

COURSE TITLE	ETHICAL ASPECTS OF TECHNOSCIENTIFIC RESEARCH
COURSE TITLE (POLISH)	ETYCZNE ASPEKTY BADAŃ TECHNONAUKOWYCH
COORDINATORS	Roman Z. Morawski, PhD, DSc, Eng
TARGET GROUP	Doctoral School No 1 / Doctoral School No 2 / Doctoral School No 3 / Doctoral School No 4 / Doctoral School No 5 / Doctoral Studies
MAXIMUM NUMBER OF PARTICIPANTS	60 (18 doctoral students from 6 ENHANCE partner universities; 42 doctoral students from the Warsaw University of Technology)
LANGUAGE	English
ASSESSMENT METHODS	<ul style="list-style-type: none"> • test • class tutorials (animation of class discussion)
PROTOCOL TYPE	O (zaliczenie na ocenę)
TYPE OF CLASS	lectures and class tutorials
SUM OF HOURS	15 online classes/ course tests - stationary
ECTS POINTS	1 ECTS
EXPECTED LEARNING OUTCOMES	<p>Knowledge-related outcomes: a Ph.D. student, who passed the course, is expected to have elementary knowledge concerning:</p> <ul style="list-style-type: none"> • basic concepts of general ethics, • ethical aspects of principal research activities, • ethical issues concerning protection of intellectual property, • ethical issues concerning usage of IT tools in research practice. <p>Skills-related outcomes: a Ph.D. student, who passed the course, is expected to be able:</p> <ul style="list-style-type: none"> • to identify and analyse ethical issues related to research activities, • to discuss ethical issues related to research practice. <p>Social-competence-related outcomes: a Ph.D. student, who passed the course, is expected:</p> <ul style="list-style-type: none"> • to be more sensitive to moral values related to scientific research, • to be better prepared for resolving dilemmas that appear in research practice.
LECTURE CONTENTS	<p>Elements of meta-ethics and general ethics:</p> <ul style="list-style-type: none"> • definition of basic concepts of ethics and meta-ethics, • historical development of ethics, • relation of ethics to other philosophical disciplines, to law, religion and customs, and to social sciences. <p>Research ethics:</p> <ul style="list-style-type: none"> • ethical issues related to the choice of a research problem and research methodology, • ethical issues related to the design and execution of experiments, • ethical issues related to the acquisition and processing of experimental data, • evolution of research ethics. <p>Ethical issues concerning protection of intellectual property:</p> <ul style="list-style-type: none"> • legal protection of author's rights, • legal protection of inventor's rights, • arguments against legal protection of material rights. <p>Ethical issues concerning the usage of information technologies (ITs):</p>

	<ul style="list-style-type: none"> • classification of ethical issues related to IT usage, • basic approaches of ethical problems related to IT usage, • netiquette and its relation to the journalist ethics.
TUTORIAL CONTENTS	<p>Class tutorials are discussions animated by appointed students (called animators hereinafter) under supervision of the tutor. With each topic of the discussion several sources of inspiring information are associated. The group of animators is expected:</p> <ul style="list-style-type: none"> • to study (or at least carefully overview) the sources; • to select 2-3 problems for discussion, taking into account the following criteria: <ul style="list-style-type: none"> ◦ methodological or moral nature of the problem, ◦ possible methodological or moral dilemma(s) underlying the problem, ◦ potential to attract interest of other students and provoke the real discussion; • to prepare a short introduction to the discussion over each problem; • to animate the discussion; • to summarise the discussion. <p>All the above elements are taken into account in the evaluation of the animators' performance.).</p>
MANDATORY MATERIALS	<ul style="list-style-type: none"> • R.Z. Morawski: EEATR 2021 – Lecture notes. • R.Z. Morawski, Technoscientific Research: Methodological and Ethical Aspects, de Gruyter, Berlin-Boston 2019 (the e-book available in the Main Library of WUT), Chapters 11-20. • Podcasts and papers listed on the slide #1-7.
SCOPE OF HOMEWORK	<ul style="list-style-type: none"> • Course participants are expected to go through the teaching materials and solve some problems recommended by the lecturer. • Moreover, they are expected to get acquainted with the MP3 podcasts PDF document listed on the slide #1-7.
GRADING	<p>Partial grading:</p> <ul style="list-style-type: none"> • Test #1 up to 35 pts • Test #2 up to 45 pts • Class Tutorials up to 20 pts (for animation of class discussion) <p>Final grading:</p> <p>0 – 50 pts → 2 51 – 60 pts → 3 61 – 70 pts → 3.5 71 – 80 pts → 4 81 – 90 pts → 4.5 91 – 100 pts → 5</p>
SCHEDULE	<p>Every day from 8:15 to 10:00 a.m.</p> <p>Course tests will be stationary (27.04/ 18.05/25.05) at the Center for Innovation and Technology Transfer Management of the Warsaw University of Technology, 4 Rektorska Street.</p>

