



## NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH

### Fortnight Focus

- The Events
- Education
- Research
- Extension
- General

TADEPALLIGUDEM ,W.G.Dist - 534101

## MEMORANDA OF UNDERSTANDING (MoU) BETWEEN



From Vice-Chancellor's Desk

### AP Regional Cluster Group Activities - Dr.YSRHU

The Andhra Pradesh State Council of Higher Education, the first of its kind in the country, set up as per the recommendations of the National Education Policy 1986, is primarily a coordinating body between the University Grants Commission (UGC), the State Government and the Universities.

Government of Andhra Pradesh has established Higher Education Planning Board to coordinate all the universities in the state of Andhra Pradesh and formulated Regional Cluster Groups. The Regional Cluster Group for the East and West Godavari Districts of the AP Higher Education Planning Board, comprising of AJYN – Adikavi Nannaya University; JNTU Kakinada; Dr. YSR Horticulture University and NIT Andhra Pradesh have entered MoU to foster inter-institutional cooperation in education, research and extension activities of common interest for mutual benefits.

Under this programme Dr.YSRHU have conducted awareness programmes on RBKs and Udyana Sandarshana – 2022. During Udyana Sandarshana-2022 students of Regional Cluster Group universities have visited Dr.YSRHU on 24.02.2022. Collaborative research projects on mutually agreed objectives and faculty exchange programmes are in progress.

**Dr T.Janakiram**  
Vice-Chancellor



## The Events

### Udyana Sandarshana -2022

Organized “Udyana Sandarashana-2022” at University campus, Venkataramannagudem on 24 February 2022 for the benefit of farmers, rural youth, women, VHAs/VAAAs of RBKs, field level extension personnel of Department of Horticulture and Agriculture, Government of Andhra Pradesh and students under Regional Cluster Group – AJYN activity. Prof. S.Teki, OSD, Adikavi Nannayya University visited as chief guest and inaugurated the exhibition stall in the presence of Hon’ble Vice-Chancellor, Dr. T.Janakiram. About 2000 nos. farmers and students from nearby schools and colleges have attended the programme. Dr.B.Srinivasulu, Director of Extension & Dr.R.V.S.K.Reddy, Director of Research coordinated the programme.



### Inauguration of Dr. B.P. Pal Rose Garden

At College of Horticulture, Venkataramannagudem Dr. T. Janakiram, Vice-Chancellor, Dr.YSRHU inaugurated the Dr. B.P. Pal Rose Garden on 25 February 2022. University Officers viz., Dr. A.S. Padmavathamma, Dean of Horticulture, Dr. K. Uma Jyothi, Dean of PG studies, Dr. R.V.S.K. Reddy, Director of Research, Dr. B. Srinivasulu, Director of Extension, Dr. K. Gopal, Registrar, Dr. A. Sujatha, Dean of Student Affairs and Dr. D.V. Swami, University Librarian, Dr Dhanunjaya Rao, Director of Industrial and International Programmes, Sri M.V.Mallikarjuna Rao, Estate Officer, Ms.S.Sasikala, Comptroller, Dr. M. Madhavi, Associate Dean, Teaching staff and PG students participated in the programme. Padma Vibhushan Dr. M.S. Swaminadhan garu has blessed the occasion through voice message, Dr. S. Edison, Former Director, CTCRI, Trivandrum, Dr. Narendra Dadlani, Former Director of Horticulture, Govt. of India, New Delhi, Dr. K.V. Prasad, Director, ICAR-Directorate of Floriculture Research, Pune, Dr. M.S. Veeraghavan, IAS (retd.), Famous Rose breeder, Kodaikanal, Mr. Sriram, Managing Director, Gopaldaswamy Iyengar Rose garden, Dr. P. Rama Krishna, Sir Arthur Cotton Nursery Men Association, Kadiyam have attended the function through virtual mode.

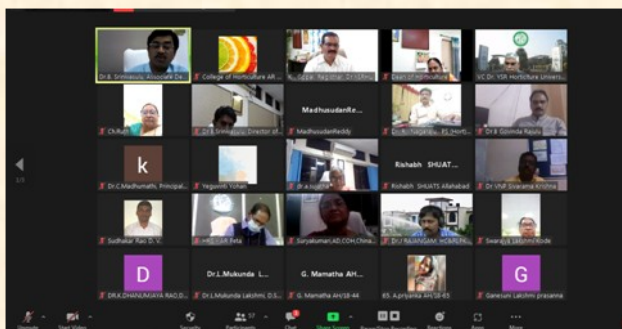




## Education

### Citrus Graduate Readiness programme

COH Anantharajupeta has organized the valedictory function of online Citrus Graduation Readiness Programme on 17 February 2022, Main objective of the webinar was to equip Agri Horti students in final year with in depth knowledge on citrus crop as the citrus crop is declared as Dr.YSRHU Year of Citrus 2021-22, by Dr. YSR Horticulture University.



Dr.B.Srinivasulu, Associate Dean and convener of the webinar, Welcomed the dignitaries and all participants, and presented a brief report and appraised that about 1450 students registered for the webinar from various universities. This program has 30 technical sessions conducted for a period of 10 weeks starting from 8 December 2021 to 17 February 2022, with three sessions per week by eminent scientists

from ICAR-Organizations viz. CCRI and IIHR and also from SAUs VIZ, ANGRAU, AAU, PDKV, TNAU and also from APMIP. APEDA, APFPSI and to interact with them. All Guest speakers expressed their appreciation to the Convener and the organizing team for providing a good platform and involving them in enriching the knowledge of the students. Assessment and feedback forms were collected and three quizzes were conducted to student participants. E-certificates were issued to the best participant, best performed students and best organizers.

Dr.T.Janakiram, Hon'ble Vice-chancellor, Dr.YSRHU addressed the participants, appreciated the organizers as guest of honour and the winners in quiz competition. He emphasized to equip the students with confidence by involving them in such programs to explore and sharpen their skills and to become future entrepreneurs. Dr. A. Padmavathamma, Dean of Horticulture, addressed the gathering, encouraged to conduct more such programs for the benefit of students.

