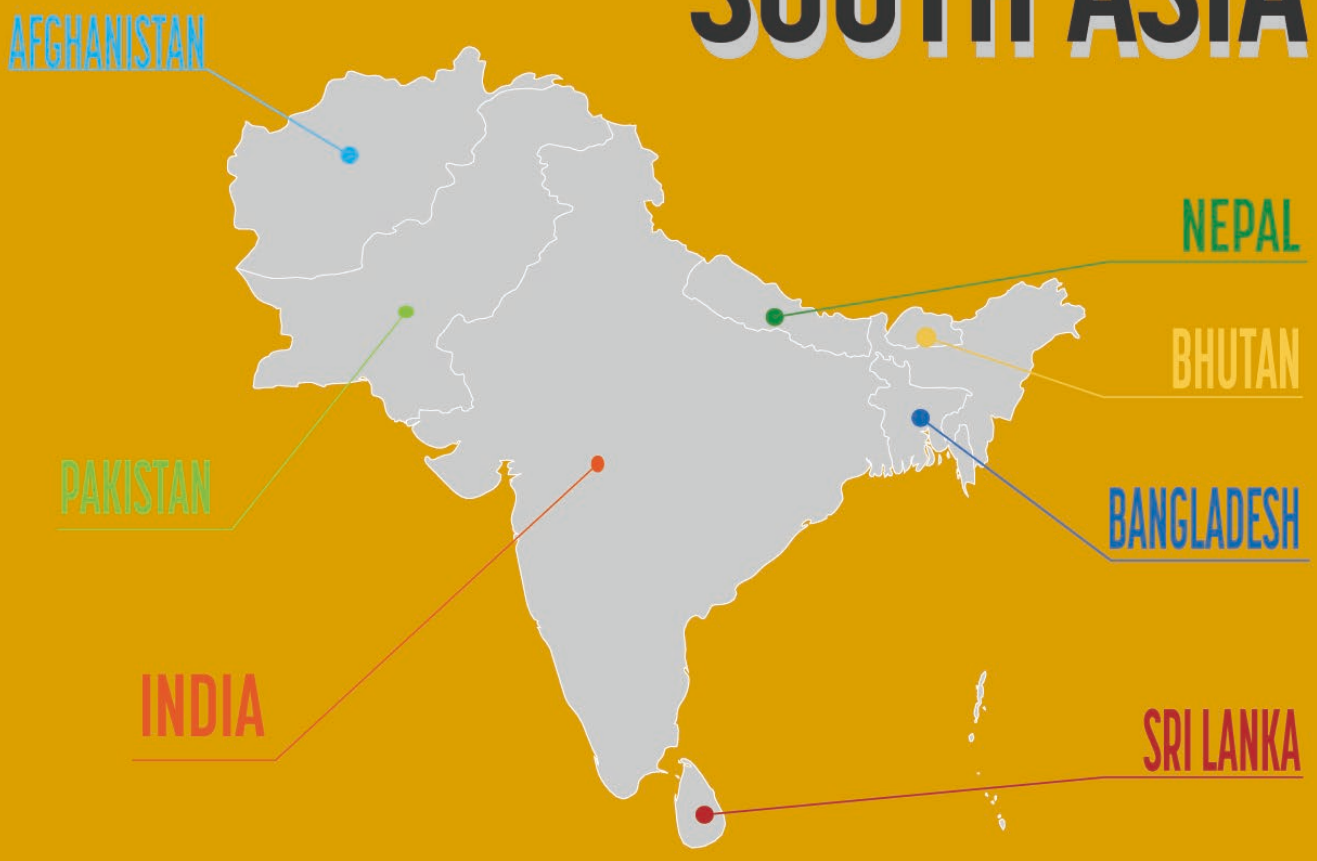
SOUTH ASIA

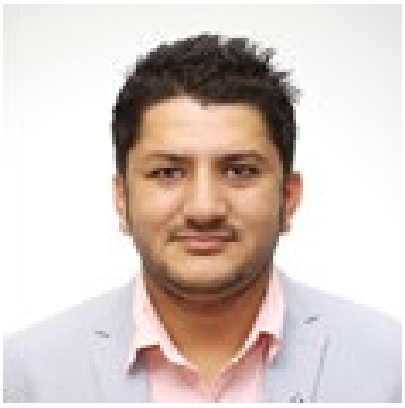


EARLY WARNING SYSTEM AND SOUTH ASIA DISASTER SCENARIO

10th IDRiM Cafe

31 October 2022 @ 12:00 (UTC)

Speaker



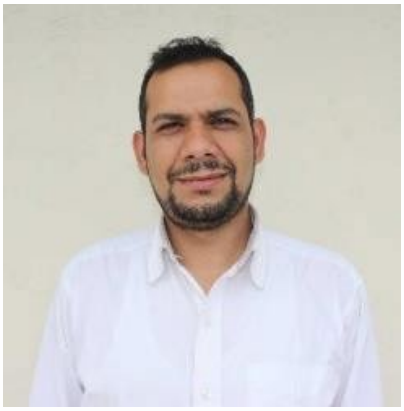
Bhesh Raj Thapa

Assistant Professor Water resource engineering, Institute of Technology, Tribhuban University, Kathmandu

Associate Professor Dr. Thapa is the Principal of the Universal Engineering and Science College (UESC) affiliated to the Pokhara University of Nepal since June 2019. He obtained his PhD in Integrated River Basin Management from University of Yamanashi, Japan, 2017, and his M.Sc. in Water Resources Engineering from the Institute of Engineering, Tribhuvan University, Kathmandu in 2010. Earlier, he taught in the Himalaya College of Engineering, affiliated to the Tribhuvan University of Nepal for more than ten years serving also as the Vice-Principal.

