



Striving for a greener tomorrow...

PJTSAU

NEWS



In this issue

From the VC's Desk	1
New Initiatives	
PJTSAU campuses harness Solar Energy	2
Thinking Ahead- Remote sensing and GIS lab- A new facility at Main Campus	2
Maize Research Station equipped with Seed Godown cum Cold Storage Unit	2
Workshops, Conferences, Meetings, Seminars, Exhibitions	
All India University Employees Confederation Ponders on Privatization of Higher Education	3
Academic Council meets- Reviews academic regulations	3
Agri-Biotech Symposium dispels myths and misconceptions of GM crops	3
Putting brakes on the marching Fall Army Worm (FAW) in Telangana-Brainstorming session on FAW	4
"Agri Digital Connect"- Step ahead to integrate IT with Agriculture	5
National Symposium on Entomology 2018 accents on Effective pest management	5
RICAREA and PJTSAU Seminar with a focus to boost small farmers	6
Faculty and Student Participation	6
Research outcomes of PJTSAU showcased at XXI Biennial National Symposium on Doubling Farmers Income	7
Collaborations	
University of Hohenheim, Germany and PJTSAU to work together	8
Capacity Building	
SCO's trained on Quality Seed Production Technologies	8
KVK's on promotion of Agri allied sectors for a sustained rural livelihood	9
Through the Lens- College of Home Science organizes Certificate course on "Professional photography"	10
Empowering farmers on Mechanization in Maize	10
Increasing the spread of rice variety RNR 15048	10
Distinguished Visitors	
Deputy Vice Chancellor, WSU, Australia visits Varsity	11
CYIENT discusses GIS and Drone technology for delivering efficient farm services	11
Exposure Visit	
Faculty visit University of Hohenheim, Germany	12
Awards & Honours	12
Success Story	
An enterprising farmer shows the way	13
Institutional Activities	
World Soil Day at KVKs	14
Jai Kisan Jai Vigyan Diwas	14
Vigilance Awareness Week – for a corruption free India	14
Floral Tributes to Dr.B.R. Ambedkar	15
Creating interest in School children- National Agricultural Education Day	15
Inter College Sports, Games, Cultural and Literary Meet – Competing and Building teams	15
Second Convocation of PJTSAU- Another crop of graduates pass out	15

From the VC's Desk



The water requirement of the country is likely to increase to 1180 Billion Cubic Meters (BCM) by 2050 as against the present availability of 695 BCM. Agriculture is the major sector of the country utilizing 90% of fresh water resources. India faces a persistent water scarcity due to poor management of water resources and climate change. In the State of Telangana, nearly 55 percent population depend on agriculture contributing to 15% of the state's economy. The net irrigated area of the state is around 36% (14.86 Lakh ha) of the total arable land with an irrigation

intensity of 1.36%. Wells and tube wells meet 80% of the irrigation water requirements of the State, consequently leading to decline in water table and decrease of acreage under irrigation in drought years. Hence ground water exploitation needs to be addressed to prevent detrimental effects on the environment. Strategic use of water resources, both surface and ground water by rejuvenation of tanks in the State, development of irrigation facilities, improved water application methods for increased water application efficiency, reducing the gap between irrigation potential created and irrigation potential utilized through appropriate management are some of the urgent measures to be undertaken. The State government initiatives such as re-engineering irrigation projects and Mission Kakatiya have tremendously increased the irrigation potential of the State, but the biggest challenge lies in enhancing irrigation water application efficiency for sustainable economic returns in agriculture. Adoption of water saving technologies in rice cultivation, lining of irrigation systems to reduce conveyance loss, microirrigation and fertigation in field and horticultural crops, implementation of warabandi (rotational) irrigation, cropping patterns based on agro climatic situations, new agronomic practices like raised bed, ridge & furrow planting, precision farming provide a vast scope for economizing water use. Studies on drip irrigation have reported a 20.9-104% increased yield, fertilizer use efficiency of 30.1-110.6 % and water saving of 8.8-53.3 % in various crops, clearly demonstrating efficient and sustainable use of water. It is the prerogative of the policy makers to redefine the policies in distribution of canal irrigation water to minimize overuse of irrigation water and the extension, CADA machinery to build awareness among farmers. It is here that the scientific fraternity has to play a proactive role in sensitizing the farmers on efficient utilization of water sources by adopting water saving technologies and suitable cropping patterns.

Dr. V. Praveen Rao

Dr. V. Praveen Rao
Vice Chancellor

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New Initiatives

PJTSAU campuses harness Solar Energy

PJTSAU moved forward in its endeavor to go green by installing a solar plant of 717 KWp capacity at Administrative building which was inaugurated on 5th November, 2018 by the Hon'ble Vice Chancellor in the presence of University Officers and Engineering division staff. The solar plant was established in association with Fourth Partner energy Pvt. Ltd which would be responsible

for power generation for 25 years. The solar panels were erected on the rooftops of Administrative building, College of Agriculture, Central Library, C&D Hostels, PGRC and Zonal sports complex. The registrar informed that the facility will generate 86,100 units of power per month which would meet 40% of the power requirements of the campus saving Rs 48 lakhs per annum for the university.



Solar plant with installed capacity of 717 KWp



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor inaugurating the solar plant

Thinking Ahead- Remote sensing and GIS lab –A new facility at Main Campus

A new Remote Sensing and GIS lab was established in the premises of Water Technology Center, Rajendranagar with the valuable guidance of National Remote Sensing Center (NRSC). The centre was inaugurated by Dr. V Praveen Rao, the Hon'ble Vice Chancellor, Dr. P.V.N. Rao, Deputy Director, NRSC on 26th November, 2018. The new facility will help the research scholars and scientists to access information on cropped area, pests and diseases, Yield estimates, performance of irrigation projects etc. through satellite mapping. Dr. C.S Murthy, Head, Agriculture wing, NRSC, Dr. R. Jagadeeshwar, Director of Research, Dr. M. Umadevi, Director, Water Technology Center graced the occasion.



