***Syllabus***

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| **Department** | **Geography** | | | | | | | | | | | | | | | **Year** | | | | | | | 2024/  2025 |
| **Course** | Climatology | | | | | | | | | | | | | | | **ECTS** | | | | | | | **2** |
| **Study programme** |  | | | | | | | | | | | | | | | | | | | | | | |
| **Level of study programme** | Undergraduate | | | Graduate | | | | | | Integrated | | | | | | Postgraduate | | | | | | | |
| **Type of study programme** | Single major  Double major | | | University | | | | | | Professional | | | | | | Specialized | | | | | | | |
| **Year of study** | 1 | | | 2 | | | | | 3 | | | 4 | | | | | | | | | 5 | | |
| **Semester** | Winter  Summer | | | I | | | | | | II | III | | | | | IV | | | | | | | V |
| VI | | | | | | VII | VIII | | | | | IX | | | | | | | X |
| **Status of the course** | Compulsory | | | Elective | | | | | | Elective course offered to students from other departments | | | | | | **Teaching Competencies** | | | | | | | YES  NO |
| **Workload** | **15** | **L** |  | **S** | |  | | **E** | | **Internet sources for e-learning** | | | | | | | | | | | | | YES  NO |
| **Location and time of instruction** | **Wednesday, 10.oo-11.00** | | | | | | | | | **Language(s) in which**  **the course is taught** | | | | | | | | English | | | | | |
| **Course start date** | **October 9, 2024** | | | | | | | | | **Course end date** | | | | | | | | January 15, 2025 | | | | | |
| **Enrolment requirements** |  | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | |
| **Course coordinator** | Robert Lončarić | | | | | | | | | | | | | | | | | | | | | | |
| **E-mail** | rloncar@unizd.hr | | | | | | | | | | | | **Consultation hours** | | | | | | | Thursday, 12.00-13.00 | | | |
| **Course instructor** |  | | | | | | | | | | | | | | | | | | | | | | |
| **E-mail** |  | | | | | | | | | | | | **Consultation hours** | | | | | | |  | | | |
| **Assistant/**  **Associate** |  | | | | | | | | | | | | | | | | | | | | | | |
| **E-mail** |  | | | | | | | | | | | | **Consultation hours** | | | | | | |  | | | |
| **Assistant/**  **Associate** |  | | | | | | | | | | | | | | | | | | | | | | |
| **E-mail** |  | | | | | | | | | | | | **Consultation hours** | | | | | | |  | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | |
| **Mode of teaching** | Lectures | | | | Seminars and workshops | | | | | Exercises | | | | | E-learning | | | | | | | | Field work |
| Individual assignments | | | | Multimedia and network | | | | | Laboratory | | | | | Mentoring | | | | | | | | Other |
| **Learning outcomes** | | | | | Developing the ability to perceive the connection between climate elements and modifiers, the interrelationship between energetics and atmospheric dynamics, and an analytical and synthetic approach when considering complex connections and relationships between climate phenomena and the natural/anthropogenic environment | | | | | | | | | | | | | | | | | | |
| **Learning outcomes at the Programme level** | | | | | - Demonstrate knowledge and understanding of basic terms, principles and theories in geography  - Recognize the physical and geographical elements of space - Demonstrate understanding of various changes in the environment  - Connect the physical basis of space with socio-economic processes  - Explain cause-and-effect relationships between certain phenomena and processes in space  - Apply acquired knowledge in physical, social, applied and regional geography in professional work  - Explain the natural-geographic characteristics of certain continents and regions of the world | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | |
| **Assessment criteria** | Class attendance | | | | Preparation for class | | | | | Homework | | | | | Continuous evaluation | | | | | | | | Research |
| Practical work | | | | Experimental work | | | | | Presentation | | | | | Project | | | | | | | | Seminar |
| Test(s) | | | | Written exam | | | | | Oral exam | | | | | Other: | | | | | | | | |
| **Conditions for permission to take the exam** | At least 50% of course attendance | | | | | | | | | | | | | | | | | | | | | | |
| **Exam periods** | Winter | | | | | | | | | Summer | | | | | | | Autumn­ | | | | | | |
