



Striving for a greener tomorrow...

PJTSAU NEWS



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From the VC's Desk



In an age driven by AI and IOT, it is time for the agricultural scientists and farming community to embrace revolutionary strategies for producing food, increasing productivity, and making sustainability a priority. Drones are part of that drive, calling for closer collaboration between governments, technology leaders, and industry. Unmanned aerial vehicles (UAVs), better known as drones, have been used commercially since the early 1980s in the west. Today, however, practical applications for drones in agriculture are expanding faster than ever and interest in

the country has peaked.

Drones are multi functional and can be deployed for **Soil and field analysis** where precise 3-D maps for early soil analysis aid in planning seed planting patterns and consequent irrigation and nutrient management. Drones are used in **Crop spraying** where they spray the correct amount of liquid, aided by distance-measuring equipment, ultrasonic echoing and lasers, based on topography/geography, resulting in increased efficiency with a reduction in environmental pollution. By far, the most efficient use of drones can be made for **Crop monitoring for irrigation and health assessment** which at the present rely on expensive satellite imagery or cumbersome manual means. Drones with hyperspectral, multispectral, or thermal sensors can identify which parts of a field are dry or need precise amount of water. By scanning a crop using both visible and near-infrared light, drone-carried devices can identify insect/disease damage enabling a speedy response for precision delivery of remedial measures. In the case of crop failure, the farmer/government will be able to document losses more efficiently in less time for insurance claims.

The drone technology, despite its advantages has to surmount several hurdles in our country, mainly regulatory challenges, affordability of agricultural drones due to fragmented nature of lands, pesticide and fertilizer precision dosing and finally lack of skill and knowledge for image analysis by an average Indian farmer. In addition, safety, security and privacy are contentious issues that need to be considered on priority. Nevertheless, PJTSAU has put a step forward to examine the feasibility of adopting drone technology on a pilot basis in two agroclimatic zones, The North and Central Telangana initially for pest monitoring and yield loss assessments. Let us hope that tech savvy agri graduates and young innovative farmers collectively come forward and work together with enthusiastic agri entrepreneurs, and industry partners to design low cost, location specific and target oriented models of drones suited for our country which has the potential to generate revenue and employment for many.

Dr. V. Praveen Rao
Vice Chancellor

Promising Technology

Production of Bio degradable paints for clay Ganesh idols

Green Ecology is the buzz word in today's life style as safe guarding eco-system became the prime need of mankind. With this vision College of Home Science, Hyderabad came up with a technology 'Eco Paints for Clay Ganesh' as a part of NAIP – Value Chain in Natural dyes, a World Bank funded ICAR project.



Clay Idols painted with natural colours

Scope of Technology:

The Ganesh idols are made by cottage industries and street side artisans using plaster of paris, harmful chemicals and synthetic paints, metallic colours like gold and silver are being used abundantly on the Ganesh idols which contains mercury, cadmium, lead and carbon having toxic effects on living beings and tend to accumulate in aquatic food chains.

Paints made of natural dyes contain natural pigments and natural gums which are easily bio-degradable without causing any disturbance to the aquatic life. In fact they may serve as food to the aquatic bodies. Water-based natural paints give off almost no smell. The oil-based natural paints generally have a pleasant fragrance of citrus or essential oils and allergies and sensitivities to these paints is also not noticed. This technology not only safeguards human health, but has a wider scope in providing livelihood to the farmers and farm labour. The natural dye yielding sources are either cultivated or may be collected during the season and stored as a revenue generation activity to the villagers, especially women.

Raw Materials:

The natural dye yielding sources are cultivated as commercial crops, fencing crops or may be collected from civil forests areas. Whatever may be the source it should be free from unwanted and spoiled materials. Once procured, raw materials need to be stored in cool, dry place avoiding direct sunlight.



Production of Bio degradable Paints



Natural dye sources used for producing bio degradable paints

Steps involved in preparation of Bio degradable paints from Natural Dye sources:

- ❖ The hard sources like roots, barks, rind and seeds are soaked overnight and boiled, while rest of the sources are directly boiled in measured quantity of water
- ❖ The boiled and softened raw materials are separated from its liquid extraction by squeezing.
- ❖ The liquid extracted from natural dye source is evaporated and condensed upto the required consistency to make into paint.
- ❖ The thickened extraction is added with natural fillers and resins to maintain the volume, viscosity and colour required. Preservative are also added to prolong shelf life of the paints.
- ❖ All the above mixture is blended vigorously to maintain the stability of the paint prepared.
- ❖ The paint is then filtered for impurities and packed.
- ❖ The prepared Bio degradable paints can be used for spraying the clay Ganesh idols.

Preparation of Bio degradable white paint:

A bio degradable white paint used as base coat for clay idols and for decorating the idols after colouring is prepared from Lime stone (mineral ore from earth). The steps in preparation of white paint are

- ❖ Powder the lime stone
- ❖ Soak in required quantity of water
- ❖ Add required quantity of natural resin
- ❖ Blend the mixture
- ❖ Filter and store

Bio degradable Paints and Sources:

Wider range of colours can be produced from different natural dye yielding sources. The production is limited to the most acceptable colour palette for Ganesh idols. The natural dye yielding source and the colour obtained are given below.

