Course title: *NEMATOLOGY*				
Course code	Subject Status	Semester	ECTS credits	Number of hours
291108133	Obligatory	***II***	***3***	***2P+1V***

INFORMATION FOR STUDENTS AND WORK PLAN

Study program is organized: Specialists studies in agriculture. Study program **Plant Production**, field of study **Plant Protection** (duration 2 semesters, 60 ECTS credits, after completing undergraduate studies during 3 years and 180 ECTS credits)		
Prerequisites other subjects (recommendation): There are no requirements for reporting and lecture of this course		
Course aims: The aim of the course is to familiarize students with the morphology, anatomy, ecology, relations with vectors and systematic of nematodes. Teaching the skills of identifying types and symptoms of damage created by nematodes, in order to enable students to make a decision about plant protection.		
The name of teacher and assistant: dr Igor Pajović		
Method of Teaching: Lectures, seminars, consultations, colloquiums and final exam.		
WORK PLAN		
Week and date	Synopsis of lectures (L), exercise (V); Planned form of Assessment (MA: homework, colloquiums, tests)	
Preliminary weeks		Preparation and semester enrollment
I Week	Lecture	Introduction to Nematology, classification and systematization of nematodes
	Exercises	Introduction to nematological laboratory, usage of various taxonomies of nematodes
II Week	Lecture	Morphology and anatomy of nematodes
	Exercises	Microscopy of nematodes, basics
III Week	Lecture	The relationship between nematodes and other living beings (parasitism, phytoparasitism, antagonists, nematophags, predators, vectors of viruses ...); Relationship with vectors; Ecology of nematodes
	Exercises	Demonstration symptoms of nematode attacks on other living beings
IV Week	Lecture	Characteristics of the most important groups, queues, families and genera of phytoparasitic nematodes
	Exercises	Microscopy nematodes in order to distinguish the most important groups of nematodes, advanced
V Week	Lecture	Working techniques with nematodes
	Exercises	The systems of fieldwork with nematodes, sampling
VI Week	Lecture	Working techniques with nematodes, Colloquium I
	Exercises	The systems of fieldwork with nematodes, processing the samples
VII Week	Lecture	Nematodes in orchards and vineyards
	Exercises	Demonstration microscopy - nematodes sampled on fruit trees and vineyards
VIII Week	Lecture	Nematodes on crops
	Exercises	Demonstration microscopy - nematodes sampled on field crops
IX Week	Lecture.	Nematodes of potato plants
	Exercises	Demonstration microscopy - nematodes sampled on potatoes plants
X Week	Lecture	Nematodes on vegetable crops
	Exercises	Demonstration microscopy - nematodes sampled on vegetable crops
XI Week	Lecture	Nematodes in greenhouses I
	Exercises	Demonstration microscopy - nematodes sampled from greenhouses
XII Week	Lecture	Nematodes in greenhouses II, Colloquium II
	Exercises	Demonstration microscopy - nematodes sampled from greenhouses
XIII Week	Lecture	Nematodes on tobacco, ornamental plants and in forests
	Exercises	Demonstration microscopy - nematodes sampled on tobacco, ornamental and forest plants

XIV Week	Lecture	Possibilities of protection against nematodes
	Exercises	Methods of protection from nematodes
XV	Lecture	Possibilities of protection against nematodes
XVI		Final exam
XVII-		Verification of semester and enrollment rating
XVIII-XXI-		Additional lessons, correction of exam period

Responsibilities of students during teaching: the presence of lectures and exercises, doing the homework, tests, seminar paper

Consultations: 2 hours during the week

Load students in hours:

A week: 3 x 40/30=4 hours Structure: 2 hours of lectures 1 hour of exercises 1 hour of individual work of student (preparation for exercises, seminar work) including consultation	***During the semester***: Teaching and the final exam: 4 hours x 16 = 64 hours. Necessary preparation (before semester administration, enrollment and verification): 2 x 4 hours = 8 hours. Total hours for the course: 3 x 30 = 90 hours. Additional work to prepare the corrective final exam, including the exam taking 0-18 hours Structure: 64 hours (teaching) + 8 hours (preparation) + 18 hours (additional work)

State of student during course: Students are required to attend lectures and exercises, seminar work, both tests and final exam.

Recommended literature:

1. Krnjajić Đ. i Krnjajić S. (1987). Fitonematologija.
2. Jama N. (1983). Nematofauna nekih povrtarskih kultura gajenih u zaštićenom prostoru.

***Additional literature*:**

3. Barker K.B., C.C. Carter and Sasser, J.N. (1985). An Advanced Treatise on Meloidogyne: Volume I i II.
4. s'Jacob J.J. and Bezooijen J.V., (1977). A manual for practical work in nematology.

Special remarks for the course:

Teaching (P + V) is performed for a group of 30 students.

Forms of assessment and evaluation:

seminar_____ 10 points
two colloquiums _____ 20 points each (in total 40 points)
final exam_____ 50 points
Passing grade is obtained if the cumulative accumulates at least 51 points.

Learning outcomes:

After completing lectures, exercises and the exam student will be able to:
1. Understand morphological and anatomic structure of nematodes;
2. Explain relation between nematodes and other living creatures, above all vectors;
3. To determinate most important nematodes pests;
4. To use knowledge in plant protection and prevention on nematodes;
5. Use chemical plant protection measures on nematodes.

Teacher who provided the information*:* assistant professor Igor Pajović
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