



Dr. YSRHU *e-News letter*

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

Volume.VI, Issue-11

Dr.YSRHU e-Newsletter

1st to 15th July, 2020



Fortnight Focus

- Events
- Education
- Research
- Extension
- General

Events

Sri Alluri Seetharama Raju birthday celebrations

On 04.07.2020, 123rd Birth anniversary celebrations of revolutionary freedom fighter Sri Alluri Seetharama Raju were celebrated at Administrative office, all the constituent colleges, Research Stations and Krishi Vigyan Kendras of Dr. YSRHU.



Vice-Chancellors Visits



Dr.T. Janakiram, Hon'ble Vice Chancellor along with university officers of Dr.YSRHU visited the University museum on 03.07.2020 and monitored the ongoing activities and also visited the community radio station, electronic wing and State level farmer awareness creation centre units. In this visit Dr E.Karunasree, Principal Scientist & Head, Dr.V.Deepthi, Scientist (Agricultural Extension) KVK, Venkataramannagudem

has participated.

On 09.07.2020, Dr. T. Janakiram, Hon'ble Vice-Chancellor and Dr. B. Srinivasulu, Director of Extension visited KVK, Venkataramannagudem and interacted with scientific staff regarding ongoing technical programs, activities and also observed the KVK farm and given suggestions for the improvement of farm that could be more visible to the farming community.



Dr.Y.S.R Rythu Dinosthavam

Dr.YSRHU organised 'Dr.Y.S.R Rythu Dinosthavam' on the eve of birth anniversary of Dr. Y. S. Rajasekhara Reddy, former Chief minister of Andhra Pradesh on 08.07.2020 through online under the chairmanship of Dr.T. Janakiram, Hon'ble Vice-Chancellor. Sri. Kottu Satyanarayana garu, Hon'ble MLA, Tadepalligudem constituency attended as chief guest and addressed the farmers. All the University officers, scientific staff of all Research Stations and KVKs have participated in this program. Later Farmer-Scientist interaction programme was conducted.



Inaugurations

Dr.T.Janakiram, Hon'ble Vice-Chancellor inaugurated 'Farmer Advisory Cell' at University Museum, Venkataramannagudem on the eve of Dr.Y.S.R Rythu Dinosthavam on 08.07.2020. In this programme university officers of Dr YSRHU and KVK staff participated.



Webinar on "Post-COVID Banana Cultivation



With due thanks to Sri. Y.S. Jagan Mohan Reddy garu, Hon'ble Chief Minister, Andhra Pradesh towards his vision in establishing Rythu Bharosa Kendras (RBKs), Sri, Kurasala Kannababu garu, Hon'ble Minister of Agriculture and Co-operation, Marketing and Food processing addressed the gathering and interacted with the farmers attended through different RBKs of Andhra

Pradesh on "Post Covid Banana Cultivation" in a Webinar organized under the Chairmanship of Dr. T.Janakiram, Hon'ble Vice Chancellor. Sri. Chiranjiv Choudhary, IFS, Commissioner of Horticulture interacted with the farmers and explained about the importance of quality produce to export and briefed about Startup India. Dr.R.V.S.K Reddy, Director of Research and Dr. C.K. Narayana, Principal Scientist, IIHR, Bengaluru presented an excellent visual information on postharvest value addition for Banana by clarifying the doubts posed by the farmers and Horticultural Department officials. The programme was convened by Dr. R. Nagaraju, Principal Scientist (Hort) and Scientists of HRS, Anantharjupeta, YSR Kadapa District on 11-07-2020 from HRS, Anantharjupeta. More than 350 Farmers through RBKs, Scientists and officials from various Departments viz., Horticulture and Agriculture, AP Micro Irrigation project, and entrepreneurs attended.

Education

Miss. T.S.S. Chandana, M.Sc.First Year (Plant Pathology), CoH, Venkataramannagudem got selected for CSIR-Summer Research Training programme (CSIR-SRTP) 2020 (online) for two months organized by CSIR-NEIT, Jorhart, Assam with the guidance of Dr.K.Sesha Kiran, Assistant professor (Pl.Path).

