



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Ethical and social aspects of artificial intelligence

Course

Field of study

Year/Semester

Computing

1/2

Area of study (specialization)

Profile of study

Artificial Intelligence

general academic

Level of study

Course offered in

Second-cycle studies

Polish

Form of study

Requirements

full-time

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

15

Tutorials

Projects/seminars

15

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

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Prerequisites

The student should know the basic concepts related to the norms regulating social behavior, have the ability to perceive, associate and interpret the basic phenomena occurring in social relations and be aware of the importance of ethics in professional life.

Course objective

The aim is to develop skills: resolving moral dilemmas, reflective and responsible performance of professional roles, building the desired moral attitudes of subordinates and colleagues, creating openness to differences in world views.

Course-related learning outcomes

Knowledge

knows the social determinants of the activities of IT companies [K2st_W8]



has basic knowledge of management and individual entrepreneurship [K2st_W9]

Skills

is able to use information and communication techniques used in the implementation of IT projects [K2st_U2]

can communicate using different techniques in a professional environment and in other environments, also using IT tools [K2st_U12]

Social competences

is aware of the need to develop professional achievements and comply with the rules of professional ethics [K2st_K4]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Rules for passing the lectures:

- final test + current assessment of acquired knowledge (points); passing the lectures - over 50% of possible points;

Rules for passing the tutorials:

- continuous assessment (student's work during the classes) + assessment of the project task performance in teams

Programme content

1. The impact of technology on society and human individuals (psyche, perception, behavior) in the context of the evolution of the human-machine relationship.

2. Social life as an area of normative regulations. Ethics and moral judgments. Artificial intelligence ethics as applied ethics; time pressure to make decisions and a limited number information, etc. - premises for ethical reflection on AI.

3. Relation of basic moral norms and social values to the issues of AI; dignity, freedom, equality, trust, responsibility, justice. Normative issues arising from the design, development, implementation and use of artificial intelligence.

- the impact of AI on fundamental rights: privacy, consumer protection and non-discrimination

- the danger of a lack of social control of AI; ethics and security - user protection; ensuring privacy and security of data management

- responsibility for activities related to artificial intelligence; the problem of the responsibility of algorithms; share of cognitive limitations and human error



- preventing the use of AI to cause negative effects; use of products

driven by artificial intelligence in unethical activities (manipulating people, spreading disinformation and fear, etc.)

- the problem of cultural diversity, the question of the implementation of moral opinions in software (influence of the moral opinions of the programmers themselves)

4. The issue of AI in business; credibility, trust - the impact of decisions made by machines on customer engagement, control. Ethical standards for research and commercialization of products and services based on artificial intelligence as a business ethics challenge

5. EU guidelines on AI ethics; European Commission document Ethics Guidelines for Trustworthy

Artificial Intelligence - regulations of applied ethics; procedures for ethical control of projects

- requirements for credible artificial intelligence, including: independent operation and making free choices as well as supervision over the operation of products / services; transparency (user awareness); fair treatment of all stakeholders; concern for social welfare and the natural environment, etc.

Teaching methods

Lecture; problem lecture with elements of the seminar; situational method; case study (critical analysis, discussion, interpretation, taking a position, making decisions); tribunal method; work in groups; work with text; thematic talk

Bibliography

Basic

Bober W. J., (2008), "Powinność w świecie cyfrowym. Etyka komputerowa w świetle współczesnej filozofii moralnej", Oficyna Wydawnicza ŁOŚGRAF

Różanowski, K. (2007), "Sztuczna inteligencja: rozwój, szanse i zagrożenia", w: P. Sienkiewicz (red.) ZESZYT NAUKOWY NR 2. WWSI, s. 109-135, Warszawa, 2007

Sroka R., (2019), "Modele i warunki rozwoju etyki sztucznej inteligencji w biznesie", w: Prakseologia 161/2019

Stylec- Szromek P. (2018), "Sztuczna inteligencja- prawo, odpowiedzialność, etyka", Zeszyty Naukowe Politechniki Śląskiej, seria Organizacji i Zarządzanie, z.123, Wyd. Politechniki Śląskiej w Gliwicach

Torczyńska M., (2019), "Sztuczna inteligencja i jej społeczno-kulturowe implikacje w codziennym życiu", w: Kultura i Historia nr 36/2019 (2)

Wilk A. W. (2018), "Sztuczna inteligencja wyzwaniem XXI wieku", w: Przegląd Telekomunikacyjny, Rocznik XCI, nr 5/2018



Additional

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Lange R. (2019), "Sztuczna Inteligencja w społeczeństwie i gospodarce Analiza wyników ogólnopolskiego badania opinii polskich internautów", NASK Państwowy Instytut Badawczy

Opinia Europejskiego Komitetu Ekonomiczno-Społecznego „Sztuczna inteligencja: wpływ sztucznej inteligencji na jednolity rynek (cyfrowy), produkcję, konsumpcję, zatrudnienie i społeczeństwo”, Europejski Komitet Ekonomiczno-Społeczny, (2017), <https://eur-lex.europa.eu>

Warszycki M., (2019), "Wykorzystanie sztucznej inteligencji do predykcji emocji konsumentów", Kolegium Zarządzania i Finansów, Zeszyt Naukowy 173, Oficyna Wydawnicza SGH

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	30	1,5
Student's own work (literature studies, preparation for laboratory classes, preparation for tests, project preparation) ¹	45	1,5

¹ delete or add other activities as appropriate