

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Agro climatology				
<b>Head of course</b>	PhD Melita Zec Vojinović, Senior Lecturer				
<b>Study programme</b>	Professional undergraduate study Mediterranean Agriculture				
<b>Status of a course</b>	Elective				
<b>Year of study</b>	1	<b>Semester</b>	II	<b>ECTS credits</b>	4
<b>Teaching plan (L + E + S+ Pr)</b>	2+0+1+0				
<b>Goals of a course</b>					
Introduce students to basic climatologically characteristics and their impact on plant species. Introduce students to ways of collecting, processing and interpreting relevant climatologically data. To equip students to select measures for the protection of crops against adverse meteorological phenomena					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
<p>Outcome 2: Recommend the production technology for vegetables and medicinal plants outdoors and in protected areas according to the requirements of a certain species, and evaluate the quality of vegetables and aromatic herbs on the basis of internal and external quality</p> <p>Outcome 3: Prepare a plan for the cultivation of Mediterranean crops, including economic and cultivation elements.</p> <p>Outcome 4: Perform the care of perennial plantations of Mediterranean crops in accordance with the cultivation form and maintain them in view of the technological and ecological conditions of production.</p> <p>Outcome 5: Design irrigation models based on water balance and apply classic and special irrigation models.</p>					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Collect and document climate data relevant to the cultivation of Mediterranean agricultural crops</li> <li>2. Analyse meteorological parameters for the cultivation of Mediterranean agricultural crops</li> <li>3. Use meteorological instruments</li> <li>4. Prepare a water balance in the soil</li> <li>5. Propose measures for the protection of agricultural crops from adverse meteorological phenomena</li> </ol>					
<b>Content of a course</b>					
Climate. Light. Quality or composition of sunlight. Sunlight intensity. Daylight duration. Heat. Heating of land and water areas. Mean, average and extreme air temperatures. Daily and annual temperature change. Importance of heat as vegetation factor. Temperature sums for particular agricultural crops. Minimal, optimal and maximal temperatures. Air humidity. Water circulation in environment. Content of water steam in air. Importance of air humidity in agricultural production. Clouds and mists. Classification of clouds. Cloudiness. Rainfalls. Types of rainfalls. Monthly and annually recorded quantities of rainfall. Wind and atmospheric pressure. How wind occurs. Types of winds. Influence of wind on agricultural production. Meteorological instruments. Organisation of meteorological service in Croatia. Climate in Croatia.					
<b>Teaching modes</b>	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
<b>Comments</b>					
<b>Students' obligations</b>					

**Grading, evaluation and monitoring of students' work continuously during lectures and exams**

Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.

**Continuous check-up:**

Outcomes	Assignment	Demonstration	Seminar work	Home assignment	Threshold	Max
Outcome 1	15				7.5	15
Outcome 2	20				10	20
Outcome 3		15			7.5	15
Outcome 4				20	10	20
Outcome 5			30		15	30
Percentage of ECTS	2	0,5	1	0,5	2	4
Total	50%	12,5%	25%	12,5%	50 %	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

**Exam term:**

Outcomes	Written exam	Oral exam	Max
Outcome 1	15		15
Outcome 2	20		20
Outcome 3	15		15
Outcome 4	20		20
Outcome 5	24	6	30
Percentage of ECTS	3,5	0,5	4
Total	90%	10%	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

**Grading:**

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome.

If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good(4)	B
60,00 – 74,99	Good(3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

**Obligatory literature**

1. Penzar I., Penzar B. (2000) Agrometeorologija, Školska knjiga, Zagreb
2. Peremin Volf T., Dadaček N. (2008) Agroklimatologija, Visoko gospodarsko učilište, Križevci
3. Teaching materials, professional and scientific articles

**Additional literature**

1. Butorac, A., Opća agronomija, udžbenik, Školska knjiga Zagreb, str. 647, 1999., izabrana poglavlja
2. Mihalić, V., Bašić, F., Temelji bilinogojstva, udžbenik za srednje Poljoprivredne škole, Školska knjiga, str. 212, Zagreb 1997., izabrana poglavlja



