# University and its functions in science

**Unit:** Doctoral School at the University of Szczecin  
**Course unit code:**

**Faculty / Department providing the course / module:**  
Doctoral School at the University of Szczecin

**Mode of study:** Name of field of study  
Discipline of study:

**Course / module status:** Obligatory/Basic module  
**Language of instruction:** English

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>I</td>
<td>Lecture</td>
<td>15</td>
<td>E</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>15</td>
<td>E</td>
<td>2</td>
</tr>
</tbody>
</table>

**Course/module coordinator:** dr hab. prof. US Angelo Rella  
**Course instructor:** dr hab. prof. US Angelo Rella

**Course/module objectives:**  
Scientific knowledges, on one side, have indubitably brought great gains to humanity. But, on the other side, they made possible, sometimes generated, our existing worldwide crises (e.g., crisis of global warming). This means realistically that we should urgently and seriously think about a reform in university system in such a way that its purpose is not just knowledge, but wisdom.  
The course, starting from the humanistic assumptions of the birth of the university in Europe and of the conception of modern science and of the relationships between humanistic thought and technical-scientific knowledge, poses the urgency of the challenge for the new university system for the future. A system that must necessarily rethink itself starting from the assumptions that knowledge implies a new ethics of responsibility (F. Bacon, H. Jonas) and that knowledge, as shown by the humanists in the Renaissance is transdisciplinary and that a search for truth and the common good regardless from it is doomed to failure.

**Prerequisites:**  
Course participants are required to have completed a master's degree or equivalent in the discipline of Education

## Learning Outcomes

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP1</td>
<td>The student will be aware of the necessity of transdisciplinary research, and also about principles and concepts concerning relations among humanistic thought and technical-scientific knowledge, and university.</td>
<td>SD_W03</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP2</td>
<td>The student will be aware of the importance of disseminating the results of scientific research activity (popularized form, transfer to the social or economic sphere and commercialization of the results of scientific activity) to be done in a transdisciplinary way.</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>1</td>
<td>EP3</td>
<td>The student can develop and use originals and creative methodological solutions based on humanistic foundations to integrate with other areas of knowledge in an interdisciplinary way.</td>
<td>SD_U04</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP4</td>
<td>Thanks to the broadening of perspective offered by a humanistic and trans-disciplinary approach, the student can communicate widely understandable information and opinions to a wide audience.</td>
<td>SD_U07</td>
</tr>
<tr>
<td>Social competencies</td>
<td>1</td>
<td>EP5</td>
<td>The student, after having understood the importance of the connection between humanistic and scientific thought, is more aware of the social role of the researcher and is ready to fulfill social obligations and initiate the necessary actions.</td>
<td>SD_K03</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP6</td>
<td>Aware of the importance of a humanistic openness, the student is ready to act according to ethical principles applicable in creative work and in interpersonal relationships and development and dissemination of the ethos in the scientific and professional environment.</td>
<td>SD_K06</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>EP7</td>
<td>The student is ready to think and act in an interdisciplinary way independent, creative and will be able to initiate initiatives in the creation of ideas that sink their roots in the harmful humanistic experience and in the search for wide-ranging</td>
<td>SD_K07</td>
</tr>
<tr>
<td>CONTENT</td>
<td>Semester</td>
<td>No. of hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Form of the course:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 From the Birth of the University in Europe to Modern Science</td>
<td></td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Imagine the World to Create the World: Humanistic Thought and</td>
<td></td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical and Scientific Knowledge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 The Challenges of the New University System for the Future</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Modes of delivery: Face-to-face (or via Teams depending on Covid-19 Restrictions and the Government guidelines) information lecture, seminar lecture with discussion. 

<table>
<thead>
<tr>
<th>Assessment methods</th>
<th>No. of learning outcome from the syllabus</th>
</tr>
</thead>
<tbody>
<tr>
<td>exam</td>
<td>EP1, EP2, EP3, EP4,</td>
</tr>
</tbody>
</table>

Grading criteria: Principles for calculating a grade for the course.

Basic reading: 

Supplementary reading: Students will receive handout materials useful to the course during meetings.

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>1</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>5</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>9</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td></td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>10</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>50</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>2</td>
</tr>
</tbody>
</table>
Course unit title: Philosophy of mind
Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module:
Mode of study: Humanities
Discipline of study: Philosophy
Course / module status: Obligatory/ basic module
Language of instruction: English

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>I</td>
<td>Lecture</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
</tbody>
</table>

Course/module coordinator: dr hab. Karol Polcyn
Course instructor: dr hab. Karol Polcyn
Course/module objectives: To introduce students to some of the key issues in contemporary philosophy of mind
Prerequisites: Logic or philosophy course at the BA level

LEARNING OUTCOMES
Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>knows and understands at an advanced international level some of the key problems from within a discipline related to the student’s area of research.</td>
<td>SD_WO2</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>can critically analyze, synthesize and interpret the results of scientific investigations, expert activity and other creative work; can evaluate the original impact of such results.</td>
<td>SD_U03</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>is ready to think and do research in a creative and independent way, shows the initiative to create new ideas and search for innovative solutions.</td>
<td>SD_K07</td>
</tr>
</tbody>
</table>

CONTENT

<table>
<thead>
<tr>
<th>Form of the course: Discussion</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Phenomenal consciousness and phenomenal concepts</td>
<td>I</td>
<td>3</td>
</tr>
<tr>
<td>2 The knowledge argument and the nature of phenomenal knowledge</td>
<td>I</td>
<td>3</td>
</tr>
<tr>
<td>3 Modal arguments against physicalism</td>
<td>I</td>
<td>3</td>
</tr>
<tr>
<td>4 Phenomenal concepts and the nature of phenomenal states</td>
<td>I</td>
<td>3</td>
</tr>
<tr>
<td>5 The intuition of distinctness</td>
<td>I</td>
<td>3</td>
</tr>
</tbody>
</table>

Modes of delivery: Lecture and discussion on the basis of original texts.
Assessment methods: essay
Grading criteria: Principles for calculating a grade for the course: the grade for the essay is equivalent to the grade for the course

Basic reading

Supplementary reading
<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>0</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>3</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>20</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>2</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>10</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL workload in hours</td>
<td>50</td>
</tr>
<tr>
<td>ECTS credits</td>
<td>2</td>
</tr>
</tbody>
</table>
Course unit title: Protection of intellectual property

Unit: Doctoral School at the University of Szczecin  
Faculty / Department providing the course / module:  
Doctoral School at the University of Szczecin

Mode of study:  
Name of field of study  
Discipline of study:  
Language of instruction: English

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I</td>
<td>lecture</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>lecture</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
</tbody>
</table>

Course/module coordinator  
dr Przemysław Katner
Course instructor  
dr Przemysław Katner

Course/module objectives:  
Student has knowledge and skill to analyse the basic issues of the copyright and industrial property law
Prerequisites:  
Student has a basic knowledge of civil law.

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
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<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP1</td>
<td>Student knows and understands basic concepts and principles of the protection of industrial property and of copyright and the need for intellectual property management.</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP2</td>
<td>Student uses acquired knowledge in his activity.</td>
<td>SD_U05</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP3</td>
<td>Student is convinced of importance of behaving in professional manner and obeying rules of professional ethics.</td>
<td>SD_K06 SD_K08</td>
</tr>
</tbody>
</table>

CONTENT

<table>
<thead>
<tr>
<th>Form of the course: lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction to intellectual property law.</td>
</tr>
<tr>
<td>2. The scope of the act of 4 February 1994 on copyright and related rights</td>
</tr>
<tr>
<td>3. The subject of copyright</td>
</tr>
<tr>
<td>4. The content of copyright</td>
</tr>
<tr>
<td>5. The duration of author's economic rights</td>
</tr>
<tr>
<td>6. The transfer of author's economic rights</td>
</tr>
<tr>
<td>7. The protection of author's moral and economic rights</td>
</tr>
<tr>
<td>8. Criminal liability</td>
</tr>
<tr>
<td>9. The scope of the act of 30 June 2000 on law of industrial property</td>
</tr>
<tr>
<td>10. Inventions, utility models and industrial models</td>
</tr>
<tr>
<td>11. Trademarks and geographical indications</td>
</tr>
<tr>
<td>12. Pursuing claims on account of violating exclusive rights</td>
</tr>
</tbody>
</table>

Semester | No. of hours |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<td>3</td>
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<tr>
<td>I</td>
<td>1</td>
</tr>
<tr>
<td>I</td>
<td>1</td>
</tr>
</tbody>
</table>

Modes of delivery:  
Problem lecture, discussion

Assessment methods:

Grading criteria:  
The grade from the evaluation will be based on the test. The scope of test includes knowledge from lecture and legal acts and recommended literature. Multiple choice test with negative points. Final note depends on the amount of points earned from the test: 5 - 91-100% of points; 4,5 – 82-90,99% of points; 4,0 – 70-81,99 of points; 3,5 – 64-69,99% of points; 3,0 – 50-63,99 of points.

Principles for calculating a grade for the course:  
A grade from the course is an average from the 1st, 2nd and subsequent attempts to pass the course.

