

An Undergraduate Course in Nanotechnology

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Considering the advance of Nanoscience and Nanotechnology, there is a strong necessity to form professionals with focused knowledge in these areas. For this reason, a joint action of four different institutes at the Federal University of Rio de Janeiro (Instituto de Física, Escola Politécnica, Instituto de Macromoléculas Professora Eloisa Mano and Instituto de Biofísica Carlos Chagas Filho) was to create an undergraduate course in Nanotechnology. This course will provide students with a multidisciplinary view of the different subjects involved in Nanotechnology: Physics, Chemistry, Biology and Materials Science. After the initial two years with a broad curriculum in Physics, Chemistry, Mathematics and Biology, the student will then choose from three possibilities of specializations: Physics, Materials Science and Bionanotechnology. The curriculum has a strong component of practical sessions in both teaching and research labs. Thus, this course will form students with a multidisciplinary view in Nanoscience and Nanotechnology.