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Revision of the Curriculum on Nuclear Safety and Security in the Light of Recent International Recommendations

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The University is the place where it is necessary to further develop the foundations of what we have come to call the general culture. The issue of non-proliferation is not studied as a special discipline at any University in Moldova. To fill this gap, the National Nuclear Security Support Centre of the Technical University of Moldova has developed and introduced a new optional curriculum (ECTS 4) that reflects the synergy of security, safety and safeguards (3S). Because 3S is inextricably linked, the updated curriculum makes the master students aware of the actuality and need for nuclear non-proliferation policy. Cybersecurity that has become a pillar for every on 3S components is also reflected in this optional curriculum. This optional discipline was introduced to the Master of Science in Microelectronics, Nanotechnologies and Biomedical Engineering because nuclear or radioactive materials are parts of microelectronics and also largely used in medical investigations and treatments. The evaluation showed that master's students have higher knowledge of non-proliferation than graduate license holders.