Research

State Level Technical Programme Meeting

13th State Level Technical Programme (SLTP) meetings on Horticulture of Dr.YSRHU was held from 13th - 15th July, 2020 through online under the chairmanship of Dr.T.Janakiram, Hon'ble Vice-Chancellor in the presence of Dr.R.V.S.K.Reddy, Director of Research & Univ. Head (Genetics & Plant Breeding), Dr.B.Srinivasulu, Director of Extension & Univ. Head (Plant Pathology), Dr.M.L.N.Reddy, Dean of Horticulture & Univ. Head (Spices, Plantation, Medicinal & Aromatic Crops), Dr. J. DilipBabu, Director of Research & Univ. Head (Post Harvest Technology), Dr.A.Sujatha, Dean of Student Affairs & Univ. Head (Entomology), Dr.K.Gopal, Registrar and Univ. Head (Plant Physiology, Bio-chemistry & Microbiology), Dr.A.S.Padmavathamma, Controller of Examinations and Dr.D.Venkata Swami, University Librarian. Reviewed the work done during 2019-20 and finalized the technical programmes for 2020-21 by the university heads of Dr.YSRHU. All the scientists from research stations presented the work done during 2019-20 and the proposed technical programme of work for the year 2020-21.



Extension

Training Programmes

From 02.07.2020 to 03.07.2020, KVK, Pandirimamidi conducted two days refreshing training program on beekeeping practices at P.M.Kota village of Maredumilli mandal. Beekeeping practices to be carried out during lean period, wax moth infestation, nature of damage and management practices were dealt in the training program. Sri Salmon Raj, F.A, Rubber board, Rampachodavaram. About 22 farmers have participated in the program. Dr.S.Adarsha, Scientist (Ento.) and Sri N.Chiranjeevi, R.A. (Pl. Path.) coordinated the programme.



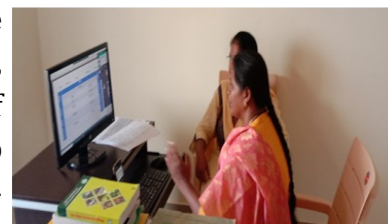
KVK, Venkataramannagudem conducted the one-day training program (off campus) on "Best Management Practices in Fish Farming" to the practicing farmers of Buttaigudem Mandal, West Godavari district on 03.07.2020. Dr.T.Vijaya Nirmala, Scientist (Veterinary Science) explained about the sanitization before and after the usage of farm gear and equipment, personal sanitation. The extension functionaries and farmers have interacted after the

technical sessions. Dr. A.Devivaraprasad Reddy, Scientist (Fishery Science) has explained about the Scientific Management of Fish farming for enhanced income and sustainability and the importance of water quality management after harvesting the water.

On 03.07.2020, KVK, Venkatarmannagudem conducted deworming camp at Ravigudem village, Buttaigudem mandal and 138 number of animals were dewormed. This program was co-ordinated by Dr. T.Vijaya Nirmala, Scientist (Veterinary Science) and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science).

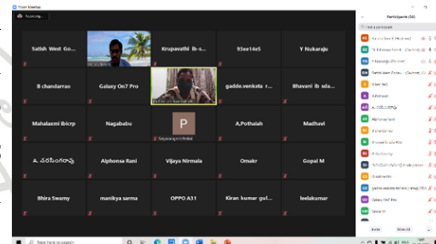


On 04.07.2020, KVK, Vonipenta conducted online training programme on 'House hold food security through Agri Nutri Farming'. R. Suneetha, RA (Home Science) explained about food security, different types of farming systems by selecting seed and planting materials with bio fortified varieties, hybrids, high yielding Nutri rich varieties, horticultural crops and to maintain one or two other enterprises like live stock, Apiculture, mushroom culture, Fisheries etc. Agri nutri farming provides nutri rich food as well as income to small and marginal farmers.



On 06.07.2020, KVK, Vonipenta conducted off campus training programme on "Importance of Seed treatment" at Madirepalli village of Duvvuru mandal. Sri.G.Sandeep Naik, Scientist & Head and Srividya Rani.N, Scientist (Extension) explained regarding the importance of seed treatment, methods of seed treatment, bio-control agents and chemicals to be used for seed treatment in groundnut, turmeric, blackgram and paddy. Also provided mask and sanitizers during this COVID times as a precautionary measure. 30 farmers attended the programme.

