



Dr YSRHU e-Newsletter

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



Vol.VII, Issue-1

Dr YSRHU e-Newsletter

1-15 January 2021

Fortnight Focus

- Events
- Education
- Research
- Extension
- General

From Vice-Chancellor's Desk

Six New Initiatives in Six months

HAPPY NEW YEAR - 2021

Dr YSR Horticultural University is functioning with a mandate to develop human resource through Education, Research and Extension. The following new initiatives in Dr YSRHU extension are created for effective and timely transfer of technologies / advisories to farmers, rural youth and women, Village Horticulture / Agriculture Assistants of RBKs and field level extension officers of Department of Horticulture and Agriculture, Government of Andhra Pradesh.

1. **Farmers Advisory Cell (FAC):** Created at University head quarters, Venkataramannagudem on 06.07.2020. FAC (Mobile No. 96180 21200) is regularly providing advisories, organised 17 webinars.
2. **Plant Protection Advisory Cell (PPAC):** Created at University head quarters, Venkataramannagudem on 16.07.2020. PPAC in addition to regular advisories on pest and disease forecasting and plant protection advisories, organised 4 webinars and National Symposium on "Advances in Phytopathology".
3. **Phone-in Programmes:** 123 daily Phone-in Programmes were organised
4. **Vice-Chancellor to Village programme "మన గ్రామం-మన విశ్వవిద్యాలయం"** : Launched on the eve of 150th birth anniversary of Mahatma Gandhi on 02.10.2020. Under this programme 42 villages in 13 districts of Andhra Pradesh were adopted by 42 institutes under Dr.YSRHU.
5. **e-Extension :** Electronic wing, Community Radio Station, Information Kiosk, Udyana varthalu and Dr YSRHU Youtube Channel
6. **Processing & Horticulture Skill Training Centre:** Established at KVK, Dr YSRHU, Venkataramannagudem to facilitate hands on experience trainings on i) Dry Flower Technology ii) Nursery Management in Horticultural Crops iii) Scientific Beekeeping iv) Mushroom Production Technology v) Production of Bio-Control Agents.

Service to Farmers is Service to Nation

**Dr T.Janakiram
Vice-Chancellor**

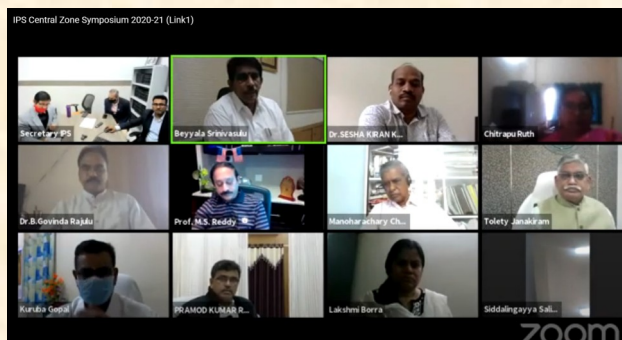
The Events



Dr T.Janakiram, Hon'ble Vice-chancellor has released Dr YSRHU Table Calendar on 1st January, 2021 in the presence of all university officers, Heads of 42 institutes under Dr YSRHU in virtual mode.

IPS Central Zone Symposium in coordination with Dr.YSRHU

Indian Phytopathological Society (IPS), New Delhi in association with Plant Protection Advisory Cell (PPAC), Dr Y.S.R Horticultural University organised two day IPS-Central Zone Symposium in virtual mode under the theme "Advances in Phytopathology" on 6th -7th January, 2021. Dr T.Janakiram, Hon'ble Vice-Chancellor, Dr YSRHU has addressed the delegates as chief guest. Dr P.K.Chakrabarty, President, IPS & Member, ASRB, Dr Robin Gogoi, Secretary, IPS, Dr K.Gopal, Registrar, Dr YSRHU have addressed the gathering. Dr B.Srinivasulu, President, IPS (Central Zone) and Director of Extension, Dr YSRHU and Dr K.Seshakiran, Councillor, Central Zone, IPS have coordinated the symposium.



