



Dr YSRHU e-Newsletter

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Dr YSRHU e-Newsletter

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From Vice- Chancellor's Desk

The Destructive Insect and Pest Act of 1914 was implemented in India by the Directorate of Plant Protection, Quarantine and Storage through the Plant Quarantine (Regulation of Import into India) Order, 2003, which aims to protect horticulture and forest tree plants by preventing the entry, establishment, and spread of exotic plant pests. To carry out the stipulations of the PQ Order, 2003, Plant Quarantine stations are set up at various points of entry, including seaports, airports, and land frontiers.

Globalization led to the invasion of insects, which were a serious threat to the local flora and wildlife and even led to the extinction of several species. The globalisation of agriculture has boosted worldwide trade and the movement of seeds and planting materials has raised the potential of invasive pest introduction into India.

The new invasive pests and their management is important in the production of horticultural crops. Exotic, introduced, non-indigenous or non-native species are additional terms for invasive pest species. They were introduced intentionally, accidentally or through human agency from one geographic region to another for societal or individual gain. The area's biodiversity is at danger because of these recently imported species. These imported species pose a serious threat to our bio-security of nation in addition to the threat they pose to biodiversity. The likelihood of some exotic pests entering unintentionally has increased in recent years due to frequent exchanges of planting material between nations. These insect pests can grow rapidly and harm crop plants and species of commercially significant plants.

The basic steps in management of new invasive pests vary depending on the type of organism, population size, biology, status of pest and available mitigation options. viz: 1. Identification 2. Risk assessments 3. Eradication programme 4. Risk assessment review and 5. Monitoring.

By having a fundamental understanding of invasive pest species and cooperating internationally through the sharing of information on invasive pests and their natural enemies, the introduction of new pest species in a new area can be minimised.

The output of horticultural crops is primarily affected by the severe effects of invasive pest species on the environment, agriculture and horticulture ecology. These species have a significant negative impact on biodiversity and may also affect the economy of nation. In order to detect invasive organisms and evaluate their ecological issues, environmental concerns in various habitats, economic harm and control options, scientists must collaborate across disciplines. This emphasizes how crucial quarantine is in halting the spread of harmful exotic pests.

Dr. K.Gopal

Vice-Chancellor

The Events

Dr. YSRHU has celebrated the birth anniversary of Sri Tanguturi Prakasam Pantulu on 23.8.2025 as per the directions of the government of Andhra Pradesh as state function at its head quarters and all the constituent institutions.



Sri Gidugu Venkata Rammurthy birth anniversary was celebrated as Telugu language Day by Dr. YSRHU at its campus and all the constituent colleges, research stations and Krishi Vigyan Kendras on 29.8.2025.



Education

NSS Activities:

Anti - Ragging program was conducted with staff and students of Horticultural Polytechnic Nuzvid, from 12th to 18th August, 2025. On 16.8.25, selfies were taken by the students with posters and charts with Anti – Ragging slogans which were displayed in the college campus. Video Messages from head of Institution are displayed in local channels on 18.8.25.



Extension

Parthenium awareness week:



Dr. Rekha Eda, Scientist (Hort), KVK, Venkatarammanagudem, conducted and participated in Parthenium awareness week from 16-8-2025 to 22-8-2025. Dr.P.Vijaya Lakshmi, Senior scientist and Head, all the scientists participated in the program, created awareness about the ill effects of the parthenium to the humans and animals. At field level also created awareness about the ill effects of the parthenium at Vellamilli village. In the final day conducted awareness program at Government high school Venkataramannagudem by Dr. Rekha, Scientist (Hort) and Dr. A.DeviVara Prasad Reddy educating the students about the problematic weed as it causes skin diseases like eczema, dermatitis and asthma, bronchitis in humans and reduces milk production in animals and yield loss in crops. It can be eradicated by uprooting and incorporating in soil before flowering or by using bio control of Mexican beetle or by the chemical method using Glyphosate, 2,4-D.