Basic reading:  
Act of 30 June 2000 on law of industrial property  
Act of 4 February 1994 on copyright and related rights

Supplementary reading:  

DOCTORAL STUDENT WORKLOAD:

<p>| No. of hours |</p>
<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>15</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>0</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>8</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>10</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>0</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>50</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>2</td>
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</tbody>
</table>
**Course unit title:** Modern University

**Unit:** Doctoral School at the University of Szczecin

**Faculty / Department providing the course / module:**
Doctoral School at the University of Szczecin

**Mode of study:**
Name of field of study

**Course / module status:** obligatory / basic
Language of instruction: English

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>I</td>
<td>I</td>
<td>Face-to-Face or Virtual (depending on Covid-19 Restrictions)</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>lecture</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

**Course/module coordinator**
Dr Alessandro Merendino, Coventry University (UK)

**Course instructor**
Dr Alessandro Merendino, Coventry University (UK)

**Course/module objectives**
- Understand what modern universities are
- Understand the structure of modern universities
- Understand the key principles of modern universities
- Be able to compare international modern universities

**Prerequisites**

**LEARNING OUTCOMES**

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
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<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Understand how other universities around the world work</td>
<td>SD_W01</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>Improve presentation skills (PowerPoint); improve writing skills</td>
<td>SD_U03</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(extended abstracts); improve skills related to synthesise key</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>concepts.</td>
<td></td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>Improve skills at working collegially</td>
<td>SD_K05</td>
</tr>
</tbody>
</table>

**CONTENT**

Form of the course:
The course is divided into 5 classes (2 hrs each)

1. Modern University: meaning and implications
   a) Definitions
   b) Ranking
   c) Why comparing
   d) University Performance
   e) Mobilities

2. Corporate governance in Modern Universities
   a) Corporate governance definition
   b) Corporate governance and university
   c) Strategies and university

3. Technology and Modern University
   a) How technology can help universities
   b) How technology can hinder universities
   c) How universities use and should use technologies

4. Compare Modern Universities in Italy and the UK

5. Compare Modern Universities around the world

**Modes of delivery**
Power point presentation, discussion

**Assessment methods**
essay

**Grading criteria**
Principles for calculating a grade for the course

**Basic reading**
Ashour, S. (2020). How technology has shaped university students’ perceptions


Supplementary reading


**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>2</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>-</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>5</td>
</tr>
<tr>
<td>Participation in tutorials</td>
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</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>-</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>5</td>
</tr>
<tr>
<td>TOTAL workload in hours</td>
<td>25</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>1</td>
</tr>
</tbody>
</table>
Unit: Doctoral School at the University of Szczecin
Faculty / Department providing the course / module:

Mode of study: 
Name of field of study: 
Discipline of study: 
Course / module status: 
Language of instruction: English

<table>
<thead>
<tr>
<th>Year</th>
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</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Course/module coordinator: Prof. Elisabetta Maffrolla, University of Foggia (Italy)

Course instructor: Prof. Elisabetta Maffrolla, University of Foggia (Italy)

Course/module objectives:
- To develop skills for analyzing and shaping the influence of ideas — not just the ideas themselves — in varied contexts and situations (policy advocacy, implementation advice, practice norms, etc.);
- To enhance writing and research formulation skills with academic and non-academic audiences in mind.
- To explore the value of "scientific" vs. other forms of knowledge.
- To reflect on the ethical obligations of researchers in their multiple roles as inquirers, advocates, educators, policy experts, and more, as media markets, political partisanship, and other forces demand more and more "point-of-view research"; and
- To help students examine their career choices and assumptions in light of the knowledge influence and impact themes.

Prerequisites: None

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
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<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>The PhD student knows how research knowledge and other types of knowledge come to be actionable and influential on science production and development in the world, or not.</td>
<td>SD_W01</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>The PhD students is obtaining peculiar skills related to making research knowledge more accessible, credible, and useful in the realm of public policy and economic practice.</td>
<td>SD_U01</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>The PhD student is aware of research in use (and abuse) in varied fields, highlighting rich areas for potential research contributions, along with major conflicts in public values, political interests, ethical obligations, and more. The resulting dilemmas confront scholars, policymakers, practitioners, and others as they look to research — sometimes — for useful guidance, influence, or both.</td>
<td>SD_K01</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course:
The course is divided into 5 classes (3 hrs each)

1. The politics of the policymaking process:
   a) the power of framing and agenda-setting;
   b) fads and paradigms in the design professions and society in general
2. How knowledge diffuses:
   a) knowledge and influence networks,
   b) various types of knowledge (rational, craft, other) and deliberation: the shape of decision-making and action.

Modes of delivery: Power point, discussion

Assessment methods: This is a reading and discussion-intensive course, with the heaviest reading and writing concentrated in the pre-exam phase. Students should be prepared to participate actively in each session and occasionally to lead discussion. Assignments include some take-home activity and a final paper analyzing some case of knowledge in use (student's No. of learning outcome from the syllabus: EP 1, EP 2, EP 3
That paper should be linked topically to their personal research papers. The paper should connect the problem of research design and formulation of questions with course frameworks, analyzing the "public face" — the controversies, utilization of knowledge, public opinion and/or decision-making contexts — of a topic student are writing up in the first-year paper or some other research paper.

**Grading criteria**

30% Class participation  
70% Final paper

**Basic reading**

Selection of pages from:  
Further readings will be provided during classes.

**Supplementary reading**


---

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td></td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>10</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td></td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>15</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>50</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>2</td>
</tr>
</tbody>
</table>
# Seminars

## Unit:
Doctoral School at the University of Szczecin

## Faculty / Department providing the course / module:
Doctoral School at the University of Szczecin

## Mode of study:
Obligatory

## Course / module status:

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-IV</td>
<td>1-8</td>
<td>Seminars</td>
<td>120</td>
<td>ZO</td>
<td>1 per semester</td>
</tr>
</tbody>
</table>

## Course/module coordinator
Dr hab. or dr hab. Prof. US from the University of Szczecin, or outside

## Course instructor
Dr hab. or dr hab. Prof. US from the University of Szczecin, or outside

## Course/module objectives
Preparing doctoral students for independent research and writing scientific texts, primarily a doctoral dissertation

## Prerequisites
The scope of knowledge resulting from the study program of the selected scientific discipline. Knowledge of a modern foreign language (English) sufficient to enable use foreign-language sources of scientific information

## Learning outcomes

**Having obtained a credit from a course/module, a doctoral student can:**

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Knowledge</strong></td>
<td>1</td>
<td>EP 1</td>
<td>1. knows and understands the global scientific achievements in the discipline conducts research</td>
<td>SD_W01</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>2. knows the latest methodological and methodological issues in the discipline he conducts research and in the disciplines related</td>
<td>SD_W03</td>
</tr>
<tr>
<td><strong>Skills</strong></td>
<td>3</td>
<td>EP 3</td>
<td>3. is able to solve problems creatively</td>
<td>SD_U01</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>EP 4</td>
<td>4. can independently search for research problems demanding a solution</td>
<td>SD_U02</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>EP 5</td>
<td>5. can think analytically and synthetically</td>
<td>SD_U03</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>EP 6</td>
<td>6. can think creatively and innovatively</td>
<td>SD_U05</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>EP 7</td>
<td>7. has the ability to quickly adapt, acquire new knowledge, abstract thinking</td>
<td>SD_U10</td>
</tr>
<tr>
<td><strong>Social competencies</strong></td>
<td>8</td>
<td>EP 8</td>
<td>8. is critical in assessing the contribution of one's own research activity in the development of oceanological sciences</td>
<td>SD_K01</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>EP 9</td>
<td>9. demonstrates a pluralistic attitude towards those undertaken by learning problems</td>
<td>SD_K02</td>
</tr>
</tbody>
</table>

## Content

<table>
<thead>
<tr>
<th>Form of the course:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Preparation of a doctoral dissertation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

## Modes of delivery
Discussion with the supervisor at seminars, discussions with other researchers, independent collection of specialist knowledge, self-supplementation of knowledge, active participation in conferences, conducting scientific research, project preparation research, publication and dissertation, preparation of an Individual Plan Research (IPB), Mid-Term Assessment

## Assessment methods
Evaluation of the promoter on the basis of the presented research and discussions during the seminar, assessment of progress in scientific research, opinion on participation in the project, verification by observation, review of publications and doctoral dissertation

<table>
<thead>
<tr>
<th>No. of learning outcome from the syllabus</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP 1 – EP 9</td>
</tr>
</tbody>
</table>

## Grading criteria
Principles for calculating a grade for the course Participation in seminars, preparation of IPB, Reports for the Mid-term Evaluation,
preparation of scientific publications, PRELUDIUM application, writing a doctoral dissertation.
Grading in 1-8 semester.

<table>
<thead>
<tr>
<th>Basic reading</th>
<th>Indicated by a chosen Supervisor; consistent with the specific of the research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplementary reading</td>
<td>Indicated by a chosen Supervisor; consistent with the specific of the research</td>
</tr>
</tbody>
</table>

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>120</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>10</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>30</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>10</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>30</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>-</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>200</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>
Course unit title: Methodology of research

Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module: Doctoral School at the University of Szczecin

Mode of study: Name of field of study

Course / module status: Obligatory/research

Language of instruction: English

Year | Semester | Form of instruction | No. of hours | Type of credit | ECTS
---|---|---|---|---|---
I | I | Lecturer | 15 | E | 2
TOTAL

Course/module coordinator: Prof dr hab. Marek Dutkowski

Course instructor: Prof dr hab. Marek Dutkowski

Course/module objectives

Prerequisites

Initial knowledge at the master's level about research methods and techniques used in your own scientific discipline

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Student knows and understands the basic terms used in the methodology of sciences</td>
<td>SD_W01</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>Student knows and understands basic problems and research approaches in related scientific disciplines</td>
<td>SD_W02</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>EP 3</td>
<td>Student knows and understands the principles of research approaches, methods and research techniques used in their own discipline</td>
<td>SD_W03</td>
</tr>
<tr>
<td>Skills</td>
<td>4</td>
<td>EP 4</td>
<td>Student is able to identify research problems in their own discipline and adapt approaches, methods and research techniques to them</td>
<td>SD_U01</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>EP 5</td>
<td>Student can answer a methodological question related to his own discipline</td>
<td>SD_U01</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>EP 6</td>
<td>Student is able to propose an original and innovative approach, method or research technique in his own discipline</td>
<td>SD_U04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>7</td>
<td>EP 7</td>
<td>is able to critically assess the approaches, methods and research techniques planned in his own PhD project, pointing to the advantages and weaknesses</td>
<td>SD_K01</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>EP 8</td>
<td>Student is able to critically assess approaches, methods and research techniques in their own discipline, pointing out both advantages and weaknesses</td>
<td>SD_K01</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>EP 9</td>
<td>Student can indicate the universal importance of his own discipline and new research perspectives</td>
<td>SD_K04</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course: Seminar lecture

1 Knowledge – types, sources and use
2 Outline of the philosophy of science
3 Research procedures - types, stages, results
4 Explanation in science
5 Methodological specificity of exact, natural, social, humanistic and other sciences

Semester | No. of hours
---|---
1 | 15
1 | 3
1 | 3
1 | 3
1 | 3

Modes of delivery: Preparation of a written answer in the form of an essay to the methodological questions asked by the teacher of the course, related to his own research project

Assessment methods

1 Assessment of activity during the lecture
2 Evaluation of a written work in the form of an essay

Grading criteria: Principles for calculating a grade for the course
Active participation in the seminar lecture 0-2 points. Preparing an essay 0-3 points. Points scored are added up.
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplementary reading</td>
<td>It will be given by the lecturer in the form of internet links</td>
</tr>
</tbody>
</table>

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td></td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td></td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>10</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td></td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>25</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>50</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>2</td>
</tr>
</tbody>
</table>
Course unit title: Paper writing

Unit: Doctoral School, Szczecin University

Faculty / Department providing the course / module: 
Doctoral School, Szczecin University

Mode of study: Full time  Name of field of study  Discipline of study

Course / module status: Obligatory/ research module  Language of instruction: English

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>II</td>
<td>conversation</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>conversation</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
</tbody>
</table>

Course/module coordinator  prof. dr hab. inż. Wojciech Piasecki

Course instructor  Wojciech Piasecki, BFSc, MFSc, PhD, DSc, Prof.tit.