The Hon'ble VC, University officials, Scientists and Students at the newly inaugurated RS and GIS lab

Proper storage to ensure supply of Quality Maize breeder Seed-Maize Research Station equipped with Seed Godown cum Cold Storage Unit

The seed production programme of Maize Research station received a boost with the inauguration of Seed Godown cum Cold Storage Unit by Dr. V. Praveen Rao, the Hon'ble Vice Chancellor on 29th October, 2018. The cold storage unit has a capacity of 2 tons with dimensions of 28' L x 14' W x 10' H and can maintain the temperature and RH at $14 \pm 2^{\circ}\text{C}$ and $40\% \pm 5\%$ respectively. The unit also has a generator backup for 24 hours power supply. Dr. S. Sudheer Kumar, Registrar, Dr. R. Jagadeeshwar, Director of Research, Dr. M. Venkata Ramana, Associate Director of Research, RARS, Palem and all Heads of the different schemes at ARI, Rajendranagar participated in the inaugural programme.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor inaugurating the cold storage unit at MRC, Rajendranagar

Workshops, Conferences, Meetings, Seminars, Exhibitions

All India University Employees Confederation Ponders on Privatization of Higher Education

The XIII National Conference of All India University Employees Confederation was hosted by PJTSAU Non-Teaching Employees Association from 26th to 28th October, 2018 at University Auditorium, Rajendranagar, Hyderabad. A National Seminar on "Impact of Globalization, Liberalization and Privatization on Higher Education in India" was also organized during the conference. Dr. S. Ramchandram, the Hon'ble Vice chancellor, Osmania University inaugurated the programme and in his address emphasized the need for the educational institutes to compete and move ahead in the era of globalization. Prof. Nageshwar, Dept. of Journalism, Osmania University in his address stressed that currently only 26% of population had

access to higher education and current trend of privatization of education will be noxious for the future generations. Dr. S. Sudheer Kumar, Registrar, PJTSAU informed that the quality of Agricultural education may be deteriorated with the intervention of private sector, hence the University with the support of Govt. of Telangana has started four Agricultural Colleges in the state. Dr. Sayanna, Prof. S.V. Satyanarayana and Prof. Kavitha Daryani Rao, the Hon'ble Vice chancellors of Kakatiya University, Telugu University and Jawaharlal Nehru Architecture and Fineart University respectively graced the occasion. Non teaching representatives from 213 Universities in the country participated in the programme.



Lighting of the lamp by the dignitaries



Prof. Nageshwar, Osmania University addressing the gathering

Academic Council meets- Reviews academic regulations

The 9th Academic Council meeting of PJTSAU was held on 31st October, 2018 under the chairmanship of Dr. V. Praveen Rao, the Hon'ble Vice Chancellor at University Auditorium, Rajendranagar, Hyderabad. The council discussed important academic issues pertaining to the diploma courses, educational tours, online conduct and evaluation of semester final examination. The council resolved to represent to the Govt. for sanction of staff, land and budget for establishment of Agricultural college, Adilabad, to establish special coaching cells at all the colleges for the benefit of SC, ST, OBC and minority students and to award life time achievement award in the name of Prof. Jayashankar to outstanding personnel who excelled in the field of Agriculture & Technology.



9th Academic council meet in session

Agri-Biotech Symposium dispels myths and misconceptions of GM crops

An Agri-Biotech Symposium was jointly organized by Federation of Asian Biotechnology Association (FABA), PJTSAU, University of Hyderabad and Metahelix, Hyderabad on 20th November, 2018 at University Auditorium,

Hyderabad. The symposium was inaugurated by Dr. Nina Federoff, Emeritus Professor of Biology, Rockefeller University, Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU, Prof. Reddanna, President, FABA, Dr. Prakash Babu,

Secretary General, FABA and Dr. Sadhu Khan, Finance Controller, FABA.

Prof. Reddanna welcomed the delegates, while Dr. Prakash Babu informed the delegates that FABA which had its origins in Hyderabad, with presence in 20 countries, mainly aims at building collaboration between Academia and Industry and liaison with the Government. Dr. V. Praveen Rao introduced to the gathering, the mandate and achievements of PJTSAU and further suggested that GM crops must be promoted in an appealable way as compared to present mode for better acceptance by public. He suggested to explore the reasons for low adoption of technology as GMO's occupy 10% of global cropped area. Dr. Nina Fedoroff delivered a guest lecture on 'GMO wars:

What do we do when citizens and scientists deeply disagree' and traced the history from domestication to the current GMO and gene editing technologies.

An interesting panel discussion followed with enlightening discussions by Prof. Arjula Reddy, Founder Vice Chancellor of Yogi Vemana University and an expert on Genetics & Biotechnology of maize, Dr. Chengal Reddy, Chief Advisor and Head of the apex farmers body, CAFA, Mr. Narayanan, Founder Chairman of Kotaiaam Agro Foods and Communicator on Agriculture and Allied areas, Dr. Rajeev Varshney, Director of Genetic Gains Program, ICRISAT, Mr. Ram Kaundinya, Agricultural Inputs Expert specialized in Management and Dr. Ramanathan, R&D Head, Metahelix Life Sciences.