KVK, Venkataramannagudem conducted one-day training program on "Fisheries based integrated farming systems" in collaboration with Zero Budget Natural Farming (ZBNF), Agriculture Department, West Godavari District to the extension functionaries and farmers of West Godavari District through online on 06.07.2020. Dr. A.Devivaraprasad Reddy explained about the fish farming practices for enhanced income and sustainability. The extension functionaries and farmers have interacted after the technical sessions. Dr. E.KarunaSree, PS & Head and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science) coordinated the programme.



KVK, Pandirimamidi organized three days skill development training program on 'Value addition in Jackfruit' from 06.07.2020 to 08.07.2020 under TSP 2020-21. Technical sessions were conducted on Jack fruit cultivation practices by KVK scientists. Master Trainee gave hands on training on preparation of Jack fruit Chips, Mixture, Pakodi, Bajji, Jack fruit biryani, pickle with mature unripe fruits, preparation of halwa, chocolate, jam, custard, ice cream, juice etc. with ripe fruits. Preparation of around 15 value added products of jackfruit were demonstrated and trainees got involved in preparation of these products. At valedictory session, Dr.P.Lalitha Kameswari, Sr.Scientist & Head, KVK, pandirimamidi invoked the guests and briefed about the training program. Sri Satyam Naidu, APD- Velugu, Program Associate, TRIFED, addressed the trainees about the importance of processing & value addition in Jack fruit, its potential in agency area and also distributed the certificates. In this programme, scientists of HRS, Pandirimamidi, KVK, Pandirimamidi, CDR - NGO officials and 25 trainees (rural youth-women) from Maredumilli and Rampachodavaram mandals of East Godavari & Visakhapatnam districts have participated.



On 08.07.2020, Sr.G.Sandeep Naik, Scientist & Head, KVK, Vonipenta attended a training programme as technical resource person organized by Dept. of Horticulture at Vonipenta and Adireddypalli villages of Mydukur mandal. Explained about best management practices, pests and disease management practices in turmeric and banana. In this programme Smt. Tejaswini, Horticultural Officer and Smt. Lakshmi Prasanna, Agricultural Officer, Mydukuru and 32 farmers have participated.

Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science), KVK, VRGudem has participated as resource person in the National Fish Farmers Day Celebrations at Fisheries Training Center, Badampudi on 10.07.2020 organised by Department of Fisheries, Government of Andhra Pradesh and delivered a talk on importance of Fish farmers day, scientific practices of fish farming and importance of water quality management. Later on felicitated the progressive farmers for their achievements.



On 10.07.2020, scientists of KVK, Vonipenta conducted group discussion and interacted with the farmers of B.Koduru mandal regarding KVK activities, identified SC farmers for implementation of the activities regarding SC-sub plan and IIHR-SC sub plan. Sri.G.Sandeep Naik, Scientist & Head and Srividya Rani.N, Scientist (Extension) coordinated the programme.

On 15.07.2020, KVK, Vonipenta conducted On-campus training programme at KVK, Vonipenta on "Safe use of pesticides". Sri.G.Sandeep Naik, Scientist & Head and Srividya Rani.N, Scientist (Extension) explained the farmers regarding precautions to be taken while purchase of pesticides, their transportation, mixing, spraying and disposal of surplus pesticide solution and containers. Also explained about toxicity levels and use of pesticides based on incidence and severity of pests and diseases in the main crops. In this programme 23 farmers have participated.



On 15.07.2020, KVK, Periyavaram conducted training programme on "Importance of nursery management in vegetable crops" at Lalapeta village, Venkatagiri mandal. Dr.B.Govinda Rajulu, Principal Scientist & Head acknowledged the farmers about the importance of Organic vegetable production in household areas during this COVID -19 pandemic. Dr. P. Avani, Research Associate (Hort.) gave detailed explanation on importance and procedure of practicing seed treatment and nursery raising of vegetable crops. Later group discussion was conducted about the need and problems faced by the vegetable growers and respective solutions were given. In this training ZBNF (Zero Budget Natural Farming) staff U. Ramanjaneyulu (S.D.A) and N. Koteswara Rao (I.C.R.P.) have also participated and shared information about natural management of pest and diseases of vegetables.