Course/module objectives  To present the basics of preparing research papers for publication

Prerequisites  General knowledge of university education at master's level

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Knows how publish results of research in scientific journals</td>
<td>SD_W01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SD_W03</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>Can publish results of research in scientific journals</td>
<td>SD_U01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SD_U03</td>
</tr>
<tr>
<td>Social competence</td>
<td>3</td>
<td>EP 3</td>
<td>Ability to interact with journal editors</td>
<td>SD_K04</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course:

1) Locating your project within an existing field of scientific research and indicating the gap or research niche
2) Discussing details of a written assignment (manuscript prepared for a journal)
3) Drafting the introduction and materials and methods sections
4) Drafting the Results and Discussion
5) Matching the article contents with the title; Drafting the abstract
6) Discipline-specific concerns (examples and discussion)
7) Discussion on written assignments
8) Avoiding plagiarism

<table>
<thead>
<tr>
<th>Modes of delivery</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power-Point presentation, film, discussion</td>
<td>II</td>
<td>2</td>
</tr>
</tbody>
</table>

Assessment methods

Evaluation of manuscript prepared for a journal (written assignment)  EP 1, EP 2, EP 3

Final test (single choice)  EP 1, EP 2, EP 3

Grading criteria

Positive results of the written assignment and the test
Principles for calculating a grade for the course
50% written assignment, 50% final test

Basic reading


Supplementary reading

DOCTORAL STUDENT WORKLOAD:

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>1</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>4</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>5</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>5</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>15</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>5</td>
</tr>
<tr>
<td>TOTAL workload in hours</td>
<td>50</td>
</tr>
<tr>
<td>ECTS credits</td>
<td>2</td>
</tr>
</tbody>
</table>
**Course unit title:** Research design

**Unit:** Doctoral School at the University of Szczecin

**Faculty/Department providing the course/module:** Doctoral School at the University of Szczecin

**Mode of study:** Obligatory/research

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I</td>
<td>Lecturer</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>Lecturer</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
</tbody>
</table>

**Course/module coordinator**: Dr hab. Paulina Niedźwiedzka-Rystew, prof. US

**Course instructor**: Dr hab. Paulina Niedźwiedzka-Rystew, prof. US

**Course/module objectives**: The aim of the course is to familiarize the PhD students with the objectives and principles of an effective research design. Special input will be put on the good and bad practises in a research design.

**Prerequisites**: None

### LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Knowledge</strong></td>
<td>1</td>
<td>EP 1</td>
<td>A graduate knows state-of-the-art theories, research methods, principles and concepts in the discipline in which he/she carries out research and to use them to design a research question</td>
<td>SD_W03</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>A graduate knows the basic tools to strengthen knowledge in her/his field</td>
<td>SD_W08</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>EP 3</td>
<td>A graduate is able to independently plan and conduct innovative scientific research</td>
<td>SD_U02</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>EP 4</td>
<td>A graduate is able to critically analyse, synthesise and interpret scientific results</td>
<td>SD_U03</td>
</tr>
<tr>
<td><strong>Skills</strong></td>
<td>5</td>
<td>EP 5</td>
<td>A graduate is able to choose and properly use the techniques and methods in research design</td>
<td>SD_U06</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>EP 6</td>
<td>A graduate is able to compose a grant in order to apply for financial sources</td>
<td>SD_U12</td>
</tr>
<tr>
<td><strong>Social competencies</strong></td>
<td>7</td>
<td>EP 7</td>
<td>A graduate is critically judging the result and is able to accept criticism form a second party</td>
<td>SD_K01</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>EP 8</td>
<td>A graduate is aware of the obligation to search creatively for answers to contemporary challenges and to shape patterns of attitude towards new phenomena and problems</td>
<td>SD_K04</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>EP 9</td>
<td>A graduate is willing to share and disseminate the results of scientific activities, taking into account the principles of protection of intellectual property</td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

**CONTENT**

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Research design as a framework for a study.</td>
<td>I</td>
<td>2</td>
</tr>
<tr>
<td>2. Phases in research design</td>
<td>I</td>
<td>5</td>
</tr>
<tr>
<td>3. Quantitative, qualitative and multimethod design.</td>
<td>I</td>
<td>2</td>
</tr>
<tr>
<td>4. Experimental research designs</td>
<td>I</td>
<td>2</td>
</tr>
<tr>
<td>5. Non-experimental research designs</td>
<td>I</td>
<td>2</td>
</tr>
<tr>
<td>6. Good and bad practises in research design.</td>
<td>I</td>
<td>2</td>
</tr>
</tbody>
</table>

**Modes of delivery**

**Assessment methods**: Discussion, workshop, project

**Grading criteria**: Principles for calculating a grade for the course. The final grade will be the combination of the presence (50%) and a project (50%).

**Basic reading**


Supplementary reading


<table>
<thead>
<tr>
<th>DOCTORAL STUDENT WORKLOAD:</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>2</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>8</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>10</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>-</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>5</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>10</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>50</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>
Course unit title: Multivariate methods in scientific research

Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module: Doctoral School at the University of Szczecin

Mode of study: Name of field of study

Discipline of study: Language of instruction: English

Course / module status: Obligatory/research

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td></td>
<td>exercises</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Course/module coordinator

Course instructor: Dr hab Małgorzata Tarczyńska-Luniewska

Course/module objectives: Demonstrating the possibility of using multivariate methods in research conducted for doctoral dissertations. Acquiring the ability to use methods of multivariate analysis in the study of complex phenomena.

Prerequisites: The student knows and can apply the methods from the subject of Mathematics in the matura exam scope (basic level). The student has the ability to read, understand and conduct logical arguments.

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Student knows and understands at an advanced world level key issues related to disciplines related to the one in which he conducts research</td>
<td>SD_W02</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>Student knows the latest theories, research methodology, principles and concepts in the field in which he conducts research or in contact with related disciplines to a degree enabling the creation of new theories, concepts and research methodology</td>
<td>SD_W03</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>EP 3</td>
<td>Student knows and understands the most complex relationships in the field in which he conducts research, as well as in related disciplines, including interactions between disciplines</td>
<td>SD_W04</td>
</tr>
<tr>
<td>Skills</td>
<td>4</td>
<td>EP 4</td>
<td>Student can critically analyze, synthesize and interpret the result of scientific research, expert activity and other creative works and evaluate their contribution to the development of knowledge</td>
<td>SD_U03</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>EP 5</td>
<td>Student has the ability to develop and apply original and creative methodological solutions, techniques and research tools</td>
<td>SD_U04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>6</td>
<td>EP 6</td>
<td>Student is ready to think and act scientifically in an independent, creative and entrepreneurial way, shows initiative in creating ideas and searching for innovative solutions</td>
<td>SD_K07</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>EP 7</td>
<td>Student is ready to share the results of scientific activities with others and to disseminate them, taking into account the principles of intellectual property protection</td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course:

1. Is one dimension not enough? A multidimensional phenomenon - what is it? How to measure phenomena which are not directly measurable? The basic principles of the method. I 3

2. Step by step - find, customize, choose—the types of methods and their usefulness in a different field scope. II 3

3. Application of methods and case studies II 9

Modes of delivery: lectures with the use of multimedia tools; as part of case study work with the use of computers and available statistical software

Assessment methods: No. of learning outcome from the
<table>
<thead>
<tr>
<th>Syllabus</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>test</td>
<td>EP 1- EP 7</td>
</tr>
<tr>
<td>project</td>
<td>EP 1- EP 7</td>
</tr>
<tr>
<td>group work on lectures</td>
<td>EP 1- EP 7</td>
</tr>
</tbody>
</table>

**Grading criteria**

Principles for calculating a grade for the course. The final grade is determined as the arithmetic mean of partial grades (test grade and project grade).

**Basic reading**


**Supplementary reading**


**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>1</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>4</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>10</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>4</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>7</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>9</td>
</tr>
<tr>
<td>TOTAL workload in hours</td>
<td>50</td>
</tr>
<tr>
<td>ECTS credits</td>
<td>2</td>
</tr>
</tbody>
</table>
### Course unit title:
Quantitative methods in scientific research

### Unit:
Doctoral School at the University of Szczecin

### Faculty / Department providing the course / module:
Doctoral School at the University of Szczecin

### Mode of study: Name of field of study

### Discipline of study:

### Language of instruction: English

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>II</td>
<td>Exercises</td>
<td>15</td>
<td>ZO</td>
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</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Course/module coordinator

### Course instructor
dr hab. prof. US Christian Lis

### Course/module objectives
Demonstrating the possibility of using quantitative methods (statistical and econometric methods) in research conducted for the purposes of doctoral dissertations.

### Prerequisites
Student knows and can apply methods from the subject of mathematics in the (secondary) school-leaving exam scope (basic level). Student understands and conducts logical argument and reasoning.

### LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Student knows the latest theories, research methodology, principles and terms from discipline, which he/she conducts scientific research in, or knows related disciplines to the extent that it is possible to create new theories, terms and research methodologies.</td>
<td>SD_W03</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>Student knows and understands the most complex relationships in the field, which he/she conducts research, as well as in related disciplines, including interactions between disciplines</td>
<td>SD_W04</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>EP 3</td>
<td>Student knows rules of scientific findings dissemination, also in a popularized form, and he/she knows the basic principles of knowledge transferring to the social and economical area and how to commercialize results of scientific research.</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>4</td>
<td>EP 4</td>
<td>Student can critically analyze, synthesize and interpret the results of scientific research, expert activity and other creative works and evaluate their contribution to the development of knowledge</td>
<td>SD_U03</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>EP 5</td>
<td>Student has the ability to develop and apply original and creative methodological solutions, techniques and research tools</td>
<td>SD_U04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>6</td>
<td>EP 6</td>
<td>Student is ready to think and act scientifically in an independent, creative and entrepreneurial way, shows initiative in ideas creating and searching for innovative solutions</td>
<td>SD_K07</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>EP 7</td>
<td>Student is ready to share the results of scientific activities with others and to disseminate them, taking into account the principles of intellectual property protection</td>
<td>SD_K08</td>
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</table>

### CONTENT

<table>
<thead>
<tr>
<th>Form of the course: Lectures (1-4) and practice (5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The role of quantitative methods in scientific cognition process</td>
</tr>
<tr>
<td>2. Statistical thinking in research process in a descriptive way</td>
</tr>
<tr>
<td>3. Cause or effect, that is the question. How to measure relationships between phenomena that in modern world can be observed?</td>
</tr>
<tr>
<td>4. How to get to know something about populations that are unavailable without examining them? Sampling, statistical inference, estimation, hypotheses verification</td>
</tr>
<tr>
<td>5. Applications and case studies</td>
</tr>
</tbody>
</table>

### Modes of delivery
Lectures with the use of multimedia tools; as part of case study work with the use of computers and available statistical software and project, group work on classes

### Assessment methods
No. of learning outcome from the syllabus
<table>
<thead>
<tr>
<th>Grading criteria</th>
<th>EP 1 – EP 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles for calculating a grade for the course</td>
<td></td>
</tr>
<tr>
<td>The final grade is determined as the arithmetic mean of partial grades (test grade and project grade)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basic reading</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Supplementary reading</th>
<th></th>
</tr>
</thead>
</table>

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>1</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>4</td>
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<tr>
<td>Private reading and studying</td>
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<tr>
<td>Participation in tutorials</td>
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<td>7</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>9</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>50</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>
Course unit title: Commercialisation of scientific results

Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module: Doctoral School at the University of Szczecin

Mode of study: Name of field of study: Disciplines of study: Language of instruction:

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>III/IV</td>
<td>conversation</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>III/IV</td>
<td>conversation</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator: dr Katarzyna Łobacz

Course instructor: dr Katarzyna Łobacz

Course/module objectives: The principle course objective is to get an understanding of how scientific results can be commercialised and acquainted with the forms of commercialisation of scientific research results and their formal, legal and market conditions.

