| STUDY MODULE DESCRIPTION FORM | | | | | | | | |
|---|---|--|------------------------|--------|---|---|----------------|--|
| Name of the module/subject Statistics | | | | | Code 1011102211010341935 | | | |
| Field of | study | | | | Profile of study (general academic, practical) | Year /Semester | | |
| Safe | ty Engineering - | Full-time | studies - Secor | nd- | (brak) | 1/1 | | |
| Elective path/specialty Work Safety Management | | | | | Subject offered in: Polish | Course (compulsory, elective obligatory |)) | |
| Cycle o | f study: | | | For | rm of study (full-time,part-time) | | | |
| Second-cycle studies | | | | | full-time | | | |
| No. of h | ours | | | | | No. of credits | | |
| Lectur | Cladoo | | Laboratory: - | | Project/seminars: | - 5 | | |
| Status | of the course in the study | 1. 7 | ic, major, other) | | (university-wide, from another fi | | | |
| Educati | on areas and fields of so | (brak) | | | | (brak) ECTS distribution (number | | |
| Luucan | on areas and helds of so | ience and an | | | | and %) | | |
| socia | Il sciences | | | | | 5 100% | | |
| | Economics | | | | | 5 100% | | |
| | | | | | | | | |
| Resp | onsible for subj | ect / lectu | rer: | | | | | |
| | laria lwińska | | | | | | | |
| | ail: maria.iwinska@pu | t.poznan.pl | | | | | | |
| | +48(61)6652349 ulty of Electrical Engi | neering | | | | | | |
| ul. F | Piotrowo 3a, 60-965 P | oznań | | | | | | |
| Prere | equisites in tern | ns of knov | vledge, skills an | d s | ocial competencies: | | | |
| 1 | Knowledge | Student kn | nows basic notions in | calc | ulus. | | | |
| 2 | Skills | Student ca | in operate a calculato | or. | | | | |
| 3 | Social competencies | Student recognizes the necessity in deepening his knowledge. | | | | | | |
| Assu | mptions and ob | jectives o | f the course: | | | | | |
| to acqu | uire basic descriptive | measures ar | nd develop the ability | / to ι | use these measures to solve | e application problems. | | |
| | Study outco | mes and | reference to the | ed | ucational results for | a field of study | | |
| Knov | vledge: | | | | | | | |
| Student knows methods of sampling [K2A_W02] | | | | | | | | |
| 2. Student knows measures of association between two variables [K2A_W02] | | | | | | | | |
| 3. Student knows components of a time series and index numbers [K2A_W02] | | | | | | | | |
| Skills: | | | | | | | | |
| Student is able to interpret the information from a sample and to draw conclusions [K2A_U8] Social competencies: | | | | | | | | |
| | | | of continuous logi- | 200 | [K3V K4] | | | |
| 1. Student is able to argue the necessity of continuous learning [K2A_K1] | | | | | | | | |

| Assessment methods of study outcomes | | | | |
|---|--|--|--|--|
| Forming score: | | | | |
| on the basis of written tests. | | | | |
| Summary score: | | | | |
| the average points obtained by the written tests. | | | | |
| Course description | | | | |

Faculty of Engineering Management

Graphical descriptions of data.

Measures of location . Measures of variability.

Crosstabulations and scatter diagrams.

Correlation and simple linear regression.

Time series, forecasting, and index numbers.

Basic bibliography:

- 1. Wasilewska E., Statystyka opisowa od podstaw. Podręcznik z zadaniami, Wydawnictwo SGGW, Warszawa, 2011.
- 2. Wysocki F., Lira J., Statystyka opisowa, Wydawnictwo Akademii Rolniczej w Poznaniu, Poznań, 2007.
- 3. lwińska M., Popowska B., Szymkowiak M., Statystyka opisowa, Wydawnictwo Politechniki Poznańskiej, Poznań, 2011.

Additional bibliography:

- 1. Sobczyk M., Statystyka opisowa, Wydawnictwo C. H. Beck, Warszawa, 2010.
- 2. Kowalski J. M., Podstawy statystyki opisowej dla ekonomistów, Wydawnictwo Wyższej Szkoły Bankowej, Poznań-Chorzów, 2006.

Result of average student's workload

| Activity | Time (working hours) |
|-------------------------------|----------------------|
| 1. Participation in lectures | 15 |
| 2. Participation in exercises | 30 |
| 3. Preparation for exercises | 30 |
| 4. Preparation for tests | 30 |
| 5. Preparation for lectures | 15 |

Student's workload

| Source of workload | hours | ECTS |
|----------------------|-------|------|
| Total workload | 120 | 5 |
| Contact hours | 47 | 2 |
| Practical activities | 30 | 1 |