Education

One day dialogue on Chrysanthemum organized at CoH, V.R.Gudem on 7 January 2021. Hon'ble Vice Chancellor Dr T.Janakiram acted as chairman and educate the farmers about commercial importance of Chrysanthemum and its trade in India. All the university officers have attended and addressed the farmers. Bank manager, Andhra Bank, V.R.Gudem sponsored the programme and addressed the farmers. Dr. K. Umajyothi, Associate Dean, V.R.Gudem coordinated the programme. Fifty women farmers from adopted villages (Prakasharaopalem and Jaggannapeta) have participated. Chrysanthemum varieties (40 numbers) planted under shadenet, production techniques and plant protection in Chrysanthemum were explained by Dr.T.Suseela, Associate Professor, V.R.Gudem



National Youth Day



On 12 January 2021, "National Youth Day" was organized at adopted village (Nagavaram) by CoH, Anantharajupeta. Farmers, PG and Ph.D students participated in the programme. Fruit Plants (Acid lime, Mango, Custard apple, Jamun, Jack and Banana suckers) were planted in Z.P. High School premises as a part of "Vice-Chancellor to Village" program. Dr B.Srinivasulu, Associate Dean, CoH, Anantharajupeta and staff have

coordinated the programme.

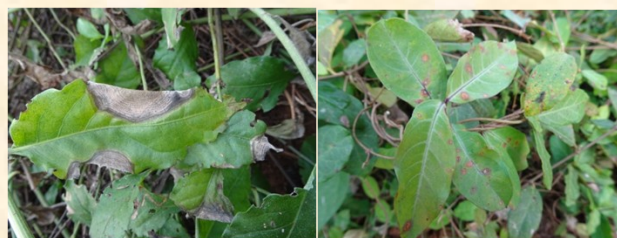
Sensitization Programme

CoH, Venkataramannagudem conducted sensitisation programme on "Entrepreneurial opportunities in Horticulture" to the Degree final year students of S.A.S Government Degree College, Narayanapuram and D.R.Goenka Government Degree College, Pentapadu on 6 January 2021. Students were explained about the services being provided to the aspiring entrepreneurs at Horti Business Incubation Centre, College of Horticulture, Venkataramannagudem and created awareness about the prospects of business opportunities in the field of Horticulture. Dr R.V.Sujatha, Associate Professor, CoH, Venkataramannagudem coordinated the programme.

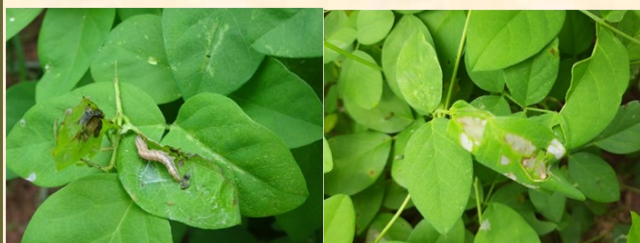


Research

Senior Scientist (Plant Pathology), HRS, Venkataramannagudem recorded two leaf spots on medicinal plants Chitramoolam (*Plumbagozeylanica*) and nanari (*Hemidesmusindicus*). The causal organisms are yet to be isolated and identified.



Leaf spot on *Plumbagozeylanica* Leaf spot on *Hemidesmusindicus*



Leaf webber damage on *Clitoriaternatea*

Senior Scientist (Plant Pathology), HRS, Venkataramannagudem recorded one new leaf webber on medicinal plant Sankapushphi (*Clitoria ternatea*). Adult emerged was identified as Lablab leaf webber (*Omiodes indicata*) of family Crambidae and order Lepidoptera.

Principal Scientist (Horticulture) & Head, HRS, Anantharjupeta visited mango gardens in and around Kodur, YSR Kadapa district during the period under report and observed profuse flowering in the Paclobutrazol applied orchards. However, 25 per cent flowering in most of the orchards got damaged due to the prevailed rains in the month of December and January. Natural flowering (without paclobutrazol application) was delayed due to rains and flower bud initiation was observed in the second week of January with the raise in temperature.

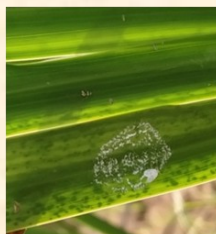


Scientists of HRS, Anantharjupeta visited papaya gardens in and around Kodur and Rajampeta mandals of YSR Kadapa Dist. and observed the incidence of mealy bug (*Paracoccus marginatus*) a polyphagous sucking insect. The leaves became crinkled and yellowish. On severe damage withering of leaves was observed.



Due to frequent rains and humid climate powdery mildew on flowers, bacterial canker on tender fruits, Anthracnose, red rust on petioles was observed in some of the orchards along with mango hopper. Suitable remedial measures were given to control the same as per the University recommendations.

RSW has been reported on vasa, babchi, and adamant creeper, while aphids, thrips and seed bugs were recorded on tulasi. Among the natural enemies, coccinellids and spiders were recorded against sucking pests on the above medicinal crops.



