



Dr. YSRHU *e-News letter*

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

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Dr.YSRHU e-Newsletter

16th to 30th June, 2020



Fortnight Focus

- Events
- Research
- Extension
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Events

New Vice-Chancellor to Dr.Y.S.R.Horticultural University

Dr.T.Janakiram garu, Asst. Director General (HS-I), ICAR, New Delhi assumed charge as Vice-Chancellor, Dr.Y.S.R. Horticultural University on 30.06.2020 by relieving Sri. Chiranjiv Choudhary garu, IFS, Commissioner of Horticulture, Government of Andhra Pradesh.



Superannuation

Dr.D.Srihari, Dean of Horticulture and Sri S.Narasimhulu, Joint Registrar retired from the service on attaining superannuation on 30.06.2020. Dr.T.Janakiram, Hon'ble Vice-Chancellor and all other university officers and staff felicitated on this occasion.



Research

The establishment and re-emergence of the invasive rugose spiraling whitefly (*Aleurodicus rugiopectus*) is being observed on coconut in the month of June 2020. Unlike in 2019 where the establishment and re-emergence was observed in the month of August, low incidence is being observed in second fortnight of June 2020 itself. The regular adult rugose spiralling whitefly has a body length of about 2 mm with dark spots on the forewings and the whitefly which is surviving in off season



is less than 0.5 mm in body length with no dark spots on fore wings. Unlike regular egg spirals which have 30 to 40 number of eggs the offseason population of whitefly is laying eggs numbering 5 to 10 in non conspicuous spirals. The incidence is particularly observed on dwarf varieties like Gangabondam, Chowghat Orange Dwarf (COD), Malayan Yellow Dwarf (MYD) and other dwarfs and on hybrid Godavari Ganga. On East Coast Tall the incidence is yet to be observed.



Three years after the appearance of the rugose spiralling whitefly on coconut in Andhra Pradesh, Bondar's nest fly species (BNW), *Paraleyrodes bondari* Peracchi was observed from Chagallu and Kalavalapalli villages of West Godavari feeding on the lower surface of coconut palm leaflets. This whitefly is small (< 1.0 mm) when compared to rugose white fly and has X-shaped oblique grey bands on the wings. Nymphs and adults are present nesting chambers of woolly wax resembling bird's nest and the eggs are stalked. The feeding by this white fly also produces honey dew which result in sooty mould. BNW incidence was observed in lower leaf of Godavari Ganga hybrid coconut with nest colonies exceeding 10 per leaflet. The measures advised for Rugose white fly will also assist in managing this pest. This is the first report of Bondar's nesting whitefly on coconut in the Andhra Pradesh state.

Incidence of coconut black headed caterpillar was reported in Padmavathipalem village, Tirupathi mandal of Chittoor district and the farmer approached Horticultural Research Station, Ambajipeta for biocontrol agents accordingly 31,000 nos. of larval parasitoids *Goniozus nephantidis* were dispatched and released in affected plantation.



Observational trial conducted at Adurru village of Mamidikuduru mandal on leaf blight disease revealed that, application of Carbendazim (0.1%) followed by Hexaconazole (0.1%) at 15 days interval were found to be effective with no incidence of leaf blight symptoms on newly emerged young leaves.

Preliminary results on management of rugose spiralling whitefly showed application of neem oil 1ml. (1000 ppm) or 1.5 ml. (crude neem oil) + 5 gm of soapnut powder and 10g. of starch per litre of water gradually decreased the adult and nymph population upto 7 days.

In one of the research trials entitled “Influence of climate on growth flowering and yield parameters with different planting dates under Rayalaseem conditions”, papaya seedlings were planted at 15 days interval, starting from first fortnight of November. In the first treatment (First fortnight planting date), plants have come to physiological maturity stage and 1st harvesting was done . Observations were recorded for that treatments.



Leaf footed bugs damage was observed and reported by Dr. R. Nagaraju, Principal Scientist (Hort), HRS, Anantharjupeta during his visit to farmers fields in YSR Kadapa and Chittoor districts of Andhra Pradesh on various Horticultural crops viz., bitter gourd, ridge gourd, coccinia and pomegranate. Crooked fruits of ridge gourd was observed due to damage of the pest.

Extension

Diagnostic Visits

On 17.06.2020, Dr. S. Adarsha, Scientist (Ento.), KVK, Pandirimamidi diagnosed boron deficiency in coconut orchards at Gummaldoddi village of Gokavaram mandal. Suggested for application of borax 50 gm/ plant or foliar spraying of 0.2% borax for managing boron deficiency.