Honouring Dr. Nina Federoff, Emiretus Professor from Rockefeller University



Dr.V. Praveen Rao, the Hon'ble Vice Chancellor addressing the delegates

Putting brakes on the marching Fall Army Worm (FAW) in Telangana- Brainstorming session on FAW

A one day Brainstorming session on "Present status of Fall Army Worm (FAW)" was organized by PJTSAU on 27th November, 2018 at Rajendranagar, Hyderabad. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor in his address emphasized on the need for precise search and collection of literature on management of the pest for formulating the effective management measures. Dr. Y.G. Prasad, Director, ATARI, the Chief Guest of the session proposed integration of all control methods which would help in effective management of FAW. Dr. R. Jagadeeshwar, Director of Research informed about the initiatives taken by PJTSAU in combating the pest. Dr. D. Raji Reddy, Director of Extension reiterated the role of extension staff in creating awareness on this pest among the farming community. Sri Vijay Kumar, Additional Director of Agriculture shared the initiatives taken by State Department of Agriculture in management of FAW. Dr. S.J. Rahman, Principal Scientist & Univ. Head (Ento), AICRP on Biological Control, ARI, R'nagar presented the basic information on FAW and its management strategies. An action plan on management of FAW was



Dr.V. Praveen Rao, the Hon'ble Vice Chancellor addressing the scientific fraternity in the brainstorming session

drafted based on the suggestions of all the stakeholders. Principal Scientists of crops, Coordinators of DAATT Centres, Programme Coordinators of KVKs and all the teachers, researchers, extension personnel of Department of Entomology, representatives from ICAR and GOI institutions participated in the session.

“Agri Digital Connect”- Step ahead to integrate IT with Agriculture

Workshop on “Agri Digital Connect” was organized by PJTSAU in collaboration with CII (Confederation of Indian Industry, Telangana) with the theme “Empowering Agriculture with Digital Technologies” on 27th November, 2018 at University auditorium for the benefit of students and faculty. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU in his Keynote address urged the students to utilize digital technology for effective dissemination of technology to farmers to meet the forthcoming challenges in agriculture. He further emphasized that experts in information technology and agriculture should work together for offering better services to farmers and efforts should be made to bring new technologies like IoT, robotics and big data analytics to the farmers door step.

Dr. Sanjay Singh, Chairman, CII, Telangana Chapter expressed that under depleting natural resources condition, improving productivity using new technologies is essential for sustainable agriculture and improving

farmers income. He further said that extensive use of scientific technology in Agriculture will reduce the cultivation cost and improve the socio economic status of farmers. Mr. Ram Prasad, Director , Software Technology Park of India in his address informed that IT has brought revolutionary changes and stressed that industry and Agri Universities should work together for utilization of IT in Agriculture. Mr. G. V. Subba Reddy, Convenor, Agri panel, CII said that youth should take advantage of IT in agriculture for promoting better products and services in Agriculture.

Mr. Anil Kumar Epuru, Former Chairman CII southern region, Mr. Raghu and Mr. Subajit Saha from CII life science division, University officers, 60 students from eight State Agricultural and Horticultural Universities, 315 PG and Ph.D. students of PJTSAU participated in this workshop. Seven invited lectures and a special address were delivered by eminent resource persons from the Industry on various topics pertaining to the IoT in agriculture for the benefit of the student community.



Dignitaries lighting the lamp at Agri Digital Connect workshop



Dr.V. Praveen Rao, the Hon'ble Vice Chancellor addressing the students

National Symposium on Entomology 2018 accents on Effective pest management

A three day National Symposium on “Entomology 2018: Advances and Challenges” was organized by PJTSAU in collaboration with Plant Protection Association of India, Hyderabad, Entomological Society of India, New Delhi and Agri Biotech Foundation, Hyderabad from 10th to 12th December, 2018 at University Auditorium. Dr. S.N. Puri, Former Vice Chancellor, Central Agricultural University, Imphal and President, the Entomological Society of India in his inaugural address emphasized on the need to utilize latest advances in entomology research. He urged that plant protection scientists should play a key role in reducing crop losses by paying attention on mode of damage caused by the pest and thereby developing effective control measures to prevent crop losses in field and storage. He further emphasized to strengthen research on use of insects in



Dr. S. N. Puri, President, Entomological Society of India addressing the scientists

development of food products. Dr. S. Raghuvardhan Reddy, President, Agri Biotech Foundation reiterated the need for

integrated management of pests to reduce the expenditure incurred by the farmers on insecticides. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor of the University suggested digitalization of the plant protection measures would help in overcoming pest crisis in a short time. The delegates deliberated on various themes in the workshop including Agriculture, Horticulture and Forest entomology, Productive and urban entomology, Ecological entomology, Toxicology, Physiological entomology, Insect genetics and molecular biology and Systematics and evaluation. Dr. H.C Sharma, the Hon'ble Vice Chancellor, Y.S Parmar University of Horticulture and Forestry, Himachal Pradesh, Dr. Krishna kumar, Dr. T.V.K Singh, Dr. Bentur, and entomology scientists



Entomology Team at the symposium
from various parts of the country participated in the symposium.

RICAREA and PJTSAU Seminar with a focus to boost small farmers

A seminar on "Sustainability of small farmers in changing Agriculture Scenario" was organized by Retired ICAR Employees Association (RICAREA) and PJTSAU on 22nd December, 2018 at University Auditorium with a vision to design strategies to ameliorate the situation of small farmers under changing climatic situations. Dr. R. S. Paroda, Former secretary(DARE), Govt. of India & Director General, ICAR was the Chief Guest and delivered keynote Address on augmenting the income levels of farmers in general and small farmers in particular. The inaugural session was chaired by Dr. V. Praveen Rao, the Hon'ble Vice Chancellor and Dr. V. Damodar Naidu, the Hon'ble Vice chancellor, Acharya N.G. Ranga Agricultural University was the Guest of Honour.