RSW on vasa



Spiral shaped egg laying by RSW



Seed bug on tulasi inflorescence

Senior Scientist (Horticulture), HRS, Kovvur conducted a survey in the agency areas of Chintapalli and Seethampeta mandals of Visakhapatnam and Srikakulam districts on 11 and 12 January 2021 respectively for exploration and collection of tuber crops germplasm. The areas explored were Seethampeta, Devanapuram, B.Brahmadigudem, Tottadi, Dylinagar, Ganjiguda and Sovva where rich diversity of tuber crops exists in that region. Collected 22 germplasm lines which includes 12 lines of Colocasia, one aerial yam, three lines of tannia, one elephant foot yam, one sweet potato line, one tapioca line two lines of Dioscorea and one mango ginger.



Leaf spot on *Gymnemasylvestre*



Leaf spot on *Menthaarvensis*

Senior Scientist (Plant Pathology), HRS, Venkataramannagdem recorded two leaf spots on medicinal plants Japanese mint (*Mentha arvensis*) and Podapathri (*Gymnemasylvestre*). The causal organisms are to be identified.

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Extension Activities

Vice-Chancellor to Village Activities

CRS, Petlur conducted demonstration on use of sticky traps for monitoring and management of sucking pests and briefed about weed management in chilli and acid lime crops to farmers of adopted village (Theerthampadu), Dakkili mandal, SPSR Nellore district as a part of "Vice-Chancellor to village" programme on 11 January 2021. The RBK and village panchayath staff have also participated in the programme. Dr.L.Ranjith Kumar, Scientist (Entomology) and Dr.B.Prathap, Scientist (Agro.) coordinated the programme.



Under Vice Chancellor to Village programme Scientists of HRS, Anantharjupeta conducted door to door campaign about the programme in the adopted village, VPR Kandriga and distributed Pamphlets on cultural practices of Papaya and Mango. Group meeting was conducted with progressive farmers and discussed about pros and cons of organic farming in mango, banana and papaya followed by papaya field visit. Yellow sticky traps were placed in papaya field to monitor the pests.

As a part of “Vice-Chancellor to Village Program”, a team of faculty, Professor (Plant Pathology), Teaching Associate (Horticulture) CoH, Anantharajupeta visited Nagavaram (adopted village) and laid out plan of Nutri-garden, distributed seeds to the identified woman farmers on 05 January 2021.



Scientists of HRS, Kovvur carried out the field diagnostic visit in Ravurupadu the adopted village under VC to Village programme along with Horticulture Officer, Kovvur, local farmers and RBK staff (VHA & VAA) and identified sigatoka leaf spot in Banana (cvs.Karpura and Grandnaine), Papaya wilt disease, Thrips damage in Chillies and suggested suitable measures for its control. Also visited cauliflower, snake gourd and dragon fruit fields along with farmers and advised suitable cultural practices for better growth and yield.



Faculty of CoH, Venkataramannagudem visited papaya fields in Prakasaraopalem, adopted village under VC to Village programme on 6 January 2021. Diagnosed incidence of papaya ring sort virus and suggested control of vector by spraying systemic insecticide, imidacloprid @ 3.0ml /10 litre.

Dr.YSRHU Year of Coconut 2020-21 Activities

On 11 January 2021, on behalf of Dr.YSRHU year of coconut 2020-2021, KVK Venkataramannagudem conducted one day interaction meeting with successful/progressive coconut farmers at RBK, Telikicherla village. In this coconut farmers expressed their experiences with coconut farming since last 20 years and also explained their practices in coconut cultivation. In this program more than 20 farmers have participated. Dr K.Venkata Subbaiah, Scientist (Horticulture) coordinated the programme.



Swachhta Pakwada program

On 11 January 2021, KVK, Venkataramannagudem conducted Swachhta Pakwada program at RBK, Telikicherla village and also distributed vermiculture to the vermicompost producers under this program. This program was coordinated by Dr. U. Siva Kumar, Research Associate (SSAC), KVK, Venkataramannagudem. In this program 20 farmers have participated.



Training Programmes

On 5 January 2021, Scientists of KVK, Vonipenta attended DRC-kadapa review meeting at Utukur, Kadapa.

Dr.K.Uma Maheswari, Senior Scientist (Horticulture), CRS, Petlur participated in 10 days National Level online training programme on “Emerging trends in seed production technology and quality control framework for effective seed supply chain of horticulture crops” conducted by Department of Biotechnology and crop improvement, CoH, Bidar on 28 December 2020 to 6 January 2021.

