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Teaching experience of the “Application of Earth Sciences in Nuclear Test Monitoring”

Friday 12 September 2025 11:00 (1 hour)

After our participation in the 2014 CTBT Academic Forum, we decided to propose a formal course in the Earth Science undergraduate program offered in the Science Faculty at the National Autonomous University of Mexico (UNAM).

In August 2019, the elective course “Application of Earth Sciences in Nuclear Test Monitoring” was first taught for students enrolled in the bachelor’s degree of Earth Sciences program at UNAM. The main objective of the course is to provide students with an overview of the International Monitoring System of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) as well as the use of the data generated for scientific and civil applications in Earth Sciences topics. A second objective is to inform students of the Mexican institutions about the CTBTO activities and working groups, and in the future be part of the different divisions IDC, IMS or OSI.

In this contribution, we present the syllabus being taught as well as students and teachers’ reflections of the course. In addition, we present a future plan to promote the course not only between students enrolled in Earth Sciences but also on different bachelor’s degrees being taught at UNAM.

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