#### Quiz I

Prize winners: Jagjit Singh, College of Horticulture and Forestry, PAU and Vaibhav Balasahebshekar, College of Agriculture, MPKV, Pune, Pavithra Kollur, Agricultural College, Bapatla, ANGRAU, and Rishab, Agricultural College, Allahabad, Sam Higginbottom university of Agricultural sciences,

#### Quiz II

Prize winners: Niharika Dhawan, and Jagjit Singh, College of Horticulture and Forestry, PAU, Golla Raghuvarun and D.Bhanuprasad, J.C.Diwakar Reddy Horticultural College, Dr.YSRHU.

#### Quiz III

Prize winners: Jagjit Singh, College of Horticulture and Forestry, PAU and B. Mounika, College of Horticulture, Chinnalatarapi and V.Siva Praneeth, College of Horticulture, Anantharajupwta, Dr.YSRHU. Dr.V.N.P.Sivarama Krishna Proposed formal vote of thanks for the session.



## NSS Special Camp

NSS Cell, College of Horticulture, Venkataramannagudem has conducted NSS Special Camp from 16 to 22 February 2022 with 140 NSS volunteers. As a part of the camp, NSS volunteers participated in cleaning the premises of Administrative Block, Hostels, Classrooms and roads in the campus, Kitchen garden preparation in the hostels as well as trained the villagers in adopted village Pulelappaadu on kitchen gradening and preparation of value added products



of fruits and vegetables such as Tomato Ketchup, Mixed fruit jam and grape squash. They have also conducted rallies creating awareness to the villagers of Pulelappaadu and Musallagunta on COVID, sanitation, girl education etc. Medical camp and Veterinary camp were conducted and also organized cultural programmes to educate the farmers on precautions to be taken while spraying pesticides and importance of organic farming etc. Valedictory session was conducted on 22-02-2022. Dr T. Janakiram, Honourable Vice Chancellor attended as Chief Guest and motivated the students. Dr.



A. Sujatha, Dean of Student Affairs and NSS Programme Coordinator and Dr A.S. Padmavathamma, Dean of Horticulture and Controller of Examinations addressed the gathering as guests of honour. The special camp was organized under the leadership of Dr. M. Madhavi, Associate Dean by the NSS Programme Officers Dr. D. R Salomi Suneetha, Professor, Dr. R. V. Sujatha, Associate Professor and Dr. A. Harshavardhan, Assistant Professor.

## Antiragging Awareness

An awareness meeting on Antiragging was organised by Dr. V. Sudha Vani, Officer Incharge Student Affairs with the senior students and faculty on 26.2.2022. Sri Ravi Kumar, Circle Inspector of Police, Tadepalligudem (Rural) attended the program and addressed the gathering. Dr. A. Sujatha, Dean of student Affairs and Dr. M. Madhavi, Associate Dean participated in the programme.



## Career Guidance

On 19 February 2022, a quiz competition and a lecture on Career Prospects in Banking Sector was Organized by Amulys Financial Literacy Centre Kandukur sponsored by Canara Bank. Prizes were distributed for the winners in quiz competition.



## Orientation Programme



Dr. M. Paratpara Rao, Associate Professor, OAM-UG organised orientation class for the newly admitted students of B.Sc. (Hons.) Horticulture first year regarding rules and regulations of the course under the chairmanship of Dr. M. Madhavi, Associate Dean. Teaching staff and students participated in the programme.



## Research

Dr. K. Umamaheswara Rao, Senior Scientist (Hort), CRS, Bapatla identified an early, cluster bearing, bold nut type accession from the farmer field, namely Sri. Bakka Venkata Swami at Kursakannagudem village of Kamayyakunta, Buttayagudem Mandal, West Godavari District on 18 February 2022.



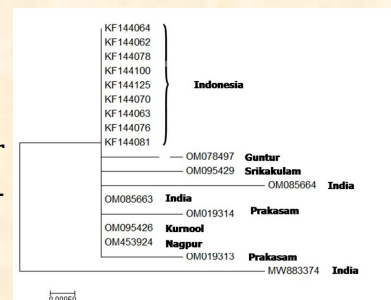
Severe infestation of Chilli by suspected black thrips was noticed in Kurnool district. The damage was to an extent of 35-60%. Though the farmers carried out regular spraying of pesticides, but still the damage continued. The specimens were collected by Dr. D. Srinivas Reddy, Sr.Scientist (Entomology), CRS, Tirupati from Peddapadu (15.8059° N, 77.9810° E), Kurnool and thrips species

were identified at ICAR-NBAIR, Bengaluru as *Thrips parvispinus*. These specimens were submitted to NCBI for receiving unique accession ID number. The following are the ID received from NCBI.



***Thrips parvispinus* Accession No.OM095426**

Phylogenetic tree constructed for black thrips compared with other regions from the NCBI DNA sequence data based on neighbour-joining method using MEGA 7.0 software



## Extension Activities

### Tribal Subplan

Dr. K. Umamaheswara Rao, Senior Scientist (Hort) visited the Kamayyakunta village of Buttaigudem Mandal, West Godavari District on 18 February 2022 along with VHA, Kamayyakunta village for inspection of area expansion programme of cashew under TSP programme sponsored by ICAR-DCR, Puttur and advised the farmers on Management practices of cashew during the summer months.



KVK, Venkataramannagudem as a part of demonstration of improved sheep and goat rearing practices to tribal farmers under Tribal Sub Plan (TSP) project on 18 February 2022, Dr.B.Srinivasulu, Director of Extension, Dr YSR Horticultural university distributed Sheep/Goat feeders to tribal farmers and encouraged adoption of improved goat breeds and management practices for better livelihood support of tribal farmers This program was coordinated by Dr.T.VijayaNirmala, Scientist (Veterinary Science), Dr.E.KarunaSree, Principal Scientist & Head and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, Venkataramannagudem.



