COURSE DESCRIPTION CARD - SYLLABUS

Course name

Philosophy

Course

Field of study

Automatic Control and Robotics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

practical

Course offered in

Polish

Requirements

elective

Number of hours

Lecture

30

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr. Radosław Kot

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Responsible for the course/lecturer:

Prerequisites

The student has basic knowledge of history and culture; can choose the appropriate sources of knowledge and obtain the necessary information from them and provide a critical analysis and evaluation of solutions for complex and unusual engineering problems; is aware of the need of deepening and expanding knowledge to solve newly born technical problems.

Course objective

Obtaining knowledge on the history of philosophy, the role of philosophy in science and its impact on modern technology.

Course-related learning outcomes

Knowledge

Has basic knowledge necessary to understand social and ethical, economic, legal and other non-technical conditions of engineering activity; understands the impact of social and civilizational changes on the lifestyle of society.

Skills

Is able to perceive the non-technical aspects in formulating and solving engineering problems, including environmental, economic and legal ones.

Social competences

Is aware of the level of his knowledge in relation to the conducted research in science and technolog; is able to think and act in a creative and entrepreneurial way, taking into account the safety and ergonomics of work and its economic aspects, is aware of the need to initiate action for the public interest and of responsibility for the effects of the team and its participants work; understands and appreciates the importance of intellectual honesty in the actions of its own and other people; is ready to demonstrate reliability, impartiality, professionalism and ethical attitude; is aware of its social role as a graduate of a technical university, is ready to popularize scientific content to the society and to identify, when met, and resolve basic problems related to the field of study.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Forming grade:

By discussions and questions checking the degree of mastery of previously presented issues.

Final grade:

Final essay on an accepted prreviously topic.

Programme content

1. The essence, genesis, object and functions of philosophy: man as a philosophizing entity in search of the meaning of its existence and goals of its action. Knowledge and motivation to act. Philosophy and worldview and ideology. The role of philosophy in the development of science and practical skills.

2. Stages of philosophy development: The main stages of the development of philosophical reflection. Structure of philosophical problems. Individual criticism and mental formations. The basic branches of philosophy: materialism and idealism. Criteria for the division of philosophy into materialism and idealism.

3. Theory of cognition: Place and role of knowledge in human action. The structure of the cognitive process: subject, object, perception, thinking, concept. Knowledge and its role in the operation of individuals and communities. Individual and collective knowledge - collectivization of knowledge.

4. Theory of truth and cognitive discourse: The Learning Theory. Experiment and theory. The truth: the truth of knowledge, the criteria of truth. Scientific method and falsification of theory.

5. Science. The genesis of modern science and its role in contemporary culture.

6. The theory of being (ontology): Analysis of the object being studied. Nature of reality. Matter and form; material unity and formal diversity. Individual beings and general entities, classes of beings.

7. Dialectics; processes and relationships: Processes; time and space; causal relationship. Determinism, indeterminism. Necessity, chance, freedom. Matter and consciousness. Pyramid of beings and development.

8. Axiology: ethics and aesthetics: Individual and society: morality, ethics, professional ethics. Good and evil; the issue of responsibility. Beauty and art

9. Elements of philosophical anthropology: Theories of social life. Basics and forms of collective life. The concept of social formation. Production method, way of thinking, culture. Mechanism of changes in social formation: social conflict, revolution, regularity of social processes.

10. Analysis of social institutions: the state and the nation. Power, politics and forms of governance. Authoritarianism, totalitarianism, democracy, anarchism. Pathologies of power and social life.

11. Currents of contemporary philosophy.

Teaching methods

Lecture, discussion with students and providing materials of educational importance available on the Web.

Bibliography

Basic

1. Zagadnienia i kierunki filozofii, K. Ajdukiewicz, Warszawa, 1983

2. R. H. Popkin, A. Stroll, Filozofia, Poznań, 1995

Additional

1. W. Dilthey, O istocie filozofii, Warszawa 1987

2. T. Kuhn, Struktura rewolucji naukowych, Warszawa 2001

Breakdown of average student's workload

	Hours	ECTS
Total workload	55	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for tests) [1]	25	1,0

[1] delete or add other activities as appropriate