



Course title	Probability and Statistics
Institute/Division	Faculty of Computer Science and Telecommunication/ Department of Mathematics
Course code	F-2.PS
Erasmus subject code	11.1, 11.2
Number of contact hours**	45 lecture hours (45h)
Course duration	1 semester (Spring)
ECTS credits	6
Course description (max 100 words)	The course provides an elementary introduction to probability and statistics with applications. Topics include: basic probability models, combinatorics, random variables, discrete and continuous distributions, law of large numbers, central limit theorems, confidence intervals, statistical estimation and testing.
Literature	T.T. Soong, Fundamentals of Probability and Statistics for Engineers, John Wiley & Sons Ltd, 2004 M. Capiński, T. Zastawniak, Probability Through Problems, Springer-Verlag, New York 2001.
Course type/organization	<ul style="list-style-type: none">• Lectures (30h),• Exercises (15h)
Assessment method	Attendance, two tests during the semester, final exam
Prerequisites	Calculus
Primary target group	Computer Science, Engineering Sciences, I level
Contact person	Margareta Wiciak, e-mail: mwiciak@pk.edu.pl
Remarks	

*please insert one of the following codes:

- 11.0 Mathematics, Informatics
- 11.1 Mathematics
- 11.2 Statistics
- 11.3 Informatics, Computer Science
- 11.4 Artificial Intelligence
- 11.5 Actuarial Science
- 11.9 Others Mathematics, Informatics

**1 lecture hour=45 minutes