



Subject card

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|---|--|--|---|-------------------------------------|--|------------|-----|
| Subject name and code | Ethics in Science and Engineering , PG_00056431 | | | | | | |
| Field of study | Nanotechnology | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | 2022/2023 | | |
| Education level | first-cycle studies | | Subject group | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 1 | | Language of instruction | | Polish | | |
| Semester of study | 1 | | ECTS credits | | 2.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Institute of Nanotechnology and Materials Engineering -> Faculty of Applied Physics and Mathematics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Marek Augustyniak | | | | |
| | Teachers | | dr inż. Marek Augustyniak | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 |
| | E-learning hours included: 0.0 | | | | | | |
| | Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18404&notifieditingon=1 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 30 | | 0.0 | | 0.0 | 30 |
| Subject objectives | The lectures aim at guiding the Students through the fascinating realms of work ethics, either from the point of view of an engineer, or from the experience of a lab resercher. To begin with, a general introduction to the ethical issues is proposed, referring to topics already familiar to the Participants, such as school life dilemmas. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment | | The Student understands the significance of fundamental questions, concerning the limits of freedom, priciples of "playing fair" in the workplace and private life, and the balance between money and other values. | | [SK1] Assessment of group work skills | | |
| | [K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment | | The Student acquires experience on solving realistic case-studies, at least in terms of identification of criteria allowing to prefer one solution over another. He/she learns to justify the standpoint and to understand other points of view and attitudes, during workshop discussions. | | [SU3] Assessment of ability to use knowledge gained from the subject | | |
| | [K6_W71] has general knowledge in humanistic, social, economic or legal sciences | | The Student gathers and puts in order the history of ethics, as well as the biographies and choices of outstanding scientists and engineers. | | [SW1] Assessment of factual knowledge | | |
| Subject contents | I plan to go through four areas. Team building and motivation meetings shall be organised first, during which the Students shall be encouraged to draw on their experience gathered at schoold. Then a concise history of ethics is supposed to be presented, followed by focus on dilemmas of employees and employers at technical companies. The ethics of scientific researchs are planned to close the curriculum. | | | | | | |
| Prerequisites and co-requisites | | | | | | | |

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| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Exam | 70.0% | 33.0% |
| | Activity during lectures | 70.0% | 34.0% |
| | Homeworks | 70.0% | 33.0% |
| Recommended reading | Basic literature | Alasdair macintyre, A short history of ethics Francis Fukuyama, The Last Man Ryszard Legutko, Treaty on Freedom | |
| | Supplementary literature | Luc Ferry, La plus belle histoire de la Philosophie C.S. Lewis, A mind awake Jan Hartmann, Ethics! | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| | Example issues/ example questions/ tasks being completed | Integration meeting: "student and student compass" - our experiences from school. A world of values and choices: analogies between technology and everyday life. Branches of ethics - a historical outline. A more detailed discussion of selected topics (e.g. freedom, progress, human nature). Planning of professional life: engineer vs scientist. Famous Engineers and Businessmen: real stories Ethics in the company - selected dilemmas. A multi-scale approach - individual choices, the operation of companies and institutions, global phenomena. Ethics in scientific work: information reliability, social responsibility. | |
| Work placement | Not applicable | | |

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