On 18.06.2020, team of scientists Dr. B.V.K. Bhagavan, Principal Scientist (Hort.) & Dr. N.B.V. Chalapathi Rao, Principal Scientist (Ent.) from HRS, Ambajipeta, Dr. Y.S.R. Horticultural University along with Department of Horticulture officers of concern mandals visited Venkatapuram Village near Simhachalam, Vishakhapatnam District, the village which bore the brunt of styrene gas

leakage from M/s LG Polymers India Pvt. Ltd to study the adverse affects of styrene vapour on the soil, Horticulture crops / other adverse impact existing within 5 KM vicinity of the LG polymers on 18.06.2020.

On 19.06.2020 and 20.06.2020, Dr. V. Nagarjuna, Research Associate, (SS&AC), KVK, Vonipenta has visited banana fields at Sunkulugaripalli village of Mydukur mandal. Identified *Erwinia* rot in banana and suggested soil drenching with *Pseudomonas* @ 50 gm /lit or bleaching power @ 25 gm /l before planting of new plants in the infected pits for gap filling.



On 22.06.2020, Sri.G.Sandeep Naik, Scientist & Head and Srividya Rani.N, Scientist (Extension), , KVK, Vonipenta conducted diagnostic visit to brinjal field for diagnosis of pests and diseases at Up-pugantipalli village of Mydukur mandal. Observed sucking pest complex in brinjal and suggested

the farmers to go for erection of yellow sticky traps followed by spraying with imidacloprid @ 0.3 ml/l or fipronil @ 2gm/l.



On 23.06.20, Sri Bhanumurthy K.C, Scientist (Hort.), KVK, Pandirimamidi visited cashew grafts of farmer Sri Srinivas garu of Chinnabheeram Palli village of Rampachodavaram mandal. Observed collar rot infection and suggested to reduce the number of irrigations to cashew grafts and to go for soil drenching with COC @ 3g/l, twice within an interval of 15 days.

On 27.06.2020, Dr.V.Yugandhar, Research Associate (Hort.), KVK, Vonipenta visited acid lime fields for diagnosis of pests and diseases at Ponnampalli village of Mylavaram mandal. Observed citrus canker disease and suggested to go for pruning of badly infected twigs followed by spraying of streptocycline @ 1g + Copper oxy chloride @ 30 g/ 10 l at 20 days interval.



On 27.06.2020, Sri Bhanumurthy K.C, Scientist (Hort.), KVK, Pandirimamidi visited ITDA – HNTC Farm at Rampachodavaram village of Rampachodavaram mandal to give technical advice regarding the cashew nursery and its maintenance to Project Horticulture Officer, ITDA-Rampachodavaram. The cashew nursery is at 15-20 days stage, observed sucking pest infestation on young leaves and suggested foliar spraying with imidacloprid @ 0.3 ml/l.

On 27.06.2020, Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.), Ms. Y. Swarupa, Research Associate (Ento.), KVK, Periyavaram visited acid lime orchards at Subramanyam village of Balayypalli Mandal. Identified nematodes and snow scales as the major problem. To quantify initial nematode population soil samples were collected and to mitigate its damage suggested application of neem cake@5Kg/ plant and for snow scales rubbing of the trunk portion with gunny cloth followed by spraying with imidacloprid@0.4ml/l.

On 29.06.2020, Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.), Dr. P. Avani, Research associate (Hort.), Ms. Y. Swarupa, Research Associate (Ento.) and Ms K. Sravani, Research associate (Agri. Extn.), KVK, Periyavaram along with H.O and VHA visited guava orchards at RGV Palem village of Sydapuram Mandal. Magnesium deficiency was identified as the major problem and wilt disease in initial stage. To control the magnesium deficiency, spraying of magnesium sulphate @2g/l twice at 15 days interval and to control wilt, drenching with carnben-dazim@1g/l was suggested.



On 29.06.2020, Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.), Dr. P. Avani, Research associate (Hort.), Ms. Y. Swarupa, Research Associate (Ento.) and Ms K. Sravani, Research associate (Agri. Extn.), KVK, Periyavaram along with H.O and VHA visited guava orchards at RGV Palem village of Sydapuram Mandal. Magnesium deficiency was identified as the major problem and wilt disease in initial stage. To control the magnesium deficiency, spraying of magnesium sulphate @2g/l twice at 15 days interval and to control wilt, drenching with carnben-dazim@1g/l was suggested.

