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| 5.0 credits | 0 h + 60.0 h | 2q |
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| Teacher(s) :                 | Oestges Claude ; Janvier Danielle (compensates Craeye Christophe) ; Dehez Bruno ; Labrique Francis (coordinator) ; Craeye Christophe ;  |
| Language :                   | Français  |
| Place of the course          | Louvain-la-Neuve  |
| Main themes :                | Identical to the contents of the course   |
| Aims :                       | <p>At the end of this project, the students will be able</p> <ul style="list-style-type: none"> <li>- to conceive a small electrical circuit implementing resistors, capacitors, inductors, operational amplifiers, sources and answering to given specifications</li> <li>- so simulate this circuit</li> <li>- to realize this circuit and to test it by using standard measuring equipments.</li> </ul> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>          |
| Content :                    | <ul style="list-style-type: none"> <li>- To conceive a circuit answering to specified requirements</li> <li>- To modelize the circuit. Study of its DC, AC and transient response</li> <li>- To simulate and optimize the circuit</li> <li>- To realize and test the circuit</li> <li>- To explain the differences between the simulated and tested results</li> <li>- To study the limits of the model</li> </ul>  |
| Other infos :                | <p>This project is scheduled in parallel with the following courses :</p> <p>ELEC1350 : Electromagnetism<br/>                 ELEC1370 : Electrical circuits and measurements<br/>                 ELEC1755 : Electricity : advanced topics</p> <p>A close interaction with these courses will be kept in order to ensure the coherence of the whole</p> <p>Prerequisite : none</p> <p>Assessment :<br/>                 Continuous evaluation based on the work performed during the semester, the reports issued and the oral presentation of the work</p> <p>Support :<br/>                 Definition of the project and informations on the i-campus website of the course</p> |
| Cycle and year of study :    | <p>&gt; <a href="#">Bachelor in Engineering : Architecture</a></p> <p>&gt; <a href="#">Bachelor in Engineering</a></p>  |
| Faculty or entity in charge: | ELEC  |