Course Syllabus

Course Code and Name	**EE 26323 –Electric Circuits -2**
Credit and contact hours	**3 (2, 1, 1) (Lecture, Tutorial, Lab)**
Required or Elective	**Required**
Level / Year	**Level (5) / Year (3)**
Course Prerequisite	**EE 26222 Electric Circuits-1**
Textbook	J. Nilsson and S. Riedel, Electric Circuits, Prentice Hall, 2010.
Course Description	This course covers the following topics: Three phase circuits - Magnetically-coupled circuits – Transformer- Computer-aided circuit analysis – Frequency Response - Resonant circuits: series and parallel resonance - Circuit analysis in the S-domain (i.e., using Laplace transform) - First- and Second-Order Circuits: Natural and Forced Response - Two-port networks.
Brief List of Topics to be Covered	1- Three phase circuits. 2- Magnetically coupled circuits- Transformers. 3- Computer-aided circuit analysis. 4- Resonant circuits: series and parallel resonance. 5- Filters (Low, High and Band pass filters), Band reject filters. 6- First- and Second-Order Circuits. 7- Laplace transform applications in Electric Circuits. 8- Two port networks.
Course is prerequisite for	• EE26361 Electrical Machines – 1 • EE26451 Electrical Power Systems – 1