Prerequisites: Basic knowledge of scientific research, the basics of finance and marketing, the basics of intellectual property law

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>The student knows conditions of successful research results commercialization</td>
<td>SD_W06</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>The student understands the sources of commercial value of scientific research</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>3</td>
<td>EP 3</td>
<td>The student is able to assess the commercial value of research results</td>
<td>SD_U11</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>EP 4</td>
<td>The student is able to present research results, and participate in a discussion</td>
<td>SD_U08</td>
</tr>
<tr>
<td>Social competencies</td>
<td>5</td>
<td>EP 5</td>
<td>The student is ready to critically assess his/her research in terms of their impact in solving socio-economic problems</td>
<td>SD_K01</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>EP 6</td>
<td>The student is ready to share his/her research results with others, taking into account their commercial value</td>
<td>SD_K07</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course: conversation

1 The role and importance of scientific research in socio-economic development
2 Conditions of successful research results commercialization
3 Commercial value of scientific research

Semester No. of hours

| Modes of delivery | The mode of delivery is literature based discussion and project focused work in groups |

Assessment methods

<table>
<thead>
<tr>
<th>Project</th>
<th>No. of learning outcome from the syllabus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verification through observation</td>
<td>EP 1 – EP 6</td>
</tr>
</tbody>
</table>

Grading criteria

The condition for completing the course is active participation in classes (discussion), and delivery of a group project

Principles for calculating a grade for the course

The final grade is calculated as follows:
- delivery of a group project (60%)
- participation in in-class discussions (40%)

Basic reading


Supplementary reading

Trzmielak D.M., Ropega. J. (ed) (2013), Innovations and knowledge commercialization: cooperative resources, integrated science and business, Center for Technology Transfer UK.
<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
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<td>Participation in test/ exam</td>
<td></td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>3</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>5</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>2</td>
</tr>
<tr>
<td>Preparation of project/ essay/etc.</td>
<td>5</td>
</tr>
<tr>
<td>Preparation for test/exam</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>1</td>
</tr>
</tbody>
</table>
Principles of open science

The overall learning objective of the course is to become familiar with the main concepts and benefits of the open science principles, along with practices for open data management and open access publishing.

Additional learning objectives of the course are:
- Set up an open data sharing strategy to increase the research visibility
- Determine appropriate route to take when publishing an open access article
- Identify the benefits of Virtual Research Environments for sharing and using research data.

Prerequisites
General knowledge of the discipline being studied.

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

1. In this course, student will learn the objectives, main concepts, and benefits of Open Source principles along with practices for open data management and open data sharing.

2. Student will learn how to become a more visible, effective and impactful researcher by sharing research data and publications openly.

3. Student will learn how to engage with citizens, how to communicate with stakeholders other than the academic scholarly community to facilitate a better user involvement and dissemination of research results.

CONTENT

<table>
<thead>
<tr>
<th>Form of the course:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction to Open Science</td>
</tr>
<tr>
<td>2. Research Data Management</td>
</tr>
<tr>
<td>3. Publishing Open Access</td>
</tr>
<tr>
<td>4. Increasing your Research Visibility</td>
</tr>
</tbody>
</table>

Modes of delivery
Presentations, case studies and interviews.

Assessment methods
No. of learning outcome from the syllabus
Graded quizzes and a graded assignment
EP 1 – EP 3

Grading criteria
Principles for calculating a grade for the course
60% - points from final graded assignment, 40% from 4 short quizzes made during lectures.

Basic reading
- Wilkinson, M. D., Dumontier, M., Aalbersberg, I. J., Appleton, G., Axton,

Supplementary reading

<table>
<thead>
<tr>
<th>DOCTORAL STUDENT WORKLOAD:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>Preparation for contact hours</td>
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<tr>
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</tr>
<tr>
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<td>25</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>1</td>
</tr>
</tbody>
</table>
Course unit title: Popularization of science

Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module:
Institute of Biology, University of Szczecin

Mode of study: Name of field of study
Discipline of study:

Course / module status: Language of instruction:
Optional/research

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
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</thead>
<tbody>
<tr>
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<td>10</td>
<td>ZO</td>
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</tr>
<tr>
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<td>III/IV</td>
<td>conversation</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator: Dr hab. Paulina Niedźwiedzka-Rystew, prof. US

Course instructor: Dr hab. Paulina Niedźwiedzka-Rystew, prof. US

Course/module objectives: The aim of the course is to familiarize students of doctoral studies with popularizing science as a key element in the scientific development of every scientist. Outlining the measurable effects of popularization for the researcher and recipients. Presentation of popularization of science as a mission important for society.

Prerequisites: none

**LEARNING OUTCOMES**

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>1. The PhD student knows forms of dissemination of science and knows the principles of transfer and commercialization of knowledge in other areas of human activity</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Knowledge</td>
<td>2</td>
<td>EP 2</td>
<td>2. The PhD student knows and understands the need to acquire and conduct scientific projects</td>
<td>SD_W07</td>
</tr>
<tr>
<td>Knowledge</td>
<td>3</td>
<td>EP 3</td>
<td>3. The PhD student is able to provide the public with information and opinions on key issues related to their scientific discipline in a proper and commonly understandable way</td>
<td>SD_U07</td>
</tr>
<tr>
<td>Skills</td>
<td>4</td>
<td>EP 4</td>
<td>4. The PhD student is able to present the results of research and scientific concepts</td>
<td>SD_U08</td>
</tr>
<tr>
<td>Skills</td>
<td>5</td>
<td>EP 5</td>
<td>5. The PhD student establishes and undertakes cooperation in order to implement scientific projects (also interdisciplinary and international)</td>
<td>SD_U10</td>
</tr>
<tr>
<td>Social competencies</td>
<td>6</td>
<td>EP 6</td>
<td>6. The PhD student plans his scientific development and is aware of the social role in inspiring the development of other people</td>
<td>SD_U11</td>
</tr>
<tr>
<td>Social competencies</td>
<td>7</td>
<td>EP 7</td>
<td>7. The PhD student is aware of the obligation to creatively seek answers to the challenges of the present and to shape attitudes towards new phenomena and problems</td>
<td>SD_K04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>8</td>
<td>EP 8</td>
<td>8. The PhD student is involved in popularization of science</td>
<td>SD_K05</td>
</tr>
<tr>
<td>Social competencies</td>
<td>9</td>
<td>EP 9</td>
<td>9. The PhD student is ready to share the results of his research and popularize them (respecting the intellectual property rights)</td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

**CONTENT**

<table>
<thead>
<tr>
<th>Form of the course: seminar</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Popularization of science – advantages and difficulties.</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>2. Important aspects of popularization - commercialization and internationalization, adaptation to the group of recipients, interdisciplinary and international projects. Open Access, Research Gate and other tools used in popularization</td>
<td>III/IV</td>
<td>5</td>
</tr>
<tr>
<td>3. Promoting science as a test of creativity and quality of a scientist. Popularization of science as a social mission.</td>
<td>III/IV</td>
<td>3</td>
</tr>
</tbody>
</table>

**Modes of delivery**
- multimedia lectures
- discussion
### Assessment methods

- **team work**
- **- project**
- **- teaching practice**
- **- participation in promotional projects implemented by the University of Szczecin**
- **- participation in research grants**

### Grading criteria

Principles for calculating a grade for the course

Credit with a grade based on a project on how to popularize your own research

### Basic reading


### Supplementary reading


### DOCTORAL STUDENT WORKLOAD:

<table>
<thead>
<tr>
<th></th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>3</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>2</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>3</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td></td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>5</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>1</td>
</tr>
</tbody>
</table>
Course unit title: Publishing strategy

Unit: Doctoral School at the University of Szczecin
Faculty / Department providing the course / module: Institute of Biology
Doctoral School at the University of Szczecin

Mode of study: Name of field of study
Course / module status: Optional/research

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>III/IV</td>
<td>conversation</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>III/IV</td>
<td>conversation</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator: Łukasz Jankowiak

Course instructor: Łukasz Jankowiak

Course/module objectives: The main aim of the course is to show the students the techniques which help them effectively publishing their results

Prerequisites: No particular requirements for participation in the course. However some experience of publishing would be helpfully

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>PhD student has knowledge about the dissemination of science to the broad scientific community</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>PhD student has the skill in the presentation of research results</td>
<td>SD_U05</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>PhD student can communicate with the scientific community</td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course:
1. The environment for publishing
2. Data collecting – when to stop?
3. The appropriate journal choosing
4. Smoothed review process – why a smoothed paper is important?
5. The respond to reviewers – why being polite is important?
6. The rejection - the bread and butter of each of the scientist
7. The regulatory documents for the research Impact evaluation? – should we play in the game?