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On 30.06.2020, Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.), Ms Y. Swarupa Research Associate (Ento.), KVK, Periyavaram along with ADA, Agriculture officer, Venkatagiri and Agriculture officer, Dakkali visited groundnut and paddy fields in PK satram village and Mokalapadu village of Venkatagiri mandal and Mupuru and M.Vellampalli of Dakkali mandal. Paddy stem borer and leaf folder were identified as major pests in paddy and recommended chlorpyrifos 20 EC@ 2.5ml/l, whereas, Stem rot and thrips in groundnut as major problems and recommended spray of fipronil@2ml/l for control of thrips, soil application of *Trichoderma viride* @2.5kg/ha mixed with 50Kg FYM.



On 30.06.2020, Sri.G.Sandeep Naik, Scientist & Head and Srividya Rani.N, Scientist (Extension), KVK, Vonipenta have conducted diagnostic visit to banana fields at Mudireddipalli village of Mydukur mandal. Observed leaf streak virus and *Erwinia* rot in Banana. Suggested the farmers for removal and destruction of infected plants followed by spraying with dimethoate or methyl demeton @ 2ml/l for leaf streak virus

management and application of bleaching powder @ 25 gms/l or *Pseudomonas* @ 50 gm/l before planting the new banana plant for gap filling.

On 29.06.2020, Sri Bhanumurthy K.C, Scientist (Hort.), KVK, Pandirimamidi visited cashew plantation at Kota village of Y.Ramavaram mandal. The plantation is of 8 months old with new flush initiation stage, observed leaves on root stock below graft joint and suggested the farmer to remove all the flush below the graft joint, go for mulching with green leaves as it suppress the weed growth, which also helps in better moisture retention.



On 20.06.2020, Dr. R. Nagaraju, Principal Scientist (Hort.), HRS, Anantharjupeta visited Progressive Organic farmers fields at K.C. Agraharam, Kodur, Mandal, YSR Kadapa District. Interacted with the farmers regarding the constraints faced during organic cultivation of banana, vegetables and other horticultural crops.

Training Programmes

On 20th June 2020, as part of Action plan 20-21 in the discipline of Home Science organized training cum demonstration programme on 'Value addition of Ground nut' at Dakkali to farmers of FPO (Farmer Producer Organization) by KVK, Periyavaram. Explained the importance of groundnuts as oil seed, nutritional benefits and its value addition by making different food products in terms of snacks like ground nut chikki, ground nut and sesame laddu for all ages especially for children, adolescent girls, women which helps in preventing anaemia, protein and B vitamin deficiency in rural areas. Dr.B.Govinda Rajulu, discussed about



the crops grown in the village and major pest and diseases. In this programme APM –SERP, Dakkili, FPO CC and Veterinary Extension Officer, Farmers of Ground nut FPO and women have participated.

From 26.06.2020 to 27.06.2020, KVK, Pandirimamidi conducted two days district level training program on Millet based products to 30 SHG women at Addateegala village of Addateegalamandal. Sri Hemanth DPM, Velugu participated as chief guest for the program and emphasized on use of millets in daily food and attaining nutritional security of tribal community.



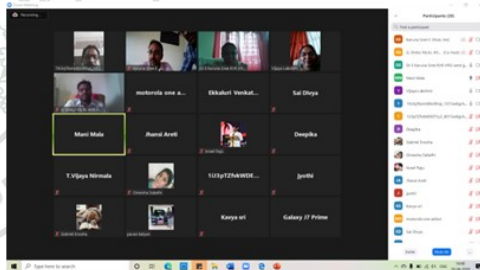
Demonstrated preparation of millet based products like Ragiladdu, Multigrain biscuits, cake, breakfast items like Korrakheer. APM –HD component, APM- Addateegala, HD –CC Y.Ramavaram and CC-Velugu, Addateegala participated in the program. Dr. P.Lalita Kameswari, Sr.Scientist & Head and Dr.S.Adarsha, Scientist (Ento.) coordinated the programme.



From 24.06.2020, KVK, Pandirimamidi conducted training program on 'Usage of biocontrol agents in crop protection' to extension functionaries. The available non chemical pest control alternatives including biological control agents like parasitoids, predators and pathogens were explained in the program. Demonstration on seed treatment, seedling root dip,

soil application and foliar application of bio agents was demonstrated to 30 Extension functionaries as part of the program. Dr.S.Adarsha, Scientist (Ento.) and Sri N.Chiranjeevi, R.A (Pl. Path.) coordinated the program.