## Vice-Chancellor to Village Activities

Dr. J. Dilip Babu, Principal Scientist (Hort.) & Head, Dr K. Umamaheswara Rao, Senior Scientist (Hort.), Dr. B. Nagendra Reddy, Scientist (Ento.), CRS, Bapatla and Ms. Yemalya, VHA visited the crossandra, ridge guard and chilli fields at Kavurivaripelem village of Chirala Mandal, Prakasam district on 16 February 2022 and suggested the control measures for thrips management in chilli.



On 24 February 2022, Ms. K Sravani Research Associate (Agri. Extension) and Dr. K Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavram visited ground nut field under CFLD-Oil seeds program at Siddavaram village (VC to village), Venkatagiri mandal. Observed Tobacco caterpillar and suggested to spray Thiodicarb@ 1 g/l (or) Novaluron @ 1ml/l.

On 25 February 2022, Dr. K. Mallikarjunarao, RA (Horticulture), KVK, Periyavaram conducted follow up visit in chilli fields at Siddavaram village (VC to village), Venkatagiri mandal. Created awareness on ICM practices in chilli and suggested to spray Plano-fix @1ml/4.5l to induce more flowering and to reduce flower and fruit drop. Later demonstrated installation of sticky traps to control sucking pests in chilli.



On 25 February 2022, Dr. K. Mallikarjunarao, RA (Horticulture), KVK, Periyavaram conducted follow up visit to brinjal field at Siddavaram village (VC to village), Venkatagiri mandal. Observed fruit and shoot borer and suggested to remove and destroy the infested shoot and fruits followed by spraying of neem oil (10000ppm) @3ml/liter.

Explained about ICM practices and demonstrated installation of pheromone traps and sticky traps to control fruit and shoot borer.

Dr. L. Mukunda Lakshmi, Sr. Scientist (Hort) and Dr. T. Rajasekharam Sr. Scientist (Path) conducted training programme on Mango along with Horticultural Officer and VHA at RBK, Durga Samudram on 19 February 2022 and also participated in Thotabadi programme. Noticed the mango stem borer damage in farmers field and suggested control measures.



On 24 February 2022, Dr. K Mallikarjunarao, Research Associate (Horticulture), KVK, Periyavaram conducted follow-up visit to okra field at Siddavaram village, Venkatagiri mandal. Enlightened the farmers regarding best management practices of Okra and suggested to install yellow sticky traps as a prophylactic measure to control white fly infestation.



Students from primary school of adopted village, Penakanametta visited HRS Kovvur on 24 February 2022 and Scientists of HRS, Kovvur briefed about the achievements of the station.



On 18 February 2022 Dr. V. Vijaya Bhaskar, Professor (hort), Dr.K. Jyothirmai Madhavi , Associate Professor (Pl.Path) and Dr. Venkata Ramana, Teaching Associate (Hort) conducted a training programme on cultivation of citrus and summer vegetables in the adopted village of oguru, Kandukur mandal. Dr. V. Vijaya Bhaskar, Professor (Hort) explained the importance and profitability of citrus cultivation in the region. Dr. M. Venkata Ramana, Teaching Associate (Hort.) explained the steps in the cultivation of summer vegetables. Dr. K. Jyothirmai Madhavi , Associate professor (Pl. Path) explained about the control of pests and diseases in different horticultural crops. Horticultural Officer, Kandukur and VAA, RBK participated in the programme.

An Interaction meet was conducted by CRS petlur with GK Palli adopted village farmers on important measures to be taken for summer acid lime crop and Sri Sumanth, Agricultural officer, Venkatagiri explained about paddy and ground nut cultivation. GK palli farmers formed a Adharsh farmer group with the assistance of Agricultural officer and Srinivas TVS trust on 19 February 2022.



Dr. M. Janaki, Scientist (Hort.) & Head visited the adopted village “Kattamuru” on 21 February 2022. Inspected brinjal, bhendi and oil palm fields and observed white fly, hoppers in brinjal and aphids in bhendi and rugose white fly in oil palm field and suggested remedial measures.

### Method Demonstrations

Dr. K. Venkata Subbaiah Scientist (Horticulture), KVK, Venkataramannagudem has conducted demonstration on usage of Basket press for extraction of cashew apple juice and also distributed the same to Tribal women group under ARYA project on 17 February 2022 for promoting cashew apple processing in tribal areas.



On 17 February 2022, KVK, Venkataramannagudem conducted demonstration on pinning of *Dichochrysa astur* eggs as biological control measure in Coconut and Oil palm orchards for controlling the infestation of Rugose Spiralling White fly (RSW) at Dippakayalapadu village and distributed the same to coconut and oil palm farmers.



## Training Programmes

Dr. K. Jyothirmai Madhavi, Associate Professor (Pl. Path), CoH, Chinalataripi conducted training programme on 17 February 2022 on “Incidence of pest and disease during mango flowering and fruit set” in Ulavapadu Village of Ulavapadu Mandal, and Paluru and Dondapadu villages of Kandukur Mandal, along with Horticulture Officer Kandukur.



Dr.T.Rajasekharam, Senior Scientist (PP), CRS, Tirupati attended farmers and APMAS Extension Staff training programme on Integrated Diseases Management of Vegetables on 26 February 2022 at Kuraganipalli Village, Valmikipuram, Vayalapadu Mandal, Chittoor District.

HRS, V.R.Gudem conducted one day training programme on “Mango and acid lime cultivation aspects and distributed inputs to the tribal farmers of Mitlapalem village of Addateegala mandal under Tribal subplan of AICRP on fruits” on 21 February 2022 and also delivered management aspects of CSRB in cashew nut. Dr.P.Ashok, Senior Scientist (Hort.) & Head, Dr. B. Ramesh Babu, Senior Scientist (Hort.) coordinated the programme.



HRS, V.R.Gudem conducted two days training programme on “Value addition in Jackfruit” at Conference hall, HRS, V.R.Gudem on 25<sup>th</sup> and 26<sup>th</sup> February, 2022. And all Scientific staff of HRS, V.R.Gudem have participated. Dr.P.Ashok, Senior Scientist (Hort.) & Head, Dr. B. Ramesh Babu, Senior Scientist (Hort.) coordinated the programme.

