ECSE 463. ELECTRIC POWER GENERATION.

Credits: 3

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

Primary energy resources, conventional and renewable. Electric power generation principles. Rotating and static power conversion, frequency and voltage control. Synchronous and induction generators, design and operation, grid integration requirements of central and distributed generation. Static power converter interfaces, principles and operation. Wind generation principles, control and wind farms. Electrochemical and pumped storage.

- Note: Taught in french. This course is offered by the Power Engineering Institute.
- · (3-1-5)
- Prerequisite: ECSE 362 or ECSE 461

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