

**Biotechnical Faculty / CONTINENTAL FRUIT GROWING AND MEDICAL PLANTS /**
  
**AGROMETEOROLOGY**

<b>Course:</b>	AGROMETEOROLOGY			
<b>Course ID</b>	<b>Course status</b>	<b>Semester</b>	<b>ECTS credits</b>	<b>Lessons</b> (Lessons+Exercises+Laboratory)
2854	Mandatory	2	4	2+1+0
<b>Programs</b>	CONTINENTAL FRUIT GROWING AND MEDICAL PLANTS			
<b>Prerequisites</b>	-			
<b>Aims</b>	Acquaintance of students with the basic meteorological and climatic factors that significantly affect agricultural production. Possibilities of mitigating the consequences of unfavorable meteorological factors			
<b>Learning outcomes</b>	After successfully completing the course, students will be able to: • Explain the concepts of meteorological elements and phenomena and their importance for plant production, • Knows the principle of operation and uses instruments to determine meteorological parameters, • Takes necessary measures to protect cultivated crops from unfavorable factors (drought, frost, wind, hail, etc.) • Uses and creates prognostic and climate models and adapts agrotechnical operations to weather conditions and phenophases of cultivated crops.			
<b>Lecturer / Teaching assistant</b>	Milic Curovic			
<b>Methodology</b>	Lectures, exercises (theoretical and practical), preparation of seminar papers, consultations			
<b>Plan and program of work</b>				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction; division of biometeorology; development of agrometeorology, connection with related disciplines			
I week exercises	Basic terms in agrometeorology			
II week lectures	Tasks, importance of agrometeorology; agrometeorological bulletins			
II week exercises	Organization and agrometeorological measurements in Montenegro;			
III week lectures	Measurement of meteorological parameters; Meteorological stations;			
III week exercises	Instruments for measuring meteorological parameters			
IV week lectures	The importance of solar radiation and its influence on the growth and development of plants; photosynthesis, photoperiodism			
IV week exercises	Measurement of the intensity of solar radiation and the duration of exposure to sunlight, remote detection			
V week lectures	Water cycle, evaporation, clouds and precipitation			
V week exercises	Principle of operation of evaporimeters, Types of clouds			
VI week lectures	Climatology, climate models			
VI week exercises	Köppens formula and Walters climate diagram			
VII week lectures	Colloquium I			
VII week exercises	Hail and anti-hail protection			
VIII week lectures	The influence of temperature, precipitation and the influence of wind on the growth and development of plants,			
VIII week exercises	The role, types and formation of wind protection belts			
IX week lectures	Frost, types of frost, overwintering of agricultural crops			
IX week exercises	Anti-frost measures			
X week lectures	Drought, types of drought, impact of drought on plants.			
X week exercises	Measures to combat drought			
XI week lectures	Phenology, phenological gradient and factors affecting the phenological cycle,			
XI week exercises	Phenometry, phenological observations			
XII week lectures	Plant and soil, heat and water capacity of soil			

XII week exercises	Soil erosion and anti-erosion protection measures					
XIII week lectures	Climate change; Preservation of the environment					
XIII week exercises	The impact of climate change on plants					
XIV week lectures	Colloquium II					
XIV week exercises	Presentation and delivery of seminar papers					
XV week lectures	Contemporary trends in agrometeorology					
XV week exercises	Remedial colloquium					
<b>Student workload</b>	2+1 Weekly (4 ECTS) Weekly: 2 credits x 40/30 = 2 hours 40 min. Structure: 2 hours of lectures, 40 minutes of independent work, including consultations. During the semester: Classes and final exam: (2 hours and 40 minutes) x 16 = 42 hours and 40 minutes Necessary preparations before the beginning of the semester (administration, registration of certificates): 2 x (2 hours and 40 minutes) = 5 hours and 20 minutes Total load for the subject: 2 x 30 = 60 Additional work: for exam preparation in the make-up exam					
<b>Per week</b>			<b>Per semester</b>			
<b>4 credits x 40/30=5 hours and 20 minuts</b> 2 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises <b>2 hour(s) i 20 minuts</b> of independent work, including consultations			Classes and final exam: <b>5 hour(s) i 20 minuts x 16 =85 hour(s) i 20 minuts</b> Necessary preparation before the beginning of the semester (administration, registration, certification): <b>5 hour(s) i 20 minuts x 2 =10 hour(s) i 40 minuts</b> Total workload for the subject: <b>4 x 30=120 hour(s)</b> Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) <b>24 hour(s) i 0 minuts</b> Workload structure: <b>85 hour(s) i 20 minuts (cources), 10 hour(s) i 40 minuts (preparation), 24 hour(s) i 0 minuts (additional work)</b>			
<b>Student obligations</b>			Attending classes and excercises, colloquiums and tests, preparation of seminar papers, etc			
<b>Consultations</b>			Monday 12.30			
<b>Literature</b>			1. Otorepec, S. (1998): Agrometeorologija, Nolit, Beograd.; 2. Lalić, B., et al. (2021): Meteorologija i klimatologija za agronome; Poljoprivredni fakultet, Novi Sad 3. Mihailović, D. (2017): Meteorologija, Poljoprivredni fakultet, Novi Sad 4. Petrović, N. (2006): Meteorologija i klimatologija u biotehnici. Poljoprivredni fakultet Univerziteta u Beogradu.			
<b>Examination methods</b>			Two colloquiums with 20 points each, seminar paper up to 5 points, attendance and activity during class up to 5 points and final exam up to 50 points A passing grade is obtained if more than 50 points are accumulated cumulatively Rating (Number of points): A (≥ 90 to 100 points); B (≥ 80 to 90); C (≥ 70 to 80); D (≥ 60 to 70); E (≥ 50 to 60) F (less than 50)			
<b>Special remarks</b>			-			
<b>Comment</b>			-			
<b>Grade:</b>	F	E	D	C	B	A
<b>Number of points</b>	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points