On 19 February 2022, Dr. N.B.V.Chalapathi Rao, Principal Scientist (Entomology) and Dr. D. Deveika Rani, RA (Ent.) visited to Makarapuram village Sompeta mandal and Jadipudi in Kanchali mandal of Srikakulam district to create awareness on bio control based management of coconut Black headed caterpillar *Opisina arenosella* and distributed 12000 *Goniozus nephantidis* parasitoid for release in black headed caterpillar *Opisina arenosella* infested garden and explained in detail about the role and importance biological control in coconut.

On 28 February 2022, KVK, Pandirimamidi has conducted skill development training programme on millet based biscuit making to the tribal women. In this training programme practical sessions conducted on jonna, ragi, multigrain biscuit making and also explained about importance of millets. Total 15 tribal women participated in the programme.





KVK, Venkataramannagudem conducted three days training program on “Integrated livestock farming for economic viability and sustainability” from 17 to 19 February 2022 to the tribal farmers from Ravigudem, Seethappagudem, Pandugudem and East Rekulakunta villages in Buttaigudem mandal. The participants were exposed to various topics related to different improved fodder varieties and fodder preservation techniques, Disease management in livestock and poultry, scientific management of cattle and buffalo, Sheep and goat farming, Poultry and duckery as component of IFS, Importance of bee keeping and horticultural crops on pond dyke, fish farming. Practical visit to Buffalo Research Station, SVVU, VRGudem and livestock units, IFS units of KVK. In Valedictory program, Dr.B.Srinivasulu, Director of Extension, Dr YSR Horticultural University participated as Chief guest and released pamphlet on “Arthikasusthirathaku sameekrutha pashu yajamanaya paddathulu” and distributed certificates and fodder seed CoFS 29 to dairy farmers. This program was coordinated by Dr.T.Vijaya Nirmala, Scientist (Veterinary Science) and Dr.E.Karunasree, Principal Scientist & Head, KVK, Venkataramannagudem. In this program Dr. A. Devivaraprasad Reddy, Scientist (Fishery Science), Dr.K.Venkata Subbaiah, Scientist (Horticulture), Dr.A.Suresh , VAS, Nuthiramannapalem, Dr.K.AnandRao, Principal Scientist & Head, BRS and 40 farmers have participated.



KVK, Venkataramannagudem has conducted 7 Days skill training program on Scientific BeeKeeping from 21 to 27 February 2022. Technical sessions like Importance of Honey in Human Health, Bee forage, Bee hive tools and equipments, Bee hive Products and flow management, Nurturing various types of Honey bees, Value added products with honey and bee hive products were explained to the trainees. In this program, Dr.B.Srinivasulu, Director of Extension, has interacted with the participants on 25 February 2022 and explained about the importance of apiculture activity for yield enhancement in Horticultural crops and also took the feedback from them. On 27 February 2022 Dr.E.KarunaSree, Principal Scientist& Head and Dr.A.Devivaraprasad Reddy, Scientist has conducted the valedictory and registration of Beekeepers into MadhuKranthi Portal was completed for four upcoming Beekeepers who has attended the training programme.



**Health Camp**

On 18 February 2022, Dr.T.VijayaNirmala, Scientist (Veterinary Science) KVK, Venkataramannagudem conducted health camp to poultry birds at Ravigudem village along with Dr.A.Suresh, Veterinary Assistant Surgeon (VAS), Dept. of Animal Husbandry, Nuthiramannapalem. Supplied the required medication to avoid seasonal diseases in poultry flock.

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## Front Line Demonstrations



On 17 February 2022, Dr.P.Lalita Kameswari Principal Scientist & Head and Dr.S.Adarsha Scientist (Entomology), KVK, Pandirimamidi visited Bengalgram var. NBeG 452 fields at Jagannadhapuram village of Korukonda mandal. Crop is at flowering stage. Recommended for application of pulse wonder @ 2kg/ acre for yield improvement. 9 farmers participated in the visit.

Dr.E.Karunasree Principal Scientist & Head and Dr.V.Deepthi Scientist (Agril Extension), KVK, Venkataramannagudem explained about the method of development of bio-control agents for using in sesamum fields on 22 February 2022 and provided the critical inputs i.e. Neem cake, and bio control agents to Singarajupalem and marlamudi farmers as part of CFLD on sesamum var YLM-66 under NFSM-CFLDs-Oilseeds – 2021-22.



On 16 February 2022, Dr. Srividya Rani N, Scientist & Head and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited CFLD Oil seeds Sesame fields cultivated under NFSM – 2021 sponsored by ICAR-ATARI, Zone X, Hyderabad. Scientists observed incidence of sucking pest complex and suggested to spray chlorpyrifos @ 0.25% or

Acephate @ 0.15% and provided chlorpyrifos to beneficiary farmers.

On 17 February 2022, Dr. V. Nagarjuna, Research Associate (Soil Science) and Ms. K. Prasindhu, Research Associate (Plant Protection), KVK, Vonipenta conducted follow-up visit for CFLD-Oilseeds (Groundnut) in the farmer fields at Mittamanupalli village of Mydukur mandal. The scientist collected the information and observed the germination of crop at farmer fields



On 26 February 2022, Dr. V. Nagarjuna, Research Associate (Soil Science) and Ms. K. Prasindhu, Research Associate (Plant Protection), KVK, Vonipenta conducted follow-up visit for CFLD-Oilseeds (sesame) in farmer fields at Mittamanupalli village of Mydukur mandal. The scientists suggested to spray Neem oil @ 5 ml /lit for reduction of pest infestation.



## Soil Samples

On 21 February 2022, Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta collected the soil sample in farmer fields at Papanapalli village of Mydukur mandal. The scientist explained the procedure for collecting the soil sample (surface and profile sample methods) quadrat method and labeling the soil sample at farmer fields.



## Thota Badi

Eight Village Horticulture Assistants and Horticulture Officer, Peddapuram have visited HRS, Peddapuram as part of Polambadi programme on 19 February 2022. Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram explained about improved varieties of cassava and sweet potato.





