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| **Course** | **INTRODUCTION TO STATISTICS** | | | |
| | Type | Semester | ECTS | Code |
| | ELECTIVE (E) | | 4 | |
| **Course lecturer**<br>**Course assistant**<br>**Course tutor** | Ridvan Peshkopia, PhD | | | |
| **Course objectives and learning outcomes** | Statistical methods have become among the most important research methods in Security Studie. It has been evaluated that roughly 90% of articles published in the most important journals in our discipline use statistical methods. Reaching results based on the rigorous analysis of quantitative data collected equally rigorously gives meaning of the scientific inquiry in security issues. Somehow, our country's backwardness in social research is a consequence of our underdevelopment in applying statistical methods in such a research.<br><br>However, when students take this course in our program, they will discover that during the previous semesters they have already taken some of the statistical analysis concepts with the course Research Methodology. During that course, we have studied with classroom lectures, collecting data in fieldworks, and analysing those data in the computer lab through the statistical program Stata.<br><br>From this viewpoint, we have been able to advance in some important paths with students who take seriously their advancement in our discipline. The main goal of this course are:<br>1. Further expansion, theoretical completion and skill sophistication in applying statistical methods for data analysis.<br>2. Appropriating scientific rigor as a fundamental research principle in our discipline.<br>3. Increase appreciation of statistical methods as an important methodological tool in offering accurate answers to research questions in our discipline.<br>As we mentioned above, students who take this class with me are already familiar with my pedagogical style. Therefore, most of you would not meet any surprise; yet differently from other courses previously taken with me, this course asks for way more work and systematic engagement. We will continue with classroom lectures, data collection through public opinion surveys and data analysing with the statistical program Stata. I ask all students to convert this class' objectives in their own professional development objectives.<br><br>We can comprehend this course's objectives as follows:<br>1. Appropriation of theoretical knowledge in statistical analysis to undertake research in political science.<br>2. Appropriation of the technical skills to undertake research in political science.<br>3. Preparation to independently perform basic commands on the statistical program Stata.<br>4. Preparation to take over a diploma thesis with statistical analysis of survey data. | | | |
| **Learning outcomes** | 1. Students build a public opinion sample through cellphone Random Digit Dial;<br>2. Students gain confidence in using statistical packages (Stata) in statistical analysis. | | | |

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| | 3. Students write a lab work report with the statistical analysis of the data that they have collected themselves;<br>4. Some students individually or rallying together write research papers to present to student academic conferences |
| **Content** | **Weekly program** — **Week**<br>Introduction — 1<br>Kampionimi dhe matja — 2<br>Statistikat përshkrimore (detyrë shtëpie ose klase) — 3<br>Shpërndarjet probabilistike — 4<br>Inferenca statistikore: vlerësimi — 5<br>Inferenca statistikore: testet e domethënshmërisë — 6<br>Punë laboratori 1 (detyrë shtëpie) — 7<br>Krahasimi i dy grupeve — 8<br>Analiza e shoqërimit mes variableve kategorikë — 9<br>Regresioni dhe korrelacioni linear (detyrë shtëpie ose klase) — 10<br>Punë laboratori 2 — 11<br>Hyrje në marrëdhëniet multivariate — 12<br>Regresioni dhe korrelacioni multivariate — 13<br>Analiza e variances (ANOVA) — 14<br>Punë laboratori 3 (detyrë shtëpie ose klase) — 15 |
| **Teaching methods** | **Activity** — **Weight (%)**<br>1. Lectures and seminars — 80%<br>2. Lab work — 20%<br>3. Practicum/fieldwork (optional and outside the academic timeline) |
| **Academic obligations** | **Evaluation activity** — **Number** — **Week** — **Weight (%)**<br>1. Homework/classwork — 4 — 3, 7,10,15 — 60%<br>2. Lab work report — 3 — 8,12,16 — 30%<br>3. Fieldwork/optional research paper — 1 — 10%<br><br>**Selecting students for fieldwork**<br>Bazed on previous experiences, now on not every student will participate in fieldwork. After the first homework, I will select a number of students to join our research team. Students will be free to take or leave my offer without any consequences. Students who will decline my offer or who will not be invited would write a research paper to take the necessary scores for the grade. Students who will be selected for our research team would work with me in data collection and analysis, conference participation and publications. I will apply strictly academic criteria in selecting students for fieldwork such as high results in the first homework, lecture attendance and participation and |
| **Sources and concretisation tools** | **Tools** — **Number**<br>1. Classroom — 1<br>2. Computer lab — 1<br>3. Moodle<br>4. Software: STATA, iziSurvey — 2<br>5. Projector — 1<br>6. Transportation vehicle for fieldwork — 1 |

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| **Activity and load** | **Activity type** | **Weekly hours** | **Weight total** |
| | 1. Lectures & seminars | 2 | 30 hours |
| | 2. Laboratory work | | 6 hours |
| | 3. Practicum/fieldwork | | 5 days |
| | 4. Independent study | | |
| | 5. Homework/classwork | | 24 hours |
| | 6. Lab work report | | 18 hours |
| | 7. Total | | 83 |
| **Literature/references** | 1. Alan Agresti & Barbara Finlay. 2009. *Statistical Methods for the Social Sciences*, 4th edition. Upper Saddle River, NJ: Pearson.<br>2. Rahmil Nuhiu. *Bazat e Statistikës*. | | |
| **Contact** | Ridvan Peshkopia: ridvan.peshkopia@ubt-uni.net | | |
| **UBT ACADEMIC BEHAVIOR AND STANDARDS** | The UBT regulations condemn and punish academic dishonesty If I catch any student with plagiarism and cheating, the student will fail this class. I do not need excuses and Ii will not take them.<br><br>Also, attending this course is mandatory. As you could learn from students of previous generations, if you do not regularly attend this course, you will be asked to attend it the next academic year. If you miss classes more than three times, you need to retake the class. Also, if you come later than halftime through the class, I will not consider you as attending that particular class.<br><br>You could use light food, snacks and refreshments during my classes. You could keep your cellphones on, but leave them in your pockets or bags. You should not talk/whisper to your fellow students about the goal of Milan last night, the worn-down blue jeans discounts or the Gold AG very last hit. If I catch you distracting my lecture and your fellow students, I will ask you to leave the classroom. | | |
| **Note** | Lecturer may adjust this syllabus in order to better achieve course's objectives. The students and the Department of Security Studies will be timely informed about those changes | | |