Dr.R.S. Paroda and Dr. Muralidharan look on as Dr. V. Praveen Rao lights the lamp

Faculty and Student Participation

- Ten faculty members from PJTSAU from Department of Agricultural Engineering, Agronomy and Soil Science participated in Global Water Security Conference for Agriculture and Natural Resources organized by American Society of Agricultural and Biological Engineers (ASABE) in collaboration with the Indian Society of Agricultural Engineers (ISAE) at Taj Krishna Hotel, Hyderabad from 3rd to 6th October, 2018. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU delivered Welcome address and a lecture on "Telangana State Micro-Irrigation Project : A special purpose vehicle for natural resource management and enhancing small holders income". PJTSAU was Platinum sponsor for the Global Water Security conference.
- Scientists from Maize Research Centre, Rajendranagar and ARS, Karimnagar participated in 13th Asian Maize Conference and Expert Consultations on Maize for Food, Feed, Nutrition and Environmental Security organized by CIMMYT, Mexico in Association with BISA, ICAR, IIMR, PAU and CGIAR at Ludhiana from 8th to 10th October, 2018 and presented posters on various

production and protection technologies developed in Professor Jayashankar Telangana State Agricultural University.



PJTSAU team at 13th Asian Maize conference

- Five Scientists from PJTSAU participated in the International Rice Research Congress, 2018 organised by IRRI, Philippines at Marina Bay Sands, Singapore from 15th to 17th October, 2018 and presented papers under various themes like "JGL 3855 and JGL 13595 –

Two high yielding, short duration, cold tolerant, gall midge resistant rice cultures suitable as parents and cultivars, developed for Telangana state in India”, “New Sources of resistance against rice brown plant hopper, *Nilaparvata lugens* (Stal.) identified through phenotyping and genotypic analysis”, “Shifts in Virulence Pattern of Asian Rice Gall Midge, *Orseolia oryzae* (Wood- Mason) in Warangal, Telangana, India”, “Identification of restorers and development of heterotic hybrids in rice (*Oryza sativa* L.)” and “Genetic variability and divergence studies for gallmidge resistance, earliness, yield and yield components in rice (*Oryza sativa* L.) genotypes for Telangana state in India” by Dr. Ch. Damodar Raju, Dr. N.R.G. Varma, Dr. M. Malathi, Dr. Y. Chandra Mohan and Dr. S. Sreedhar respectively.



PJTSAU Rice team at 5th International Rice Congress at Singapore

- Six faculty of Department of Agronomy from the University participated in XXI Biennial National Symposium on “Doubling Farmers’ Income through Agronomic Interventions under Changing Scenario” organized by Indian Society of Agronomy (ISA), ICAR in collaboration with MPUA & T, Udaipur from 24th to 26th October, 2018 at Rajasthan College of Agriculture, MPUA & T, Udaipur, Rajasthan. Dr. V. Praveen Rao, the

Hon'ble Vice Chancellor, PJTSAU chaired a session entitled “Conservation Agriculture and Climate Resilient Agronomy” and delivered a lecture on “Doubling farmer's income: Micro-irrigation – an efficient tool to achieve the goal”. PJTSAU was Diamond sponsor for the symposium.

- Eleven students from B.Tech (Food Technology), College of Food Science and Technology, Rudrur participated in the VIII International Food Convention - #IFCON 2018, “Holistic Approaches for Start Up, Food Innovation and Human Resource Training for Agriculture and Food Industry Gemmation (HASHTAG)” was organised by Association of Food Scientists & Technologists India (AFST-I) in association with CSIR-Central Food Technological Research Institute (CSIR-CFTRI) and DRDO-Defence Food Research Laboratory (DRDO-DFRL) at CFTRI, Mysore, from 12th to 15th December, 2018 and presented papers on “Value Addition of Unconventional Fruit- Wood Apple (*Limonia acidissima* .L)”, “Effect on Nutritional Quality of Products by Incorporation of Tamarind Kernel Powder and Other Cereals” and “Studies on Development of Vermicelli from Composite Millet Flour and Unripe Banana Flour.”



Students from CFST, Rudrur presenting a poster at #IFCON 2018

Research outcomes of PJTSAU showcased at XXI Biennial National Symposium on Doubling Farmers Income

AI&CC of PJTSAU participated and put up a stall in the exhibition at XXI Biennial National Symposium organized by Indian Society of Agronomy (ISA), ICAR in collaboration with MPUA&T, Udaipur from 24th to 26th October, 2018 at Rajasthan College of Agriculture, MPUA&T, Udaipur, Rajasthan. Farm technologies and varieties developed at the university were exhibited in the stall. Large number of farmers and students visited the stall and PJTSAU stall was awarded third prize at the symposium.



Students visiting PJTSAU stall

Collaborations

University of Hohenheim, Germany and PJTSAU to work together

The Memorandum of Understanding was signed between University of Hohenheim, Germany and PJTSAU on 13th November, 2018 at Stuttgart, Germany represented by Prof. Stephan Dabbert, President, University of Hohenheim, Ekkard Schoreder, German Project Team Leader and Dr. S. Sudheer Kumar, Registrar, PJTSAU with a vision to develop cooperation on the basis of equality and reciprocity and to promote relations and mutual understanding between the two institutions. The collaboration aimed to develop and implement Joint Research projects in field of crop improvement, Seed science & technology and Crop protection; Exchange of faculty and students, Organize joint academic, scientific and technological activities such as guest lectures, workshops, symposium or seminars etc; exchange of scientific protocol, materials, publications and other relevant information. Franziska Schenk, Joint Director, Office of International Affairs, Prof. Dr. Michael Kruse, University of Hohenheim and Dr. R. Jagadeeshwar, Director of Research, PJTSAU graced on the occasion.