On 20.06.2020, KVK, Venkataramannagudem conducted online training program on "Improved vegetable cultivation practices." Dr. E. KarunaSree, Principal Scientist & Head welcomed the participants and interacted regarding the problems faced in vegetable cultivation. Dr. K. VenkataSubbaiah, Scientist (Hort.) explained about different improved practices like selection of seed, raising of seedlings, Raised bed system, Drip with mulch, permanent pandal system etc. Sri G. Shali Raju, Scientist (Ento.) explained about IPM and IDM practices in vegetable cultivation. A Total of 22 members participated and interacted about improved vegetable cultivation.



One day skill training on using Mini Soil Test Kit for analysis of soil nutrient parameters was organized on 20.06.2020 by KVK, Venkataramannagudem. Dr.E.Karunasree, Principal Scientist explained the importance of Integrated use of both organic and inorganic fertilizers. Village Agricultural Assistants (22 nos.) have participated along with the Agricultural officer of Nallajerla mandal. Dr.V.Deepthi, Scientist (Agricultural extension) and Dr. U .Shiva kumar, (Soil Science), Research Associate demonstrated the soil sample analysis by using MINI SOIL TEST KIT. Later participants were taken around the 'State Level Farmer Awareness Creation Centre' established in university museum.

On 27.06.2020, KVK, Venkataramannagudem conducted training program on “Cultivation practices of fodder sorghum, CoFS 31 and fodder cowpea Co-9” to the dairy farmers of tribal villages and distributed fodder sorghum CoFS 31 variety and fodder cowpea Co-9 variety seed under on farm trial on “Assessment of fodder sorghum, CoFS 31 & fodder cowpea cropping system for green fodder production” for 2020-21. Dr.T.VijayaNirmala, Scientist (Veterinary Science) coordinated the programme.



On 30.06.2020, KVK, Venkataramannagudem in collaboration with IIOPR, Pedavegi conducted training program on ‘Fertigation in oil plum to the tribal farmers’ at Vankavariguem village of Jeejugumilli mandal. Dr. M. V. Prasad, Principal Scientist, explained the operation of fertigation system to the farmers and emphasised on what to do and what not to do during fertigation. Sri.Shaja Naik, PD and APMIP, West Godavari district explained about Micro irrigation in horticultural crops and schemes in micro irrigation. Dr. K. VenkataSubbaiah, Scientist (Hort.) and Dr. U. Siva Kumar, Research Associate (SS&AC) co-ordinated the programme.

Participatory Rural Appraisal Technique

On 25.06.2020, Dr.B.GovindaRajulu, Principal Scientist & Head, Ms. K. Sravani, R.A. (Extension), Dr. P. Avani, R.A. (Hort.), Ms.Y.Swarupa, R.A (Ento.), KVK, Periyavaram conducted Participatory Rural Appraisal techniques for adoption of Ammapalem village, Venkatagiri mandal. In this programme transect walk was conducted, village map and resource map was drawn by the villagers and identified resources available in the village. Dr.B.GovindaRajulu, Principal Scientist & Head discussed about the crops grown in the village and major pest and diseases, livestock availability and other general information regarding the village.



On Farm Trial

On 20.06.2020 and 26.06.2020, Dr. V. Nagarjuna, Research Associate, (Soil Science), KVK, Vonipenta collected soil samples from farmer’s field at Yerraballi and Settivaripalli villages of Mydukur mandal. The scientists explained the importance of soil and water analysis and also demonstrated the procedure of soil sample collection.



On 29.06.2020, Smt. R. Suneetha, Research Associate (Home Science) and Dr.V.Nagarjuna, Research Associate (SSAC), KVK, Vonipenta initiated Nutri garden model suitable for farm families at Pappannapalli village and distributed seed kits. Scientists explained two models of nutri garden *i.e.*, APAU and Reliance Nutri Gardens and provided layout for an area of 600 to 700 Sq. ft.

On 30.06.2020, Sri.G.Sandeep Naik, Scientist & Head and Srividya Rani.N, Scientist (Extension), KVK, Vonipenta provided critical inputs (*Trichoderma viride*, *Pseudomonas floescens* and *Purpuricillium licanus*) to the beneficiaries under OFT on “Management of Root knot nematode in Guava”. Conducted method demonstration and scientists explained about usage of *Purpuricillium lilacinus* enriched with neem cake @ 25 gms/250 gms per plant for the management of Root knot nematode in Guava.