## ICAR SC Subplan

On 28 February 2022, Dr. V. Govardhan Rao, Scientist (Pl.Path.), HRS, Ambajipeta proceeded to adopted village Mamidikuduru village for distribution of cocoa seedlings and other inputs to SC beneficiaries under ICAR – AICRP on Palms, SC Sub Plan 2021-22.



On 25 February 2022, Dr. S. Lavanya, Research Associate (Livestock production) and Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited Black Bengal Goats under ICAR- SC Subplan- 2021 at Vonipenta village of Mydukur mandal. Dr. S. Lavanya observed that both male and female goats appeared in good health condition and explained about feeding and summer management practices of goats.

On 25 February 2022, Dr. S. Lavanya, Research Associate (Livestock production) and Dr. V. Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta visited to Black Bengal Goats under ICAR- SC Subplan- 2021 at Adireddypalli village of Mydukur mandal. Farmer told that Doe (Female Black bengal goat) gave birth to two kids (female and male). Dr. S. Lavanya observed that female kid is healthy with good body weight but male kid shows underweight compared to normal healthy kid and unable to drink milk. Scientist suggested that farmer should help male kid to suck the milk.

Principal Investigator of SCSP Dr. N. Emmanuel, Associate Professor (Entomology), Dr. Ch. Chinnabbai, Associate Professor (Entomology) and Dr. B. Chennakesavulu, Associate Professor (Ag. Engineering) conducted an Entrepreneur training programme on the Production of Biocontrol agents at CoH, Venkataramannagudem under ICAR SCSP IPM Project on 26 February 2022. Progressive farmers participated in the programme.



Under ICAR- AICRP (fruits), Scheduled-caste sub plan programme, sweet orange budlings and acid lime seedlings were distributed to beneficiaries of Mukuvarapalli on 01.02.2022 and follow up was carried out by CRS, Scientists on 24 February 2022 for planting of the supplied planting material.



Under ICAR- AICRP (fruits), Scheduled-caste sub plan programme, tissue culture plants of Nellore Amruthpani were distributed to beneficiaries of ZHDC colony of Obulavarapalli mandal on 23.02.2022 and follow up was carried out by CRS, Scientists on 24 February 2022 for planting of the supplied planting material.

To implement ICAR- AICRP-fruits technologies (acidlime flower regulation, bunch management, INM in banana) in growers orchards, inputs (fertilizers, pesticides, banana bunch sleeves) were distributed and accordingly to understand its impact, Dr.L. Mukundalakshmi, Dr.D.Srinivas Reddy and Dr.T. Rajasekharam visited and interacted with banana and citrus growers in Obulavara-palli mandal on 24 February 2022 under SCSP programme.





Dr. K. Umamaheswara Rao, Senior Scientist (Hort.) visited the Kalrayinigudem, Ayyaparajugudem, K. Gokavaram, Annapaneni-varigudem villages of Lingapalem Mandal, West Godavari district for inspection of area expansion programme of cashew under SCSP programme sponsored by ICAR-DCR, Puttur on 17 February 2022 along with VHAs of respected villages and Farmers.



As part of the SC-Sub plan (ICAR) project-“Quality vegetable seedling production under shade net for doubling the farm income”, capacity building training program was conducted to the farmers at CoH, Anantharajupeta on 22 February 2022. Seventy farmers along with twenty beneficiary SC farmers from Railway Kodurmandal attended the training programme. Farmers were trained in advances in vegetable nursery production and protection techniques. Training kits including participation certificates, water soluble fertilizers, Protrays, Sprayers and plant protection chemicals were distributed to the beneficiary farmers. Eight Vermicompost units were distributed to the interested farmers. Dr. A. S. Padmavathamma, Dean of Horticulture, Dr YSRHU addressed the farmers virtually. Dr. B. Srinivasulu , Associate Dean, Dr. K.T. Venkataramana, Zonal Research Head, Rayalaseema zone, MDO Rly Kodur, Dr. P. Syam Sundar Reddy, Principle-Investigatior and other teaching faculty and PG students attended the programme.

### Diagnostic Visits

Dr.Ch. Ruth, Professor (Pl. Path), Dr.Arunodayam, Asst. Professor (Pl.Path) and Dr.K.Swarajya Lakshmi, Professor (Hort.), CoH, Anantharajupeta visited Mango gardens in Settigunta (v), Kodur (m) on 21 February 2022, which are in blooming stage. Noticed shoot borer, Hopper & sooty mold incidence, thrips, and Anthracnose incidence and suggested to spray Carbendazim 1g+spinosad 0.4ml+neem oil 1500ppm 3ml/l along with sticking agent sandovit 0.5 ml/l of water. For control of insect pest damage after flower opening it was recommended to spray Buprofezin 1.5 ml or Thiamethoxam 0.3 g/l of water.

Dr.K.Swarajya Lakshmi, Professor (Hort.) and Dr.Ch. Ruth, Professor (Pl.Path), CoH, Anantharajupeta visited papaya garden on 16 February 2022. Suggested to apply FYM and spraying of multi K 3g/ li of water for better growth of plants. Observed sucking pests like whiteflies & thrips, and suggested to spray dimethoate@2 ml/ l of water.



Dr.C.Madhumathi, Principal Scientist (Hort.) & Head, Dr.M.Kavitha, Senior Scientist (PP) and Dr.L.Ranjith Kumar, Scientist (Entomology) from Citrus research station, attended as resource persons in the training programme on “Cultivation practices in acid lime on acid lime” at R.Y.Palem Village. Department officials of ATMA PD, ADH in Nellore Horticultural officers of Podalakuru mandal coordinated the training and explained about various schemes in Horticulture on 16 February 2022.



On 18 February 2022, Dr.T.Vijaya Nirmala, Scientist (Veterinary Science) KVK, Venkataramannagudem conducted diagnostic visit to 500 birds capacity backyard poultry farm at Puliramannagudem village, Buttaigudem mandal and observed small sized eggs and suggested that calcium supplementation @4% to laying stage birds.