| **Exam dates** | Not fixed | | | | | | | | |  | | | | | | |  | | | | | | |
| **Course description** | The course deals with the concept of climatology, climatic elements and modifiers. The composition of the atmosphere, in which the thermodynamic processes that determine the weather and climatological conditions on Earth, take place, is processed. In the rest of the course, individual climate elements are covered (temperature, air pressure, wind, air masses and climate fronts, air humidity and precipitation). | | | | | | | | | | | | | | | | | | | | | | |
| **Course content** | 1. Climate – basic concepts  2. Atmosphere  3. Solar and terrestrial radiation  4. Temperature  5. Air pressure  6. Winds  7. Air masses  8. Precipitation  9. Global atmospheric circulation  10. Climate classification  11. Climate changes | | | | | | | | | | | | | | | | | | | | | | |
| **Required reading** | Barry R. G., Chorley, R. J. (2003): Atmosphere, weather and climate, Routledge.  https://open.oregonstate.education/climatechange/ | | | | | | | | | | | | | | | | | | | | | | |
| **Additional reading** |  | | | | | | | | | | | | | | | | | | | | | | |
| **Internet sources** | https://www.ventusky.com/ | | | | | | | | | | | | | | | | | | | | | | |
| **Assessment criteria of learning outcomes** | Final exam only | | | | | | | | | | | | | | | | | | | | |  | |
| Final written exam | | | | | | Final oral exam | | | | | | | Final written and oral exam | | | | | | | | Practical work and final exam | |
| Only test/homework | | | | Test/homework and final exam | | | | | Seminar paper | | | | Seminar paper and final exam | | | | | Practical work | | | | other forms |
| **Calculation of final grade** | 20% test, 80% final exam | | | | | | | | | | | | | | | | | | | | | | |
| **Grading scale** | <60% | | | | % Failure (1) | | | | | | | | | | | | | | | | | | |
| 60-70% | | | | % Satisfactory (2) | | | | | | | | | | | | | | | | | | |
| 70-80% | | | | % Good (3) | | | | | | | | | | | | | | | | | | |
| 80-90% | | | | % Very good (4) | | | | | | | | | | | | | | | | | | |
| 90-100% | | | | % Excellent (5) | | | | | | | | | | | | | | | | | | |
| **Course evaluation procedures** | Student evaluations conducted by the University  Student evaluations conducted by the Department  Internal evaluation of teaching  Department meetings discussing quality of teaching and results of student evaluations  Other | | | | | | | | | | | | | | | | | | | | | | |
| **Note /Other** | In accordance with Art. 6 of the *Code of Ethics* of the Committee for Ethics in Science and Higher Education, “the student is expected to fulfil his/her obligations honestly and ethically, to pursue academic excellence, to be civilized, respectful and free from prejudice.”  According to Art. 14 of the University of Zadar's *Code of Ethics*, students are expected to “fulfil their responsibilities responsibly and conscientiously. […] Students are obligated to safeguard the reputation and dignity of all members of the university community and the University of Zadar as a whole, to promote moral and academic values and principles. […]  Any act constituting a violation of academic honesty is ethically prohibited. This includes, but is not limited to:  - various forms of fraud such as the use or possession of books, notes, data, electronic gadgets or other aids during examinations, except when permitted;  -various forms of forgery such as the use or possession of unauthorised materials during the exam; impersonation and attendance at exams on behalf of other students; fraudulent study documents; forgery of signatures and grades; falsifying exam results.”  All forms of unethical behaviour will result in a negative grade in the course without the possibility of compensation or repair. In case of serious violations the *Rulebook on Disciplinary Responsibility of Students at the University of Zadar* will be applied.  In electronic communications only messages coming from known addresses with a first and a last name, and which are written in the Croatian standard and appropriate academic style, will be responded to.  This course uses the Merlin system for e-learning, so students are required to have an AAI account. /*delete if necessary*/ | | | | | | | | | | | | | | | | | | | | | | |