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| Topic | Modernising physics lab II works |
| Topic is suitable for | <ul style="list-style-type: none"> • practical works of bachelor students • graduation thesis of bachelor students • practical works of master students • graduation thesis of master students |
| Contact | Veljo Sinivee (Veljo.sinivee@ttu.ee) |
| Annotation | Several Physics lab II works need modernization. For example work nr.8 (Horizontal component of Earth's magnetic field) should use electronic compass, work nr. 6 (Temperature dependency of metals and semiconductors resistance) should use more precise sensors and converters, etc. Ability to design smartphone apps for mentioned works is recommended. |
| Expectation for candidate | <ul style="list-style-type: none"> - is familiar or at least willing to learn electronics - can design circuits including analog front end and controlling processor - has skills and patience to bring designed prototype to usable form for other students attending the lab |