

Course Unit Descriptor

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|---|---------------------|---------------------------|--------|
| <b>Study Programme:</b> Master academic studies of forensics  |                     |                           |        |
| <b>Course Unit Title:</b> Synthetic Drugs and Precursors  |                     |                           |        |
| <b>Course Unit Code:</b> FH-10  |                     |                           |        |
| <b>Name of Lecturer(s):</b> Professor Dr. Ljubica Grbović   |                     |                           |        |
| <b>Type and Level of Studies:</b> Master Academic Degree  |                     |                           |        |
| <b>Course Status (compulsory/elective):</b> Elective  |                     |                           |        |
| <b>Semester (winter/summer):</b> Summer   |                     |                           |        |
| <b>Language of instruction:</b> English   |                     |                           |        |
| <b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face  |                     |                           |        |
| <b>Number of ECTS Allocated:</b> 6  |                     |                           |        |
| <b>Prerequisites:</b> None  |                     |                           |        |
| <b>Course Aims:</b><br>Presenting structures and chemical transformations of selected natural and synthetic drugs to students.  |                     |                           |        |
| <b>Learning Outcomes:</b><br>After successful completion of this course, the student should be able to do following, for forensic purposes:<br>1. to demonstrate knowledge of chemistry of structurally different psychoactive substances;<br>2. independently explain possible ways and methods of illegal production of synthetic drugs;<br>3. proposes appropriate methods of sample analysis and/or decontamination of facilities in which the production of illegal substances was carried out.  |                     |                           |        |
| <b>Syllabus:</b><br><i>Theory</i><br>Classification and description of substances of abuse with psychoactive effect (amphetamine and related compounds, LSD and related compounds, opiates - heroin, cocaine and related compounds, cannabinoids, selected controlled pharmaceutical preparations). Theory, elements and principles of synthetic organic chemistry relevant for the synthesis of certain psychoactive substances.<br><i>Practice</i><br>Selected syntheses of controlled substances; chemical modifications of natural and synthetic drugs in conditions of illegal laboratories. |                     |                           |        |
| <b>Required Reading:</b><br>1. Synthetic drugs - Some Synthetic and forensic features, Pavle Hadžić, Institut „Goša“, Beograd 2015.<br>2. Review and original scientific papers from appropriate area.  |                     |                           |        |
| <b>Weekly Contact Hours:</b> 75   | <b>Lectures:</b> 30 | <b>Practical work:</b> 45 |        |
| <b>Teaching Methods:</b><br>Lectures, experimental work, seminars and consultations.  |                     |                           |        |
| <b>Knowledge Assessment (maximum of 100 points):</b>  |                     |                           |        |
| <b>Pre-exam obligations</b>   | points              | <b>Final exam</b>         | points |
| Seminar(s)  | 50                  | oral exam                 | 50     |