On 16 February 2022, Dr. Srividya Rani N, Scientist and Head (Extension) and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta had visited sweet orange fields for diagnosis of pests, diseases and nutrient deficiency at Peddachepalle village of Kamalapuram mandal. The scientists identified cercospora leaf spot and suggested for foliar application of Car-

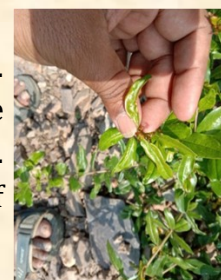
bendazim @ 0.1%.

On 17 February 2022, Dr. V. Nagarjuna, Research Associate (Soil Science) and Ms. K. Prasindhu, Research Associate (Plant Protection), KVK, Vonipenta conducted diagnostic field visit in Chilli fields for diagnosis of pests and diseases at Mittamanupalli village of Mydukur mandal. The scientist identified viral disease and suggested to spray Acetamiprid @ 0.2 gm/lit or Fipronil @ 2 ml/lit for controlling the insect vector.



On 21 February 2022, Dr. Srividya Rani N, Scientist and Head (Extension) and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited sweet orange fields for diagnosis of pests, diseases and nutrient deficiency at Thotlapalli village of B.Mattam mandal. During the visit scientists explained about Nutrient and pest management at initial stage of crop growth.

On 21 February 2022, Dr. Srividya Rani N, Scientist and Head (Extension) and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Pomegranate fields for diagnosis of pests and diseases at Thotlapalli village of B.Mattam mandal. During the visit scientist identified Aphid infestation and suggested foliar spray of Dimethoate @ 0.2% or Methyl demeton @ 0.2%.



On 21 February 2022, Dr. Srividya Rani N, Scientist and Head (Extension) and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Mango fields for diagnosis of pests, diseases and nutrient deficiency at Lingaladinne village of B.Mattam mandal. During the visit scientist observed the Zinc deficiency and suggested to spray Zinc Sulphate @ 5g/lit to correct the nutrient deficiency twice at 7

days interval.



On 26 February 2022, Dr.B.Govinda Rajulu Principal Scientist (PP) & Head and K.Sravani, Research associate (Agriculture Extension), KVK, Periyavaram visited acid lime orchards in Daggavolu village, Dakkali mandal and identified Felt and pink diseases as major problems and suggested to spray Mancozeb @2g/l for control of felt disease and pruning of pink disease infected twigs followed by spraying with hexaconazole@ 2ml/lit of water.



Dr.V.Deepthi, Scientist (Agricultural Extension), KVK, Venkataramannagudem conducted diagnostic visits to organic farming fields in sesame under cluster frontline demonstration programme on 16 February 2022 in Singarajupalem village and suggested for timely management of pests and diseases through integrated organic farming methods.

On 21 February 2022, Dr. Srividya Rani N, Scientist and Head (Extension) and Dr. V. Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited guava fields for diagnosis of pests, diseases and nutrient deficiency at Lingaladinne village of B.Mattam mandal. During the visit Scientists explained about pruning techniques in Guava and also observed mealybug infestation. Suggested to spray Profenophos @ 2ml/l.



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

Dr YSRHU-Farmers Advisory Cell organized the following Phone-in-Programs during the second fortnight of February, 2022 (3-4 PM).

Date	Topics
16.02.2022	మిరప పంటలను ఆశించు పురుగులు మరియు యాజమాన్యం డా.కె.శిరీష, సీనియర్ శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, లాం
17.02.2022	మామిడి పూత సకాలంలో రావడానికి మరియు పూత, పిందె రాలుటను అరికట్టడానికి చేపట్టవలసిన ముఖ్యమైన యాజమాన్య పద్ధతులు డా.ఆర్.రాజ్యలక్ష్మి, ప్రధాన శాస్త్రవేత్త ,మామిడి పరిశోధన స్థానం ,నూజివీడు
18.02.2022	సేంద్రియ ఎరువుల తయారీ / వినియోగం డా.వి.దీప్తి ,శాస్త్రవేత్త, కె.వి.కె, వెంకటరామన్నగూడెం
19.02.2022	కొబ్బరిలో అంతర పంటల సాగు డా.ఇ.పద్మ, ఉద్యాన కళాశాల, వెంకటరామన్నగూడెం
21.02.2022	నిమ్మ తోటల్లో కలుపు యాజమాన్యం డా.బి.ప్రతాప్, సీనియర్ శాస్త్రవేత్త, చీని ,నిమ్మ పరిశోధన స్థానం ,పెట్లూరు
22.02.2022	పుట్టగొడుగుల సాగు శ్రీ.బి.శాలిరాజు ,శాస్త్రవేత్త, కె.వి.కె, వెంకటరామన్నగూడెం



Date	Topics
23.02.2022	వేసవిలో కొత్తిమీర సాగు డా.కె.గిరిధర్ ,సీనియర్ శాస్త్రవేత్త, ఉద్యాన పరిశోధన స్థానం, లాం
24.02.2022	జీవన ఎరువుల ప్రాముఖ్యత డా.పి.రమాదేవి, ప్రొఫెసర్, ఉద్యాన కళాశాల, వెంకటరామన్నగూడెం
25.02.2022	సమీకృత చేపల పెంపకం డా.ఎ.దేవివరప్రసాద్ రెడ్డి ,శాస్త్రవేత్త, కె.వి.కె, వెంకటరామన్నగూడెం
26.02.2022	పాడిపశువులలో మేత యాజమాన్యం డా.టి.విజయ నిర్మల ,శాస్త్రవేత్త, కె.వి.కె, వెంకటరామన్నగూడెం
28.02.2022	చీని, నిమ్మలో పూత, పిందె దశలో యాజమాన్యం డా.ఎల్.ముకుందలక్ష్మి ,సీనియర్ శాస్త్రవేత్త, చీని ,నిమ్మ పరిశోధన స్థానం ,తిరుపతి

### **“Udyana Vani” programs under Farmers Advisory Cell of Dr YSRHU**

Dr YSRHU-Farmers Advisory Cell organized the following “Udyana Vani” Programs during the second fortnight of February, 2022.