On 22.08.2025, KVK, Vonipenta has conducted Parthenium awareness week at premises of KVK Vonipenta. In this Dr. M. Balakrishna, Senior Scientist and Head, Krishi Vigyan Kendra, Vonipenta explained about adverse effects of Parthenium on crops, livestock and human health, followed by cleaning and removal of Parthenium weed. In this Dr.T.Vijaya Nirmala, Scientist (Veterinary Science), Dr. S. Firoz Hussain, Scientist (Horticulture), non-teaching staff and farmers were participated.



Training Programme Conducted



Dr.B.PedaBabu senior scientist (SS&AC) as course director for 15 days CCINM training programme, on 16.08.2025 Dr.E.Rekha, Scientist(Hort) delivered lecture on Integrated nutrient management in Horticultural Crops. Role of crop rotation, placement of different fertilizers for better input use efficiency and exposure visit was conducted on Hands on experience of biofertilizers for seed production, root dipping of sapling and soil application and preparation of panchagavya. The final examination and Viva voce were also conducted to the trainees on 20.08.2025. And during the valedictory session, Dr. B. Govindarajulu Director of Extension participated as chief guest and interacted with the trainees and collected feedback. Certificates were distributed to the trainees.

Get DE certificate distribution photo from KVK VRG

Krishi Vigyan Kendra, Vonipenta has organized training program on Quality improvement in Turmeric crop on 21.08.2025. Dr. M. Bala krishna, Senior Scientist and Head, Krishi Vigyan Kendra, Vonipenta has explained about plant protection measures to be taken during cultivation of Turmeric to produce quality crop such as seed treatment, raised bed cultivation, scientific management practices to be followed during boiling and drying of turmeric. Dr S. Firoz Hussain, Scientist (Horticulture) briefed on management of various diseases in Turmeric crop. In this program farmers from Mydukur rythu utpatti darula sahakara sangham limited participated and Dr. T.Vijaya Nirmala, Scientist (Veterinary Science), co-ordinated the programme.



Krishi Vigyan Kendra, Vonipenta has organized training program on quality production of chillies to the FPO farmers on 22.08.2025. Dr. M. Bala krishna, Senior Scientist and Head, Krishi Vigyan Kendra, Vonipenta has explained about how to produce quality crop for export purpose. In this program, Sri Guruprasad, Field officer, Spice board of India, Sri. Mohammad Nurulla, Chaiman of Harshita FPO, secretary and FPO members were participated.

Dr. D. Thirupal, Scientist (Horticulture), Dr.YSRHU-KVK, Periyavaram, conducted a farmers training program on "Suitable Intercrops cultivation in young bearing orchards of Acid lime" at RSK of Marlapudi village, Sydapuram mandal, Nellore District on 22 August 2025 and explained about the importance of intercrops cultivation as well as disadvantages of growing of Solonaceous vegetables in below 5 years old young acid lime orchards. Suggested growing of non- Solanaceous vegetables viz., Ridge gourd, Ivy gourd, Water melon, Musk melon, Cluster bean, Beans and Marigold etc. Distributed pamphlets on Varshakalamlo nimma thotala yajamanyam" to the farmers.



Dr. Rekha Eda, Scientist (Hort), KVK, conducted training program on Pruning and nutrient management in Cocoa on August 26, 2025 and distribution of inputs Azotobacter, PSB to the farmers at nallajerla where 30 farmers are attended.



Dr. I. Rajeevana, Scientist (Soil Science) conducted training programme on Integrated Crop Management Practices in Blackgram on 28.08.2025. Discussed regarding seed rate, sowing, spacing, Nutrient management practices. Explained about pest management, yellow vein mosaic virus disease management in Blackgram. Discussed regarding usage of Rhizobium biofertilizer usage and provided nitrogen fixing bio-fertilizer as critical input.