Modes of delivery:
- multimedia lectures
- discussion about student's actual and former manuscripts
- team work (analysis of scientific papers)

Assessment methods:
credit on the subject of the course
No. of learning outcome from the syllabus 1-3
test

Grading criteria:
Principles for calculating a grade for the course
Passing the oral test, discussion during the course

Basic reading

Supplementary reading
1. The regulatory documents for the research impact evaluation

DOCTORAL STUDENT WORKLOAD:

<table>
<thead>
<tr>
<th></th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>3</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>5</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>5</td>
</tr>
<tr>
<td>Activity</td>
<td>Hours</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>1</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>-</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
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</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>25</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>
Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module:

Mode of study: Optional/research

Course / module status: Optional/research

Year | Semester | Form of instruction | No. of hours | Type of credit | ECTS
--- | --- | --- | --- | --- | ---
II | III/IV | conversation | 10 | ZO | 1
TOTAL | III/IV | conversation | 10 | ZO | 1

Course/module coordinator: dr hab. Adam Pawlick

Course instructor: 

Course/module objectives: By the end of the course students will be able to increase and widen their understanding of the nexus between internationalization and science progress, label benefits and limits of international cooperation, demonstrate relationship between internationalization and academic entrepreneurship and assess the effectiveness of public policies in the area of international science.

Prerequisites: 

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Student knows the advantages and costs of international cooperation in science</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Knowledge</td>
<td>2</td>
<td>EP 2</td>
<td>Student knows how to plan academic career in international context</td>
<td>SD_W08</td>
</tr>
<tr>
<td>Skills</td>
<td>3</td>
<td>EP 3</td>
<td>Student is able to identify and evaluate various possibilities of international cooperation</td>
<td>SD_U10</td>
</tr>
<tr>
<td>Social competencies</td>
<td>4</td>
<td>EP 4</td>
<td>Student independently carries out an assessment of net benefits of internationalization of research projects.</td>
<td>SD_K07</td>
</tr>
</tbody>
</table>

CONTENT

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Definitions of internationalization in science</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>2 Benefits and inhibitors of internationalization</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>3. Internationalization and academic entrepreneurship</td>
<td>III/IV</td>
<td>3</td>
</tr>
<tr>
<td>4. Public policies fostering internationalization</td>
<td>III/IV</td>
<td>3</td>
</tr>
</tbody>
</table>

Modes of delivery: Lectures, workshops, problem based learning

Assessment methods: Essay, observation

Grading criteria: Principles for calculating a grade for the course


DOCTORAL STUDENT WORKLOAD:

Contact hours: 10
<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation in test / exam</td>
<td>5</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>2</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>2</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>2</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
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</tr>
<tr>
<td>Preparation for test / exam</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>25</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>
Course unit title: Stylistics of a scientific statement

Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module: Doctoral School at the University of Szczecin

Mode of study: Name of field of study
Optional/research
Course / module status: Language of instruction: English
Year | Semester | Form of instruction | No. of hours | Type of credit | ECTS
--- | --- | --- | --- | --- | ---
II | III/IV | conversation | 10 | ZO | 1
TOTAL | III/IV | conversation | 10 | ZO | 1

Course/module coordinator: dr hab. Vincenzo Salzano, prof US
Course instructor: dr. hab. Vincenzo Salzano, prof US
Course/module objectives: The aim of the course is to introduce the students to how to write in a proper style their research results in order to present and disseminate them in different media

Prerequisites

**LEARNING OUTCOMES**

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP1</td>
<td>zna zasady upowszechniania wyników działalności naukowej, także w formie spopularyzowanej oraz zna podstawowe zasady transferu wiedzy do sfery społecznej lub gospodarczej i komercjalizacji wyników działalności naukowej</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>1</td>
<td>EP2</td>
<td>potrafi napisać publikację naukową, która zostanie przyjęta do recenzji w czasopiśmie z list MNiSW lub w materiałach z konferencji międzynarodowej lub w formie książki oraz potrafi transferować wyniki swojej działalności naukowej do sfery społeczno-gospodarczej</td>
<td>SD_U05</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP3</td>
<td>potrafi przekazywać społeczeństwu we właściwy i powszechnie zrozumiały sposób informacje i opinie dotyczące kluczowych zagadnień związanych ze swoją dyscypliną naukową</td>
<td>SD_U07</td>
</tr>
<tr>
<td>Social competencies</td>
<td>1</td>
<td>EP4</td>
<td>wykazuje krytyczny osąd dotyczący wkładu wyników własnej działalności badawczej w rozwój dyscypliny, w której prowadzi tę działalność oraz uznaże znaczenie wiedzy w rozwiązywaniu problemów poznawczych i praktycznych</td>
<td>SD_K01</td>
</tr>
<tr>
<td>Social competencies</td>
<td>2</td>
<td>EP5</td>
<td>jest gotów do dzienienia się wynikami działalności naukowej z innymi oraz do upowszechniania ich, z uwzględnieniem zasad ochrony własności intelektualnej</td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

**CONTENT**

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. General structure of a scientific document</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2. General stylistic rules of a scientific document</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>3. Example of real proof corrections from a professional editorial stage of a scientific journal</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>4. Comparing different requirements from different fields of research</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>5. Different styles for different media</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

Modes of delivery: Lectures provided by multimedia computer presentations and/or using downloaded articles

Assessment methods: No. of learning outcome from the syllabus
Project, observation
EP1, EP2, EP3
EP4, EP5

Grading criteria: Principles for calculating a grade for the course
### Basic reading

### Supplementary reading

---

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>0</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>5</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>5</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>0</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>5</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL workload in hours</td>
<td>25</td>
</tr>
<tr>
<td>ECTS credits</td>
<td>1</td>
</tr>
</tbody>
</table>
Course unit title: Methodology of the didactic process and educational psychology

Unit: Doctoral School at the University of Szczecin
Faculty / Department providing the course / module: Doctoral School at the University of Szczecin
Mode of study: Name of field of study
Course / module status: Obligatory / teaching
Language of instruction: Disciplinary study:

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>i</td>
<td>i</td>
<td>exercise</td>
<td>15</td>
<td>E</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>i</td>
<td>exercise</td>
<td>15</td>
<td>E</td>
<td>2</td>
</tr>
</tbody>
</table>

Course/module coordinator: Dr hab. Oskar Szwabowski
Course instructor: Dr hab. Oskar Szwabowski
Course/module objectives: An introduction to research in education; showing the problems and consequences of some methodological approaches and practices; and relations between research and pedagogy
Prerequisites: English language, general knowledge of pedagogy and philosophy

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>knows the latest theories, research methodology, principles and concepts in the field of didactics to a degree enabling the creation of new theories, concepts and research methodology</td>
<td>SD_W03</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>has the ability to develop and apply original and creative methodological solutions, techniques and research tools in didactics</td>
<td>SD_U04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>is ready to think and act in an independent, creative and entrepreneurial way, shows initiative in creating ideas and searching for innovative solutions in didactics research</td>
<td>SD_K07</td>
</tr>
</tbody>
</table>

CONTENT

<table>
<thead>
<tr>
<th>Form of the course:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Introduction. Relations between research and didactics</td>
</tr>
<tr>
<td>2 The long shadow of (un)dead positivism</td>
</tr>
<tr>
<td>3 Pedagogy and qualitative research</td>
</tr>
<tr>
<td>4 A dyslexic methodology and dirty writing</td>
</tr>
<tr>
<td>5 Research to getting lost</td>
</tr>
</tbody>
</table>

Modes of delivery: Lecture, presentation in power point

Assessment methods: Research projects

Grading criteria: Principles for calculating a grade for the course, originality of the project (50%), knowledge of the method (50%)

Supplementary reading


**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>_activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
</tr>
<tr>
<td>Participation in test / exam</td>
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<tr>
<td>Preparation for contact hours</td>
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<tr>
<td>Private reading and studying</td>
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</tr>
<tr>
<td>Participation in tutorials</td>
<td>15</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>9</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>15</td>
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<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>50</strong></td>
</tr>
<tr>
<td>ECTS credits</td>
<td>50</td>
</tr>
</tbody>
</table>
Course unit title: Digital media in academic education

Unit: Doctoral School at the University of Szczecin
Faculty / Department providing the course / module: Doctoral School at the University of Szczecin
Mode of study: Name of field of study
Course / module status: Obligatory/Teaching
Discipline of study: Language of instruction:

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>II</td>
<td>Exercise</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>II</td>
<td>Exercise</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
</tbody>
</table>

Course/module coordinator Dr hab. Elżbieta Perzycka, prof. US

Course instructor Dr hab. Elżbieta Perzycka, prof. US

Course/module objectives
1. Understanding the different ways of influencing and using digital media.
2. Developing a critical attitude towards the content of websites - criteria for evaluating websites.
3. Developing the ability to combine information technology with other areas of knowledge.
4. Developing the ability to use methods, techniques and tools of education by combining them with information and media education.
5. Triggering critical attitudes towards the intentional use of media in the "generational" cycle.

Prerequisites Basic computer and office software skills (text editor, graphic editor, multimedia presentation editor).

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1.</td>
<td>EP 1</td>
<td>knows and understands the methodology and methodology of teaching, including the use of modern technologies in education (project)</td>
<td>SD_W05</td>
</tr>
<tr>
<td>Skills</td>
<td>2.</td>
<td>EP 2</td>
<td>is able to use modern methods and techniques of teaching and use them for other types of professional training and classes (evaluation questionnaire)</td>
<td>SD_U06</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3.</td>
<td>EP 3</td>
<td>is ready to engage in the implementation of didactic and popularizing tasks, respecting the subjectivity of interaction participants</td>
<td>SD_K05</td>
</tr>
</tbody>
</table>

CONTENT

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Sources of the value of media messages:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- individual and cultural identity based on universal and contemporary values,</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>- media messages in native and regional culture (traditions, customs, customs,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>rituals)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. An academic teacher as a creator of the student's media learning space (Modern</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>education systems based on the examples of schools in Poland and Norway, India,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kenya and the United States)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Photography, microphone and camera as tools for discovering, learning and</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>experiencing reality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- the impact of watching yourself on creating your own image,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- self-expression in learning about the existing reality.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Representations of media messages in open public spaces</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>- media messages analysis models (Lasswell's model, Shannon's model)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- theory of P.M. Lester.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Project with the use of modern techniques and tools for learning about the</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>studied reality</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Presentation, discussion, task and exercise

Assessment methods No. of learning outcome from the syllabus


Grading criteria Principles for calculating a grade for the course
Project – 50%; evaluation questionnaire 2X 25%

Basic reading


Supplementary reading


DOCTORAL STUDENT WORKLOAD:

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
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<tr>
<td>Preparation for test / exam</td>
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</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>50</strong></td>
</tr>
<tr>
<td>ECTS credits</td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>
Course unit title: Voice care

Unit: Doctoral School at the University of Szczecin

Faculty/Department providing the course/module: Doctoral School at the University of Szczecin

Mode of study: Name of field of study: Linguistics

Course/module status: Elective course

Optional/teaching

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>III/IV</td>
<td>Exercise</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>III/IV</td>
<td>Exercise</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator: Dr Adriana Goldman

Course instructor: Mgr Irina Sklema, dr Adriana Goldman

Course/module objectives: The aim of the course is to acquaint the student with the principles of effective speech production and relaxation techniques to avoid voice fatigue.