Diagnostic Visits

On 03.07.2020, Dr. T.Vijaya Nirmala, Scientist (Veterinary Science) and Dr.A.Devivaraprasad Reddy, Scientist (Fishery Science) visited Aseel poultry unit distributed under ARYA project at Ravigudem village and suggested management practices to be taken up during rainy season in backyard poultry rearing and also precautions to be taken during incubation of eggs.



On 07.07.2020, Dr. K. Venkata Subbaiah, Scientist (Hort.), Dr. U. Shiva Kumar, Research Associate (SSAC) visited papaya field for monitoring papaya transplanting at Amruthapuram village and given suggestions on planting, and management after transplanting. Also discussed about fertigation schedule in papaya and its implementation.

On 10.07.2020, Dr. T.Vijaya Nirmala, Scientist (Veterinary Science) visited Aseel poultry unit maintained by women farmer at Pedatadepalli village and suggested deworming of birds with Piperzine (0.5 ml/bird) and also preventive treatment of birds with Lixenpowder @ 0.5g/liter of water orally to protect the birds from common diseases encountered during rainy season.



Dr.A.Devivaraprasad Reddy, Scientist, KVK VRGudem has diagnosed the fish sample brought by the farmers and found that infested with argulus and reddisease. Suggested the integrated management of argulus and red disease to apply probiotics in feed along with ivermectin based products and also removal of weeds on the pond dykes if any.

On 13-07-2020, Dr. T. Nagalakshmi, Scientist (Pl. Path) and Dr. Y. Sharat Kumar Reddy, Scientist (Pl. Phy), HRS, Anantharajupeta visited a mango garden which is severely affected with mango shoot borer at Settigunta, Rly.Kodur, YSR Kadapa district for implementing the AICRP project on "Management of mango gardens affected with Mango Shoot borer (*Batocerarufomaculata*) using Arka Borer Control (ABC) and imposed the treatments by preparing ABC paste and applied to the trunks of borer infested mango tree trunks. Collected data on number of live holes on each trunk.



On 04.07.2020, Sri.G.Sandeep Naik, Scientist & Head and Dr. V. Yugandhar, Research Associate (Hort.), KVK, Vonipenta visited banana fields at Thimmayapalli village of Mydukur mandal. Observed *Erwinia* rot and heart rot symptoms in banana and suggested for removal and destruction of infected plants followed by application of bleaching powder @ 25 g/l or *Pseudomonas* @ 50 g/l before planting the new banana plant for gap filling for *Erwinia* rot and suggested to cut the rotted portion followed by spraying of Copper oxy chloride @ 30g + streptomycin @ 1g/ 10 litre of water against heart rot.



On 07.07.2020, Sri.G.Sandeep Naik, Scientist & Head and Srividya Rani.N, Scientist (Agri. Extn.), KVK, Vonipenta visited sweet orange field for diagnosis of pests and diseases at Nagasanipalli village of Khajipeta mandal. Observed leaf miner infestation in sweet orange and suggested to spray profenophos @ 2ml/l.

On 09.07.2020, Dr. V. Nagarjuna, Research Associate, (Soil Science) , KVK, Vonipenta visited banana fields for diagnosis of pests and diseases at Lekkalavaripalli and Mittamanupalli villages of Mydukur mandal. Identified *Erwinia* rot in banana and suggested soil drenching with *Pseudomonas* @ 50 g/l or bleaching power @ 25 g/l before planting of new plants in the infected pits for gap filling.



On 10.07.2020, Dr. V. Nagarjuna, Research Associate, (Soil Science) and Smt. SuneethaRunjala (Home Science) visited groundnut fields at Madirepalli village of Duvvur mandal. Identified stem rot disease in groundnut and suggested soil drenching with hexaconazole @ 0.2 % near the root zone of infected plants.

ARYA

On 07.07.2020, Sri G.Shali Raju, Scientist (Ento.), KVK, V.R.Gudem visited apiary enterprise established under Attracting and Retaining Youth in Agriculture (ARYA) Project and explained about the safety measures to be followed during rainy season. Later distributed *A.cerana* boxes (10 Nos) for division of colonies at Kamaiahkunta-village,Buttaihgudem mandal.