Dr.YSRHU-HRS, Ambajipeta under Tribal Sub Plan (TSP) Programme of the AICRP on Biological Control, conducted a training program and distributed TSP inputs to tribal beneficiary farmers at Kirrabu colony, Rajavommangi, ASR District on 29.08.2025. The training focused on the utilization of Trichocards for the management of insect pests of crops (Vegetables and Rice). As part of the programme, 250 cc of Trichocards (*Trichogramma chilonis*) were distributed to tribal beneficiaries for the management of lepidopteran insect pests in vegetables.



Dr. P. Nagarjuna Reddy, Scientist (Agril. Extension) conducted training programme on Feed and Fodder management practices in livestock at Siddavaram (V), Venkatagiri (M), Tirupati District on 29.08.2025. Explained about importance of leguminous fodder crops like cowpea along with Napier and Super Napier fodder grass. Explained about Fodder sorghum varieties CSV-33 and Co-31 characteristics and their production measures. Created awareness on importance of Mineral mixture supplements in Sheep and Goat. Dr.Kranti kiran, VAS, Paravolu and farmers participated in the programme.



Training Programme Participated



Dr. V. Anoosha, Scientist (Entomology) participated as a resource person and delivered lecture on "Advanced pest management approaches for healthy cocoa nurseries and plantations" in the National cocoa conclave 2025: Transforming cocoa with technology, sustainable growth and self-reliance organized by DCCD, Cochin at AAU, Jorhat, Assam on 20-21st August. Also acted as a rapporteur for the Technical session -1 (Advances in a cocoa cultivation in India - quality planting material as the foundation for growth) during the conclave.

Dr. P. Sunitha, Sr. Scientist (Ento.) and Dr. M. Janaki, Scientist (Hort.), HRS, Peddapuram have participated in the Oil palm Mega Plantation drive programme conducting by Horticulture department in coordination with Patanjali oil palm company on 25.08.2025 at Kattamuru village to encourage more farmers for oil palm plantation. Sri Nimmakayala Chinaraajappa, Honorable MLA, Peddapuram constituency have attended as a Chief Guest.



POLAM PILUSTONDI:

Dr. S. Firoz Hussain, Scientist (Horticulture) and Dr. T. Vijaya Nirmala, Scientist (Veterinary Science), KVK, Vonipenta attended polam pilustondi programme at Adireddypalle village, Mydukur Mandal on 20.08.2025 and explained about sigatoka leaf spot in banana, planting methods in turmeric and IPM practices in chilli, management of seasonal diseases in livestock and their management.



On August 26, 2025, Dr. Rekha Eda, Scientist (Hort), KVK attended Polam Pilusthundi program at Chodavaram village of Nalajerla mandal.

T & V Meeting:

On August 23, 2025, Dr. Rekha Eda, Scientist (Hort), KVK, attended Training and Visit program at RARS, Marteru and discussed about the issues and problems due to continuous rains in agriculture and horticulture crops. The program was attended by the ADR, RARS, Marteru, JD, DHO and all ADA of west Godavari, all scientists of RARS, maruteru

Dr. P. Sunitha, Sr. Scientist (Ento.), Dr. YSRHU - HRS, Peddapuram participated as a resource person in the T & V meeting organized by ARS, Peddapuram on 30.08.2025 and given talk on pest & disease management in different horticultural crops.

Exposure Visits:

B.Sc. Food Science students from St. Teresa's Women College, Eluru visited Dr. YSR Horticultural University and its affiliated units in Venkataramannagudem on 26.08.2025. The program was coordinated by Dr. A. Devivaraprasad Reddy, Scientist (Fishery Science) KVK, V.R. Gudem. The students toured KVK's demonstration units, livestock facilities, and integrated farming systems, gaining practical insights into sustainable agricultural practices. Dr. Tirupathi Reddy, Principal Scientist & Head, and Dr. Naveen, Scientist, Post Harvest Research Station (PHTRS), VR Gudem explained about handling and processing of horticultural food crops and value added products. Dr. Chalapathi Rao, Chief PRO explained the museum, CRS, Electronic Wing. Dr. P. Vijaya Lakshmi, Head of KVK explained the importance in bridging academic knowledge with field-based applications.



