



CAMPUS NEWS

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Directorate of Public Relations & Publications

Two-Day Training Workshop on Tractor Mechanics and Energy Conservation in Agriculture (Tractors)



A two-day training workshop on Tractor Mechanics and Energy Conservation in Agriculture was organized by the Department of Farm Machinery and Precision Engineering, FAE&T, PMAS-AAUR. The topics of the seminar were Tractor mechanics, Principles of efficient tractor operation and environmental impact of diesel exhaust, its remedies, and EPA standards. The guest speaker was Engr. Mansoor Rizvi, Country Head of Case New Holland Agriculture.

Engr. Mansoor explained to the participants about the optimum use of agriculture tractors that can bring 21% savings in diesel consumption. He explained that proper rear tire inflation, selection of proper gear and engine rpm, proper adjustment of implement, correct use of tractor hydraulics, and maintenance of a cooling system of the tractor requires no financial input but the savings in terms of diesel and environment is huge.

Engr. Prof. Dr. Jehanzeb Masood Cheema, Dean Faculty of Agricultural Engineering and Technology in his remarks emphasized that Pakistani agriculture is

facing environmental pollution, adverse effects of climate change, water shortages and other serious problems, including growing population and poor economic potential of farmers.

The Vice-Chancellor of PMAS- PMAS-AAUR Engr. Prof. Dr. Qamar uz Zaman, in his address, puts great emphasis on the industry-academia linkage to address the challenges being faced by our farmers. He has shed light on the project process pertaining to precision agriculture.

He stated that the Faculty of Agricultural Engineering and Technology, Department of Farm Machinery and Precision Engineering is working to indigenize gadgets used under the "internet of things" and Geographic Information Systems to develop an economical solution to provide early weather warnings and crop-related instructions to the farmers. Engr, Dr. Tahir Iqbal, Chairman Department of Farm Machinery and Precision Engineering thanked the participants and speaker. The seminar was ended with the award of certificates to the participants.

Training workshop on Integrated Water Resources Management

A Two-Day training workshop on Integrated Water Resources Management (IWRM) with topics of Water Markets and Water Trading, Hydrological Modeling, Water Banking and Managed Aquifer Recharge (MAR), Integrated River Basin Management under Climate Change was held at PMAS-AAUR. The workshop was organized by the Department of Land and Water Conservation Engineering (L&WCE), FAE&T in collaboration with PEC with the objective of Continuing Professional Development (CPD) of Registered Engineers (REs) and Professional Engineers (PEs).

Prof. Dr. Qamar uz Zaman Vice Chancellor PMAS-AAUR was the chief guest at the concluding session while the guest speakers were Dr. Muhammad Akhtar



Abbasi, Assistant Director in the Australian Federal Ministry of Water and Dr. Sohail Rai, Director Modelling in Murray Darling Basin Authority. Dr. Qamar uz Zaman emphasized on the industry-academia linkage to address the challenges being faced by our farmers related to water resources management. He stressed on the enhancement of water productivity pertaining to smart and precision irrigation. He stated that FAE&T, Department of L&WCE is working for national water

management under the “internet of things” and Geographic Information Systems to develop an economical solution to provide early weather warnings and crop-related instructions to the farmers.

Speakers have said that water should be on the top of political agenda and emphasized that the water managers, experts & policy makers should adopt the IWRM techniques to sustain the available water resources for the future generation.

PMAS-AAUR & FES Signed MoU

PMAS-AAUR and FES Higher Education Consultants Pvt. Ltd. Signed MoU on 30-05-2022. Under the MoU, FES will provide International Education and Counselling with a sole purpose of providing career counselling services and guidance to the students of PMAS AAUR. FES will provide sponsorships for the events of PMAS-AAUR (UIMS & UIIT in particular) and staff will provide guidance to students of PMAS AAUR. FES will also guide and make necessary Admission Arrangements, including visa, medical, interview preparations, appeal review launching, pre-departure guidance, arranging expo, events and ILETS classes for the students. Two awareness sessions will be held at PMAS-AAUR in a year (March & Oct) for spreading the educational opportunity provided by FES to the students of PMAS AAUR.