Prerequisites: Command of English at B1+ level

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Knows the anatomy of speech organs, the principles of effective speech production and understands how to take care of the speech apparatus to avoid voice fatigue.</td>
<td>SD_W08</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>Can implement the principles of correct breathing, sounds production, intonation and relaxation techniques to effectively communicate with the environment and avoid straining the voice.</td>
<td>SD_U07</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 2</td>
<td>A PhD student is creative in searching for improvement methods of voice care.</td>
<td>SD_K04</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>EP 3</td>
<td>A PhD student is using the competence of voice care in his/her didactic practice.</td>
<td>SD_K05</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>EP 4</td>
<td>A PhD student is constantly trying to improve.</td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course:

1. Posture, breathing and relaxation techniques
2. Voice production – anatomy of speech
3. Articulation: speech sounds, volume, pitch
4. Voice maintenance and care

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class discussion, pair work, individual work</td>
<td>III/IV</td>
<td>2 hours</td>
</tr>
<tr>
<td>Written test, Verification through observation</td>
<td>EP 1 – EP 4</td>
<td></td>
</tr>
</tbody>
</table>

Assessment methods: No. of learning outcome from the syllabus

Grading criteria: Principles for calculating a grade for the course

Course grade is an arithmetic mean of the grade obtained for the written test and oral presentation in English.

Basic reading:

- Ashton, Helen, Sarah Shepherd. 2012. Work on your Accent. Collins

<table>
<thead>
<tr>
<th>DOCTORAL STUDENT WORKLOAD:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>2</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>3</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>5</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>2</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>0</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL workload in hours</td>
<td>25</td>
</tr>
<tr>
<td>ECTS credits</td>
<td>1</td>
</tr>
</tbody>
</table>
Course unit title: Contemporary theories of learning

Unit: Doctoral School at the University of Szczecin
Faculty / Department providing the course / module: Doctoral School at the University of Szczecin

<table>
<thead>
<tr>
<th>Mode of study</th>
<th>Name of field of study</th>
<th>Discipline of study:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obligatory/teaching</td>
<td></td>
<td>Language of instruction: English</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>III/IV</td>
<td>Exercise</td>
<td>10</td>
<td>ZO</td>
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</tr>
<tr>
<td>TOTAL</td>
<td>III/IV</td>
<td>Exercise</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator

Course instructor: Maria Czerepaniak-Walczak

Course/module objectives

Acquiring the knowledge of contemporary concepts of adult learning for the purpose of conscious, critical shaping of personal pedagogical theories

Prerequisites

Completed courses: Design and planning of didactic work; EQF and PRK, Digital media in academic education.

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1.</td>
<td>EP1</td>
<td>knows and understands the sources and factors of choosing the methodology of teaching classes, including the use of modern technologies in education</td>
<td>SD_W06</td>
</tr>
<tr>
<td></td>
<td>2.</td>
<td>EP2</td>
<td>knows the principles of dissemination of scientific results, also in the popularized form according to the modern theories and knows the basic principles of transferring knowledge to the social or economic sphere and commercialization of the results of scientific activity</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>3.</td>
<td>EP3</td>
<td>is able to apply methods and techniques of teaching appropriate to the chosen theory and use them for different types of academic education and Lifelong learning</td>
<td>SD_U06</td>
</tr>
<tr>
<td></td>
<td>4.</td>
<td>EP4</td>
<td>is able to provide the public with information and opinions on key issues related to its scientific discipline in a proper and commonly understood manner</td>
<td>SD_U07</td>
</tr>
<tr>
<td>Social competencies</td>
<td>5.</td>
<td>EP5</td>
<td>is aware of the obligation to creatively seek answers to the challenges of the present and shape attitudes towards new phenomena and problems as well as using of contemporary discoveries of pedagogical knowledge</td>
<td>SD_K04</td>
</tr>
<tr>
<td></td>
<td>6.</td>
<td>EP6</td>
<td>is ready to engage in the implementation of didactic and popularizing tasks while respecting the subjectivity of the interaction participants through using of contemporary pedagogical knowledge</td>
<td>SD_K05</td>
</tr>
<tr>
<td></td>
<td>7.</td>
<td>EP7</td>
<td>is willing to share the results of scientific activities with others and to disseminate them, taking into account the principles of intellectual property protection</td>
<td>SD_K08</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course: workshop

1. Sources of contemporary learning theories; 21st Century skills 2
2. Activity theory of learning; activity = action – operation. Constructivism in education 2
3. Cognitive dissonance; resolving the conflict between reality and the student's value system through learning 2
4. Elaboration theories: shift from the teacher-centric to learner-centered education 2
5. A Learning Theory for the Digital Age 2

Modes of delivery

Discussion, flipped class

Assessment methods

No. of learning outcome from the syllabus

Written work and presentation it to the group EP1-EP7

Grading criteria

Principles for calculating a grade for the course
<table>
<thead>
<tr>
<th>Basic reading</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Knud Illeris: Contemporary Theories of Learning, Second Edition., 2018</td>
<td></td>
</tr>
<tr>
<td>Supplementary reading</td>
<td></td>
</tr>
</tbody>
</table>

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
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</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td></td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>5</td>
</tr>
<tr>
<td>Private reading and studying</td>
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</tr>
<tr>
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</tr>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>1</td>
</tr>
</tbody>
</table>
Course unit title: **Forms and methods of education and learning, methods of student work evaluation**

Unit: Doctoral School at the University of Szczecin  
Course unit code: 

Faculty / Department providing the course / module: 
Doctoral School at the University of Szczecin

Mode of study: Name of field of study: **Theories of Teaching and Learning**  
Discipline of study: **Pedagogy**  
Language of instruction: **English**

Course/module status: Optional/teaching

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>III/IV</td>
<td>Exercises</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>Exercises</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator: **Dr Małgorzata Walejko**

Course instructor: **Dr Małgorzata Walejko**

Course/module objectives: The course provides basic knowledge and skills on methods of teaching and learning as well as on main ways of students' work assessment.

Prerequisites: -

**LEARNING OUTCOMES**

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Student knows and understands main methods (and methodology) of conducting academic lectures and classes.</td>
<td>SD_W05</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>Students uses modern methods and techniques of conducting didactic classes.</td>
<td>SD_U06</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>Student gets engaged into educational processes with respect towards all the participants of the interaction.</td>
<td>SD_K05</td>
</tr>
</tbody>
</table>

**CONTENT**

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Models, methods and forms of education</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2. Activating methods of teaching</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3. Methods of teaching specific for higher education</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5. Methods of student work evaluation</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Modes of delivery</th>
<th>Oral lectures</th>
</tr>
</thead>
</table>

| Assessment methods | Oral exam  
<table>
<thead>
<tr>
<th></th>
<th>Observation of student’s skills and social competencies during trained lessons and classes</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Grading criteria</th>
<th>Principles for calculating a grade for the course</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exam: points' scale; trained lessons: grade concerning: using adequate method, respect towards listeners, using activating methods.</td>
</tr>
</tbody>
</table>

| Basic reading | W. Okoń, Wprowadzenie do dydaktyki ogólnej, 2016  
|               | F. Bereźniki, Dydaktyka kształcenia ogólnego, 2001  
|               | F. Bereźniki, Zagadnienia dydaktyki szkoły wyższej, 2009  
|               | G. D. Borch, Effective teaching methods: Research-Based Practice, 2016 |

| Supplementary reading | P. Burden, D. Byrd, Methods for Effective Teaching: Meeting the Needs of All Students, 2018  
|                      | H. Hamer, Klucz do efektywności nauczania. Poradnik dla nauczycieli, 2012  
|                      | M. Taraszkiewicz, Metody aktywizujące proces uczenia się czyli jak uczyć lepiej, 2005 (e-book)  
|                      | D. Bernacka, Od słowa do działania, 2001 |
### DOCTORAL STUDENT WORKLOAD:

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>1</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>-</td>
</tr>
<tr>
<td>Private reading and studying</td>
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</tr>
<tr>
<td>Participation in tutorials</td>
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<tr>
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</tr>
<tr>
<td>Preparation for test / exam</td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>25</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>

E. Kosińska, Ocenianie w szkole. Krótki poradnik psychologiczny, 2000
K. Wiczkowski, Zaa i sprzed katedry czyli jak oceniać sprawiedliwość, 1994
B. Niemierko, Ocenianie szkolne bez tajemnic, 2006
T. Buzan, Pamięć na zawolanie, 1997
P. Kalina, Mnemonika czyli sztuka kształtowania i wzmacniania pamięci, 1997
M. Taraszkiewicz i C. Rose, Atlas efektywnego uczenia (się), 2006
Course unit title: Collaborative Learning

Unit: Doctoral School at the University of Szczecin
Faculty / Department providing the course / module: Doctoral School at the University of Szczecin
Mode of study: Name of field of study
Course / module status: Optional/teaching
Language of instruction:

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
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</thead>
<tbody>
<tr>
<td>II</td>
<td>III/IV</td>
<td>Exercise</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>III/IV</td>
<td>Exercise</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator Dr hab. Oskar Szwabowski
Course instructor Dr hab. Oskar Szwabowski
Course/module objectives acquisition of general knowledge about didactics process practicing collaborative learning by participants
Prerequisites English language, general knowledge of pedagogy

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>knows the latest theories, research methodology, principles and concepts in the field of didactics to a degree enabling the creation of new theories, concepts and research methodology</td>
<td>SD_W03</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>has the ability to develop and apply original and creative methodological solutions, techniques and research tools in learning</td>
<td>SD_U04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>is ready to think and act in an independent, creative and entrepreneurial way, shows initiative in creating ideas and searching for innovative solutions in research and learning</td>
<td>SD_K07</td>
</tr>
</tbody>
</table>

CONTENT

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. collective conduct of a research project</td>
<td>III/IV</td>
<td>10</td>
</tr>
</tbody>
</table>

Modes of delivery
Power point presentation, dissusion

Assessment methods
No. of learning outcome from the syllabus
Projects

Grading criteria
Principles for calculating a grade for the course originality of the project (50%) knowledge of the method (50%)

Basic reading

Supplementary reading
Edda Luzzatto, Giordano DiMarco (red.) Collaborative learning. Methodology, Types of Interactions and Techniques, NOVA, 2010

