Program	Type of studies (cycle)	Third cycle – doctoral studies
	Name of the program	Doctoral Studies in Mathematical and Computer Science

Course

Course title	**Research Methodology and Academic Skills**			
Course code	Semester	Course status	ECTS credits	Contact hours
EDU 605	I	mandatory	10	30

Aims and intended learning outcomes	The course introduces students to research standards in mathematics and provides knowledge to help them select a research area and conduct their own research. The course addresses issues faced by every doctoral student: what and how to research; how to choose a supervisor; how to write a mathematical research paper, dissertation, or book; where to publish; which conferences to attend and how to participate; and how to collaborate. Alongside research skills, the course also aims to develop other professional skills useful for a future career.

Course content/topics

- Principles of research in mathematics
- Writing and publishing
- Presentation of scientific results
- International collaboration
- Interdisciplinarity and multidisciplinarity
- Project work
- Teaching activities
- Supervision and mentoring

LITERATURE

[1] T. Gowers (ed.), The Princeton Companion to Mathematics, Princeton University Press, 2008.

[2] N. J. Higham, Handbook of Writing for the Mathematical Sciences, 2nd ed., SIAM: Society for Industrial and Applied Mathematics, 1998.

[3] S. G. Krantz, A Mathematician's Survival Guide: Graduate School and Early Career Development, American Mathematical Society, 2003.

[4] N. E. Steenrod, P. R. Halmos, M. M. Schiffer and J. A. Dieudonne, How to Write Mathematics, 6th printing, American Mathematical Society, 2000.

Grading

	Criterion	Points	Cut-off points
1.	Assignments	30	16
2.	Project	40	22
3.	Final exam	30	17
	Total	100	55