Natural dye sources and colours

Source	Colour
<i>Bixa orellana</i> (Seed)	Orange
<i>Punica granatum</i> (Rind)	Golden Yellow
<i>Tagetes erecta</i> (Flower)	Yellowish green
<i>Indigo feratinctora</i> (Plant)	Blue
<i>Indigo feratinctora</i> + <i>Tagetes erecta</i>	Green
<i>Onosma echinoids</i> (Roots)	Black
<i>Butea monosperma</i> (Flower)	Light brown
<i>Butea monosperma</i> (Gum)	Red
<i>Caesalpinia sappan</i> (Heart wood)	Maroon
<i>Caesalpinia sappan</i> (Heart wood)	Pink
<i>Caesalpinia sappan</i> (Heart wood)	Violet



Few shades of Bio degradable paints

Natural Dye Processing and Incubation Centre:

Telangana State Pollution Control Board (TSPCB) has sponsored a project on "Bio-degradable ecopaint production for idol painting with Natural dyes on large scale" with a budget outlay of Rupees One Crore to PJTSAU in the year 2016 to establish a large scale natural dye paint production unit which is first of its kind in India with a production capacity of 2 tonnes of paint per day. The unit- "Natural Dye Processing & Incubation Centre" is located at PJTSAU, Rajendranagar, Hyderabad. Every year the unit produces 18 to 22 tonnes of Bio degradable paints. The same premises of the processing centre is also being used for producing another promising enterprise technology - 'Eco-Holi' powders.



Machinery at Natural Dye Processing & Incubation Centre for Large scale paints production

New Initiatives

AICRP Dryland Centre allocated to ARS, Adilabad

Agricultural Research Station, Adilabad was allocated a voluntary centre for All India Coordinated Research Project on Dryland Agriculture by ICAR joining the group as 31st member in a meeting held on 17th April, 2018 chaired by Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU. Dr. R. Jagadeeshwar, Director of Research, Dr. K. Sammi Reddy, Director, ICAR-CRIDA and Dr. G. Ravindra Chary, Project Coordinator (Dryland Research), AICRPDA expressed their

respective opinions on the dryland research scenario in the country.

Dr. M. Venkata Ramana, Dr. R. Uma Reddy and Dr. G. Raghuram Reddy, ADR's of Palem, Jagtial and Warangal presented the need and scope of dryland research in their respective zones. After purposeful interactions, it was decided to establish the new voluntary



Interactive session for identification of AICRPDA centre at PJTSAU

centre at ARS, Adilabad in Northern Telanagana Zone based on its topography, rainfall distribution pattern, soil types, soil erosion, cropping pattern, irrigation resources, yield levels of the different crops, malnutrition, low literacy rate, land holding, socio-economic status of the farmers etc.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor addressing the participants at the Technical Workshop

Consequently, a one-day Technical Workshop was held on 26th May, 2018 at ICAR-CRIDA, Hyderabad to formulate Technical programme for 2018-19 for the newly identified five voluntary centres of AICRPDA including proposed centre at ARS, Adilabad.

Nirmiti - 2018 - Upsurge of Traditional weaves to suit modern tastes

Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU inaugurated "Nirmiti- 2018"- Lift the Hands for Handloom, a designer show organized by the Dept. of Apparels and Textiles, College of Home Science, PJTSAU at University Auditorium on 3rd May, 2018. The students transformed the traditional handlooms of Telangana into more acceptable western designs so as to popularize and provide sustained livelihood to the weavers. Seven designer lines were showcased and judged by jury from Apparel & Textile fields. One Kalamkari artisan and three Weavers were felicitated

on the occasion. The designers T. Anil Swarup, M. Yamini and S. Archana received first prize for the modern apparels designed from handlooms of Kamalapur cluster of Warangal urban dist., while Ch. Harinath, C. Harika and Ch. Swathi received second prize for designing executive ware from the traditional handlooms of Armoor cluster of Nizamabad district. The show and fabrics were sponsored by Director, Textiles & Handlooms, AEPC's, Govt. of Telangana. The talent of the students came up for much praise from the event sponsors and audience.



Winners of Nirmiti-2018



Fashion show at Nirmiti-2018

Seed Mela - 2018 - Stockpile of Quality seed

The University organized the Seed Mela 2018 simultaneously at Rajendranagar, Jagtial, Palem and Warangal on 24th May 2018 to supply quality seed to the farmers of Telangana state. Sri Pocharam Srinivas Reddy, the Hon'ble Minister for Agriculture, Telangana state inaugurated the mela and formally launched the seed

distribution by handing over a paddy seed bag to a farmer. The Hon'ble Minister in his address opined that integration of scientific knowledge and diligent efforts of farmers will transform agriculture to the desired level and informed that seeds including those of green manure crops will be supplied under 50 % subsidy to farmers. He further

appreciated the earnest efforts of the University in developing outstanding paddy varieties like Telangana Sona, Batukamma and Kunaramsannalu. Sri Kondabala Koteswara Rao, Chairman, TSSDC reiterated that the climatic conditions of the state are best suited for Seed production and encouraged the farmers to seize the opportunity.



