Study Programme: MSc in Biology	

Degree level: Master degree

Course Title: Nematology

Professor: László Barsi

Required/Elective Course: elective

Number of ECTS: 8

Prerequisites: –

Course Objective: Goal of this course to get acquainted students with general characteristics of free-living and plant parasitic nematodes, and basic techniques used in work with them.

Course Outcome: After finishing the course students will be familiar with general characteristics of free-living and plant parasitic nematodes, and basic techniques used in work with them.

Course Content:

Theoretical part

Free-living and plant parasitic nematodes; Structure and organisation of nematodes; Reproduction by nematodes; Bio-ecology; Evolution of parasitism; Plant nematodes in modern agriculture; Control of plant parasitic nematodes.

Practical part

Sampling procedure: soil and plant material; Nematode extraction; Killing and fixing nematodes; Temporary and permanent slides; Morphology and anatomy of free living and plant parasitic nematodes; Characters used in nematode identification; Use of identification keys.

Reading List:

Ferraz, L.C.C.B. and Brown, D.J.F. 2002. An Introduction to Nematodes: Plant Nematology. A student`s textbook, Pensoft Series Parasitologica No 3. Pensoft, Sofia-Moscow.

Machado, A.C.Z, Siquiera, K.M.S & Araújo Filho, J.V. 2010. Methods and techniques in plant nematology. Amazon Distribution GmbH, Leipzig.

Southey J.F. (ed.) 1970. Laboratory methods for work with plant and soil nematodes. Technical Bulletin 2. Her Majesty's Stationery Office, London.

Weischer, B. and Brown, D.J.F. 2000. An introduction to Nematodes: General Nematology. A student`s textbook, Pensoft Series Parasitologica No 1. Pensoft, Sofia-Moscow.

Total hours:			
Lectures: 2	Practicals:	Other: 2	Student research work: 5

Methods of instruction:

Assessment (maximum number of points 100)			
Requirements	points	**Final exam**	points
Active participation in lectures	30	Practical exam	
Active participation in practicals		Test	20
Test(s) or		Oral exam	20
Pre-exam testing			
Seminar paper	30		
Remark:			