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| Study program | Type of study (cycle) | | First cycle | |
| | Name of the program | | Physics Education | |
| Name of the course | ELECTRICAL MEASUREMENTS OF NON-ELECTRIC QUANTITIES | | | |
| Course ID | Semester | Course status | ECTS credits | L+E |
| PCM6411 | V or VI | ELECTIVE | 4 | 2+1 |
| Professor | | | | |
| Aims and intended learning outcomes | The objective of the course is for students to acquire the skills of converting non-electrical quantities into electrical quantities in order to process the information received, transfer it to the desired destination and use or store it. | | | |
| Course content | | | | |
| Analogy of mechanical and electrical systems and quantities. Sensors. Measurement of temperature, pressure and speed, and conversion of measured values into electrical quantities. Measuring and converting other sizes such as humidity, density, concentration of desired and unwanted ingredients. Introduction to basic settings for transmitting information from sensors in the form of an electrical or optical signal, and an introduction to the transmission of information over the Internet. | | | | |
| Student workload (hours) | | Grading | | |
| Lectures and Exercises | 45 | Assessment method | Points | |
| Exam preparation | 30 | Partial exam | 40 | |
| Assignments | 10 | Seminar | 20 | |
| Other | 15 | Student activity | 10 | |
| Total | 100 | Final exam | 30 | |
| | | Total | 100 | |
| Literature | | | | |
| 1. Senzori i merenja / Mladen Popović 316696 2. Fizičko-tehnička merenja: merenje neelektričnih veličina električnim putem / Dragan Stanković 1975557 3. Osnove automatike. Dio 1, Mjerenja neelektričnih veličina / Florijan Rajić 152834 | | | | |
| Remarks | | | | |
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