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| General Information | |
| Academic subject | Agronomy |
| Degree course | Agricultural sciences and technologies |
| Curriculum | |
| ECTS credits | 6 |
| Compulsory attendance | No |
| Language | Italian |

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| Subject teacher | Name Surname | Mail address | SSD |
| | Eugenio Cazzato | eugenio.cazzato@uniba.it | AGR 02 |

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| ECTS credits details | Areas | SSD | Credits |
| Basic teaching activities | | AGR 02 | 6 |

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| Class schedule | |
| Period | First semester |
| Year | Second |
| Type of class | Lecture- workshops |

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| Time management | |
| Hours | 150 |
| In-class study hours | 60 |
| Out-of-class study hours | 90 |

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| Academic calendar | |
| Class begins | 09/28/2020 |
| Class ends | 01/22/2021 |

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| Syllabus | |
| Prerequisites/requirements | |
| Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS) | <p><i>Knowledge and understanding</i></p> <ul style="list-style-type: none"> ○ Knowledge of climatic factors, agronomic aspects of soil, water-soil relationships, tillage techniques, dry farming, irrigation and fertilization techniques, crop systems, weed control and agro-ecosystems. <p><i>Applying knowledge and understanding</i></p> <ul style="list-style-type: none"> ○ Ability to understand the influence of the cultivation techniques, the climate and the physical, chemical and microbiological characteristics of the soil on the yield and quality of crops. <p><i>Making informed judgements and choices</i></p> <ul style="list-style-type: none"> ○ Ability to carry out a critical analysis of the effects of the cultivation techniques, the climate and the physical, chemical and microbiological characteristics of the soil on the production and quality of agricultural crops. <p><i>Communicating knowledge and understanding</i></p> <ul style="list-style-type: none"> ○ Ability to describe the effects of cultivation techniques on the soil-plant-atmosphere system. <p><i>Capacities to continue learning</i></p> <ul style="list-style-type: none"> ○ The expected learning capacities, in terms of knowledge and skills, are listed in Annex A of the Study Course Regulations (expressed through the European Degree Program descriptions) |

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| Contents | The agroecosystem and its components: soil and atmosphere; Productivity of plant communities. Excessive water management and irrigation. Protective structures. Tillage. Fertilization. Weed management. Reproduction and propagation. Crop consociations and rotations. Farming systems: conventional, conservative, biological, precision. Dry farming. |
| Course program | |
| Bibliography | <ul style="list-style-type: none"> ○ Ceccon P., Fagnano M., Grignani C., Monti M., Orlandini S., 2017. Agronomia. EDISES, Napoli ISBN 978 88 7959 965 8 ○ Giardini L.: L'AGRONOMIA (per conservare il futuro), Patron editore, Bologna, 2012 ○ Notes of lectures distributed during the course. |
| Notes | |
| Teaching methods | Lectures will be presented through PC assisted tools (Powerpoint, Adobe Acrobat, ect.). |
| Assessment methods (indicate at least the type written, oral, other) | <p>The exam consists of an oral exam on the topics developed during the hours of lecture and theory and practice in the classroom and in the laboratory / production farms, as reported in the Academic Regulations for the Master Course "STA" (Art. 9) and the plan study (Annex A).</p> <p>The evaluation of the student's preparation is based on pre-established criteria, as detailed in Annex A of the Academic Regulations for the Degree Course "Agricultural sciences and technologies".</p> <p>For students who have made the test of exemption, the examination of profit assessment is of thirty, and averaging the obtained votes.</p> |
| Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are.) | <p>Knowledge and understanding</p> <ul style="list-style-type: none"> ○ Assess the ability to understand and highlight the influence of the cultivation techniques, climate and physical, chemical and microbiological characteristics on the yield and quality of crops. <p>Applying knowledge and understanding</p> <ul style="list-style-type: none"> ○ Ability to describe the effects of the main aspects of growing technique on the agronomic and environmental response of the soil-plant-atmosphere system. <p>Making informed judgements and choices</p> <ul style="list-style-type: none"> ○ To make reasonable hypotheses about the effects of the growing techniques, the climate and the physical, chemical and microbiological characteristics of the soil on the yield and quality of agricultural crops. <p>Communicating knowledge and understanding</p> <ul style="list-style-type: none"> ○ Assessment of personal abilities, aimed at communication and judgment, both on the technical and on the human and ethical level. <p>Capacities to continue learning</p> |

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| | <ul style="list-style-type: none">○ The assessment of the student's preparation is done on the basis of predefined criteria, as detailed in Annex A of the Master's Degree Course Code. For students who have supported the exemption test, the assessment of the profit test is expressed in thirtieth and averaging the votes obtained. |
| Further information | Visiting hours: every day from 09:30 to 10:30 in the teacher's room by appointment agreed by e-mail. |