Swachh Andhra - Swarna Andhra Program

On 18.08.2025, staff of Horticulture Research Station, Ambajipeta conducted the Swachh Andhra - Swarna Andhra Program for the month of August with the theme "MONSOON HYGIENE". In this programme, created awareness on use of anti vector fogging operations, clean ups of drains, preventing water stagnation in egg laying by mosquitoes at HRS, Ambajipeta.



Method Demonstrations:



Dr. D. Thirupal, Scientist (Horticulture), Dr. YSRHU-KVK, Periyavaram, conducted a method demonstration on "Installation of sticky traps (Blue & Yellow) in farmers Acid lime fields at Marlapudi village, Sydapuram mandal, Nellore District on 22 August 2025 and enlightened about the usage of blue and yellow colour sticky traps for different pest control like White flies, Aphids and Thrips as a non chemical method in Acid lime crop.

Attracting and Retaining Youth in Agriculture:

Dr. A. Devivaraprasad Reddy, Scientist (Fishery Science) from Krishi Vigyan Kendra, V.R. Gudem has facilitated the distribution of concentrate feed for goat and sheep rearing units under ARYA (Attracting and Retaining Youth in Agriculture) program on 25.08.2025. The event aimed to provide essential resources and encourage sustainable livestock entrepreneurship among young farmers, thereby boosting local livelihoods and promoting economic development in the region. Dr. Naga Raja Kumari, Senior Scientist, SVVU- BRS, VRGudem has explained about the scientific management of small ruminants.



OFTs & FLDs



On 20.08.2025 Dr. I. Rajeevana, Scientist (Soil Science) conducted field visit in green gram crop as Front-line demonstration on Introduction of new Green-gram variety LGG-607, at Boredugunta village of Venkatagiri mandal. of Tirupati district. Observed the crop at 15 DAS stage, incidence of flee bettel and suggested to spray acephate 1.0 gm per liter.

Diagnostic field visit

Dr. D. Thirupal, Scientist (Horticulture), Dr.YSRHU-KVK, Periyavaram, visited the Acid lime fields of Marlapudi and Chaganam villages, Sydapuram mandal, Nellore District on 22nd August 2025 and identified the Canker disease and suggested spraying of Copper Oxy Chloride @ 60g + Streptocycline @ 2g per 20 liters of water and also observed the Citrus Psylla and Leaf eating caterpillars pests infestations in farmers Acid lime orchards. Suggested spraying of Neem oil 10000 ppm @ 5ml/l followed by spraying of Thiomethaxam 25 WG @0.3 g/l (OR) Nevaluron 10 EC @ 0.8 ml/l and spraying of Profenophos @ 2ml/l of water, respectively.



Technical support to RBK Channel

Following Scientists of Dr YSRHU were deputed for recording technical content at Integrated Call Centre, Gannavaram through RBK Channel during the August Second fortnight, 2025.

Date	Topics	Scientist Name
18-08-2025	కొబ్బరి మరియు నూనె తాటి తోటల్లో తెగుళ్ల యాజమాన్యం	Dr. V. Govardhan Rao, Scientist (Plant Pathology), HRS, Ambajipeta
22-08-2025	మామిడి అంటుమొక్కల ఎంపికలో జాగ్రత్తలు	Sri G. Sandeep Naik, Scientist (Plant Pathology), HRS, Anantharajupeta

25-08-2025	చామంతి పూల సాగులో మెలకువలు	Dr. P. LalithaKameswari, Principal Scientist (Hort.) & Head, HRS, Kovvur
29-08-2025	హైడ్రో ఫోనిక్స్ లో మెలకువలు	Dr. N.V.GowthamDeekshithulu, Scientist (Ag. Engineering), HRS, V.R.Gudem

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