Hands-on Training Workshop

Non-Chemical Approaches to Preserve Post-Harvest Quality of Grains



94th Syndicate Meeting



Vice Chancellor Prof. Dr. Qamar-uz-Zaman Presiding the 94th Syndicate Meeting held on 25-05-2022

3- Days Hands on Training Workshop on APSIM

Three days (May 25-27, 2022) Hands on Training Workshop on “APSIM (Agricultural Production Systems Simulator): Decision Support Tool for Agricultural Systems Modeling and Simulation” was organised by Dr Mukhtar Ahmed, Assistant Professor, Department of Agronomy, PMAS-AAUR, funded by Research Endowment Fund (REF) Program of ORIC, PMAS-AAUR. The objective of the workshop was to train the participants on the application of APSIM as decision support tool under changing climate as well to demonstrate how dynamic models can be used as functions under different cropping systems. Participants from different parts of the country participated in the workshop while it was also attended by the international researchers from USA, UAE, Thailand, Sri Lanka, and New Zealand through zoom link.

Vice Chancellor Prof. Dr. Qamar-uz-Zaman was the chief guest in the inaugural session of the workshop.

He highlighted the need for the use of models as decision support tool as they can help to design adaptation and mitigation strategies under changing climate. Furthermore, he highlighted the importance of precision agriculture as he is working in this field since last three decades. Afterwards, Dr Aslam from the Ministry of National Food Security and Research highlighted how model can help to understand crop bio-dynamism, climate, and crop management simultaneously to explore the crop potential yield. Mr. Hassan Abadi from Fatima fertilizer informed participants how they are using different digital tools to uplift farming community.

At the end, Director ORIC, Prof. Dr. Khalid Saifullah Khan congratulated participants and organisers for the successful completion of the training workshop. Dean FC&FS, Prof. Dr. Fayyaz-ul-Hassan have given concluding remarks and also distributed the shields and certificates among the participants.



71st Academic Council Meeting



3- Days Hands on Training Workshop on Biofertilizer Development for Pulses production in Pothwar

A Three days Hands-on Training Workshop on “Biofertilizer Development for Pulses production in Pothwar” was organized by Institute of Soil & Environmental Sciences of PMAS-AAUR in collaboration with ORIC under University Research Endowment Fund (REF) program. The objective of this



training workshop is to characterize nodule bacteria using molecular tagging for development of quality biofertilizer, its commercialization and registration in Pakistan. The other objectives focused were to highlight the importance and efficiency of pulses biofertilizer for enhancing grain productivity by minimizing the input cost in Pothwar and to find out novel ways and means for production, commercialization and registration of pulses biofertilizer keeping in view international quality standards.

The Vice Chancellor Prof. Dr. Qamar uz Zaman inaugurated the workshop by emphasizing the role of next generation bio-products in precision agriculture under changing climate scenario. The participants from four provinces of Pakistan and having specialties in different disciplines like Soil Scientist, Agronomist, Microbiologist, Agriculture Extension Officers/ Agents, Farmers, and Fertilizer Manufacturer who striving for cost effective and environment friendly sustainable crop production system attended this training workshop. During their stay at PMAS-AAUR, the participants were trained practically in soil microbiology labs of university where in, they isolated potential nodules forming taxa from pulses and later on used for formulation of pulses.

By concluding the workshop, Director IS&ES/ORIC Prof. Dr. Khalid Saifullah Khan highlighted that biofertilizer biotechnology not only help in increasing N₂-fixation, soil health and yield of pulses specially chickpea, soybeans, mash bean, mung bean, lentil and Ground nut but also mitigate global warming through minimizing N₂O emission into stratosphere.



Ph.D Viva Examination

S. No.	Name of Student	Title	Name of Supervisor
1	MARYAM AJMAL (11-arid-2461) Ph.D Botany, 17-05-2022	Aspergillus Colonization and aflatoxin contamination in sesame seeds from agro-ecological zones of punjab	DR. ABIDA AKRAM

Ph.D Passout

S. No.	Name of Student	Title	Name of Supervisor
1	Akbar Shah (15-arid-2833) Ph.D Zoology, 27-05-2022	ABUNDANCE AND HABITAT MAPPING OF WESTERN TRAGOPAN (TRAGOPAN MELARNOCEPHALUS) IN PALLAS VALLEY, PAKISTAN	Dr. Amjad Rashid Kayani

International Project Award

Prof. Dr. M. Azam Khan, Chairman Department of Horticulture, has successfully won the International Joint Research Project No. SCO 21B002 with Jiangsu Academy of Agriculture Sciences (JAAS). The project is funding under Shanghai Cooperation Organization (SCO) Institute of Modern Agriculture Development.



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