

3.00 credits

15.0 h + 15.0 h

Q2

Teacher(s)	Nysten Bernard ;
Language :	English > French-friendly
Place of the course	Louvain-la-Neuve
Main themes	The main themes of the seminars will be : - the economic impacts of the development of nanotechnologies, - nanomaterial toxicity, - the ethical aspects of nanotechnologies (protection of private life, ...) - societal impacts of nanotechnologies, - ...
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>1 The objective of these seminars are to allow students to grasp the impacts of nanotechnologies on society, particularly the ethical and the socio-economic aspects</p>
Evaluation methods	<p><i>Students are assessed on the basis of three deliverables:</i></p> <ul style="list-style-type: none"> • <i>written reports on each of the expert seminars (4 pts / 20),</i> • <i>a written report on their personal research work (8 pts / 20),</i> • <i>an oral presentation on their personal research work (8 pts / 20).</i> <p><i>Failure to submit a report or to give the oral presentation will result in failure to pass the course (overall mark limited to 8/20).</i></p>
Teaching methods	<i>Expert seminars in the course areas, problem-based learning (student's own research work on the potential impacts of a nanotechnology or nanomaterial, tutoring).</i>
Content	<p><i>The objective of these seminars is to enable students to understand some of the potential impacts of nanotechnology on our society, in particular the ethical and socio-economic aspects. The main topics covered are selected from the following list:</i></p> <ul style="list-style-type: none"> • <i>the economic impact of the development of nanotechnologies,</i> • <i>the toxicity of nanomaterials,</i> • <i>the ethical aspects (protection of privacy, potential military applications, etc.),</i> • <i>societal impacts (employment, health, etc.).</i>
Inline resources	Moodle site : https://moodle.uclouvain.be/course/view.php?id=722
Other infos	<i>Students should contact the course instructors during the first week of the second semester to determine the subject of their personal work and to be informed of the seminar programme.</i>
Faculty or entity in charge	FYKI

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Advanced Master in Nanotechnologies	NANO2MC	3		