On 2 January 2021, Scientists of KVK, Vonipenta conducted off campus training programme on “Integrated crop management in Papaya” at Aravetipalli village of Muddanur mandal. Scientist explained about Nursery management, cultivation practices, soil test based fertilizer management through fertigation, pests and disease management in Papaya. Dr V.Yugandhar, Research Associate (Horticulture) coordinated the programme.



On 7 January 2021, Mrs. Srividya Rani, N, Scientist & Head and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta participated in farmers training program and joint diagnostic field visit in paddy field cultivated under Polambadi programme at Abbusahebpeta village of Badvel mandal. Scientists explained about pests and disease management, fertilizer and water management in Paddy. In this program

ADA, FTC, VAA and 15 farmers have participated.

Dr D. Sreedhar, Scientist (Horticulture) and Dr T. Naga Lakshmi, Scientist (Plant Pathology), HRS, Anantharajupeta attended training programme as resource persons on “Cultivation and plant protection aspects of Papaya” to the farmers of Chintarajupalli village of Rajampeta mandal of YSR Kadapa district organized by Department of Horticulture on 5 January 2021. DDH, YSR Kadapa district, AD, Rajampeta and HO, YSR Kadapa district have also present and discussed on various aspects with regard to papaya cultivation.



Dr R.Rajyalakshmi, Senior Scientist (Horticulture), MRS, Nuzvid participated in training program on “INM and IPM of Mango” along with ADH-1, PPIC-APILIP, HO, VAAs and VHAs organised by Department of Horticulture, A.P on 7 January 2021 at Konapurajupalem, Reddygudem mandal, Krishna Dt.

Dr G.Ramanandam, Principal Scientist (Horticulture) & Head, Dr A.Snehalatha Rani, Scientist (Plant Pathology), HRS, Kovvur participated in the three day district level training programme on “Cocoa” organized by HRS, Ambajipeta at Rajanagaram on 5 January 2021 and delivered a lecture on “Production technology of Cocoa” and “Diseases of cocoa and their management” at Radhayapalem (V) Rajanagaram (M), East Godavari district for the cocoa and oil palm farmers with power point presentation.

Dr R. Naga Lakshmi, Senior Scientist (Hort.) and Dr K. Ravindrakumar Scientist (Hort) participated as resource persons in the District Level Seminar on Cocoa for the year 2020-21 and delivered lectures on “Training and pruning in cocoa” and Irrigation and nutrient management in Cocoa respectively to the farmers of Thokada and Mukkinada villages, Rajanagaram mandal, East Godavari district on 06-01-2021. Also visited cocoa orchards along with Dr. B.V.K. Bhagavan, Principal Scientist (Hort.) & Head, HRS, Ambajipeta, Dr. Ch.V.Narasimha Rao, Professor (Ent.), Agricultural College, Rajahmundry, Sri.A.Kireeti, Research Associate (Hort.), HRS, Ambajipeta and observed various nutritional disorders in cocoa and suggested the remedial measures.

KVK, Venkataramannagudem Conducted Virtual training programme on Beekeeping in Collaboration with Department of Horticulture, Guntur from 5 to 8 January 2021. On 8 January 2021 conducted practical session on Beekeeping as a part of training programme at Farmers Training center, Kantheru, Guntur. Sri G.ShaliRaju, Scientist (Entomology) coordinated the programme.



KVK, Venkataramannagudem conducted 3 days training cum exposure visit from 7 to 9 January 2021 on “Vegetable cultivation, value addition of fruits” to Krishna district farmers which was supported by GUIDE, NGO. In this program farmers were updated with latest technologies in vegetable cultivation, value addition of fruits and vegetables like preparation of jam and ketchup and also visited KVK demonstration units like mushroom production unit, Apiary unit, Food processing lab, Vegetable blocks along with Hi tech vegetable nursery and poly house cultivation etc. in this program 25 farmers have participated. Dr K.Venkata Subbaiah, Scientist (Horticulture) coordinated the programme.

Frontline Demonstrations

On 02 January 2021, Scientists of KVK, Vonipenta visited papaya fields for follow up under FLD at Aravetipalli village of Muddanur mandal. During the visit scientists provided the micronutrient mixture to the beneficiary farmers and explained about the fertigation schedule, weed and water management in Papaya.



On 4 January 2021, Scientists of KVK, Vonipenta initiated CFLD on Oil seeds under National Food Security Mission sponsored by ICAR-ATARI, Zone – X, Hyderabad. Explained the cultivation aspects of Sesame for getting higher yields, provided seed (YLM-66) and pre-emergence herbicide to the farmers.