A farmer's feedback on seed mela

Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU and chairman of the program while addressing the gathering announced that the seed *mela* would be a regular event every year organized on 24th May thereafter. Twenty four varieties of seed viz. fine grain paddy varieties (RNR 15048, WGL 44, Krishna, BPT 5204) , coarse grain paddy varieties (JGL 18047, KNM 118, MTU 1010), maize (DHM 117), sorghum (CSV 31), redgram (WRG 65, PRG 176, TDRG

4, Asha), greengram (MGG 295, MGG 347, MGG 351, WGG 42), blackgram (PU 31), castor (PCH 111), sesame (Swetha) and forage crops like Hedge lucerne and Avisia (*Sesbania grandiflorum*) were displayed for sale. A total of 415.67 q of seed worth Rs. 17.52 lakhs was sold to 795 farmers.

The program was organized in association with Indian Institute of Rice Research (IIRR), Indian Institute of



Sri Pocharam Srinivas Reddy, the Hon'ble Minister for Agriculture at PJTSAU Seed Sale counter

Oilseeds Research (IIOR), Indian Institute of Millets Research (IIMR), Directorate of Poultry (PDP), Sri Konda Laxman Telangana State Horticultural University (SKLTSU), P.V.Narasimha Rao Telangana Veterinary University (PVNTVU), National Seed Corporation (NSC), Telangana State Seed Development Corporation (TSSDC) and Telangana State Seed and Organic Certification Agency (TSSOCA).

Seed Hubs for producing Quality seed of Oilseeds

A program on “ Creation of seed hubs for enhancing quality seeds availability of major oilseed crops “ under NFSM-oilseeds (Soybean) and a training to create awareness on seed production technologies for quality soybean seed production was organized on 6th June 2018 at Kouta Village, Boath Mandal, Adilabad district. Soybean seeds of JS 335 and Basar were distributed to the participant farmers. Dr. M. Nagesh Kumar, Director (Seeds), SRTC, Dr. R. Uma Reddy, ADR, RARS, Jagtial, Sri N.Ramesh, ADA (R), DAO, Adilabad graced the occasion while Scientists, ARS, Adilabad provided the necessary scientific resource for the program. More than 60 farmers from Kouta, Boregama and Adegaon villages attended the program.



ADR (NTZ), Director(Seeds) and Scientists of ARS, Adilabad distributing Soybean seed to farmers

Inauguration of New Agricultural College, Sircilla

Sri K. T. Rama Rao, the Hon'ble Minister for Information Technology, Municipal Administration &

Urban Development inaugurated a new Agricultural College at Sircilla, Rajanna Siricilla dist. on 13th June 2018.

The Hon'ble Minister expressed that new college was started to meet the emerging agri technical human resource needs of the farming community of the state. Sri Pocharam Srinivas Reddy, the Hon'ble Minister for Agriculture was the chief guest for the programme. Dr. V. Praveen Rao, the Hon'ble Vice chancellor, PJTSAU welcomed the gathering, Dr. S.Sudheer Kumar, Registrar and Dr. Kuldeep Singh Dangi, Dean of Agriculture graced the occasion. With this the total number of constituent Agricultural colleges in PJTSAU rose to 6 with a student intake of 432 in the year 2018-19.



Sri K. T. Rama Rao, the Hon'ble Minister at inauguration of Agricultural College, Sircilla

Workshops, Conferences, Meetings, Seminars

Research and Extension Advisory Council (REAC) meeting - Planning ahead

The First Research and Extension Advisory Council (REAC) meeting was organized by the University on 10th April, 2018 at the University Auditorium, Rajendranagar under the Chairmanship of the Hon'ble Vice Chancellor.

Dr V. Praveen Rao in his address informed that university research and extension centers' were working for developing and transmitting location specific technologies for the state, aimed at providing food and nutritional security in addition to sustainable development of agriculture in Telangana state. He further stressed upon the need for adoption of revolutionary changes occurring across the world in the field of agriculture. Dr. M. Jagan Mohan IAS, the Director & Commissioner of Agriculture and the Chief Guest wished

that the University research and extension activities should go hand in hand with the Dept. of Agriculture for transmitting better results to farmers. He also informed that the state has stood as a role model in agriculture at the national level due to introduction of schemes like Rythubandhu, Rytu Samanvaya Samithi etc for the welfare of the farming community.

Dr. S. Sudheer Kumar, Registrar presented the research progress of the varsity during the years 2014-15 and 2015-16, while Dr. D. Raji Reddy, Director of Extension presented highlights of Extension activities during the years 2014-15 and 2015-16. Hon'ble Board Members, PJTSAU, REAC Members, Programme Co-ordinators, KVKs and Co-ordinators, DAATTCs participated in the meeting.



Sri M. Jagan Mohan IAS, lighting of the lamp during first REAC meeting



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor addressing the participants at REAC meeting

Annual Workshop on Groundnut

A three day Annual Groundnut workshop was organized from 18th to 20th April, 2018 at the University Auditorium, Rajendranagar. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU in his inaugural address emphasized

the need to enumerate the reasons behind varied productivity at different locations, pushed for promoting mechanization in groundnut and development of varieties suitable for mechanized cultivation.