On 14.07.2020, KVK, Venkataramannagudem distributed okra seed var. Arka Nikita (F1 Hybrid) to okra farmers under technical program "Introduction of okra F1 hybrid Arka Nikita".

PKVY

On 07.07.2020 and 13.07.2020, KVK, Pandirimamidi has conducted monthly review meetings for cashew farmers who are identified and registered as local groups under the project on Paramparagat Krishi Vikas Yojana (PKVY) at KVK, Pandirimamidi. In this meeting, seasonal practices to be followed in cashew like pruning and weeding were explained to farmers and discussed with farmers regarding



action to be implemented with regard to organic package of practices in cashew as part of this PKVY programme. Dr. P. Lalitha Kameswari, Senior Scientist & Head and P Raja Sekhar, Scientist (SS&AC) coordinated the programme.

On Farm Trials

On 07.07.2020, P Raja Sekhar, Scientist (SS&AC), KVK, Pandirimamidi visited paddy fields at Bandapalli, I.Polavaram and Thallapalem villages of Rampachodavaram mandal. Collected soil samples as part of the on-farm trial on “Assessment of Novel Organic Liquid Nutrients in Paddy” to record the initial fertility status of soil and observed paddy nurseries laid under farmers practice.



On 10.07.2020, Smt. R. Suneetha, Research Associate (Home Science) and Dr.V.Nagarjuna, Research Associate (SSAC), KVK, Vonipenta had initiated OFT on “Nutri garden model suitable for farm families” at Madirepalli village of Duvvuru mandal. Scientist explained two models of nutri garden and conducted sowing in two models i.e., APAU and Reliance Nutri Garden models. Provided NHRDF seed kits which contains spinach (All Green), fenugreek (RMT-305), coriander (GDLC-1), drumsticks (PKM-1), bottle gourd (PusaNavin), cucumber (Pusa Uday), onion (Agrifound dark red), cauliflower (KashiGobhi-25), radish (PusaChetki), chilli (PusaJwala), cowpea (KashiKanchan) and okra (Arka Anamika).

Method Demonstrations

On 04.07.2020, Sri. G. SandeepNaik, Scientist & Head and Dr. V. Yugandhar, Research Associate (Hort.), KVK, Vonipenta conducted method demonstration on seed treatment in turmeric at Settivaripalli village of Mydukur mandal. Scientists demonstrated by dipping seed rhizomes in metalaxyl@ 3g/l solution for 30min to manage the incidence of rhizome rot disease. They have explained



about the importance, advantages and precautions to be taken while doing seed treatment and provided Metalaxyl chemical to the beneficiaries under FLD on “ICM in Turmeric”.

Soil Samples

On 09.07.2020 and 10.07.2020, Dr. V. Nagarjuna, Research Associate, (Soil Science) and Smt. Suneetha Runjala (Home Science), KVK, Vonipenta collected soil samples from farmer’s field at Madirepalli and Chenchaiharipalli villages of Duvvur and B.Mattam mandals. The scientists explained the importance of soil and water analysis and also demonstrated the procedure of soil sample collection.

Meetings

On 15.07.2020 Dr. V.Deepthi, Scientist (Agricultural Extension) KVK, Venkataramannagudem attended action plan preparation meeting on APIIATP (AP Integrated Irrigation and Agriculture Transformation Project) at Joint Director of Agriculture office, Eluru. Discussed about capacity building programmes on integrated farming system, crop production technologies, post harvest



management, organic approach of crop management and FPO administration. In this meeting Shri K Venkata Ramana Reddy, Joint Collector & Additional District Magistrate of West Godavari, Dr. Gousia begum, Joint Director of Agriculture, Dr.P.Srinivasarao, Joint Director of Animal Husbandry participated as chief guests.

Dr. K.T.V.Ramana, Dr. L. Mukunda Lakshmi, Dr.D.Srinivasa Reddy and Dr. T. Rajasekharam, CRS, Tirupati attended Webex meeting with Project Co-ordinator, ICAR-AICRP on Fruits on 09.07.2020.