Date	Topics
16.02.2022	వాతావరణ సూచనలు; ఫిబ్రవరి మాసంలో పూల తోటలలో చేపట్టవలసిన పనులు; తోటకూర, పాలకూర & కొత్తిమీర సాగులో మెళకువలు
17.02.2022	ఉద్యాన మరియు వ్యవసాయ పంటలలో పాటించవలసిన మెళకువలు
18.02.2022	దానిమ్మ సాగులో మెళకువలు
19.02.2022	చేమగడ్డ, బీట్‌రూట్, ఉల్లిగడ్డ సాగులో మెళకువలు
21.02.2022	సుగంధ ద్రవ్య పంటలలో చేపట్టవలసిన పనులు; పనస సాగులో మెళకువలు
22.02.2022	చీని, నిమ్మ సాగులో మెళకువలు
23.02.2022	ఫిబ్రవరి మాసంలో వివిధ పండ్ల తోటల నందు చేపట్టవలసిన పనులు సూచనలు
24.02.2022	ఫాషన్ ఫ్రూట్, వాక్యాయ సాగులో యాజమాన్య పద్ధతులు, సస్యరక్షణ చర్యలు
25.02.2022	కర్ర పెండలం సాగులో మెళకువలు
26.02.2022	చేమగడ్డ, చిలగడ దుంప, పెండలం సాగులో మెళకువలు
28.02.2022	చీని, నిమ్మ సాగులో మెళకువలు

### **Phone-in-Live Programmes**

Dr.B.K.M.Lakshmi, Principal Scientist (Pl. Path.) & Head, MRS, Nuzvid attended All India Radio programme recording on “Disease management in mango during flowering” on 18 February 2022



## 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 second fortnight of February, 2022.

Date	Topic	Scientist Name
21.03.22	ఆయిల్ పామ్ సాగులో మేలైన యాజమాన్యం	Dr.M.Tirupati Reddy, Principal Scientist & Head, HRS, Vijayarai
25.03.22	చౌడు నేలలో పండించు ఉద్యాన వన పంటలు – తీసుకోవాల్సిన జాగ్రత్తలు	Sri P.Rajashekhar, Scientist, KVK, Pandirimamidi
28.03.22	వేసవిలో టమాట సాగు మరియు తెగుళ్ళ యాజమాన్యం	Dr.T.Nagalakshmi, Senior Scientist, HRS, Venkataramannagudem

## General

### Meetings

Dr.R.V.S.K.Reddy, Director of Research attended National Science Day-2022 as eminent guest and addressed the students on the theme-“Integrated approach in science and technology for sustainable future” organized by University College of Science & Technology, Adikavi Nannaya University, Rajamahendravaram on 28 February 2022. Dr.Mokka Jagannadharao, Hon’ble Vice-Chancellor, ANU was the chief guest and Dr.K.Ramaneswari, Principal, University College of Science & Technology presided over the function.

Dr. K. Umamaheswara Rao, Senior Scientist (Hort.) and Dr. B. Nagendra Reddy Scientist (Entomology) attended the virtual meeting on “Is Cashew Farming Profitable” on 25 February 2022 Organized by ICAR-DCR, Puttur.

Dr. K. Umamaheswara Rao, Senior Scientist (Hort) and Dr. B. Nagendra Reddy Scientist (Ento) attended the training programme on Cashew Production and Post Harvest Technologies from 16<sup>th</sup> – 18 February, 2022 organized by ICAR- DCR, Puttur under the sponsorship of MANAGE, Hyderabad.

Dr.K.Ravindra Kumar, Sr. Scientist (Hort.) participated as Horticulture advisory member in Scientific advisory committee meeting of ICAR-KVK, Kalvacharla in the seminar hall of CTRI, Rajahamundry on 26 February 2022 and advised in formulating OFT and FLDs under horticultural component.

On 24 February 2022, Dr.K.Ravindra Kumar, Sr. Scientist (Hort.), HRS, Kovvur participated in National Symposium on Ornamental and Edible Horticulture: Emerging challenges and sustainable goals in virtual mode organized by BCKV, Mohanpur, West Bengal from 21-22<sup>nd</sup> February 2022 and presented lead talk entitled “Micro-propagation of Ornamental Plants: A Critical Review on Recent Advances and “*In vitro* isolation of solid novel flower colour mutant in Chrysanthemum (*Dendranthema x grandiflora* (Ramat.) through ray floret regeneration

Dr. K. Mamatha, Principal Scientist (Hort.), HRS, Kovvur participated in the Short course “Novel processing and value addition technologies for augmenting entrepreneurial opportunities in Tuber crops by ICAR – CTCRI, Thiruvananthapuram from 15 to 24 February 2022.



Dr. R. Nagaraju, Principal Scientist (Hort) & Head attended Scientific Advisory Committee meeting conducted by RAAS, KVK, Karakambadi, Chittoor (Dist) on 21 February 2022 to review work done report for the year 2021-2022 and action plan for 2022-23 and suggested the research priorities to be included.

Dr. D. Srinivasa Reddy, Senior Scientist (Ent), CRS, Tirupati attended District level workshop on preparation of DRC action plan 2022-23 organized by Project Director, ATMA and Head of DRC, Chittoor at JDA office, Chittoor on 26 February 2022.

On 25 February 2022, N.B.V. Chalapathi Rao, Principal Scientist (Ent.) and Dr. D. Deveika Rani, RA (Ent.) attended the entomology programme technical Review meeting and presented the work done report of the experiments for the year 2021-2022 virtually.

On 26 February 2022, Dr. V. Govardhan Rao, Scientist (Pl.Path.) participated in Scientific Advisory Committee (SAC) meeting for the year 2021-22 organized by Krishi Vigyan Kendra, Kalavacharla, held at CTRI, Rajahmundry, East Godavari district.

