Course Unit Descriptor

Study Programme: Soil, plant and genetics**. Module:** Filed crop production

Course Unit Title: Production of cereals and grain legumes

Course Unit Code: 19.ZB3001

Name of Lecturer(s): Prof. Jovan Crnobarac, PhD; Prof. Dragana Latković, PhD; Assoc. Prof. Goran Jaćimović, PhD

Type and Level of Studies: Master Academic Studies

Course Status (compulsory/elective): Compulsory

Semester (winter/summer): Winter

Language of instruction: English

Mode of course unit delivery (face-to-face/distance learning): face to face

Number of ECTS Allocated: 6

Prerequisites: Agroecology and protection of the agroecosystem

Course Aims:

The aim of the course is to students learn how to achieve higher and stable yields of good quality with satisfactory profitability in Serbia or similar environment and conservation of agroecosystems.

Learning Outcomes:

After the completed field exercises in specific production conditions and written seminar papers students will be able to understand the relationships between requirements of plants and real production conditions. Thus will be able to analyse the production success and the creation of production technology.

Syllabus:

Theory

Next main field crops will be studied: wheat, barley, corn, beans, soybeans, peas. In the teaching process, special attention will be paid to the growing technologies. In addition to theoretical teaching (and consultation), teaching will be held by preparing seminar papers, too.

Practical work

Exercises of the course will consist of practical work in the field under production conditions on actual jobs performed at a given moment. Upon completion of the exercises, students will have to write seminar paper with a detailed description: what has been done, which the failure was made and why that occurred.

Required Reading:

John H. Martin, Richard P. Waldren, David L. Stamp: Principles of Field Crop Production, Pearson Education Inc., Upper Saddle River, New Jersey, Columbus, Ohio, USA, 2006.

Samuel Davies and George Evans: Soybean and Wheat Crops: Growth, Fertilization, and Yield. Nova Science Publishers, Inc., New York, USA. 2009.

Robert G. Hoeft, Emerson D. Nafziger, Richard R. Johnson and Samuel R. Aldrich: Modern corn and soybean production, MCSP Publications; 1st edition, 2000.

Internet and digital sources: Thematic international journals and lecture notes of professor.

Weekly Contact Hours: 4	**Lectures:** 45	**Practical work:** 15

Teaching Methods: Lectures and students group work and consultations.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation	10	oral exam	20
Practical classes	20		
Colloquium	20		
Seminar papers	15+15		