PJTSAU inks MoU with University of Hohenheim, Germany

The PJTSAU delegates visited various labs and Agricultural experimentation station at Stuttgart on 12th November, 2018 and interacted with the scientists on various ongoing projects and on 14th November, 2018 visited Seed processing facilities of KWS Kios and Pioneer Dupont Seeds at Germany.

Capacity Building

SCO's trained on Quality Seed Production Technologies

A three day refresher training course on "Quality Seed Production Technologies" was organized to the newly recruited Seed Certification Officers and ADSC's of Telangana State Seed and Organic Certification Authority from 1st to 3rd November, 2018 by Seed Research and Technology Centre, PJTSAU, Rajendranagar, Hyderabad at University auditorium. Dr. R. Jagadeeshwar, Director of Research, PJTSAU in his inaugural address advised the participants to be prompt and sincere in attending to their duties. He shared some of his experiences on field inspections and practical issues related to seed certification.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor addressing the trainees

A total of thirteen lectures and nine field and lab visits were organized which included recent advances and technical aspects of seed production in major cereals, millets, pulses, oilseeds, fibre & forage crops, procedures of seed certification, strategies and management of pest and diseases including storage pests, seed quality testing, seed health, varietal purity and maintenance breeding, seed act and seed law enforcement for quality seed supply. The participants were exposed to paddy seed production, nucleus seed production, field inspections, varietal purity through GOT, seed purity testing by molecular markers and



SCO's with the university officials

Iso Electric Focussing technique, screening and detection of pests and diseases during their practical sessions at the fields of ARI, seed entomology and seed pathology laboratories. The resource persons were the Principal Scientists of various crops from PJTSAU and ICAR institutes, private seed industry viz. M/s. Kaveri, Pioneer Seeds.

Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, PJTSAU, Dr. R. Jagadeeshwar, Director of Research, Dr. K. Keshavulu, Director, TSSOCA graced the valedictory

session. The Hon'ble Vice Chancellor in his message advised the participants to upgrade their professional skills through knowledge sharing, competence and acquiring practical skills. He emphasized the need for modern gadgets for quick identification of spurious seeds. Dr. M. V. Nagesh Kumar, Director (Seeds), presented the overview of the three day training programme. Twenty eight seed certification officers from different sections of TSSOCA viz. seed certification, organic certification and International OECD certification participated in the training programme.

KVK's on promotion of Agri allied sectors for a sustained rural livelihood

KVK	Name of the Training Programme	Date	Beneficiaries
KVK, Kampasagar	Commercial Nursery	1 st to 4 th October, 2018	Thirty farmers from Irkegudem, G. Annaram, Kanchanpalli, Tripuraram, and Gundlapalli villages participated in the training programme.
KVK, Kampasagar	Entrepreneurship development through Vermicomposting	5 th to 7 th October, 2018	Thirty farmers from Tripuraram, Kampasagar, Duggepally and G. Annaram participated in the programme.
KVK, Malyal	Community tank management for enhancing fish production	23 th to 25 th October, 2018 & 29 th to 31 st October, 2018	Ninety six fish farmers from Dornakal, Abbaipalem, Kummurikuntla, Malyal, Rajalpet, Tallapuspaalli, Chinna Muppam villages participated in the programme.
KVK, Malyal	Honey Bee rearing	1 st to 3 rd November, 2018	Thirty farmers and farm women from Kuravi, Bayyaram, Alair, Gundratimadugu, Nellikudur, Malyal, Gouraram villages participated in the programme.



Hands on Training on Vermicomposting at KVK, Kampasagar



Inaugural session of training on "Community tank management for enhancing fish production" at KVK, Malyal



Distribution of certificates to the trainees at KVK, Kampasagar



Hands on training on Honey bee rearing at KVK, Malyal

“Through the Lens” - College of Home Science organizes Certificate course on “Professional photography”

Dr. R. Geetha Reddy and Ms. S. L. Kameswari of the Department of Extension Education and Communication Management, College of Home Science organised a 21 day certificate course on "Professional Photography" from 27th October to 16th November, 2018. The programme included more of practical sessions in interactive video mode to help



Photo exhibition organized during the training programme

the photographers to grasp the minute technicalities for enhancement of the professionalism in the subject. Sixteen amateur photographers from different districts of Telangana and Andhra Pradesh upgraded their skills in the programme.



Distribution of Certificates to the trainees

Empowering farmers on Mechanization in Maize

The Maize Research Centre, Rajendranagar in collaboration with AICRP on Farm implements and Machinery Scheme, DAATTC, Ranga Reddy and AICRP on Weed control conducted a field demonstration on seed to seed mechanization in maize at Pedashapur and Burjugadda villages of Shamshabad mandal, Ranga Reddy district during *Kharif* 2018 wherein they demonstrated seed cum ferti drill, Power weeder and combine harvester. A field day was also organized on 5th November, 2018 at Pedashapur to demonstrate operation of combine harvester in maize. Dr. M. Venkata Ramana, Associate Director of Research, RARS, Palem and the chief guest in his

address enlightened the farmers on the prospects of mechanization in maize particularly under rainfed situation. Dr. M. Lava Kumar Reddy, Principal Scientist (Maize) & Head, Maize Research Centre briefed the advantages of mechanization and management of Fall Army Worm in *Rabi* maize. Farmers suggested on establishment of custom hiring centres to make use of advanced agricultural machinery on rental basis. Scientists of Maize Research Centre, Farm implements & Machinery, DAATTC, Rangareddy and farmers from Pedashapur, Burjugadda and Mallapur participated in the programme.



