

Course title:	Statistics in Tourism				Code:
Field of study:	Tourism and recreation				Year/Semester: II/3
Specialization:	all				Modes: F/E
Number of hours / semester 60/32					ECTS credits: 3
Lectures: 15/18	Practical work: 15/18	Laboratory work:	Projects:	Seminars:	

Lecturer / Lecturers:

Head of the course:

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Lecturer:

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Course position in the study programme:

- basic course

Objectives:

The aim of these classes is to acquaint students with basics of statistical interference (verification of statistical hypotheses, parameters evaluation).

1. **Course contents:**
2. Probability calculus:
 - a) Major terms (event probability, probability rules)
 - b) Two types of probability distribution – discrete and continuous
 - c) Discrete and continuous probability distribution; chosen numerical characteristics (average, variance), examples (binomial distribution, Poisson's distribution, normal distribution, student's distribution, chi-square test)
3. Statistical interference – verification of hypotheses:
 - a) introduction to interference (simple hypothesis, alternative hypothesis, test)
 - b) interference using a single population (average interference, structure index interference, variance interference, standard deviation)
4. Statistical interference – parameters estimation:

- a) introduction (point estimation, basic terms)
- b) interval estimation for average, structure index and variance

Teaching methods: lectures, classes

Assessment methods: written final quiz comprising lectures and classes

Recommended reading:

A) Compulsory

- 1 M. Liskowski, R. D. Tauber – Podstawy statystyki praktycznej, Wyd. WSHiG, 2003
- 2 W. Starzyńska – Statystyka praktyczna, PWN, 2000

B) Supplementary

- 1 M. Kędelski, J. Roeske-Słomka – Statystyka, Wyd. Akademii Ekonomicznej, Poznań, 1998
- 2 M. Sobczyk – Statystyka, PWN, 1991