగా పాడిపశువుల పెంపకం	Dr.T. Vijaya Nirmala Scientist (Veterinary Sc.) KVK, VR Gudem

### Technical support to RBK Channel

Following Scientists of Dr YSRHU are deputed for recording technical content at Integrated Call Centre, Gannavaram through RBK Channel during the February first fortnight, 2023.

Date	Topics	Scientist Name
03.02.23	ఉద్యాన పంటల్లో యాంత్రికరణ ప్రాముఖ్యత ప నిముట్ల వాడకం యాంత్రికరణ పరికరాలు ల భ్యత పై వివరణ (Farm mechanization in Horticulture)	Dr.N.V. Goutham Dikshithulu Scientist (Ag. Engg.) HRS, VR Gudem
06.02.23	పండ్ల తోటల్లో డ్రోన్ వంటి ఆధునిక పిచికారి యంత్రాల వినియోగం, డ్రోన్ల లభ్యత (Use of drone sprayers for fruit crops)	Dr. M. Raghavendra Reddy Scientist (SS&AC) KVK, VR Gudem

10.02.23	ఉద్యాన పంటల సాగులో పునరుత్పాదక శక్తి వనరుల వినియోగం (Importance of renewable energy and its application in cultivation of horticultural crops)	Dr.M. Naveen Kumar Scientist (Ag. Engg.) PHTRS, VR Gudem
13.02.23	కూరగాయలు మరియు పండ్లు కోత అనంతరం సాంకేతిక నిల్వ విధానాలు, మార్కెటింగ్ లో పాటించవలసిన చర్యలు (Post harvest technology for fruits and vegetables esp., storage and for marketing)	Dr.K.Venkata Satish Scientist (Hort.) KVK, VR Gudem

## HRD

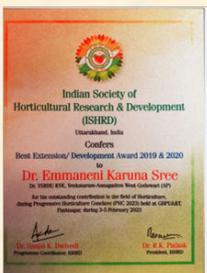
Smt. G. Rajeshwari, Assistant Professor (Ento), College of Horticulture, Anantharajupeta attended training programme on 'Plant Health Management in Horticultural Crops' organized by National Institute of Plant Health Management, Hyderabad from 30<sup>th</sup> January to 3<sup>rd</sup> February 2023.

## Meetings

On 13.02.2023, Dr. V. Govardhan Rao, Scientist (Pathology) participated in District Level Committee meeting conducted at District Collectrate of Dr. B. R. Ambedkar Konaseema district

## Awards

Dr. T. Janakiram, Hon'ble Vice-Chancellor, Dr.YSRHU, received Horticulture Leadership Award during Progressive Horticulture Conclave - 2023 at GB Panth University of Agriculture and Technology, Panthnagar, Uttarakhand organised by Indian Society of Horticulture Research and Development (ISHRD) on 03.02.2023.



Dr.E. Karuna Sree, Director of Extension, Dr.YSRHU, received Best Extension/ Development Award from Indian. Society of Horticulture Research and Development during the Progressive Horticultural Conclave 2023 at GBUAT, Panthnagar on 05.02.2023.

## Publications:

Kudichetty Sai Teja, G. Thanuja Sivaram, K.M. Yuvaraj, Lalitha Kadiri and M. Paratpara Rao. 2022. "Effect of different dates of sowing, organic manures on protein, fiber and alkaloid content in leaves and roots of ashwagandha (*Withania somnifera*)". The Pharma Innovation Journal 2022; 11(9): 522-52.

Jaya Keerthi, G. Thanuja Sivaram, P. Syam Sundar Reddy, V.N.P. Sivarama Krishna and V.V. Padmaja. 2022. Influence of pinching and foliar application of plant growth regulators and chemicals on growth and yield of annual moringa (*Moringa oleifera L.*) cv. PKM-1. The Pharma Innovation Journal 2022; 11(9): 1001-1004.

V.Anoosha, NBV Chalapathi Rao, A. Kireeti,, B. Neeraja, V. Govardhan Rao, G. Koteswara Rao, and B. Srinivasulu. Popular article on 'Rugose tella domanu samardavantam ga niyatrishunna mitra purugulu'.

*Patron:* **Dr T.Janakiram**, Vice-Chancellor  
*Editors:* **Dr.A.S.Padmavathamma**, Dean of Horticulture  
**Dr L. Naram Naidu**, Director of Research  
**Dr B.Srinivasulu**, Registrar  
**Dr E. Karuna Sree**, Director of Extension  
*Sub-Editor* : **Sri K.Ratna Kishore Babu**, Public Relations Officer  
**Dr Y.S.R. Horticultural University**  
**Administrative Office, Venkataramannagudem-534 101,**  
**West Godavari district, Andhra Pradesh**  
[Visit our website at https://drysrhu.ap.gov.in](https://drysrhu.ap.gov.in)