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Radiochemistry Courses in the Nuclear Science Program at Universiti Kebangsaan Malaysia

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Universiti Kebangsaan Malaysia (UKM)also known as the National University of Malaysia offered an undergraduate and postgraduate degree programmes in Nuclear Science since 1983. The program has undergone several modifications due to changes in national policy and priority. The program covers nuclear sub-disciplines such as nuclear physic, radiobiology, radiochemistry, radiation chemistry and radiation safety. To graduate with a Bachelor of Science in Nuclear Science students are required to pass a total of at least 120 credits comprising of 20 credits of university courses and 100 credits of compulsory courses or core courses and electives. The radiochemistry component of the programme consists of radiochemistry, chemistry in nuclear industry, radiochemical analysis laboratory, radiopharmaceutical chemistry, and mini research project in radiochemistry. The radiochemistry components of the graduate programme cover specific topics on radiochemical separation, radioactive waste management, transuranium chemistry and environmental radioactivity. Radiochemistry research projects for PhD or MSc degrees include development of radiochemical neutron activation analysis, application of neutron activation, radioisotope production and radiopharmaceutical synthesis.

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