



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

RESEARCH GRANTS - PREPARATION AND APPLICATION

### Course

Proposed by Discipline

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Type of studies

Doctoral School

Form of study

full-time

Year/Semester

I/1

Course offered in

English

Requirements

compulsory

### Number of hours

Lecture

4

Tutorials

Projects/seminars

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

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Research and Projects Office

Poznan University of Technology

pl. Maria Skłodowska-Curie 5/409, 60-965

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groups 1 and 2

Responsible for the course/lecturer:

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Research and Project Office

Poznan University of Technology

Pl. Marii Skłodowskiej-Curie 5/409, 60-965

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groups 3 and 4

### Prerequisites

Knowledge: ability to name several agencies and institutions which fund research in Poland and EU.



Basic knowledge about research proposal preparation (group 1 and 2 - LIDER call, group 3 and 4 - PRELUDIUM call).

Skills: effective self-education in the field of study.

Social competencies: willingness to increase own competences and cooperating within a project team.

### Course objective

Acquiring theoretical knowledge and practical skills related to the preparation of research project proposal.

### Course-related learning outcomes

#### Knowledge

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

- 1) principles of publication of research work results, including regulations of the open access mode, [P8S\_WG/SzD\_W04]
- 2) economic, legal, ethical and other important conditions of research work. [P8S\_WK/SzD\_W06]

#### Skills

A PhD student who graduated from doctoral school can:

- 1) plan and realize individual and team research projects, also in international environment, [P8S\_UK/SzD\_U09]
- 2) plan and pursue scientific self-development and to be able to inspire and organize the development of others. [P8S\_UK/SzD\_U010]

#### Social competences

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

- 1) critically assess the achievements within a given scientific discipline, [P8S\_KK/SzD\_K01]
- 2) maintain and develop the ethos of research and creative communities, including conducting independent scientific activity. [P8S\_KR/SzD\_K07]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

PQF code	Methods for verification of learning outcomes	Assessment criteria
W04, W06	Test on the issues discussed in the course (online) - 10 questions: multiple choice, true or false	Correct answer to min. 5 questions
U09, U010	Exercise: verification of correctness of certain elements of the research proposal (research plan, budget)	Compliance with the formal requirements of the PRELUDIUM and LIDER calls



K01, K07	Exercise: matching the call presented in the course to the researcher and his/her scientific achievements	Correct answer
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### Programme content

1. Overview of available sources of funding for research projects and stipends (Basic research and applied research – differences. National Science Center, Poland – program offer. The National Centre for Research and Development – program offer. Foundation for Polish Science – program offer. Polish National Agency for Academic Exchange – program offer. The European Commission – Horizon Europe – program offer. Assessment of own achievements based on available programs.
2. Defining the overall scope of the project (Formulating of project objectives and research hypotheses. Verification of owned resources. Building a project team and a consortium.
3. Detailed planning and description (Planning and scheduling. Features of perfect abstract. Significance of the project and project impact. Risk analysis. Research data management plan).
4. Project budget (Expenditure planning on the example of PRELUDIUM call, National Science Center and LIDER call, National Center for Research and Development).
5. Application process (Project application systems. Evaluation of proposals. Features of good proposals. Most common mistakes).

### Teaching methods

Lecture: multimedia presentation including illustrations and examples.

Practical exercises.

### Bibliography

Basic

1. Announcement of the PRELUDIUM call for proposals, <https://www.ncn.gov.pl/en>
2. Announcement of the LIDER call for proposals, <https://www.gov.pl/web/ncbr-en>

Additional

1. <https://www2.fundsforngos.org/featured/free-top-25-tips-on-how-to-write-proposals-effectively-for-funding-success/>
2. <https://www.scribbr.com/research-process/research-proposal/>
3. How to plan and write a budget for research grant proposal, Satish G. Patil <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6598805/>



### Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	4	0,5
Student's own work (literature studies, preparation for the test) <sup>1</sup>	21	0,5

<sup>1</sup> delete or add other activities as appropriate