

Seminar on Digital Agriculture and Information Management for Developing Countries

Name	Seminar on Digital Agriculture and Information Management for Developing Countries		
Organizer	Hubei Vocational College of Bio-Technology		
Time	Nov. 16, 2022 - Dec. 6, 2022	Language	English
Countries	Developing countries	Number of Participants planned	25
Training Objective	The training will enable the participants to have a comprehensive understanding of China, learn the advanced technology and successful management experience of Chinese digital agriculture and information management, and provide reference for the development of digital agriculture and information management in their own countries. At the same time, the seminar will also build a bridge for the exchange and cooperation of digital agriculture and information management between China and all the other developing countries.		
Requirements for the Participants	Professional Background	Officials, experts, researchers, teachers or management staff engaged in agriculture and information management.	
	Language	Capable of listening, speaking, reading and writing in English	
	Others	Able to use zoom, and able to complete the project schedule	
Content of the Training Courses	<p>1. Introduction to the Main Training Courses and Contents</p> <p>The training content of this seminar mainly includes four sections: lecture, cloud visit, cloud cultural experience, and symposium. Lectures are closely related to the theme of the seminar, with the digital agriculture and information management as the core, combined with the actual needs of developing countries, introducing the management scheme and advanced technology of Chinese digital agriculture and information management in related fields, and discussing new ideas of modern agricultural development together.</p> <p>(1) General Review of China: introduce China's current development of politics, economy, society, culture and other aspects.</p> <p>(2) Epidemic Prevention and Control Experience: share relevant initiatives in combating the COVID-19 epidemic, successful experiences in daily prevention and control, and international cooperation in combating the COVID-19 epidemic.</p> <p>(3) Poverty Alleviation in China's Rural Areas: introduce the history and achievements of China's rural poverty alleviation, including the concept of poverty alleviation, policy support, and typical cases, etc.</p> <p>(4) An Introduction to Blockchain: briefly introduce the origin, development, architectural model, core technologies and applications of blockchain and the challenges it is facing.</p> <p>(5) Blockchain-based Digital Agriculture: introduce the application and exploration of blockchain technology in the field of digital agriculture, explain the practical significance and developmental difficulties of "blockchain + agriculture", analyze the development</p>		

prospect of blockchain application in the field of agriculture, and put forward suggestions to promote the development of digital agriculture.

(6) Research on how to Help the Construction of Digital Villages via Agricultural Information Service System: analyze the background of digital villages construction, national agricultural and rural policies and overall planning of digital villages construction, and focus on the role of digital agriculture and information management to help the construction of digital villages.

(7) Digital agriculture construction policies and case studies: Interpret the policies and successful case studies of China's digital agriculture construction, and offer some thoughts on potential problems and future development directions.

(8) Opportunities and Challenges of Digital Agriculture Development in Post-Epidemic Era: Analyze the opportunities and challenges encountered in digital agriculture development in the context of the post-epidemic era, and propose solutions to address them.

(9) Digital Capacity Building of Agricultural Productive Services: Analyze the digital level of agricultural productive services from the perspectives of their scope, industry chain and service subjects, and make suggestions for further development.

(10) The logic of Ecommerce, China Ecommerce Development and Cooperation with the developing countries: outline the logical theory and framework of ecommerce, the origin and development of China's ecommerce, and challenges it is facing.

(11) Application of Machine Learning and Computer Vision in Digital Agriculture: introduce the progress of machine learning and computer vision in the field of digital agriculture production, analyze the problems and future development directions of machine learning and computer vision in digital agriculture applications.

(12) Knowledge-driven Agricultural Big Data Management: explain the definition, origin and main features of knowledge-driven, and analyze the standards of agricultural big data management, application of knowledge products, and case sharing, etc., and carry out the prospect for the application of knowledge-driven agricultural big data management.

(13) Application of Hyperspectral Imaging Technology in Agricultural Nondestructive Detection Field: introduce the basic principles, data processing methods and progress of hyperspectral Imaging Technology in nondestructive testing of agricultural products, discuss its development trend and shortcomings in agricultural nondestructive testing.

(14) Research on the framework of agricultural informatization standard system: explain the concept and framework of agricultural informatization standard system, analyze necessity of its research and formulation, and propose the direction of researching and formulating agricultural informatization standard system, taking into account the actual situation in the agricultural field.

(15) Progress of Agricultural Informatization: give an overview on the progress of agricultural informatization, focus on the importance of the development of agricultural informatization, and put forward suggestions for promoting the construction of agricultural informatization with regard to the shortcomings of the agricultural informatization development process, etc.

(16) Information Retrieval and Processing in Agriculture: introduce agricultural information retrieval and processing, analyze the practical applications of information technology in automatic retrieval, classification, access and hotspot detection of agricultural

network information, providing personalized decision-making references for agricultural researchers and administrators.

(17) Agricultural Big Data and Network Security: introduce the features of the big data era and the importance of network information security, practice and achievements of big data and network security construction in China's agriculture and rural areas, analyze the disadvantages in their construction and application, and propose coping strategies of network security issues in agricultural production in the context of big data.

2. Cloud Visit

Cloud visit to Huawei College of Information and Network Technology, Digital China Cloud Tech Information School-Enterprise Cooperation Training Base, etc., to investigate the information service process and mode of “information technology + agriculture”.

