Course Unit Descriptor

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| **Study Programme:** Mechatronics | |
| **Course Unit Title:** Systems for Supervision and Process Visualization | |
| **Course Unit Code: H1501A** | |
| **Name of Lecturer(s):** Gordana Ostojić | |
| **Type and Level of Studies:** Bachelor level | |
| **Course Status (compulsory/elective):** compulsory | |
| **Semester (winter/summer):** summer | |
| **Language of instruction:** English | |
| **Mode of course unit delivery (face-to-face/distance learning):** face-to-face | |
| **Number of ECTS Allocated:** 8 | |
| **Prerequisites:** None | |

**Course Aims:**

The aim of the course is that the students gain knowledge and skills for applying systems for monitoring and visualization of processes in industrial systems.

**Learning Outcomes:**

The outcome of the subject is the knowledge that gives the students the opportunity to apply systems for monitoring and visualization of processes in industrial systems.

**Syllabus:**

Signal acquisition; monitoring and processing of events; process management; data collection from industrial processes; Chronology of events and Analysis; Visualisation process; Calculation and reports; special functions; Telemetry; HMI and MMI interfaces; Displays; WEB oriented systems; surveillance systems for non-industrial processes; security in surveillance systems.

**Required Reading:** Relevant literature in English, tbd

| **Weekly Contact Hours: 6** | **Lectures: 3** | **Practical work: 3** |
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**Teaching Methods:**

Teaching is conducted through lectures and exercises. During the exercises the student is required to do practice-oriented tasks. Evaluation of knowledge is carried out through the subject project and the final exam. The requirement for taking the final exam is that the student must successfully complete the project. The final exam is in written form.

**Knowledge Assessment (maximum of 100 points):**

| **Pre-exam obligations** | points | **Final exam** | points |
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| Group assignment | | Examination Assignment | |
| Exercises | | | |
| Test | | | |
| Test | | | |

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.