On 16.06.2020 Dr. S. Adarsha, Scientist (Ento.), KVK, Pandirimamidi initiated OFT on Assessment of bhendi hybrids resistant to YVMV at Irlapalli village of Rampachoda-varammandal. Sowing of bhendi hybrids Co4 and Arka Nikita were carried out.

Method Demonstrations

On 17.06.2020 Dr. V. Nagarjuna, Research Associate, (Soil Science) and Dr. V. Yugandhar, Research Associate, (Hort.), KVK, Vonipenta conducted a method demonstration and initiation of FLD on “Integrated Nutrient Management in turmeric for correcting the nutrient deficiency” at Settivaripalli village of Mydukur mandal. The scientist explained regarding the importance of application of biofertilizers and preparation of liquid biofertilizer (500 ml of *Azospirillum* and 500 ml of *Pseudomonas* dissolved in 20 lit of water and mixed with 200 kg FYM) mixer as basal application in turmeric crop.



KVK, Venkataramannagudem organized demonstration on use of Automatic Coconut dehusking machine to the coconut farmers of East Godavari District on 17.06.2020. Dr. E. KarunaSree, Principal Scientist & Head, KVK, Venkataramannagudem and Dr. K. VenkataSubbaiah Scientist, (Hort.) explained about the features of the machine and working mechanism. ADH, Amalapuram, Horticulture Officers, Village Horticulture Assistants and progressive farmers have participated. Dr. V. Deepthi Scientist (Ag. Extn.) collected feedback through structured questionnaire from the participants.

Dr. V. Deepthi Scientist (Ag. Extn.) collected feedback through structured questionnaire from the participants.

Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science) attended sample netting of improved fish varieties i.e. Jayanthi-Rohu, Improved Catla and Amur Common Carp stocked in the fish pond of KVK instructional farm to check the growth parameters. Collected water sample for water quality analysis as a part of monthly sampling under “Demonstration and growth performance of improved fish varieties” funded by the NFDB, Hyderabad. The advanced fish fingerlings harvested were stocked in the fish culture pond of Mr. M. SavalamBalaRaju, Progressive Farmer, KoyaNagampalem village for demonstration of “Fisheries Based Integrated Farming Systems” as per the action plan of 2020-21 in DFI Village.



Front Line Demonstrations

On 23.06.2020 Dr. V. Yugandhar, Research Associate (Hort.) and Dr. V. Nagarjuna, Research Associate (SS&AC), KVK, Vonipenta visited turmeric fields for follow up under FLD at Settivaripalli village of Mydukur mandal. During the visit scientist explained about the importance of raised bed system cultivation, seed treatment and application of bio-fertilizers along with FYM in turmeric and demonstration on preparation of raised beds in turmeric was also given.



On 27.06.2020, Dr. V. Yugandhar, Research Associate (Hort.), KVK, Vonipenta visited acid lime fields for initiation of FLD on 'Flower regulation in Acid lime' at Ponnampalli village of Mylavaram mandal. Scientist explained about spraying of Gibberellic acid, Cycocel and Potassium Nitrate for flower regulation and getting higher yields in summer crop followed by demonstration on spraying of GA₃ @ 50ppm on acid lime plants.

On 26.06.2020, Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.), Dr. P. Avani, Research associate (Hort.), Ms. Y. Swarupa, Research Associate (Ento.) and Ms K. Sravani, Research associate (Agri. Extn), KVK, Periyavaram made a visit to acid lime orchard at Pallipadu village, Balayyapalli Mandal as part of FLD programme on 'Flower regulation in Acid lime' and created awareness on importance of the demonstration followed by distribution of the Gibberellic acid and its spray in selected plot.



On 24.06.2020, Dr. T.VijayaNirmala, Scientist (Veterinary Science) and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, V.R.Gudem distributed fodder sorghum CoFS- 31 variety and fodder cowpea Co-9 variety seed to the tribal farmers of buttaigudem mandal under on farm trial on "Assessment of fodder sorghum CoFS 31 & fodder cowpea cropping system for green fodder production" for 2020-21.