3. Cloud Cultural Visit

Cloud cultural visit to the famous cultural attractions in China, appreciate the world natural cultural heritage and the development achievements of China's reform and opening up.

4. Symposium

(1) Symposium: experts will share their experiences in the development of digital agriculture and information management in China and exchange views on the current situation, problems and development of digital agriculture and information management in developing countries.

(2) Country report: participants from different countries will share the general situation and culture of their countries, the development and problems facing the digital agriculture and information management field, and discuss specific issues they are interested in.

(3) Business exchange session: in-depth exchanges with professional and technical staff of agricultural information service platforms, agricultural information service enterprises and experts in the field of digital agriculture and information science on the issues of current situation, trends, advantages, challenges and difficulties facing the development of digital agriculture and information management.

5. Introduction of the Overall Profile of Lecturers

All the teachers invited for this project are experts with senior titles in the fields of digital agriculture and information technology, from the Hubei Academy of Agricultural Sciences, Huazhong Agricultural University, Zhongnan University of Economics and Law and other universities and research units, with rich experience in teaching and research.

(1) NIE Zhongming: Associate Professor, School of Foreign Trade, Wuhan Polytechnic College.

(2) BIAN Yi: Associate Chief Physician of Tongji Medical College of Huazhong University of Science and Technology.

(3) DING Shijun: Dean of School of Public Administration and Director of MPA Education Center of Zhongnan University of Economics and Law, Professor II, Doctor of Management, Doctoral Supervisor, consultant of World Bank and FAO Energy and Poverty Project, and director of China Rural Cooperative Economic Management Society.

(4) XU Shiwei: Associate Professor of School of Information Science, Huazhong Agricultural University, PhD in Information Security, School of Computer Science, University of Birmingham, UK, Senior Engineer of Product Development Department,

	<p>709th Research Institute of China Shipbuilding Industry Corporation(or CSIC).</p> <p>(5) SHI Lijuan: Associate Professor, College of Information, Huazhong Agricultural University, Ph.</p> <p>(6) ZHOU Deyi: Professor and PhD supervisor of School of Economics and Management, Huazhong Agricultural University. From 2009 to 2010, he was appointed by the Ministry of Agriculture of the People's Republic of China as the head of China's agricultural expert group to assist Botswana in Africa.</p> <p>(7) ZHANG Ying: Associate Professor of School of Information, Huazhong Agricultural University, PhD in Resource and Environmental Information Engineering.</p> <p>(8) FENG Zaiwen: Associate Professor of School of Information, Huazhong Agricultural University, Postdoctoral Researcher of School of Information Technology and Mathematics, University of South Australia, Australia, Member of ISO SC32 (International Organization for Standardization Special Committee on Data Management), awarded ISO Special Contribution Award in 2015, and won the First Prize of Hubei Provincial Science and Technology Progress twice in 2011 and 2015 respectively.</p> <p>(9) LIU Shanmei: Associate Professor, College of Information, Huazhong Agricultural University, with a PhD.</p> <p>(10) FANG Dongquan: Researcher of Huazhong Agricultural University.</p> <p>6. Assessment</p> <p>Participants are required to submit the teaching quality assessment sheet after each lecture(electronic version), and a country report (PowerPoint) at the end of the training.</p>
Notes	<ol style="list-style-type: none"> 1. This training will be conducted online on Zoom platform, which requires internet, computer, microphone and webcam. 2. During the training, please observe the class time and teaching discipline, attendance records will be used as the basis for issuing the certificate. 3. Preparation for the class: the participants are kindly required to enter the Zoom meeting 15 minutes early before class. Better check your Zoom ID to be same as the one on your passport and turn on the webcam for the sake of your attendance. During the class, the host will mute everyone. 4. Disciplinary requirements: during the seminar, please try to strictly follow the arrangements and do not quit without any reason and notice. 5. Information security: to protect information security and individual privacy, please do not record, take screenshots or post on any social media during the training. Course materials will be sent to participants at the end of the class. 6. Participants are supposed to prepare related discussion materials and submit relevant electronic materials as required.

<p>About the Organizer</p>	<p>Hubei Vocational College of Bio-Technology is the organizer of Foreign-Aid Training Programs determined by the Ministry of Commerce in the 1990s. Over the past 32 years, the college has successfully implemented 94 foreign-aid training projects sponsored by China Ministry of Commerce and 27 bilateral training courses sponsored by IFAD project for Egyptian agricultural officials. 2652 officials and technicians from 128 countries have attended the training in the college. We have successively organized bilateral training programs for 16 developing countries, including Egypt, Niger, Namibia, Bangladesh, Tajikistan, Mali, Afghanistan, Uzbekistan, Lesotho, Chad, South Sudan, Kazakhstan, Ethiopia, Cambodia, Pakistan, and Burkina Faso, and implemented fruitful bilateral communication and cooperation.</p> <p>The college actively serves the BRI construction, insisting on the combination of management training and practical technical training from the actual needs of participating countries. The training covers ten major fields such as Crop planting, Animal Husbandry, Eco-agriculture, Protected Agriculture, Agricultural Biotechnology, Cotton Processing, Textile Production, Economy and Trade Administration, Legal System Construction and Digital Economy. The training language covers English, French and Russian; The participants come from 128 countries on five continents, and more than 80% of them are local government cadres at the department level or above, as well as university teachers and technicians of the National Agricultural Research Institute.</p>	
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