Dr. M. Venkata Ramana, ADR, RARS, Palem addressing the farmers



Demonstration of combine harvester in maize

Increasing the spread of rice variety RNR 15048

A field day was organized on seed production of newly released rice variety RNR 15048 by Seed Research & Technology Centre, Rajendranagar under the tribal sub plan

programme of ICAR seed project on 5th November, 2018. Earlier Quality seed of RNR 15048 was distributed to 50 beneficiary farmers of Lingampally thanda, Kulkacharla

Mandal, Vikarabad district and explained the importance of the variety, production practices and its further use down the generations. Dr. M. V. Nagesh Kumar, Director (Seeds), SR&TC spoke in detail about the variety RNR 15048 and interacted with the farmers on their experiences in cultivation of the variety. The beneficiary farmers participated actively in the field day and were impressed due to its short duration, grain quality and escape from BPH

attack, hence provided a positive feedback on performance of the rice variety RNR 15048. Farmers from the village and surrounding villages showed interest in cultivation of RNR 15048 during the next season and have come forward to take the seed from their fellow farmers. Scientists from SR&TC, local public representatives and farmers of the Lingampally and neighbouring villages participated in the programme.

Distinguished Visitors

Deputy Vice Chancellor, WSU, Australia visits Varsity

Dr. Deborah Sweeny, Deputy Vice Chancellor, Western Sydney University (WSU), Australia and Dr. Athula Ginige, Professor, WSU visited the University on 24th November, 2018 in view of tripartite agreement with PJTSAU and River Bridge Ventures, Hyderabad for *Gyan kisan* mobile application and student exchange programme. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor, interacted with the delegates over phone and suggested to work out the modalities for pilot testing of *Gyan kisan* and student exchange programme. The meeting was attended by the University officers and the scientists working on the development of *Gyan kisan* app.

Later a meeting with the scientists of the *Gyan Kisan* pilot testing centres was conducted on 30th November, 2018 at Seminar Hall, Central Library, Rajendranagar. The representatives from River Bridge Ventures presented the *Gyan Kisan* mobile application to the participants and timelines for action plan was discussed and finalized. The meeting was chaired by the Director of Extension, the Director of Research, representatives from River Bridge Ventures, PJTSAU nominees for *Gyan Kisan* and Agricultural Extension Officers from Timmajipet and Kesamudram.



PJTSAU officials interacting with the team from WSU, Australia and River Bridge Ventures

CYIENT discusses GIS and Drone technology for delivering efficient farm services

The representatives from CYIENT Limited visited PJTSAU and interacted with Dr. V. Praveen Rao, the Hon'ble Vice chancellor on 4th December, 2018 to explore on the usage of latest technologies like GIS, GPS, Remote sensing and Drone technologies in agriculture for effective delivery to the peasants of the state. The representatives explained that use of GIS and drone technology would help in obtaining accurate and timely information thereby helps in delivering efficient services to farmers. Dr. V. Praveen Rao urged CYIENT Ltd. to study these technologies on pilot basis



The officials of CYIENT Limited presenting about the application of GIS and Drone technology

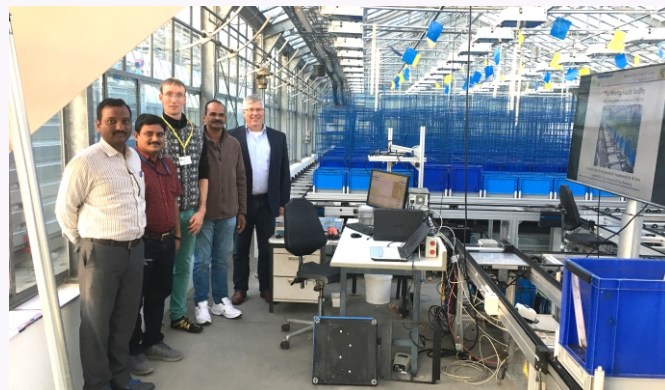
at one village each in the three zones of Telangana state which would not only help in identifying the uses of technology but also strategically plan the areas where these

can be used. Jan Radke, Subba Rao, Srikanth, Murali representatives from CYIENT Ltd. and the University officers participated in the meeting.

Exposure Visit

Faculty visit to University of Hohenheim, Germany

Three Scientists of PJTSAU, Dr. P. Jagan Mohan Rao, Principal Scientist, RARS, Warangal, Dr. L. Krishna, Senior Scientist, Rice Research Centre, Rajendranagar and Dr. D Shashi Bhushan, Senior Scientist, Seed Research and Technology Centre, Rajendranagar were deputed for two months study visit & training at University of Hohenheim, Stuttgart, Germany from 15th October to 14th December, 2018. As part of the training programme they attended seed testing module course which included ISTA practices of seed testing, seed sampling methods, objectives and principles of purity analysis, germination, seed vigour testing and seed viability testing. They were also acquainted with equipment like Multispectral imaging for non-destructive seed quality sorting, Q2 scanner used for estimation of seed quality based on O₂ consumption by seed and Thermal gradient table used to test germination at varied temperatures. Exposure visits were organised to experimental station of



PJTSAU team at Phenotyping facility at Bavarian State Research Centre for Agriculture, Freising

UOH, Seed testing lab at centre for Agriculture Technology, Augustenberg, Bavarian State Research Centre for Agriculture, Freising, Federal Research Institute, Quedlinburg, IPK, Quedlinburg and Plant variety Registration Office, Hannover.

