

The University of Puerto Rico Mayaguez started QuarkNet year 2025 with a full-day MINERvA Neutrino Masterclass orientation for teachers on March 1, 2025 where we had 19 teachers. The facilitators included the collaboration of undergraduate and graduate students from our Physics programs, as well as Dr. Armando Rua, Professor Daniel H. Gutiérrez, and Dr. Suhdir Malik from the Physics Department at the campus.

After that we had a full day MINERvA Neutrino Masterclass on March 22, 2025 where we had 15 teachers and 24 High School students. Following a series of lectures, the students worked with and analyzed real data collected by the MINERvA Neutrino Detector at the Fermi National Accelerator Laboratory in Illinois to determine the energies and characteristics of particles involved in the experiment's interactions, using the conservation laws of physics. A live video conference with Fermilab then provided the final data analysis. The facilitators included the collaboration of undergraduate and graduate students from our Physics programs, as well as Dr. Samuel Santana, Professor Daniel H. Gutiérrez, and Dr. Suhdir Malik from the Physics Department at the campus.



On Saturday, November 15, 2025, a Full day Fall QuarkNet workshop on the Photoelectric Effect and Electron Properties was held. During the workshop, 10 teachers conducted various presentations and experiments on the photoelectric effect, the charge-to-mass ratio of the electron, and length measurement through diffraction. The facilitators included the collaboration of graduate students from our Physics programs, as well as Dr. Jose R. Lopez, Professor Daniel H. Gutiérrez, Dr. Armando Rua, and Dr. Suhdir Malik from the Physics Department at the campus.