General

Meetings

Dr. B.V.K. Bhagavan, Principal Scientist (Hort.) and Dr. N.B.V. Chalapathi Rao, Principal Scientist (Ento.), HRS, Ambajipeta visited to CTRI, Rajahmundry and handed over the samples for analysis which were brought from styrene gas affected village, Venkatapuram for soil and water analysis in collaboration with CTRI, Rajahmundry on 19.06.2020.

On 26.06.2020 and 27.06.2020 Ms.Srividya Rani.N, Scientist (Extension), KVK, Vonipenta attended National workshop on "Research methodology-concepts and applications" organized by Directorate of Students Welfare of Maharana Pratap University of Agriculture & Technology, Udaipur- 313 001, Rajasthan.

On 29.06.2020, Dr.P.Lalitha Kameswari, Senior Scientist & Head of KVK, Pandirimamidi participated in awareness meet on COVID -19 conducted by Tanager –NGO. Explained the measures to be followed to farmers while doing agricultural operations and distributed COVID-19 kits to tribals.



Dr. U.Siva Kumar, Research Associate (SSAC), KVK, Venkataramannagudem participated in online International Guest lecture by Prof. Rattan Lal, World Food Prize-2020 laureate, Distinguished University Officer of Soil Science, Director, Carbon Management and Sequestration Centre; The Ohio State University, Columbus, OH, USA on Soil management for food and climate on 18.06.2020 organised by JNKVV, Jabalpur.

Visits

On 16.06.2020, KVK, Pandirimamidi scientists has observed flowering in Dragon fruit (white flesh type) which was planted in January, 2019 on an experimental note to observe its suitability for agency area. Dr. B.Srinivasulu, Director of Extension, Dr. YSRHU, Scientific staff of HRS, Pandirimamidi has also visited and observed the flowering in Dragon fruit.



On 18.06.2020, Dr.B.Srinivasulu, Director of Extension, Dr.YSRHU visited KVK, Pandirimamidi and interacted with technical staff. Dr. P.Lalitha Kameswari, Senior scientist & Head, KVK, Pandirimamidi and scientists explained about the on-going activities of KVK. Also visited Demo units i.e. Cashew nursery, Farm Pond with plastic lining etc.

Ten Village Horticulture Assistants and Horticulture Officer, Peddapuram have visited to HRS, Peddapuram as part of Polam badi programme on 20.06.2020. Dr. M. Janaki, Scientist (Hort.) & Head, HRS, Peddapuram has participated and explained about improved varieties of cassava and interventions in cassava production.



HRD

Dr. K. VenkataSubbaiah, Scientist (Hort.), KVK, Venkataramannagudem has attended two weeks online training course on “Advances in Smart Food Processing Technologies” organised by the Centre for Advances Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST-CSAWM), MPKV, Rahuri under National Agricultural Higher Education Project (NAHEP), ICAR-New Delhi during 04.06.2020 to 15.06.2020.

Dr.Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, V.R.Gudem has attended the National Webinar on ‘Fishery Business Eco-system in India’ on 22nd& 23rd June, 2020 organized under the program of National Agricultural Higher Education Project (NAHEP) at Centre for Agricultural Market Intelligence (CAAST), Anand Agricultural University, Anand.

International Yoga Day

As per the guidelines received from ATARI-X, KVK Venkataramannagudem has conducted International Yoga Day-2020 on 21.06.2020 with the theme of Yoga @ Home. In this program 30 members have participated in on line live demonstration and attended the Yoga practice shown by the ministry of Ayush, GoI.



Radio Programmes

On 29th June 2020, Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.) & Head, KVK, Periyavaram recorded radio talk on 'COVID-19, Lockdown 5.0 precautionary measures-Kharif advisories for Agricultural and horticultural crops' and broadcasted from AIR, Tirupati.

Publications

Lakshmi Naga Nandini M, Ruth Ch, Gopal K. 2020. *Acremonium silence* as an endophytic bioagent against turmeric (*Curcuma long L.*) diseases and tolerance to plant protection chemicals. International Journal of Chemical studies. 8(3),1660 -1664.

Superannuation

Smt. V. Nagaratnam, AWM & Smt. K. Satyavathi, AWM, HRS, Ambajipeta retired from the service on attaining superannuation on 30.06.2020. The staff of HRS, Ambajipeta felicitated them on this occasion.



Sri.K.Ramachandraiah Chetty AEO, CRS, Petlur retired from the service on attaining superannuation on 30.06.2020. The staff of CRS, Petlur felicitated him on this occasion.

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