On 7 January 2021, Scientists of KVK, Vonipenta initiated FLD on Assessment on performance of fodder variety Super Napier at Adiredypalli village of Mydukur mandal. Collected data on Super Napier among other fodder crops.





On 8 January 2021, Scientists of KVK, Vonipenta visited Acid lime fields for follow up under FLD on flower regulation in Acid lime at Ponnampalli village of Mylavaram mandal. Scientists explained about spraying of Gibberillic acid, Cycocel and Potassium Nitrate for flower regulation and getting higher yields in summer crop followed by demonstration on spraying of micronutrient mixture @ 5g/litre on acid lime plants.

On 11 January 2021, Scientists of KVK, Vonipenta conducted a follow up visit for FLD on “Integrated Nutrient management in Turmeric” for correcting the nutrient deficiency at Settyvaripalli village of Mydukur mandal. Identified the leaf spot and suggested application of Chlorothalonil @ 2.0 g/litre for management of the disease.



On 12 January 2021, KVK, Venkataramannagudem distributed yellow and blue sticky traps to the farmers as a part of Front line demonstration on Integrated Pest and Disease Management in melons. Sri G.ShaliRaju, Scientist (Entomology) coordinated the programme.



KVK, Venkataramannagudem has distributed the inputs related to the management of argulus in fish farms to the farmers on 11 January 2021. Dr A.Devivaraprasad Reddy, Scientist (Fishery Science), and Dr T. Vijaya Nirmala, Scientist (Veterinary Science) coordinated the programme.

On 12 January 2020, KVK, Venkataramannagudem initiated FLD on “Supplementation of Area Specific Mineral Mixture in Dairy Animals” and distributed the inputs to the tribal farmers. Dr T.Vijaya Nirmala, Scientist (Veterinary Science), and Dr. A. Devivaraprasad Reddy, Scientist (Fishery Science) coordinated the programme.



Tribal Sub Plan

Scientists of HRS, Kovvur conducted a training programme to tribal farmers under TSP programme of AICRP on Fruits. Supplied mango seedlings, inputs to the farmers and created awareness to the farmers regarding mango cultivation. Dr GRamanandam, Principal Scientist & Head and Dr.A.Snehalatarani, Scientist (Plant Pathology), HRS, Kovvur coordinated the programme.



On Farm Trials

On 4 January 2021, Mrs. Srividya Rani, N, Scientist & Head and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited blackgram fields for follow up under OFT at Madirepalli village of Duvvur mandal. Observed powdery mildew disease and suggested to spray Myclobutanil @ 0.05% for disease management.





On 4 January 2021, Dr V.Yugandhar, Research Associate (Horticulture) and Mrs. Srividya Rani, N, Scientist & Head, KVK, Vonipenta visited onion fields for follow up under OFT at Madi-repalli village of Duvvur mandal. Scientists collected data and explained about fertilizer management and disease management during the initial plant development stage.

On 8 January 2021, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited chilli fields for follow up under OFT at Thorrivemula village of Mylavaram mandal. Observed Choanephora blight and suggested to spray streptomycin @ 1g + copper oxy chloride @ 30 g/10 litre of water twice at 7 days interval to manage the disease.



On 12 January 2021, Dr V.Nagarjuna, Research Associate (Soil Science), KVK, Vonipenta conducted follow-up visit for OFT on "Introduction of high yielding groundnut variety K9" in Gudipadu village of Duvvur mandal. Scientists identified leaf spot in groundnut and suggested spraying of mancozeb @ 2.0 g/litre for management of the disease.

Diagnostic Visits

On 11 January 2021, Sri G.ShaliRaju, Scientist (Entomology), Dr K.Venkatasubbaih, Scientist (Horticulture) and Dr U.Shiva Kumar, Research Associate (Soil Science), KVK, V.R.Gudem conducted diagnostic visit to water melon, coconut and papaya fields in Telikicherla village, Nallajerla mandal and observed leaf miner and leaf spot incidence in water melon, Rhinoceros beetle and Rugose spiraling whitefly incidence in Coconut and Ring spot virus disease in papaya and suggested suitable remedial measures.



Dr A.Devivaraprasad Reddy, Scientist, KVK, Venkataramanna-gudem diagnosed the fishes brought by the farmers on 11 January 2021 and found that the fishes were infected with mixed bacterial infection. Suggested to use the water sanitizers, agriculture lime and application of antibiotics viz., Oxytetracycline at the rate of 80 grams per 100 kgs of feed.