DOCTORAL STUDENT WORKLOAD:
<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>2</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
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</tr>
<tr>
<td>Participation in tutorials</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Preparation for test / exam</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>25</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>
Course unit title: Cooperation and team work in science

Unit: Doctoral School at the University of Szczecin
Faculty/Department providing the course/module: Doctoral School at the University of Szczecin

Mode of study: Name of field of study: Disciplines of study: Language of instruction: English
Course/module status: Obligatory/competences

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I</td>
<td>Exercise</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>Exercise</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
</tbody>
</table>

Course/module coordinator: Dr hab. Maciej Kowalewski, prof. US
Course instructor: Dr hab. Maciej Kowalewski, prof. US
Course/module objectives: Obtaining advanced knowledge and conducting in-depth discussion on cooperation and team work in science
Prerequisites: None

LEARNING OUTCOMES
Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Ph.D. students know the principles and contexts of scientific cooperation, the principles of dissemination of the results of scientific activity, and the basic principles of transferring knowledge produced in scientific teams to the social or economic sphere</td>
<td>SD_W06</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>Ph.D. Students know ways to improve their own development in relation to working in research teams</td>
<td>SD_W08</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>Ph.D. students are able to establish and undertake scientific cooperation in research teams, including international ones</td>
<td>SD_U10</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>EP 4</td>
<td>Ph.D. students are ready to act in accordance with ethical principles binding in creative work and interpersonal relations, as well as to develop and disseminate the ethos of scientific and professional community</td>
<td>SD_K06</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course:
1. Working in a science/research environment
2. Setting the objectives of the collaboration
3. Resources: team characteristics and networking potential
4. Rules: communication and relations in a team
5. Outcomes: tools for managing and measuring work progress

Modes of delivery: Workshop

Assessment methods: Group project - (2-4 persons) in the form of an idea for a scientific article/research project. Activity during class is also assessed

Grading criteria: Principles for calculating a grade for the course

Basic reading:
Supplementary reading

<table>
<thead>
<tr>
<th>DOCTORAL STUDENT WORKLOAD:</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
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<tr>
<td>Preparation for test / exam</td>
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</tr>
<tr>
<td>TOTAL workload in hours</td>
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</tr>
<tr>
<td>ECTS credits</td>
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</tr>
</tbody>
</table>
Course unit code:  

Unit:  
Doctoral School at the University of Szczecin

Faculty / Department providing the course / module:  
Doctoral School at the University of Szczecin

Mode of study:  
Name of field of study  
Language of instruction:  
English

Course / module status:  
Obligatory/competences

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>II</td>
<td>conversation</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>II</td>
<td>conversation</td>
<td>15</td>
<td>ZO</td>
<td>2</td>
</tr>
</tbody>
</table>

Course/module coordinator  
Prof. dr hab. Zdzisław Kropieławski

Course instructor  
Prof. dr hab. Zdzisław Kropieławski

Course/module objectives  
This course will engage in an analysis of the notion of creativity, including defining creativity in science, critical thinking, analyzing processes of creativity with connection with intelligence and personality. Student will develop the skills in integrating evidence across disciplines and clearly communicating analysis both in writing and orally. Student will also utilize his/her knowledge to complete a project exemplifying creativity.

Prerequisites  
None

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>PhD student acquires and is able to effectively communicate and use knowledge related to the topic of creativity and science</td>
<td>SD_W04</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>PhD student knows what is critical thinking and knows the its connections with creativity</td>
<td>SD_W08</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>EP 3</td>
<td>PhD student knows the recent achievements on creativity and knows the contemporary papers on the topic</td>
<td>SD_W03</td>
</tr>
<tr>
<td>Skills</td>
<td>4</td>
<td>EP 4</td>
<td>PhD student develops his/her skills in thinking critically, creatively, independently, and collaboratively</td>
<td>SD_U03</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>EP 5</td>
<td>PhD student gathers, analyses, integrates, and applies varied forms of information and develops skills in understanding and using evidence.</td>
<td>SD_U04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>6</td>
<td>EP 6</td>
<td>PhD student enhances skills in communicating effectively, both orally and in writing, and that you will interact effectively and collaboratively</td>
<td>SD_K04</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>EP 7</td>
<td>PhD student can train and help others to develop social skills in creativity and critical thinking</td>
<td>SD_K07</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course: lecture  
1. Creativity, science - definitions  
2. Critical thinking and creativity  
3. Intelligence and creativity (IQ, EQ, General Factor)  
4. Creativity and personality  
5. Open mind and creativity  
6. Training creativity in scientific research

Semester | No. of hours
---|---
II | 2
II | 3
II | 2
II | 3
II | 2
II | 3

Modes of delivery  
Activated lecture with multimedia

Assessment methods  
Verbal exam

No. of learning outcome from the syllabus  
Test

Grading criteria  
Student acquire knowledge from the lecture, discussions and the study of literature

Basic reading  
Supplementary reading

U. W. Goodenough, Creativity in Science, Zygon 28: 399-414 (1993);

<table>
<thead>
<tr>
<th>DOCTORAL STUDENT WORKLOAD:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Contact hours</strong></td>
<td>15</td>
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<tr>
<td><strong>Participation in test / exam</strong></td>
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<tr>
<td><strong>Preparation for contact hours</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Private reading and studying</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>Participation in tutorials</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Preparation of project / essay / etc.</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Preparation for test / exam</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td>50</td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td>2</td>
</tr>
</tbody>
</table>
Course unit title: Change Management

Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module: Doctoral School at the University of Szczecin

Mode of study: 

Name of field of study: Management and Quality

Discipline of study: Management and Quality

Course / module status: 

Obligatory / competences: 

Language of instruction: English

Year | Semester | Form of instruction | No. of hours | Type of credit | ECTS |
--- | --- | --- | --- | --- | --- |
|   |   | II | 15 | ZO | 2 |

TOTAL | II | 15 | ZO | 2 |

Course/module coordinator: dr Aleksandra Rudawska

Course instructor: dr Aleksandra Rudawska

Course/module objectives: During the course students will cognise diverse theories, approaches and levels of organizational change. The overall objective is to develop the understanding of the role and process of organizational change management.

Prerequisites: Knowledge on the basic issues related to organizational behaviour, basics of management and strategic management.

**LEARNING OUTCOMES**

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1.</td>
<td>EP 1</td>
<td>Know theories related to the concept of change management.</td>
<td>SD_W03, SD_W04</td>
</tr>
<tr>
<td></td>
<td>2.</td>
<td>EP 2</td>
<td>Discuss individual level and organizational level issues related with organizational management and applied methods to study them.</td>
<td>SD_W03, SD_W04</td>
</tr>
<tr>
<td>Skills</td>
<td>3.</td>
<td>EP 3</td>
<td>Prepare literature review on selected topic on organizational change and change management.</td>
<td>SD_U03</td>
</tr>
<tr>
<td></td>
<td>4.</td>
<td>EP 4</td>
<td>Present and discuss key issues on theory and research on organizational change management from the assigned papers.</td>
<td>SD_U07, SD_U09</td>
</tr>
<tr>
<td>Social competencies</td>
<td>5.</td>
<td>EP 5</td>
<td>Critically review the theoretical and research papers on change management.</td>
<td>SD_K02</td>
</tr>
</tbody>
</table>

**CONTENT**

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Nature of the organizational change and the development of the field.</td>
<td>II</td>
<td>2</td>
</tr>
<tr>
<td>2. Different theoretical perspectives on change management.</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>3. Change management from the individual level: behavioural, cognitive, cultural issues.</td>
<td>II</td>
<td>4</td>
</tr>
<tr>
<td>4. Change management from the organizational level: organizational learning, dynamic capabilities, strategic renewal, ambidexterity.</td>
<td>II</td>
<td>4</td>
</tr>
<tr>
<td>5. Organizational consequences of frequent organizational change: organizational insomnia, organizational burnout.</td>
<td>II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Modes of delivery:** Elements of lecture enriched with student discussion based on assigned readings.

**Assessment methods:**

- Individual project: Literature review on the selected topic of organizational change management. 
- Class participation: Discuss the key issues presented in the individually assigned readings. 

**Grading criteria:** Principles for calculating a grade for the course.

The final grade consists of the grade on individual project (80%) and class participation (20%).

**Basic reading:**


**Supplementary reading:**


**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>15</td>
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<tr>
<td>Participation in test / exam</td>
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<tr>
<td>Private reading and studying</td>
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<tr>
<td>Participation in tutorials</td>
<td>5</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
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<tr>
<td>Preparation for test / exam</td>
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<td><strong>TOTAL workload in hours</strong></td>
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<tr>
<td><strong>ECTS credits</strong></td>
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</tbody>
</table>
Course unit title: Diversity management
Unit: Doctoral School at the University of Szczecin

Mode of study: Name of field of study
Course / module status: Optional/competences
Year Semester Form of instruction No. of hours Type of credit ECTS
II III/IV conversation 10 ZO 1
TOTAL III/IV conversation 10 ZO 1
Course/module coordinator dr hab. Katarzyna Gadomska-Lila, prof. US
Course instructor
Course/module objectives The aim of the course is to develop knowledge of how to work effectively in teams that are diverse in terms of age, gender, nationality etc., as well as the ability to build effective teams, cooperate and manage diverse teams.

Prerequisites Knowledge of basic categories of human resource management, organisational behaviour issues and interpersonal relations in the workplace.

**LEARNING OUTCOMES**

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>The PhD student has advanced knowledge of management in a diverse human resource environment</td>
<td>SD_W01</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>The PhD student has the ability to define and solve problems arising from the diversity of the team</td>
<td>SD_U01</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>The PhD student can interact in a diverse team while taking on different social roles</td>
<td>SD_K01</td>
</tr>
</tbody>
</table>

**CONTENT**

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Essence and meaning of diversity, dimensions of diversity, opportunities and risks.</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>2 Dimensions of diversity and their importance for the smooth operation of an organisation.</td>
<td>III/IV</td>
<td>3</td>
</tr>
<tr>
<td>3 Building effective teams in a diverse environment - setting goals and tasks, establishing norms, dividing roles etc.</td>
<td>III/IV</td>
<td>3</td>
</tr>
<tr>
<td>4 The role and competencies of leaders in diverse teams.</td>
<td>III/IV</td>
<td>2</td>
</tr>
</tbody>
</table>

Modes of delivery presentations, analysis of case studies, group discussions

Assessment methods

Grading criteria Principles for calculating a grade for the course
Active participation in classes, preparation and presentation of a group project

Basic reading

Supplementary reading

**DOCTORAL STUDENT WORKLOAD:**

<table>
<thead>
<tr>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
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<tr>
<td>Participation in test / exam</td>
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<td>Preparation for contact hours</td>
</tr>
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<tr>
<td>Participation in tutorials</td>
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<tr>
<td>Preparation of project / essay / etc.</td>
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<tr>
<td>Preparation for test / exam</td>
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<tr>
<td><strong>TOTAL workload in hours</strong></td>
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<tr>
<td><strong>ECTS credits</strong></td>
</tr>
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</table>
# Innovative Thinking

## Unit Information
- **Unit:** Doctoral School at the University of Szczecin
- **Faculty / Department providing the course / module:** Doctoral School at the University of Szczecin
- **Mode of study:** Name of field of study
- **Course / module status:** Optional/competences
- **Year:** II
- **Semester:** III/IV
- **Form of instruction:** conversation
- **No. of hours:** 10
- **Type of credit:** ZO
- **Language of instruction:**
- **Course/module coordinator:** Dr Monika Klein
- **Course instructor:** Dr Monika Klein
- **Course/module objectives:** The purpose of the course is to introduce students to methods and techniques of creative thinking that will contribute to solving wicked problems in innovative ways with team involvement.
- **Prerequisites:** Knowledge of English at a conversational level.

