



**National Center for Disaster Prevention**  
**Courses for japanese students**  
**Nichiboku editions 51 and 52**

Direction	Number of interns	Languaje	Profiles	Name and contents of the Course	Objective
Direction of research	1	English	Bachelor's Degree in Earth Sciences, management of Geographic Information Systems	<b>Title:</b> <b>Slope instability analysis techniques</b>  <b>Contents:</b> <ul style="list-style-type: none"> <li>• Rain thresholds</li> <li>• Susceptibility estimation formats</li> <li>• Susceptibility and danger maps</li> </ul> 10:00 to 14:00 h	Provide the participant with the knowledge and skills necessary to identify, evaluate and analyze the factors that contribute to slope instability, as well as to apply cartographic, geotechnical and geological analysis techniques with the purpose of preventing and mitigating damage in the event of these phenomena.
Direction of research	1	English	Engineer in geophysics or bachelor's degree in Earth sciences	<b>Title:</b> <b>Seismic danger in Mexico</b>  <b>Contents:</b> <ul style="list-style-type: none"> <li>• Site effects</li> <li>• Soil liquefaction</li> <li>• Mexico City seismic network</li> </ul>	Provide the participant with a general understanding of the seismic threat, its causes and consequences, as well as techniques for





				10:00 to 14:00 h	terrain characterization, obtaining site effects, soil liquefaction and instrumentation for seismic monitoring in Mexico.
Direction of research	1	English	Civil engineering with interest in hydrology or hydraulics	<b>Title:</b> <b>Flood hazard map</b>  <b>Contents:</b> <ul style="list-style-type: none"> <li>Hydrological information in Mexico</li> <li>Hydraulic information in Mexico</li> <li>Japan-Mexico data exchange</li> </ul>	Provide the participant with the skills and knowledge necessary to design, develop and use flood hazard maps effectively. The participant will learn to identify areas at risk, assess the likelihood of flooding, and understand the factors that contribute to flooding, including meteorological conditions, hydrology, and topographic features.
Direction of Analysis and Risk Management	1	English	Chemical engineer, biochemical engineer, biologist or with interests focused on	<b>Title:</b> <b>Analytical techniques of the Environmental Samples Laboratory</b>  <b>Contents:</b> <ul style="list-style-type: none"> <li>Physicochemical</li> </ul>	Train participants in carrying out detailed and specific physicochemical analyzes to





			<p>biotechnology and work in physicochemical analysis laboratories.</p>	<p>analysis of water from springs near active volcanoes</p> <ul style="list-style-type: none"> <li>• Bioremediation techniques</li> <li>• Bioremediation of soils contaminated with hydrocarbons</li> <li>• Treatment of water contaminated with salts (metals)</li> <li>• Monitoring parameters during bioremediation</li> </ul>	<p>evaluate the quality and composition of waters from springs located in regions close to active volcanoes. In addition, they will acquire knowledge about water and soil bioremediation techniques to reduce the population's exposure to hydrocarbons and metals.</p>
				10:00 to 14:00 h	
Direction of Dissemination	1	English	<p>Academic training and interest in areas related to communication, education, social psychology, sociology and cultural promotion, development and management of the territory.</p> <p>Interested in:</p> <p>Problems faced</p>	<p><b>Title:</b> <b>Communication challenges in Comprehensive Risk Management at the local and multicultural level.</b></p> <p><b>Contents:</b></p> <ul style="list-style-type: none"> <li>• Communication in Comprehensive Risk Management.</li> <li>• Local (regional) communication models.</li> <li>• Common problems in community contexts</li> </ul>	<p>Provide the participant with a conceptual and methodological framework applied by Cenapred to address the challenges of communication in comprehensive risk management in diverse local and cultural contexts. The participant will</p>





			by communication in Comprehensive Risk Management. Investigation of the current context of specific communities or groups that allow the development of original communicative products. Proposals to implement the improvement of risk communication models at the local and regional level.	and how to address them  10:00 to 14:00 h	learn effective communication strategies that take into account cultural, linguistic and social differences, and that promote the active participation of communities in disaster prevention, preparation, response and recovery.
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