Dr. A. Vishnuvardhan Reddy, Director, Indian Institute of Oilseeds Research informed that 60% of oil requirement of the country are met by imports accounting to 73000 crores, hence he emphasized the need to develop varieties resistant to viral diseases which are the major impediments to oilseed production. Dr. Masood Ali, Ex. Director, Indian Institute of Pulses Research while applauded the breeders for developing excellent varieties in Groundnut emphasized on development of area wise production technologies, adoption of mulching technique under rainfed situation and the need to develop short duration varieties suitable for various cropping systems thereby increasing the area under Groundnut cultivation.

Dr. S. N. Nigam, Ex. Principal Scientist, ICRISAT rooted for the usage of Biotechnology tools to develop drought tolerant and pest resistant cultivars. He further emphasized on the need to increase Seed Replacement Rate (SRR) along with development of low cost production technologies for Groundnut. One hundred and ten (110) participants from 22 AICRP centers across the country participated in the workshop and deliberated on various issues like crop improvement, production and protection technologies for enhancing the productivity and profitability of groundnut cultivation.



Lighting of the lamp at the Groundnut workshop by Dignitaries



The Hon'ble Vice Chancellor, PJTSAU addressing the participants at the Groundnut workshop

Academic council meet – Strengthening Academic quality and regulations

The 8th Academic Council of PJTSAU was held on 1st May 2018 under the chairmanship of Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU at University auditorium. The council discussed various issues pertaining to the academic matters of three faculties viz., Agriculture, Agricultural Engineering & Technology and Home Science. The suggestions of the members were judicially scrutinized and incorporated to improve the standards of the varsity. The university officers and academic members of Academic council participated in the meeting.



8th Academic council in session

PJTSAU Scientists participate in International Conference on Extension at Kandy, Srilanka

A three day conference on “Transforming Agricultural Extension Systems towards Achieving the Relevant Sustainable Development Goals (SDGs) for Global Impact” was organized by PRDIS, Hyderabad from 10th to 12th May 2018 at Kandy, Srilanka on themes viz., Poverty alleviation, Food and nutritional security, Education and learning, Gender equality and Empowerment of women, Water and

sanitary management, Climate change, Ecosystem sustainability, Peace and well being of the farming community. Eleven Scientists from PJTSAU including Dr. D. Raji Reddy, Director of Extension, Dr. B. Savitha, Deputy Director of Extension, Dr. G. Samuel, Dr. M. Srinivasulu and Dr. A. Sailaja, Professors from the Department of Extension Education, College of Agriculture, Rajendranagar, Dr. K.

Anand Singh, Dr. M.Jagan Mohan Reddy and Dr. C. Padma Veni, Programme coordinators from KVKs, Dr V. Ravinder Naik, Senior Scientist, AICC & PJTSAU Press, Dr. S. Naveen Kumar, Coordinator DAATT Centre, Nizamabad, Dr. N. Kishore, SMS (Extension) from KVK, Malyal participated in the conference and presented research papers under various themes like “Mitigating climate change - importance through technological dissemination”, “Interactive Information Dissemination System- an innovative ICT model for Agro Advisory Services to Indian farmers” and “Whether startups in Agriculture can restore pride in farming...?” were presented by Dr. D. Raji Reddy, Dr. B.Savitha, Dr. V. Ravinder Naik and Dr. Ch. Venu Gopal Reddy respectively.



Dr. D. Raji Reddy, Director of Extension with Scientists of PJTSAU at International conference, Srilanka

Brainstorming on 'Revision of ICAR model Act'

Professor Jayashankar Telangana State Agricultural University (PJTSAU) and Indian Council of Agricultural Research (ICAR) jointly organized Regional meeting (South Zone) on Revision of ICAR Model Act for higher agricultural educational institutions at the University campus on 14th May 2018 under the chairmanship of Dr. S.S.Chahal, Former Vice chancellor of MPUAT, Udaipur. The main discussion was on suitable amendments to the ICAR Model Act on governance in University system to improve the standards in agricultural education of State Agricultural Universities as well as private agricultural colleges in the country and on issues related to statutory bodies of State Agricultural Universities. Dr. S.S.Chahal highlighted need for the uniformity in administrative setup in different State Agricultural Universities and also on measures to be advocated for quality education throughout the country.

Dr. N.S.Rathore, Deputy Director General (Education), ICAR, emphasized the need to link up quality of education in the Universities with the release of grants from ICAR. He also suggested the need to integrate teaching, research and extension in Agricultural Universities. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU strongly encouraged capacity building of the faculty in Universities on par with International standards.

Dr. A. K. Srivastava, Chairman, ASRB, Director's of ICAR Institutes located at Hyderabad, V.C's and their representatives from TNAU, KAU, ANGRAU, PVNTVU,

SKLTSU, Hon'ble members of Board of Management, PJTSAU, University officials and student representatives participated in the programme.



Dr. S.S.Chahal interacting with the officials at Revision of ICAR Model Act



Participants with the chairman at the Brainstorming session

Annual Workshop on Pigeonpea

Annual Pigeonpea group meeting was held from 19th to 21st May 2018 at University Auditorium of PJTSAU jointly by Professor Jayashankar Telangana State Agricultural University (PJTSAU) and Indian Institute of Pulses Research (IIPR), Kanpur. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU in his inaugural address emphasized on development of new varieties suitable

for changing climatic scenario, mechanized cultivation for higher yields and encourage wide usage of digital technology for technology transfer to farmers. Finally he called upon the young scientists to lay the groundwork for the future challenges as agriculture would mainly depend on innovations and technologies in the years to come.