## Learning Outcomes

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>Knows methods to improve his/her own development</td>
<td>SD_W08</td>
</tr>
<tr>
<td>Skills</td>
<td>2</td>
<td>EP 2</td>
<td>has the ability to develop and apply original and creative methodological solutions, research techniques and tools</td>
<td>SD_U04</td>
</tr>
<tr>
<td>Social competencies</td>
<td>3</td>
<td>EP 3</td>
<td>is aware of the necessity to creatively search for answers to contemporary challenges and to shape patterns of attitudes towards new phenomena and problems</td>
<td>SD_K04</td>
</tr>
</tbody>
</table>

## CONTENT

<table>
<thead>
<tr>
<th>Form of the course:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 How to Develop Innovative Thinking Skills – tools, methods, approaches</td>
</tr>
<tr>
<td>II/IV</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>Ways to Generate Ideas</td>
</tr>
<tr>
<td>II/IV</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>Ways to Narrow Down Ideas</td>
</tr>
<tr>
<td>II/IV</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>Key Factors for an Innovative Organization</td>
</tr>
<tr>
<td>II/IV</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>Organizational culture - rituals</td>
</tr>
<tr>
<td>II/IV</td>
</tr>
</tbody>
</table>

## Modes of delivery
- Power point presentation, discussion

## Assessment methods
- Participation in lectures, project development and presentation, oral assessment
- Observation, project

## Grading criteria
- Principles for calculating a grade for the course

## Basic reading
- Kurstan Ozenc, Margaret Hagan Rituals for Work: 50 Ways to Create Engagement, Shared Purpose, and a Culture that Can Adapt to Change, John Willey and Sons, New Jersey 2019
- Ostervalder Alex, Pinguer Ives, Greorgy Bernarda, Alam Smith, Trish Papadkaos, Value Proposition Design: How to Create Products and Services Customers Want, 2014

## Supplementary reading
- Peter Drucker Innovation and Entrepreneurship, Routlandge Classic 2015
<table>
<thead>
<tr>
<th>Activity</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
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<td>Preparation for contact hours</td>
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</tr>
<tr>
<td>Private reading and studying</td>
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</tr>
<tr>
<td>Participation in tutorials</td>
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<tr>
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<td>Preparation for test / exam</td>
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<tr>
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</table>
Course unit title: Academic Culture

Unit: Doctoral School at the University of Szczecin

Faculty / Department providing the course / module: Doctoral School

Mode of study: third degree, full time

Name of field of study:

Discipline of study:

Course / module status: elective

Language of instruction: English

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>III/IV</td>
<td>conversation</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>III/IV</td>
<td>conversation</td>
<td>10</td>
<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

Course/module coordinator: Dr Barbara Braid

Course instructor: Dr Barbara Braid

Course/module objectives: Familiarising doctoral students with academic culture, conduct and manners in a number of cultural contexts in Poland and abroad.

Prerequisites: English (spoken and written) at B2+ level

LEARNING OUTCOMES

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP1</td>
<td>Knows the rules of conduct in various academic contexts of Polish culture and abroad</td>
<td>SD_W08</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP2</td>
<td>Knows the methods of popularising one’s research in the academic community, incl. digital communities</td>
<td>SD_W06 SD_W08</td>
</tr>
<tr>
<td>Skills</td>
<td>3</td>
<td>EP3</td>
<td>Can communicate and maintain relationships with scholars locally and abroad</td>
<td>SD_U08 SD_U09 SD_U10</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>EP4</td>
<td>Can plan and shape their online presence and their role in the academic networks</td>
<td>SD_U09 SD_U11</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>EP5</td>
<td>Can initiate and develop relationships with academic communities, including editorial boards, reviewers, conference conveyors, conference participants, associations, seminars, etc.</td>
<td>SD_U08 SD_U09 SD_U10 SD_U11</td>
</tr>
<tr>
<td>Social competencies</td>
<td>6</td>
<td>EP6</td>
<td>Can negotiate criticism in the academic context</td>
<td>SD_K01 SD_K02</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>EP7</td>
<td>Can treat various actors of academic relationships with respect and collegiality</td>
<td>SD_K05 SD_K06</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>EP8</td>
<td>Can share their ideas in a creative and thoughtful way in a variety of academic contexts, including online contexts</td>
<td>SD_K05 SD_K05 SD_K08</td>
</tr>
</tbody>
</table>

CONTENT

Form of the course: seminar (konwersatorium)

1. Academic manners: addressing people, e-mails and other communications, cultural difference. III/IV 2
2. Conferences, academic associations, and networking. III/IV 2
3. Publishing and reviews: rules of conduct and dealing with criticism. III/IV 2
4. Online presence, incl. social media. Online research and libraries. III/IV 2
5. Academic values. Respecting differences and political correctness. III/IV 2

Modes of delivery: Interactive presentation, discussion, pair work

Assessment methods: written paper (a reflective journal) EP1-EP8

Grading criteria: The grade is given on the basis of a reflective journal made of 5 entries on selected topics related to course contents.

Principles for calculating a grade for the course:
The course grade is equal to the grade given for the final assignment.

Supplementary reading


<table>
<thead>
<tr>
<th>DOCTORAL STUDENT WORKLOAD:</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
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<td>Participation in test / exam</td>
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<td>Private reading and studying</td>
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<tr>
<td>Participation in tutorials</td>
<td>2</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
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<tr>
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<tr>
<td>ECTS credits</td>
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</tr>
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</table>
**Course unit title:** Design Thinking

**Unit:**
Doctoral School at the University of Szczecin

**Faculty / Department providing the course / module:**

<table>
<thead>
<tr>
<th>Mode of study:</th>
<th>Name of field of study</th>
<th>Discipline of study:</th>
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</table>

<table>
<thead>
<tr>
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<th>Form of instruction</th>
<th>No. of hours</th>
<th>Type of credit</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obligatory / research</td>
<td>conversation</td>
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<td>ZO</td>
<td>1</td>
</tr>
</tbody>
</table>

**Year** | **Semester** | **Total** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>III, IV</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course / module coordinator</th>
<th>Dr hab. Jarosław Korpska, prof. US</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Course instructor</th>
<th>Dr hab. Jarosław Korpska, prof. US</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Course / module objectives</th>
<th>Obtaining advanced knowledge and conducting in-depth discussion on design thinking in a science.</th>
</tr>
</thead>
</table>

**Prerequisites**
Knowledge: A PhD student has knowledge in the field of creating an innovation at the level of master degree. Skills: can independently plan and organize own work. Social competences: can discuss choosing and using appropriate arguments.

**LEARNING OUTCOMES**

Having obtained a credit from a course/module, a doctoral student can:

<table>
<thead>
<tr>
<th>Category</th>
<th>No.</th>
<th>CODE</th>
<th>Description</th>
<th>Ref. to the programme benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>1</td>
<td>EP 1</td>
<td>PhD student knows design thinking theories and their evolution</td>
<td>SD_W01; SD_W04</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>EP 2</td>
<td>PhD Student knows social and human factors in the process of design thinking's</td>
<td>SD_W03</td>
</tr>
<tr>
<td>Skills</td>
<td>3</td>
<td>EP 3</td>
<td>PhD Student can analyze an organization and identify the need of implementation of design thinking</td>
<td>SD_U01; SD_U04</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>EP 4</td>
<td>PhD Student has the skills to use the methods of design thinking</td>
<td>SD_U09</td>
</tr>
<tr>
<td>Social competencies</td>
<td>5</td>
<td>EP 5</td>
<td>PhD Student is ready for analytical and critical thinking, problem solving and teamwork</td>
<td>SD_K01; SD_K02; SD_K07</td>
</tr>
</tbody>
</table>

**CONTENT**

<table>
<thead>
<tr>
<th>Form of the course:</th>
<th>Semester</th>
<th>No. of hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Design Thinking Background</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>2. How design thinking can turn your strategy into reality – managing ideas</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>3. Design Thinking Approach</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>4. Design Thinking Tools and Methods</td>
<td>III/IV</td>
<td>2</td>
</tr>
<tr>
<td>5. The implementation process of design thinking</td>
<td>III/IV</td>
<td>2</td>
</tr>
</tbody>
</table>

**Modes of delivery**
Classes with the use of multimedia presentations, discussion, work on case studies.

**Assessment methods**
Project; teaching practice; case studies

**Grading criteria**
Principles for calculating a grade for the course:
The final grade of the course is based on the result of: student’s presentation of brief implementation design thinks in science (50% of the final grade), participating in workshops, group discussion and case study solving during the course (50% of the final grade).

**Basic reading**

**Supplementary reading**
- Plattner, H., Meinel, C., & Leifer, L. (Eds.). (2015). Design thinking research:
<table>
<thead>
<tr>
<th><strong>DOCTORAL STUDENT WORKLOAD:</strong></th>
<th><strong>No. of hours</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact hours</td>
<td>10</td>
</tr>
<tr>
<td>Participation in test / exam</td>
<td>-</td>
</tr>
<tr>
<td>Preparation for contact hours</td>
<td>3</td>
</tr>
<tr>
<td>Private reading and studying</td>
<td>3</td>
</tr>
<tr>
<td>Participation in tutorials</td>
<td>-</td>
</tr>
<tr>
<td>Preparation of project / essay / etc.</td>
<td>5</td>
</tr>
<tr>
<td>Preparation for test / exam</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL workload in hours</strong></td>
<td><strong>25</strong></td>
</tr>
<tr>
<td><strong>ECTS credits</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>