Seminar on Natural Disaster Mechanisms, Prevention and Reduction for Developing Countries

Name	Seminar on Natural Disaster Mechanisms, Prevention and Reduction for Developing Countries		
Organizer	Nanjing University of Information Science & Technology		
Time	2024-05-17 -- 2024-05-30	Language for Learning	English
Invited Countries	Developing country		
Number of Participants	25		
Requirements for the Participants	Age	Under 45 for officials at or under director's level; under 50 for officials at director general's level.	
	Health	In good health with health certificate issued by the local public hospitals; without diseases with which entry to China is disallowed by China's laws and regulations; without severe chronic diseases such as serious high blood pressure, cardiovascular/cerebrovascular diseases and diabetes; without metal diseases or epidemic diseases that are likely to cause serious threat to public health; not in the process of recovering after a major operation or in the process of acute diseases; not seriously disabled or pregnant	
	Language	Capable of listening, speaking, reading and writing in English during the training	
	others	Family members or friends shall not follow	
Host City	Nanjing City, Jiangsu Province	Local Temperature	Temperature: 18℃- 26℃
Cities to visit	Chongqing City	Local Temperature	Temperature: 18℃- 30℃
Notes	During seminar, please abide by the participation rules. Your attendance, classroom performance, learning records, participation in discussion, etc. will taken into consideration in the issuance of the seminar certificate.		
Contact of the Organizer	Contact Person(s)	Ms.Shen Guangqiu	
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About the Organizer	Nanjing University of Information Science & Technology is a highly recognized Regional Training Center (RTC-Nanjing) by the World Meteorological Organization (WMO) as well as UNESCAP/WMO Typhoon Committee. It has held nearly 220 multi- and bi-lateral training courses from 1990 to Dec 2023. Almost 6,000 meteorologists and hydrologists from 158 countries (regions) have been trained. Many of them have become the backbone in their respective National Meteorological and Hydrological Services (NMHSs). With strong support from Chinese government, RTC-Nanjing provides a wide range of international training courses on various subjects for the development of human resources in developing countries, such as atmospheric observation, weather forecasting, climate prediction, climate information service, disaster risk prevention and reduction, climate change management, agro-meteorology, radar meteorology, satellite meteorology, weather modification technologies, tropical cyclone forecasting, numerical weather prediction technologies, administrative management of meteorological services, etc. It strictly follows the WMO Manual on the Implementation of Education and Training Standards in Meteorology and Hydrology, and Guidelines for the education and training of meteorological personnel in meteorology and operational hydrology, and other regulator materials. More information about NUIST can be found on the website http://en.nuist.edu.cn/.	

Seminar Content	Commissioned by the Ministry of Commerce of the People's Republic of China, Nanjing University of Information Science and Technology will hold a " Seminar on Natural Disaster Mechanisms, Prevention and Reduction for Developing Countries" from May 17th to 30th, 2024. The working language will be English, and the duration of the program will be 14 days. This is an on-site training program in Nanjing, China.

The seminar will focus on the theme of "Basic Theory of Natural Disasters and Disaster Prevention and Mitigation Technology", introducing and discussing in detail the following areas of knowledge:

Early Warning Systems for Multiple Hazards: Introducing the global status of early warning systems for multiple hazards, the necessity of establishing such systems, how to obtain and use early warning and risk information and assessments for multiple hazards, and the performance, scope, and socio-economic benefits of early warning systems for multiple hazards.

Responding to Extreme Disaster Risks Under Climate Change: Introducing the increasing number of extreme disaster events, risk factors brought by weather, climate, and climate change, extreme weather disasters, and climate change risks, as well as early warning and management of these risks.

Global Crisis Control and Emergency Management and Response: Highlighting the importance and challenges of emergency management and response through case studies of natural disasters, public health events, climate change, and the role of new technologies in these scenarios.

Basic Knowledge of Earthquakes and Related Disasters: Introducing the causes of earthquake disasters, the propagation of earthquake waves, the basic principles of earthquake prediction, and basic knowledge of secondary disasters such as mudslides, landslides, and barrier lakes.

Case Studies of Earthquake Disaster Reduction and Relief in China: Sharing cases of earthquake disaster reduction and relief in Tangshan, Wenchuan, Yushu, and other regions.

Principles of Meteorological Radar Detection Technology: Introducing the working principles of Doppler weather radar and the application of dual-polarization Doppler radar in fine-scale weather forecasting.

Applications of Meteorological Radar Technology in Convective Storm Weather: Introducing the application of meteorological radar technology in the forecasting of convective storms such as heavy rain, severe storms, hail, squall lines, and other weather events.

Applications of Meteorological Satellite Remote Sensing Technology in Disaster Management: Introducing meteorological satellites, particularly the principles and service products of Fengyun meteorological satellite remote sensing technology, and their applications in monitoring disaster weather and climate.

Techniques for Global Major Weather and Climate Events Impact Assessment: introduction of techniques and models for monitoring and identifying major global meteorological hazards as well as for pre-assessment of their impacts, and pre-assessment of the impacts of global high-impact events and hotspot regions.

In addition, the program will offer courses on "China's Profile " and "China's Poverty |

Reduction" to help participants understand relevant situations in China, introducing innovative measures, successful practices, and achievements in poverty reduction. The program will also organize visits to the Chongqing Meteorological Service, providing participants with the best practice of Chongqing digital meteorological operational technology system in monitoring and forecasting and warning operations, warning information release and dissemination, and disaster risk management, a visual experience of China's disaster emergency management and demonstrating the evolution and development of weather forecasting services in China.