Dr. N.P. Singh, Director, IIPR, Kanpur spelled out the concerted efforts behind achieving self sufficiency in pulses with record yields of 24.52 MT during the year and proposed plan to attain a yield of 32 MT by 2030. Dr. I. P. Singh, Project

Coordinator, AICRP on Pigeonpea presented an overview of the project and research achievements during the year. Sixty (60) scientists from 24 Coordinated Research Centers across the country participated in the meet.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor addressing the Participants at workshop



National Pigeonpea scientific team at the workshop

Industry University Interface - Platform to discuss Inplant training for students

Confederation of Indian Industry (CII) and Professor Jayashankar Telangana State Agricultural University (PJTSAU) came together to organize a "Industry Interface" on 7th June 2018 with a vision to inculcate corporate work ethic and entrepreneurial skills in Agrigraduates by introducing internship program in collaboration with Agro Industries.

Subajit Saha, Director, CII, Telangana, University Officers, Hon'ble members of Board of Management, PJTSAU, Associate Deans of Graduate Colleges, M.D's and Chairman of Agro Industries participated in the programme and gave suggestions to encourage agri graduates towards entrepreneurship.

Dr. V. Praveen Rao, the Hon'ble Vice Chancellor narrated the antecedents of Student-READY program in under graduation and discussed the emphasis laid on imparting entrepreneurial skills and corporate culture among agricultural graduates. The industry personnel opined an internship program of 3-6 months would be helpful and the students should be encouraged towards entrepreneurship by organizing seminars, workshops and training programs during third year of their study.



Delegates at the Interface

Collaborations

PJTSAU in partnership with University of Florida

Furthering the prospects of international collaboration, PJTSAU explored possibilities for a partnership with University of Florida, USA, in areas of mutual interest particularly to initiate online certificate courses and joint degree programs in Agriculture.

Dr. K. Ramesh Reddy, Graduate Research Professor, Soil and Water Sciences Department, University of Florida held discussions with Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU on various fields of collaborations for faculty and student exchange in globally emerging areas which would be finalized with a formal MoU in June, 2018 during the visit of the Hon'ble Vice Chancellor to University of Florida, Gainesville.



Dr. K. Ramesh Reddy, Univ. of Florida interacting with University officials

Agri - Incubation centre - Mentoring Agripreneurs



Mr. Krishna Gopal, CEO, Axis Livelihood Consulting India Ltd. interacting with University officials

PJTSAU and Axis Livelihood Consulting India Ltd. assembled on 2nd May 2018 to review proposals on establishment of Agri Incubation Centre at Rajendranagar campus. Mr. Krishna Gopal, CEO, Axis Livelihood Consulting India Ltd. presented the proposed program to be integrated in the Graduation curriculum to upgrade the Agri graduates as competent entrepreneurs. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU proposed to issue an additional certificate in Agribusiness course to the outgoing graduates and further emphasized the need to explore flourishing areas of Agribusiness so as to mould them as successful entrepreneurs.

Boosting Farm sector in Telangana - CII and PJTSAU to work together

Sanjay K. Singh, Chairman, Confederation of Indian Industry (CII) -Telangana and Dr. V.Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU signed a Memorandum of Understanding (MoU) on 18th May 2018 to address various challenges and areas of improvement in the agricultural sector of priority to the national and State interests. As part of the MoU, varsity will act as knowledge partner by developing course curriculum for joint certificate courses offered for the agricultural and non-agricultural professionals from the industry and CII would provide facilities for internship to Agri graduates in Agro industries.



Sanjay. K. Singh, Chairman, CII signs MoU with PJTSAU

Varsity in MoU with NRSC to strengthen GIS capability of faculty and students

PJTSAU entered into an MoU with National Remote Sensing Centre (NRSC), GOI, Hyderabad on 31st May 2018 to establish a Geographic Information System (GIS) and Remote Sensing Centre in the premises of Water Technology Centre of the University. The GIS laboratory established with the technological cooperation from the NRSC would help in geo-referencing of soil health data, crop mapping and monitoring, crop simulation modelling for spatial crop yield mapping, assessment of crop damage due to natural calamities, insect pest and disease surveillance, technology support to crop insurance, Watershed development etc. Dr. Santhanu Chowdary, Director, Dr. T. Ravi Sankar and Dr. C. S. Murthy, Scientists of National Remote Sensing Centre, Hyderabad represented NRSC.



Dr. Santhanu Chowdary, Director, NRSC signs MoU with PJTSAU

TISS and PJTSAU for collaborative student programs-Viewing Agriculture from a Social Science perspective

A Memorandum of Understanding was signed on 30th May 2018 between Mr. M. P. Balamurugan, Deputy Registrar (P&A) representative from Tata Institute of Social Sciences (TISS), Mumbai and PJTSAU, Hyderabad with an intention to develop cooperation and collaboration for capacity building, training, education and other activities and jointly

explore external funding opportunities through project proposal development, thus enabling both parties to expand their collaborative activities. In addition access may be provided to qualified students hosted by one institution to research opportunities and/or degree programs at the other institution.