On 24 February 2022, Dr. V. Nagarjuna, Research Associate (Soil Science) from Krishi Vigyan Kendra, Vonipenta attended the District level workshop on preparation of DRC action plan for the year 2022-23 at ARS, Utukur conducted by ATMA. The Scientist suggested the remunerative crops and cropping sequence suitable for *Kharif* and *Rabi* seasons and also explained the management practices to be followed under heavy rainfall conditions. Sri. Murali Krishna, JDA and Dr.S.Vijaya Lakshmi, P.D, ATMA, ADA and AOs attended the workshop.

Dr. V. Sudha Vani, EL University coordinator attended a meeting with new ELP proposals conducted by ICAR ELP Cell on 28 February 2022. Two proposals on Natural farming by Dr. K. Usha Kumari and on bee keeping by Dr. N. Emmanuel were presented from college of Horticulture VR Gudem

### Visits

AELP students from Agricultural College, Bapatla visited CRS, Bapatla on 19 February 2022 for Training on Cashew Grafts Production under AELP and they were explained about the grafting techniques, pest and diseases in cashew nursery by Dr. K. Umamaheswara Rao, Senior Scientist (Hort) and Dr. B. Nagendra Reddy Scientist (Ento).



On 24 February 2022, Dr. G. Ramanandam, Principal Scientist (Hort.) & Head, Dr.K.Ravindra Kumar, Sr. Scientist (Hort.) along with CSIR 4PI Scientists visited coconut gardens and banana gardens at Kalvacharla and Kovvur for developing mathematical models for yield and disease prediction. Dr.Ramesh and Dr.Rakesh, CSIR 4PI Scientists from Bangalore interacted with

HRS, Kovvur staff on data recording and other parameters.

Honourable MLA Sri.Meka Venkata Pratap Apparao garu along with farmers visited Rejuvenation block and Baneshan variety block at Mango Research Station and discussed with the scientists on fruit retention in mango varieties and measures to be taken to retain the flowering in this season on 19 February 2022.





Sri. Girish Krishnamoorthy, CEO, TATA Medical and diagnostic Ltd. and Director TATA Indian Institute of Skills visited Citrus Research Station, Tirupati on 19 February 2022 and discussed about various ongoing Research projects, University activities and discussed about TTD & Dr. YSRHU value addition skill training centre activities taken up at CRS, Tirupati and visited skill training activity centre and interacted with trainees about the drying techniques followed to prepare Sri Venkateswara swamy vari images and different resin made products and about the monthly income that they were earning through the activity and spoke with Dr. T. Janakiram, Hon'ble Vice Chancellor, Dr YSRHU through phone and appreciated the efforts made for Women empowerment through Skill development programmes.



Dr. B.M.K. Reddy, Chairman, Andhra Pradesh State Biodiversity Board visited CRS, Tirupati on 26 February 2022 and visited laboratories, germplasm block, sweet orange screen house mother block and TTD & Dr. YSRHU skill training centre, CRS, Tirupati and interacted with women trainees

On 23 February 2022, Dr. Ravi Bhat, Project Coordinator (Palms) and Dr. Subramanyam, Principal Scientist (Agronomy) from CPCRI has visited HRS, Ambajipeta and reviewed the research of AICRP Palms followed by field visit and surveyed sea coast mandals for coconut based cropping system to identify the perennial horticultural crops, which can sustain cyclone winds in East and West Godavari districts. Dr. B.V.K. Bhagavan, Principal Scientist (Hort.) & Head accompanied them. Further the team also visited the unusual death affected coconut gardens in Billakurru village of Kothapeta mandal, Andhra Pradesh and suggested further investigations to be taken up.



On 19 February 2022, SBVR Agricultural college, Badvel, Second year B.Sc. Agriculture students visited KVK, Vonipenta as a part of exposure cum awareness visit. Dr. V. Yugandhar, Research Associate (Horticulture), Dr. V. Nagarjuna, Research Associate (Soil Science) and K. Prasindhu, Research Associate (Plant Protection) interacted with the students and explained about the KVK activities.

Dr. V. Yugandhar, Research Associate, (Horticulture) coordinated the programme and explained the cultivation aspects of horticultural crops and students were exposed to different KVK demonstration units like Mango, Guava, Pomegranate, Custard apple, Papaya, Sweet orange, Acid lime, Dragon fruit.

On 25 February 2022, B.Sc (Horticulture) final year students visited the HRS, Ambajipeta and Smt. B. Neeraja. Scientist (Pl Path), Kireeti, Research associate (Hort.), Dr. G. Koteswara Rao, Research Associate (Hort.) and Dr. D Devika Rani, RA (Ent.) explained in detail about coconut and cocoa production and protection aspects to the students.





On 28 February 2022, Students of Sri Chaitanya Children's Academy, Tirupati, Visited KVK, Periyavaram on the eve of National Science Day - 2022. Dr. B. GovindhaRajulu, Principal Scientist and Head acknowledged students regarding the activities of KVK. Dr. K Mallikarjunarao, Research Associate (Horticulture) explained about the importance of horticulture crops and various Demonstration units of KVK. About 100 students along with the staff have participated.



On 25 February 2022, Scientists of CSIR Bangalore visited HRS, Ambajipeta and farmers Field under the project design and development of hybrid modelling systems for selected crops. Scientists Dr.V. Govardhan Rao (Pl.Path) and Smt. B. Neeraja (Pl.Path) and Research Associates Sri. A. Kireeti and Dr. D. Devika Rani, accompanied the team.

### **Publications**

Venkata Sathya Sai Kumar K., Ramaiah M, Sarada G, Chalam NSB, Ruth Ch and Swarajya Lakshmi, K. (2022). Bio- Systematics of leaf hoppers in selected vegetable, flower, spice crops. The Pharma innovation journal, 11 (1)16-27 pp.



*Patron:* **Dr T.Janakiram**, Vice-Chancellor

*Editors:* **Dr B. Srinivasulu**, Director of Extension  
**Dr R.V.S.K.Reddy**, Director of Research  
**Dr K.Gopal**, Registrar

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**Dr Y.S.R. Horticultural University**

**Administrative Office, Venkataramannagudem-534 101,  
West Godavari district, Andhra Pradesh**

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