Awards & Honours

- AICRP on Integrated Farming Systems (IFS), Hyderabad under "On-farm Research Category" was adjudged as the Best Centre and received the award during V Biennial workshop (XXXIII of Project) of AICRP on Integrated Farming Systems organized by University of Agricultural Sciences, Bengaluru and ICAR-Indian Institute of Farming Systems Research (IIFSR), Modipuram at UAS, GKVK, Bengaluru from 20th to 23rd December, 2018. from the ICAR-Indian Institute of Farming Systems Research, Modipuram, Meerut, UP.
- Dr. V. Praveen Rao, the Hon'ble Vice Chancellor received

the Dr. I.V. Subba Rao *Rythunestham* Life Time Achievement Award for the year 2018 on the occasion of 14th Annual Celebrations of *Rythunestham* farm magazine on 7th October, 2018 from Sri M. Venkaiah Naidu, the Hon'ble Vice President, Govt. of India at Swarna Bharath Trust, Muchintal, Shamshabad.

- Dr. V. Praveen Rao, the Hon'ble Vice Chancellor received the "Education Leadership award" on the occasion of 26th Business School Affair and Dewang Mehta National Education Award on 16th November, 2018 at Taj Krishna, Hyderabad.



Sri M. Venkaiah Naidu, the Hon'ble Vice President, GOI, honouring the Vice Chancellor, PJTSAU



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor receiving "Education Leadership Award"

- Dr. V. Praveen Rao, the Hon'ble Vice Chancellor received the "SEE Fellow award" on the occasion of 9th National Extension Education Congress - 2018 held by Society of Extension Education on 16th November, 2018 at Ranipool, Sikkim.
- Dr. S. Triveni, Assoc. Professor, Dept. of Agril. Microbiology & Bioenergy, College of Agriculture, Rajendranagar, Hyderabad received the Best Scientist Award on the occasion of 14th Annual Celebrations of *Rythunestam* farm magazine on 7th October, 2018 at Swarna Bharath Trust, Muchintal, Shamshabad.
- Dr. M. Goverdhan, Principal Scientist, AICRP on

Integrated Farming Systems received the best paper presentation award for his paper entitled "Integrated farming System for Enhancing farmers' Income and Nutritional Security" at the Indian Society of Extension Education national seminar held at West Bengal University of Animal and Fishery Sciences, Kolkata during 5th to 7th December, 2018.

- V. Manasa Reddy, K. R. Jithin and K. Vivek from Agricultural College, Jagtial received 3 Gold, 1 Silver and 1 Bronze medals in the Wako India Senior National Kick Boxing Championship- 2018 held from 2nd to 5th December, 2018 at Khudiram Anushilan Kendra Indoor Stadium, Kolkata, West Bengal.

Success Story

An enterprising farmer shows the way

The plateau in yields of various crops and increased cost of cultivation under changing climatic conditions reduced the income of farmers thus making agriculture a non profitable enterprise. However India's vision of Doubling farmers income could be realized by adopting modern agricultural practices and one among those is Integrated Farming System. IFS is a farm enterprise of crop, livestock, aquaculture, agroforestry, agri- horticulture and sericulture which helps in not only obtaining higher productivity but also minimizes the risk.

The success of this approach was clearly demonstrated by the inspiring story of Sri Nalgonda Srinivas, a farmer from Thatigudem village, Kasipet Mandal, Mancherla District. The farmer initially cultivated only cotton in his 1 ha land from which he earned Rs 80,000 – Rs 1,20,000 per annum. Later he adopted Integrated Farming System in his 1 ha land which constituted field crops, horticultural crops, teak plantation on borders, dairy, poultry and fishery. Rice, horticultural crops i.e cucumber, tomato, chilli, marigold, bittergourd & cauliflower and

livestock i.e 5 cows, 8 hens, 4 ducks and a fishery unit were the components in his field. He had an open well and also constructed a farm pond which was used for rearing fish. He earned an amount of Rs 1,36,000 from Dairy unit, Rs 10,000 from FYM, Rs 50,000 from his poultry unit per annum. On the advice of KVK staff, Bellampalli he adopted Trellis method of cultivation for Tomato, Cucumber and Capsicum crops and usage of waste decomposer which not only reduced the fertilizer consumption but also increased the yields. Further he adopted organic cultivation of vegetables which fetched a better price for the produce. He earned Rs 3,00,000 from cucumbers, Rs 13,500 from tomato, Rs. 13,000 from Chilli, Rs. 9,500 from Marigold, Rs. 14,000 from Bittergourd and Rs 30,000 from cauliflower cultivation as part of horticultural unit, while he earned Rs. 23,000 from rice. His net income from this farm enterprise was Rs. 4- 5 lakhs/annum from 1 ha of land which should inspire other enterprising farmers to follow in his footsteps.



Fishery unit at the farm



Farmer raising vegetable nursery in pro trays

Institutional Activities - Show of Reverance and Responsibility

World Soil Day at KVKs

The World Soil Day was celebrated at all the KVK's on 5th December, 2018 with a vision to create awareness on soil health management as majority of the farmers in the state were applying excess fertilizers which not only increases the cost of cultivation but also pollutes the soil. As part of the event, Soil health cards were distributed to farmers, training programme on soil health management was organized, importance of soil testing, collection of the soil and water sample, fertilizers recommendation based on soil test values were explained to farmers and finally a world soil day pledge was taken.



Distribution of soil health cards to farmers at KVK, Malyal

Jai Kisan Jai Vigyan Diwas



Scientist, KVK, Rudrur addressing the farmers

KVK, Rudrur organized *Jai Kisan Jai Vigyan Diwas* at Rudrur village, Nizamabad on 24th December, 2018 with a brief on the ideologies of Late Sri Chaudhary Charan Singh and Sri Atal Bihari Vajpayee, then Prime ministers of India for the development of agriculture sector in the country and the importance of programme *Jai Kisan Jai Vigyan*. On this occasion, P. Vijay Kumar, Subject Matter Specialist conducted a training programme on rice nursery management practices to women farmers at the village.