SERP inks MoU with PJTSAU to improve livelihood of SHG's

With a vision to alleviate the SHG's by encouraging women farmers to take up seed production, use of bioagents etc the Society for Elimination of Rural Poverty(SERP) entered into Memorandum of Understanding with Professor Jayashankar Telangana State Agricultural University (PJTSAU) on 12th June 2018. The university assured to support SERP in technical aspects by organizing capacity building programs to their staff, equipping them for value addition of their produce and furnishing facilities for organic production and certification.



Mrs. Pausami Basu, IAS signs MoU with PJTSAU

Capacity Building

Training Extension functionaries to promote Mat Nursery in Rice

A one day training program on “A Modified Mat Nursery method and Rice Production Technologies” was organized by Rice Research Centre, ARI, Rajendranagar for scientists and coordinators of DAATTC's and Officials of Dept. of Agriculture on 19th June, 2018 to boost up the area under machine transplanting. Dr. D.Raji Reddy, Director of Extension highlighted the importance of machine transplanting and direct sowing in Rice as the acreage under Rice production is showing an increasing trend and problem of labour shortage is multiplying. Dr. R. Jagadeeswar, Director of Research in his interaction with trainees emphasized the need to reduce the usage of pesticides which would not only reduce the cost of production but also control environmental pollution.

Similar training programs were organized for rice growing farmers at RARS, Palem on 13th June, 2018 and to

department officials at RARS, Warangal on 25th and 26th June, 2018 to enlighten the farmers on machine transplanting and encourage them to go for mechanized cultivation as a solution to overcome labour shortage.



Directors of Research and Extension releasing the leaflet

Empowering TSP beneficiaries on Rice production Technologies



ADR (CTZ) distributing the inputs to beneficiaries at RARS, Warangal

A one day training program on Rice Production technologies was organized at RARS, Warangal as part of Tribal Sub Plan (TSP) program. Farm inputs worth 2.7 lakhs were distributed to 48 beneficiaries at Rythusaddasu organized at Ramoji kummarigudem thanda. Dr. P. Raghuram Reddy, ADR in his address emphasized on balanced application of fertilizers for field crops, Dr. S. Malathi, Principal Investigator, TSP enlightened the importance of alley ways and growing of sunhemp on field bunds for management of BPH. Dr. B. Satish Chandra, Co-PI explained characteristic features of suitable paddy varieties for kharif.

Distinguished Visitors

Two State Ministers visit MPIC

Sri Jupally Krishna Rao, Hon'ble Minister for Rural Development and Panchayat Raj and Sri P.Mahender Reddy, Minister for Transport, Telangana State visited Millet Processing and Incubation Centre, Rajendranagar on 2nd April, 2018 to insight the activities of the centre and to explore possibilities of department to collaborate with the University in technology transfer of millet products and training the SHGs' in millet processing for establishing small units in rural areas. They were accompanied by, Mrs. Pausami Basu, CEO, SERP. All the University officers and Dr. T. Hymavathi, Officer-in -Charge, MPIC were present on the occasion.



Dr. T. Hymavathi explaining Millet products to Sri Jupally Krishna Rao the Hon'ble Minister, Telangana state

IAS probationers visit University- PJTSAU offers glimpses of its activities

A team of eleven IAS probationers of Telangana Cadre 2017 batch visited University on 20th June 2018. Dr. S. Sudheer Kumar, Registrar, PJTSAU briefed the Agriculture situation of the State, teaching, research and extension activities of the University. He also informed them that

University has established three new Agricultural colleges and released 13 new varieties after formation of the Telangana state. Dr. R. Jagadeeshwar, Director of Research, informed that research in University is mainly focused on crop improvement, crop management, management of pests and diseases, post harvest and value addition, farm mechanization, natural resource management, water management and large scale seed production. Dr. K. S. Dangi, Dean of Agriculture, gave details of course curriculum at the University, while Dr. D. Raji Reddy, Director of Extension, explained about the extension system and informed that the job of scientists in extension is mainly to transfer the technologies developed in research to farmers. Later they visited Millet Processing and Incubation Centre, Integrated Farming Systems, Rice & Maize Experimental Plots at ARI, Quality Control Lab, Pesticide Residues Lab, Institute of Biotechnology and College of Agriculture and appraised the activities of the University.



IAS probationers with University officials during their visit

Learning from Abroad

University Rice Scientists visit FCRI, Vietnam

Dr. E. A. Siddiq, Former DDG (Crop Science), ICAR, New Delhi, Member, Board of Management, PJTSAU Dr. R. Jagadeeshwar, Principal Scientist (Rice) & Director of Research, PJTSAU and Dr. K. Rukmini Devi, Senior Scientist (Plant Breeding), RARS, Warangal visited Field Crop Research Institute, Vietnam from 6th May to 11th May, 2018 for acquiring knowledge, exchange of germplasm in hybrid rice research and development.