Dr. Ch. Ruth, Professor (Plant Pathology), CoH, Anantharajupeta has visited bottle gourd field and observed the incidence of Gummy stem blight (20%) and downy mildew diseases and powdery mildew and cercospora leaf spot diseases in okra due to continuous rains in Abbiredypalli village of Kadapa on 11 January 2021 along with PG Plant Pathology first year students and suggested remedial measures.



On 4 January 2021, Mrs. Srividya Rani, N, Scientist & Head and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited Onion and Groundnut fields for diagnosis of pests and diseases at Madirepalli village of Duvvur mandal. Scientists observed thrips infestation in Onion and root rot disease in groundnut and suggested to spray dimethoate or fipronil @ 0.2% for control of thrips in onion and drenching with hexaconazole @ 0.2% to the disease infected and surrounding plants to control the spread of root rot disease.



On 6 January 2021, Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited bitter gourd fields for diagnosis of pests and diseases at Palur village of Peddamudiyam mandal. Observed thrips infestation and recommended spraying of dimethoate @ 0.2%.

On 7 January 2021, Mrs. Srividya Rani, N, Scientist & Head and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited papaya fields for diagnosis of pests and diseases at Adireddipalli village of Mydukur mandal. Scientists identified papaya leaf mosaic disease in papaya and suggested removal and destruction of infected plants followed by spraying with Imidachloprid @ 0.3 ml/litre or fipronil @ 2 ml/litre for control of vector transmitting viruses for papaya leaf mosaic virus.



On 7 January 2021, Mrs. Srividya Rani, N, Scientist & Head and Dr V.Yugandhar, Research Associate (Horticulture), KVK, Vonipenta visited pomegranate field for diagnosis of pests and diseases at Abbasahebpeta village of Badvel mandal. Scientist explained about flower regulation, intercultural operations and nutrient management for getting of higher yields with quality in pomegranate.

General

Visits

Dr B.M.K Reddy, Chairman, A.P Biodiversity Board, Andhra Pradesh visited HRS, Anantharajupeta on 4 January 2021 and interacted with the Scientists. Dr R. Nagaraju, Principal Scientist (Hort) & Head, HRS, Anantharajupeta explained about the ongoing research activities and discussed about various University initiatives like Vice Chancellor to Village programme and webinars conducted from HRS, Anantharajupeta for the benefit of the farmers through Raitu Bharosa Kendrams.



HRD

Dr K.Venkata Subbaiah, Scientist (Horticulture), KVK, Venkataramannagudem participated in the 10 days national level online training program on “Emerging trends in seed production technology- and quality control frame work for effective seed supply chain of Horticultural crops” organised by Department of bio technology and crop improvement, CoH, Bidar, UHS, Bagalkot, Karnataka from 28 December 2020 to 6 January 2021.

Phone-in-Live Programme

Dr K.Giridhar, Senior Scientist (Horticulture), HRS, Lam attended Phone-in-Live Programme on “Cultivation Practices of Grain Spice Crops” at Doordarshan Kendra, Vijayawada on 7 January 2021.

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

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

Date	Activities
01.01.2021	Good Management Practices in Jasmine Dr.P.Lalitha Kameswari, Senior Scientist & Head, KVK, Pandirimamidi
02.01.2021	Kitchen Gardening Dr.E.Karunasree, Principal Scientist & Head, KVK, V.R.Gudem
04.01.2021	Symptoms and control measures for whitefly in coconut Dr.N.B.V.Chalaphthi Rao, Principal Scientist, HRS, Ambajipeta
05.01.2021	Nutrient management for flowering and fruit set in cashew Dr.K.Umamaheswararao, Scientist , CRS, Bapatla
06.01.2021	Pepper cultivation as intercrop Dr.V.Siva Kumar, Scientist & Head, HRS, Chintapalle
07.01.2021	Management practices to be followed in curry leaf and moringa cultivation Dr.M.Mutyala Naidu, Principal Scientist & Head, HRS, Darsi
08.01.2021	Fruits and vegetables storage Dr.E.Karunasree, Principal Scientist & Head, KVK, V.R.Gudem
11.01.2021	Business oppurtunites with coconut value added products Dr.R.V.Sujatha, Associate Professor, CoH, V.R.Gudem
12.01.2021	Integrated pest management in sweet orange and acid lime. Dr.B.Govindarajulu, Principal Scientist & Head, KVK, Periyavaram

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
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
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