



Tentative Lecture Plan for EEE 163 (CSE L1/T1 Section B) (Introduction to Electrical Engineering)

Teacher: Hafiz Imtiaz, PhD; Associate Professor
Classroom: MS Teams

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Course Materials:

Lecture Notes	To be supplied
Textbook(s)	C K Alexander and M N O Sadiku, Fundamentals of Electric Circuits, 5th Edition, McGraw Hill, 2016
Reference Book(s)	<ol style="list-style-type: none">1. James W. Nilsson and Susan A. Reidel, Electric Circuits, 9th edition, Prentice Hall, 2011.2. K C A Smith and R E Alley, Electrical Circuits: An Introduction, Cambridge University Press

Contents

Fundamental electrical concepts and measuring units. Direct current: voltage, current, resistance and power. Laws of electrical circuits and methods of network analysis; Introduction to magnetic circuits. Alternating current: instantaneous and r.m.s. current, voltage and power, average power for various combinations of R, L and C circuits, phasor representation of sinusoidal quantities.

Assessment Policy (as per University Rule):

There will be 4 (Four) class tests, each about 20 minutes. The best 3 (Three) will be considered for final grades. The weights of the final grading are:

- Class participation – 10%
- Quizzes – 20%
- Final Exam – 70%