Vigilance Awareness Week – for a corruption free India

Post Graduate Research Centre, College of Home Science organized a guest lecture on “Eradicate Corruption – Build a New India” delivered by Dr. A. R. G. Ranganathan, Principal Scientist and Vigilance Officer from ICAR- IIOR on 3rd November, 2018. On the occasion of Vigilance awareness week from 29th October to 4th November, 2018 KVK, Rudrur

organised an integrity pledge on 29th October, 2018 with its staff as per the guidelines of Central Vigilance Commission (CVC) and essay writing competition was conducted to students of vocational college and elocution to Govt. High School students at Rudrur on 30th October, 2018.



Dr. ARG Ranganathan, Vigilance Officer, ICAR- IIOR interacting with staff and students

Floral Tributes to Dr.B.R. Ambedkar

Rich floral tributes were paid to Dr. B. R. Ambedkar on the occasion of his Death Anniversary on 6th December, 2018 by all the constituent Colleges, Research Stations, Extension Units of the University. The teaching, non-teaching staff and students participated in the programme and recalled the contributions made by Dr. B.R. Ambedkar in formulating the Indian constitution and his untiring efforts as a social reformer.



Dr. V. Praveen Rao, the Hon'ble Vice Chancellor paying floral tribute to Dr. B. R. Ambedkar

Creating interest in School children- National Agricultural Education Day

All the constituent Colleges of the University celebrated National Agricultural Education Day on 3rd December, 2018 wherein staff and students of the colleges were actively involved in the programme. On this occasion, various competitions were organized for school children.



Students from Delhi Public School at National Agricultural Education Day, College of Agriculture, Rajendranagar

Second Convocation of PJTSAU- Another crop of graduates pass out

The Second Convocation of PJTSAU was held on 9th December, 2018 at University Auditorium, Rajendranagar. Sri ESL Narasimhan, the Hon'ble Governor of Telangana and Chancellor of the University presided over the convocation, while Dr. Rajendra Singh Paroda, Former Secretary (DARE) and Director General, ICAR, New Delhi delivered the convocation address. Dr. Rajendra Singh Paroda was conferred the degree of Doctor of Science (*honoris causa*) by

Exhibition on various aspects of Agriculture and allied fields were arranged for educating school children. Children from various schools in the vicinity of the respective colleges participated in large numbers.

Inter College Sports, Games, Cultural and Literary Meet – Competing and Building teams

Inter College Sports, Games, Cultural and Literary Meet 2018-19 was held from 1st to 6th November, 2018. The meet was inaugurated by Dr. B.V. Patil, Director Education & Founder Vice Chancellor, UAS, Raichur, Karnataka along with Dr. R. Jagadeeshwar, Dr. M. Uma Devi and Dr. A. Manohar Rao, the Hon'ble Members, Board of Management, PJTSAU on 31st October, 2018 at University Sports Complex, Rajendranagar, Hyderabad. Dr. B.V. Patil in his inaugural address stressed upon the need of sports and exercise in the daily life which would not only provide physical fitness but also a break from academics. The prizes were awarded by Dr. V. Praveen Rao, the Hon'ble Vice Chancellor and in his address he reiterated that youth should work with patience and develop self esteem. The Overall Championship in sports and games for boys and cultural and literary events was bagged by College of Agriculture, Rajendranagar, while Agricultural college, Aswaraopet bagged the trophy in girls category. Sri Venkatesh, Alumni of college and Film Director, Sri Venugopal, Lyricist, Dr. V. Vishnuvardhan Reddy, Dean of Student Affairs graced the occasion. Five hundred and twelve students representing nine constituent colleges participated in the event.



Winning team of College of Agriculture, Rajendranagar with the Hon'ble Vice Chancellor and University officials

the University in recognition of his outstanding contribution to Indian Agriculture.

Sri ESL Narasimhan, in his address called for a national water policy to meet the irrigation needs of farmers and further emphasized to link farm produce to better market price to make agriculture profitable. He advised the agri graduates to safeguard food, health, economic and environmental security by promoting best

farming practices and educating farmers on organic farming. He further stressed on sensitizing farmers on micro irrigation, crop diversification, crop colonies and value addition of their produce for fetching a better price. He complemented the Vice Chancellor for his exceptional work in curricular and extra-curricular programmes. Dr. R.S. Paroda first applauded the University for its achievements and congratulated the graduates for attaining their degrees and in his address stressed on empowerment of women in agriculture for household nutritional security and motivation of rural youth towards agri-preneurship for a sustained rural livelihood. Dr. V. Praveen Rao, the Hon'ble Vice Chancellor in his report informed that PJTSAU was recognized at national level and the varsity received several

awards for 2016-17, including Outstanding AICRP Maize Research Centre Award and secured 12th position in ICAR Ranking of State Agricultural Universities. A new Agricultural college at Sircilla was started with an intake of 60 students from the academic year 2018-19 and recruited 242 entry level faculty in the current year.

In the PG and Ph.D programmes, 162 candidates received their degrees while 584 students have qualified for the award of Bachelors degree in Agriculture, Agricultural Engineering and Home Science. Ten gold medals for PG & Ph D and 17 for UG programmes were awarded to meritorious students excelling in their disciplines.



Dr. R.S. Paroda delivering 2nd Convocation address



Sri ESL Narasimhan, the Hon'ble Governor of Telangana addressing the students and staff



Honouring Dr. R.S. Paroda with Doctor of Science (honoris causa)



Ms. Y. Mounya Reddy receiving five gold medals

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