MoU signed copy was exchanged between Dr. R. Jagadeeshwar and Dr. Nguyen Trong Khanh, Director General, FCRI during the visit with a vision to explore the potential avenues for developing quality hybrid rice varieties tolerant to pests, salinity, submergence in response to climate in rice production areas and to develop super hybrid rice with yield potential of 12-13 t/ha/crop for intensive rice production in Vietnam and Telangana State of India.



PJ TSAU scientists at the research farm, FCRI



FCRI signs MoU with PJ TSAU

Hon'ble Vice chancellor visits University of Florida, Gainesville

Dr. V. Praveen Rao, the Vice Chancellor, PJ TSAU visited various teaching and laboratory facilities at University of Florida, Gainesville, and participated in a convention with *Raithe Raju* as a theme at Houston, Texas, U.S.A during the 2nd fortnight of June, 2018 where he presented the current agricultural challenges faced by the farming community in Telangana State and proposed for cooperation and problem-solving research collaboration between UF/IFAS and PJ TSAU faculty. He held discussions with Dr. Elaine Turner, Dean and Dr. Al Wysocki, Associate Dean, College of Agricultural and Life Sciences, pertaining to joint Ph.D. programmes, Faculty capacity building and Certificate Programmes in the areas of soil and water analytical services and instrumentation protocols, Online learning and Teaching technologies and water resources management. It was agreed to nominate coordinators by PJ TSAU and UF/IFAS to initially work on MoU between PJ TSAU and UF/IFAS and prepare a workable plan for the above activities. Dr. Barbra Larson, Director, COLT agreed to help in establishing a Center for Online Learning and Technology at PJ Telangana State Agricultural University and training university staff in instrumentation and other software skills, after the MoU is signed between both the Universities. The Director of Anserv labs, Dr. Rao

Mylavarapu agreed to help in establishing the lab, instrumentation & sampling protocols and analytical skill training of PJ TSAU faculty for soil and water testing which is a state and national priority. Dr. Wendy Graham, Director, UF/IFAS Water Institute agreed to facilitate Joint Ph.D. programme and Certificate Courses in Water Management between Water Technology Centre and UF Water Institute.

The Hon'ble Vice Chancellor also met Dr. K. V. Raman, Professor (International Programmes), Cornell University to discuss about the modalities and details of Professors/Experts participating in the proposed workshop on "Telangana Agri-Vision" being organized in January 2019 at Professor Jayashankar Telangana State Agricultural University, Rajendranagar in collaboration with Cornell University, Ithaca, USA and CII, Telangana.

Dr. Rao delivered a presentation on "Sustainable water use through Microirrigation Technologies – Telangana experiences" in a seminar on "Telangana Agricultural Challenges & Solutions" held at George R Brown Convention Centre, Houston, Texas under the aegis of American Telangana Association in order to garner support from the diaspora of the State for the University and the farming community of the State.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor at World Telangana Convention held at Houston, Texas



Scientists of University of Florida demonstrating Drone Technology

Awards & Honours

- ❖ Professor Jayashankar Telangana State Agricultural University received CHAI-Institutional Fellow 2018 for their commitment to the furtherance in Agricultural research, education and development.
- ❖ Dr. V. Praveen Rao, the Hon'ble Vice-Chancellor, PJTSAU received Honourary Fellow Award 2018 in recognition of his commitment to the furtherance of horticulture / agriculture from Confederation of Horticulture Associations of India (CHAI), DRPCAUI, Pusa, Samastipur, Bihar. The award was presented at the National Conference on "Intensification and Diversification in Agriculture for Livelihood and Rural Development" held from 28th to 31st May 2018 by ASM Foundation, New Delhi.
- ❖ Dr.I.V.Srinivasa Reddy, Associate Professor (Horticulture), Agricultural College, Aswaraopet received the Best Horticulture Scientist Award from the District Collector, Bhadrachalam District, on 2nd June, 2018 on the occasion of Telangana Formation Day.
- ❖ Dr. Sreedhar Siddi, Scientist (Plant Breeding) & Head, Agricultural Research Station, Kunaram received the Best Scientist Award from District Collector, Peddapalli district on 2nd June, 2018 on the occasion of Telangana Formation Day.
- ❖ Dr. P. Revati, Scientist (Agonomy), Dr. T. Kiran Babu, Scientist (Plant Pathology) and Dr. B.Srinivas, Scientist (Plant breeding), Regional Agricultural Research Station, Polasa received the Best Scientists Award, from Sri Koppula Eswar, Chief Whip, Govt. of Telangana, in the presence of MLA, Jagtial, MLA Korutla, ZP Chairman, Collector & District Magistrate, Jagtial district on 2nd June, 2018 on the occasion of Telangana formation day.
- ❖ V. Manasa Reddy, K.R. Jithin and K. Vivek of Agricultural College, Jagtial secured Gold medals in 6th Inter District and State Selections Championship held at Jiyaguda, Hyderabad in Soft style Kickboxing.

Institutional Activities - Show of Reverence and Responsibility

All the Constituent institutes and the University celebrated Birthdays of eminent socialists and freedom



Paying floral tribute to Mahatma Jyothibhaphule



Dr. B.R.Ambedkar Birthday celebrations at ARS, Adilabad

fighters of our country by paying homage to them. The 111th Birthday of Sri Babu Jagjeevan Ram was celebrated on 5th April, 2018, while 192nd Birthday of Sri Mahatma Jyothiba Phule was celebrated on 11th April, 2018 and the 127th birthday of Dr.B.R. Ambedkar was celebrated on 14th April 2018.

