

| Study program | | Study cycle | I study cycle | | | | | |
|--|--|--|---|---|---------------------------|-----------------|----------------|---|
| | | Orientation | Tourism and environmental protection | | | | | |
| SUBJECT | | | | | | | | |
| Subject name | | Statistics | | | | | | |
| Subject code | Semester | Subject status | | ECTS credits | Contact hours | | | |
| STAT-114/I | I | Optional | | 2 | 50 | | | |
| Prerequisites | | | | | | | | |
| Assigned professors and assistants | Subject Leader | | Dr. Sc. Fikret Čunjalo, associate professor | | | | | |
| | Teaching Assistants | | Mr. Daniela Zubović, senior associate | | | | | |
| Subject objectives | | The aim of the course is to introduce students with the basics of statistical methods. | | | | | | |
| SUBJECT CONTENT | | | | | | | | |
| # | Teaching units | | | | Contact hours | | | |
| | | | | | L | P | S | C |
| 1 | The method of collecting and grouping data. Statistical series | | | | 1 | 1 | | |
| 2 | Frequency. The relative frequency. Cumulants | | | | 1 | 1 | | |
| 3 | Graphical representation of statistical series | | | | 1 | 1 | 1 | 1 |
| 4 | Complete average value | | | | 1 | 1 | | |
| 5 | The rank of the average values | | | | 1 | 1 | 1 | 1 |
| 6 | Measures of dispersion. Measures of asymmetry | | | | 1 | 1 | | |
| 7 | First test | | | | 1 | 1 | | |
| 8 | Definition of probability. A random variable. Models of probability distribution | | | | 1 | 1 | 1 | 1 |
| 9 | Method patterns. Sampling distribution | | | | 1 | 1 | | |
| 10 | Estimation of parameters | | | | 1 | 1 | 1 | 1 |
| 11 | Testing hypotheses about the arithmetic mean | | | | 1 | 1 | | |
| 12 | χ^2 -test | | | | 1 | 1 | | |
| 13 | Linear Regression Model | | | | 1 | 1 | | |
| 14 | Individual indices. Aggregate indices. | | | | 1 | 1 | 1 | 1 |
| 15 | The model of a linear trend | | | | 1 | 1 | | |
| STUDENT WORKLOAD (HOURS) | | | | | | | | |
| Contact Hours | 30 | Practical work | | Seminars | 5 | Exam study time | 10 | |
| Literature – reading | | Written papers | | Consultations | 5 | TOTAL | 50 | |
| LITERATURE | | | | EVALUATION OF KNOWLEDGE AND CRITERIA | | | | |
| 1. Šošić, I.: Primijenjena statistika, Školska knjiga, Zagreb, 2004 2. Petz, B.: Osnovne statističke metode za nematematičare, Zagreb, 1997 | | | | | PARAMETERS | Maximum Points | Minimum points | |
| | | | | 1. | Attendance | 5 | 3 | |
| | | | | 2. | Participation on lectures | 5 | 3 | |
| | | | | 3. | Midterm exams | 30 | 16 | |
| | | | | 4. | Seminar | 10 | 6 | |
| | | | | 5. | Students project | | | |
| | | | | 6. | Final exam | 50 | 27 | |
| | | | | Total | | 100 | 55 | |