

<b>COURSE TITLE:</b>	<b>Designing Switchgear for Industry 4.0</b>
<b>Institute/Division:</b>	Department of Electrical Engineering Faculty of Electrical and Computer Engineering
<b>Course code:</b>	E-DSI4
<b>Number of contact hours</b>	45
<b>Course duration:</b>	1 semester (Fall/Winter)
<b>ECTS credits:</b>	6
<b>Course description:</b>	Designing Low Voltage switchgear is a complex concept. In lecture, the student will learn the basic equipment and its purpose, and learn how it can be used in protection, control and diagnostics systems. Thanks to basic knowledge about the apparatus, he will be able to design an industrial switchgear. As part of the course, each participant will be able to choose the manufacturer of the equipment that he will want to use in the Project, learn the basic principles of design (including symbols, graphics, and creating electrical diagrams). The final effect of the project will be the preparation of single-line diagrams, main circuit, wirings diagram, and elevation of the switchgear, and the project will be completed with a technical description of it.
<b>Course type:</b>	Lectures (20h), Laboratory (20h), Project (5h)
<b>Literature:</b>	Catalog of the equipment which could be taken as an example of design (ABB, Siemens, Schneider, General Electric, Eaton etc.) Manuals and guidelines from Manufacturers
<b>Assessment method:</b>	Project and laboratory exercises
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