All the units of PJTSAU memorized the contributions of Professor Jayashankar on his anniversary on 21st June 2018 and observed two minutes silence as a mark of respect.

Telangana Formation day

PJTSAU celebrated the fourth Telangana state formation day on 2nd June 2018 at all its campuses in a



PJTSAU celebrating Telangana formation day

befitting manner. Dr. V Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU hoisted the national flag at Administrative building and paid floral tribute to Telangana ideologue Professor Jayashankar. In his address he applauded the staff on achievements of the University in a short span of four years and further evoked them on the efforts to be put worth to achieve the destined goals.

World Blood Donor Day

A blood donation camp was organized by NSS units of Agricultural College, Warangal on 14th June 2018 on the occasion of World Blood Donor Day which is celebrated in commemoration of the birthday of Dr. Karl Landsteiner, a Nobel prize recipient best known for developing the blood group system and Rh factor.

Dr. Vijaya Lakshmi, an elected member for Indian Red Cross Society (IRCS), Warangal was the guest of honour and in her address mentioned the importance of blood donation to the gathering, applauded the enthusiasm of students for blood donation while enlightening them on precautions after blood donation. Dr. E. Narsaiah, Associate Professor (SSAC) addressed the gathering about importance of blood donation as it serves to save the lives of needy people and further appreciated the blood donors who came forward to donate the blood.

20 students of B.Sc.(Hons.) Agriculture, 5 faculty members from Agricultural college, Warangal and one scientist from RARS, Warangal donated their blood. Certificates were awarded to the blood donors from the IRCS, Warangal and further the benefits of blood donation i.e accidental death insurance coverage of 1 Lakh rupees within a year from the day of blood donation and prime access to blood needed by the donors from IRCS were highlighted.



Students of Agricultural college, Warangal at Blood Donation Camp

International Yoga Day

The NSS units of College of Agriculture, Rajendranagar organized International Yoga day on 21st June 2018 at sports complex, Rajendranagar. Sri Malchand Sharma, Yoga Teacher has shown yogasanas and explained its importance. Dr. S. Sudheer Kumar, Registrar, PJTSAU highlighted the role of Yoga in maintaining sound physical and mental health. International Yoga Day was celebrated at all the colleges of the University by organizing guest lectures on importance of yoga and yoga camps by yoga gurus.



International Yoga Day at Agricultural College, Aswaraopet

NSS Mega Health Camp

The mega health camp was organized by NSS units of College of Agriculture, Rajendranagar in association with the Deccan Hospitals, Somajiguda on 7th May, 2018. Dr. Kuldeep Singh Dangi, Dean of Agriculture, Dr. D. Vishnu Vardhan Reddy, Dean of Student Affairs, Dr. J. Satyanarayana, Associate Dean, NSS programme officers and NSS volunteers and team of doctors from Deccan hospitals participated in the programme. 300 members including students, teaching and non teaching staff underwent health check up during this camp.



Dr. Kuldeep Singh Dangi, Dean of Agriculture undergoing Health check up at Mega Health Camp

Celebrations

College day Celebrations

The graduation colleges of University have celebrated the college day with a lot of pomp and gaiety. The College of Home Science celebrated College Day on 13th April 2018 where in Smt. Shailaja Ramaiyer, IAS, Vice Chairperson & Managing Director, Telangana State Handicrafts Development Corporation Ltd was the Chief Guest.

The Ninth College day Celebrations of Agricultural College, Jagtial was held on 04th May, 2018. The function was presided by Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, Dr. D. Vishnu Vardhan Reddy, Dean of Student Affairs, PJTSAU, Sri A. Sharath, Collector & District Magistrate, Jagtial District. The College Magazine "Harithakshari", College Video and a brochure on "A Decade of Excellence of

Agricultural Education" were released by Dr. V. Praveen Rao along with other guests.

The First College Day celebrations of Agricultural College, Palem - Prerana was held on 26th May, 2018. The Chief Guest Dr. Kuldeep Singh Dangi, Dean of Agriculture, PJTSAU and Chief Guest addressed the students on the occasion.

The 29th College Day of Agricultural College, Aswaraopet - Prajwalana - 2018 was organized on 5th June, 2018. Sri Y. Nagi Reddy, IPS - Inspector General of Police, North Telangana Zone was the Chief Guest and Dr. D. Vishnu Vardhan Reddy, Dean of Student Affairs, PJTSAU was the Guest of Honour on the occasion.



Cultural programme at College of Home Science



Honouring college toppers at Agricultural College, Jagtial



Overall games and sports trophy winners at Prerana- 2018 at Agricultural college, Palem



Release of Leaflet at Prajwalana-2018 at Agricultural college, Aswaraopet

Chief Editor

Dr. V. Praveen Rao

Editor

Dr. Ch.Venu Gopala Reddy

Associate Editor

Dr. V. Anitha

Assistant Editor

Smt. M. Pallavi

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