Apart from his teaching experience, Prof. Thapa has served as a consultant to the World Bank and to a host of Nepalese government agencies in donor (USAID, ACIAR, DFID, ADB) supported projects as a water resources specialist, in many as the PI. He served as a member in the research team formulated by the National Disaster Risk Reduction and Management Authority of Nepal (NDRRMA) for the study of the June 15, 2021, Melamchi Debris Flow Disaster. Prof. Thapa has published more than 35 research papers pertaining to water resources in international and national peer-reviewed journals, and a host of articles in national publications.

Speaker



Rajendra SHARMA

Senior Divisional Hydrologist with the National Disaster Risk Reduction and Management Authority (NDRRMA) of Nepal

Mr. Rajendra Sharma holds a Master of Disaster Management from ICHARM/GRIPS, another Master of Science in Geology from Tribhuvan University. He currently serves as a Senior Divisional Hydrologist with the National Disaster Risk Reduction and Management Authority (NDRRMA) of Nepal. Earlier he served as a Hydrologist with the Department of Department of Hydrology and Meteorology and with the Department of Water Induced Disaster Prevention.

Mr. Sharma currently leads the Project for strengthening disaster risk governance for resilience in the Kathmandu Valley (REKV)for the National Disaster Risk Reduction and Management Authority (NDRRMA). He has rich research experience in climate resilience, glacier lakes outbursts floods (GLOFs) and hydrological studies of different basins of Nepal.

Speaker

Pankaj Kumar

Researcher, Centre of Excellence in Disaster Mitigation & Management, Indian Institute of Technology Roorkee, India

Mr. Pankaj Kumar obtained his Master's and Ph.D. degrees from the Centre of Excellence in Disaster Mitigation & Management (CoEDMM), Indian Institute of Technology Roorkee, India. His research interests are in Early Warning Systems, Engineering Seismology, Instrumentation and Networking of Sensors, Ground Motion Data Analysis, Artificial Neural Networks, Machine Learning, Design & Analysis of Algorithms, and application of science and technology in disaster mitigation solutions. Presently, he is working in the Earthquake Early Warning System Laboratory at CoEDMM, IIT Roorkee, India as a disaster risk reduction professional. He carries out the development and maintenance server, database and networking of the sensors. He has done work on evacuation planning of significant mass events. He has developed a ground motion prediction model for the Uttarakhand region and published this research in a scientific journal. He has been associated with developing the first earthquake early warning system in India from its start. This EEW system is for the Uttarakhand region, a Himalayan state of India. He has classified those sites where sensors are installed in the seismogenic region of Uttarakhand. He is currently involved in the software development and upgradation of the earthquake warning dissemination approach and its integration with other existing systems (i.e., flood, fire, cloud burst, etc.).

Speaker

Srikrishnan Siva Subramanian

Assistant Professor, Centre of Excellence in Disaster Mitigation and Management (CoEDMM) , Indian Institute of Technology Roorkee (IITR) , India

Dr S. Srikrishnan holds a master's in Geosciences (M.Sc.) from Bharathidasan University, India and a Doctorate of Engineering (Dr Eng.) in Field Engineering for the Environment (Geotechnical Engineering) from Hokkaido University, Japan. His research specializes in understanding the mechanisms of shallow landslides and debris flows initiation induced by rainfall and snowmelt. For this, he employs insitu monitoring, laboratory-scale experiments and slope/catchment-scale process-based numerical modelling. In his doctorate research, he focused on modelling the frozen ground, cold region hydrology, snow accumulation, and melt processes to analyze the slope stability and triggering of debris flows. In his recent works, he focuses on understanding the hillslope hydrology of shallow landslides and debris flows to develop thresholds for early warning systems (EWS) at slope scale and catchment scale. He has worked in the development of real-time landslide EWS in Japan and is currently in the process of employing the same in the Indian Himalayas.

Zoom

https://kyoto-u-edu.zoom.us/j/83617924020?pwd=T3owa1BSSHo4UndsK08wazRsUUF0Zz09

Meeting ID: 836 1792 4020
Passcode: 365829

Time

Time Zone	Time
PDT	5:00 am
EDT	8:00 am
UTC	12:00 pm
CET	13:00 pm
IST	17:30 pm
NPT	17:45 pm
JST	21:00 pm