POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

NEW SCIENTIFIC TRENDS AND DEVELOPMENT PROSPECTS

Course

Proposed by Discipline	Year/Semester
-	II/III
Type of studies	Course offered in
Doctoral School	English
Form of study	Requirements
full-time	elective

Number of hours

Lecture	Tutorials	Projects/seminars
2		2

Number of credit points

1

Lecturers

Responsible for the course/lecturer:	Responsible for the course/lecturer:
Doctoral School or the respective Facutlty	

Prerequisites

Knowledge: basic knowledge and understanding of existing trends in respective field of science and directions of their potential development.

Skills: communication skills, competence in critical analysis, ability to contribute to scientific discourse.

Social competences: critical evaluation of PhD student's contribution to scientific development, in particular within own discipline.

Course objective

Comprehensive analysis of new and existing trends in science, especially within disciplines in which education at the Doctoral School is provided as well as scientific activity combining different disciplines. Identifying prospects for development in science , in particular in PhD students' own disciplines, with emphasis on making use of interdisciplinary research in order to tackle contemporary world challenges.

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Course-related learning outcomes

Knowledge

A PhD student who graduated from doctoral school knows and understands:

1) global achievements, covering theoretical foundations as well as general and selected specific issues that are relevant to scientific disciplines studied at the doctoral school, to the extent that enables revision of existing paradigms, [P8S_WG/SzD_W01]

2) key developmental trends of science disciplines in which education takes place at the doctoral school. [P8S_WG/SzD_W02]

Skills

A PhD student who graduated from doctoral school can:

1) critically analyze and asses scientific research results, work of experts and other creative activities together with their contribution into knowledge development, [P8S_UW/SzD_U02]

2) take part in scientific discourse, [P8S_UK/SzD_U07]

3) independently plan and act for their self-development as well as inspire and organize development of others. [P8S_UU/SzD_U010]

Social competences

A PhD student who graduated from the doctoral school is ready to:

1) acknowledge the importance of knowledge in solving cognitive and practical problems, [P8S_KK/SzD_K03]

2) fulfilling the social obligations of researchers and creators. [P8S_KO/SzD_K04]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

PQF code	Methods for verification of learning outcomes	Assessment criteria
W01, W02	During preparation of doctoral dissertation, the outcomes are verified while PhD student extends their knowledge of global achievements and main development trends respective of the scientific disciplines in which eduaction at the Doctoral School is provided	active participation
U02, U07, U010	During preparation of doctoral dissertation, the outcomes are verified based on PhD student's ability to perform critical analysis and evaluation of results of scientific research as well as to individually plan research on the basis of acquired knowledge	taking part in discussions
K03, K04	During preparation of doctoral dissertation, the outcomes are verified proven by PhD student's ability to make use of knowledge in problem solving and to accept their responsibilities towards society	active participation

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3

Programme content

As proposed by person delivering the lectures/workshops/training or any other related activities.

Teaching methods

Lectures and training: multimedia presentations.

Bibliography

Basic

Scientific publications, books, training materials.

Additional

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Breakdown of average student's workload

	Hours	ECTS
Total workload	24	1.0
Classes requiring direct contact with the teacher	4	0.5
Student's own work (literature studies) [1]	20	0.5

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[1] delete or add other activities as appropriate