





CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE & TECHNOLOGY Kanpur- 208002, Uttar Pradesh, India www.csauk.ac.in



Announcement of e-International Training

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NEGLECTED AND UNDERUTILIZED CROP SPECIES (NUS) FOR FOOD & NUTRITIONAL SECURITY DURING TIME OF UNCERTAINTIES

October 16-29, 2020



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ABOUT THE UNIVERSITY

C.S. Azad University of Agriculture & Technology, Kanpur is a premier agriculture institution of the nation serving since 1893 with a massive goal to serve the cause of farming community particularly of its service area and U.P. State. Since then, it is committed to continuous improvement in agriculture and allied sectors by developing quality manpower, providing relevant production technologies & dissemination of technologies to the farmers fields through agricultural education, research and extension approaches with a view to prove excellence in areas of concern. University offers various degree programs through its constituents colleges viz, College of Agriculture, College of Home Science at Kanpur main campus and College of Agricultural Engineering & Technology, at Etawah. Four new faculties i.e. Faculty of Forestry & Faculty of Horticulture at Kanpur and Faculty of Fisheries Sciences & Research Centre & Faculty of Dairy Technology, at Etawah have been added to full fill the educational needs. A second College of Agriculture is also established at Lakhimpur Kheri. The University has a long history of significant research contributions made by the well established four Research Sections (Rabi cereals, Oilseeds, Legume & Vegetables), five Regional Research stations (Daleepnagar-kanpur, Sainin-Kushambi, Kalai-Aligarh, Hazratpur-Firozbad and Mainpuri) and 14 Research farms. Transfer of Technology is another important mandate of the University. Thirteen KVKs are located in area jurisdiction of University in Uttar Pradesh, are actively participating for transforming lab to land programmes to empower farmers for their food & livelihood security.

ABOUT THE PROJECT

The Centre for Advanced Agricultural Science and Technology on Nutritional Crops is the World Bank funded project, implemented by Government of India through National Agricultural Higher Education Project-Indian Council of Agricultural Research, New Delhi, This Project seeks to establish partnership with National/International /Private organizations and scaling of capacity building of postgraduate students as well as faculties for enhancing their research and teaching capabilities. The Project aim is to promote production-oriented research as a way to enhance productivity and ensuring the prosperity of rural communities and developing knowledge centre for nutritional crops.

ABOUT THE TRAINING PROGAMME

Neglected and under-utilized plant species are those plant species whose potential has not been exploited to the fullest extent. These are variously known as underutilized and under exploited species, neglected species, orphan crops, future food crops, crops for the future, nutrition crops, etc. These crops could be the key to sustainable agriculture in most developing countries facing a resource crunch as well as rapid depletion of natural resources. Among the vast array of plants deserving attention, only a few could be prioritized for scientific exploitation in a phased manner based on their economic potential and niche advantages. The Indian subcontinent has been one of the rich emporia of 2,500 plant species used in indigenous treatment and food sources. Most of the potential underutilized crops have been used. The major group of crops includes small millets, pseudo-cereals, grain legumes, vegetables, fruits and industrial crops.

Small millets and pseudo-cereals alone constitute a major portion and are staple food in many states and were parts of many civilizations. The different small millets crops viz. finger millet, proso millet, foxtail millet, barnyard millet, kodo millet and little millet are very important in view to provide nutritional security and developing contingent plan for erratic weather conditions. Similarly pseudo-cereals viz. quinoa, grain amaranth, chenopodium and buckwheat are important due to their unique nutritional attributes and adaptability to varying climatic conditions. Different minor legumes crops viz. rice bean, horse gram, adzuki bean, cluster bean and lathyrus etc. are very hardy and their special features. Many vegetables including Amaranthus spp, Moringa spp, Solanum spp, Ipomea spp and other many species which have potential to be cultivated at larger area. Similarly fruit species also great potential and source of nutraceutical and functional food and be deployed to fight against abiotic and biotic vagaries. This training progamme is designed to have lectures and tutorials of renowned researchers who have significant contribution in improvement, generation of technologies for production, utilization and up scaling of potential underutilized plant species.

COURSE CONTENT

The following topics will be covered:

- Potential food, fodder, under-utilized crops: problems and challenges in improvement programme.
- PGR resources of NUS and their utilization
- Breeding procedures for important potential NUS
- Genomic tools for improving nutri-cereals
- Biotechnological approaches to improve potential crops .
- NUS as Nutraceuticals and functional food
- Production technologies and seed production •
- NUS crops for socio-economic and lively hood improvement.

RESOURCE PERSON

The resource person for this training progamme will be from reputed national and international organizations. Highly experienced scientists/ faculty from CGIAR institutes, ICAR institutes and Agricultural universities and the National and international organizations has been requested to deliver lectures and tutorials. Training sessions will be of 2-3 hours per day preferably during evening (3-6 PM) as per Indian Standard Times (IST).

ELIGIBILITY

The progamme is open to approximately 100 senior students (Postgraduate and Ph.D.) and young professionals, researchers, scientists, university faculty from any field of study or discipline who are interested to learn and understand about under-utilized plant species. Adequate knowledge of agriculture, crop diversity, plant improvement, biotechnology and genomic tools are essentially required for understanding the subject.

REGISTRATION FEE

No Registration fee will be charged for participation in e-International Training.

HOW TO JOIN

Interested candidates can apply for the training progamme by filling Google forms at Registration Link https://docs.google.com/forms/d/1_IHX9v1qAqX6WLrRwLMCbFOTa4wM3IqsP-Xa8zahaso/editlatest by October 5, 2020. Whole training sessions will be organized by using suitable online platform and selected candidates will be informed about joining procedures through email. Details of the training programme is also available on University Website: www.csauk.ac.in

IMPORTANT DATES

Last date for Registration	:	05/10/2020
Commencement of the course	:	16/10/2020

Organizing Committee for training progamme

Chairman	Dr D. R. Singh
	Vice-Chancellor, CSAUA&T, Kanpur India
Co-Chairman	Dr H. G. Prakash, Director Research
Convener(s)	Dr Dharam Raj Singh, Dean College of Agriculture
	Dr Ved Ratan, Dean College of Home Science
	Dr R. K. Yadav, Dean Lakhimpur Kheeri Campus
Co-convener	Dr Mahak Sigh, Head Genetics & Plant Breeding

Scientific Programme Committee

Chairman	Dr Vijay Kumar Yadav, Head, ABM
Co-Chairman	Dr P. K. Singh, Genetics & Plant Breeding
Members	Dr Lokendra Singh, Genetics & Plant Breeding
	Dr R. P. Vyas, Genetics & Plant Breeding
	Dr Sanjay Singh, Genetics & Plant Breeding

Technical Session Committee

Chairman	Dr C. L. Maurya, Seed Science & Technology
Co-Chairman	Dr S. K. Gupta, Legume Section
Members	Dr Harish Chandra, Genetics & Plant Breeding
	Dr Manoj Mishra, Directorate of Research

Google Meetings App Management Committee

Chairman	Dr Anand Srivastava, Incharge, AKMU
Co-Chairman	Dr A K Singh, Incharge, Biotech Lab
Members	Mr Ajeet Singh, Multimedia Lab
	Mr Vivek Kumar, AKMU

WORLD FOOD DAY: ACTION FOR #ZEROHUNGER

OCTOBER 16



Course Director

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Organized Under

National Agricultural Higher Education Project

Organized by **Directorate of Research** Chandra Shekhar Azad University of Agriculture & Technology, Kanpur 208002 (U.P.) India

