**Field: Natural Sciences, Discipline: Mathematics**

1) The subject of a prospective doctoral dissertation may include the following research areas:

* + algebraic geometry
	+ functional analysis
	+ algebra
	+ functional equations
	+ approximation theory
	+ fixed-point theorem
	+ theory of operators
	+ real analysis and topology
	+ universal algebra
	+ history of mathematics
	+ philosophy of mathematics
	+ mathematics education

2) The recruitment is competitive. Points are assigned for each stage of the evaluation process:

a) A **research proposal** (0-15 pts.), which may be an outline of the prospective PhD dissertation. The proposal should be written in Polish or English and should not be shorter than 6,000 characters without spaces, including bibliography. The proposal is evaluated anonymously by two reviewers representing the discipline, appointed by the chairperson of the selection committee. The average of points granted by each of the reviewers in the following categories constitutes the final evaluation of the research project:

* + - formulating the research objective – 0-3 pts.
		- knowledge of the current state of research – 0-3 pts.
		- proposed research methodology – 0-3 pts.
		- originality and cognitive value – 0-3 pts.
		- Feasibility and validity of the project – 0-3 pts.

b) An **interview** (0-20 pts.) focused on the submitted research project, which may be conducted in Polish or English. The aim of the interview is to verify the candidate’s general knowledge in the selected discipline. The final evaluation of the interview is the average of points awarded by each member of the selection committee in the following categories:

* + - presentation of the research problem against the current state of research – 0-5 pts.
		- presentation of the proposed solution to the research problem – 0-5 pts.
		- Taking part in a scientific discussion – 0-5 pts.
		- Feasibility and validity of the project – 0-5 pts.

c) Evaluation of **scientific activity** (0-7 pts.):

* + - publication in a scientific journal, book authorship or a chapter in a monograph book published in a press included in the list of the Ministry of Science and Higher Education – 0-3 pts.
		- participation with a paper in a scientific conference – 0-2 pt.
		- national or international internships or scholarships of min. 14 days – 0-1 pt.
		- activity in a student research club – 0-1 pt.

Activity in a research club must be documented. For publications, printouts must be submitted, for conference papers — abstracts. No more than three publications and two conferences may be listed.