A team consisting of Dr.A.Sujatha, Dean of Student Affairs, Dr.R.V.S.K.Reddy, Director of Research, Dr. B.V.K. Bhagavan, Principal Scientist (Hort.), HRS, Ambajipeta and Dr.G.Ramanandam, HRS, Kovvur proceeded to seed production farm Peddapet village, Burja mandal, Srikakulam district to inspect the site for feasibility to establish Horticultural Research Station under Dr.YSRHU on 09.07.2020 & 10.07.2020.

On 03.07.2020, Sri.G.Sandeep Naik, Scientist & Head, Ms.SrividyaRani.N, Scientist (Agri. Extn.), KVK, Vonipenta and KVK staff have attended a webinar on “Agriculture Extension priorities during COVID times” organized by RCRC coalitions V open House discussion.

Visits

On 14th July 2020 farmers of Varikuntapadu village, Varikuntapadu mandal of Nellore district visited KVK, Periyavaram regarding Petlur Acid lime seedlings. Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.) & Head, KVK, Periyavaram enlightened the farmers regarding Petlur Acid lime varietal characteristics, cultivation and management practices of pest and diseases.



HRD

Dr.T.Vijay Nirmala, Scientist (Veterinary Science), KVK, V.R.Gudem attended online webinar on “Kadakhnath famring – present status to future prospects” organized by Krishi Vigyan Kendra, Jhabua, M.P on 09.07.2020.

Phone-in-live programmes

Dr.G.Ramanandam, Principal Scientist (Hort.) & Head, HRS, Kovvur has attended Phone-in-Live programme on ‘Tissue culture - Aratilo samagra poshaka yajamanyam’ at Doordarshan Kendra, Vijayawada on 06.07.2020.

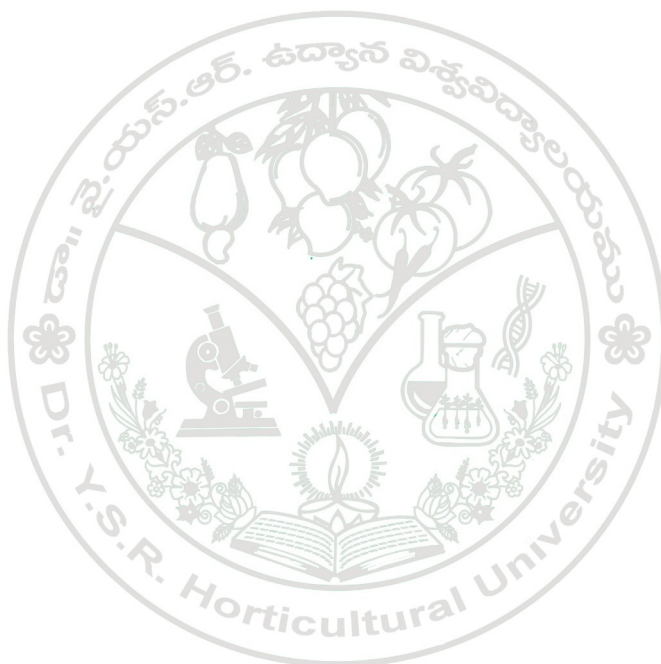
On 01.07.2020 Dr.B.Govinda Rajulu, Principal Scientist (Pl. Path.) & Head, KVK, Periyavaram recorded radio talk on 'COVID-19, Lockdown 5.0 precautionary measures-Kharif advisories for Agricultural and Horticultural crops part-2' which was broadcasted from AIR, Tirupati.



Publications

Bharathi Devi S., Rajasekhar M., Venkata Subbaiah K. and Uma Krishna K.(2020). Effect of Various Pre Treatments on Physicochemical Quality of Flour Made From Three Banana Varieties, *Ind. J. Pure App. Biosci.* 8(3), 378-387.

KC Bhanu Murthy and K Venkat Subbaiah, 2020. Impact of floral preservatives on anthocyanin content and vase life of cut *gerbera* cv. Savannah under ambient conditions. *Journal of Pharmacognosy and Phytochemistry* 2020; 9(4): 900-903.



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Published by: **Dr.T.Janakiram**, Vice-Chancellor

Compiled & Edited by : **Dr.B. Srinivasulu**, Director of Extension

Dr.R.V.S.K.Reddy, Director of Research

Dr.Y.S.R. Horticultural University

Administrative Office

Venkataramannagudem-534 101, W.G. Dist., A.P.