

Title <b>Electrical and electronic systems of industry and vehicles</b>	Code <b>10103212710103201265</b>
Field <b>Electrical engineering</b>	Year / Semester <b>4 / 7</b>
Specialty <b>Electric and Computer Systems of Industry and Vehicles</b>	Course <b>core</b>
Hours Lectures: <b>2</b> Classes: -    Laboratory: <b>2</b> Projects / seminars: -	Number of credits <b>7</b>
	Language <b>polish</b>

**Lecturer:**

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**Faculty:**

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**Status of the course in the study program:**

Obligatory subject, Faculty of Electrical Engineering, Field: Electrical Engineering, Profile: Electric and Computer Systems of Industry and Vehicles, Full time undergraduate studies.

**Assumptions and objectives of the course:**

Come to know of theoretical and practical problems about functional properties, diagnostics and exploitation of vehicles (with use of electrical and electronic systems).

**Contents of the course (course description):**

Functional properties, parameters, technical solution, research, diagnostics and typical defects of elements: supply and starting systems, classical and electronic ignition systems, electronic injection systems, lighting installations, signaling and measuring devices. Converters non-electrical quantity on electrical quantity used in vehicles systems - construction, principle of operation, parameters, research, diagnostics and typical defects. Electrical systems of additional equipment of vehicles.

**Introductory courses and the required pre-knowledge:**

Basic knowledge of electrical engineering, electronics and automotive engineering.

**Courses form and teaching methods:**

Lectures, supported by transparencies and slides, laboratory.

**Form and terms of complete the course - requirements and assessment methods:**

Written / oral examination, reports from laboratory.

**Basic Bibliography:**

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**Additional Bibliography:**

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