

## The Hong Kong University of Science and Technology

Electrical Technology

MECH 3630

3 Credits

Pre-/co-requisites: ELEC 2420

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### Course Description

Theoretical and practical treatment of key elements in electrical technology with industrial applications. Main topics include magnetic circuits, transformers, electrical machines, and applications for industrial automation.

### Assessments:

[List specific assessed tasks, exams, quizzes, their weightage]

Assessment Task	Contribution to Overall Course grade (%)
Assignment	15%
Laboratory	15%
Mid-Term Exam	30%
Final Exam	40%

### Required Texts and Materials

P.C. Sen, Principles of Electric Machines and Power Electronics, 3rd edition, Wiley, 2013.

### [Optional] Additional Resources

Edward Hughes, *et al*, Hughes Electrical and Electronic Technology, 10th edition, Pearson Prentice Hall, 2008.