

Indian Institute of Technology Bombay

Dept of Electrical Engineering

Handout 1

General Course Information

EE 101 Electrical & Electronic Circuits

July 21, 2011

EE101: Introduction to Electrical and Electronic Circuits

Time and location: Mon 11:30, Tue 8:30 and Thursday 9:30 @ room IC2
Friday 5:00-6:30 pm @ room **LCT 11, LCT 12, LCT13**

Web page: <http://www.ee.iitb.ac.in/~bsraj/courses/ee101>
Feel free to use the *moodle* link as well.

Instructor:

Prof. Sibi Raj B Pillai
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Phone: 7419
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Assistants:

1) Shivraj Patil, 10323017	2) Vetcham Kumar, 10307026
3) Deepak B, 10307019	4) Dipak Kumar G, 10317005
5) Mayank K C, 10323002	6) Parvathy C, 103070047
7) Monalisa D, 113070050	8) Imran Khan, 103230013

Keywords:

Electrical Circuit Analysis, Transformers and Motors, Electronic Circuits, Amplifiers, Filters, Digital Logic Design.

Prerequisites: (*what you should brush up*)

Matrix Algebra, Calculus, Logical and analytical reasoning.

Course mechanics:

Assignments+Quiz [10 marks],
Midterm exam [35 marks],
Final exam [55 marks]

Reference Material:

1. M. B. Patil, http://www.ee.iitb.ac.in/~sequel/sequel_ee101.html
2. L. S. Bobrow, Fundamentals of Electrical Engineering, Oxford Univ Press, 2010.
3. S. R. Hall, <http://ocw.mit.edu/courses/aeronautics-and-astronautics/16-01-unified-engineering-i-ii-iii-iv-fall-2005-spring-2006/signals-systems/>
4. A. S. Sedra, K. C. Smith and A. N. Chandorkar, Microelectronic circuits, Oxford University Press, 2004.
5. Del Toro, Principles of Electrical Engineering, Prentice Hall, Second Edn 2010.
6. R. J. Tocci, N. S. Widmer, and G. L. Moss, Digital Systems: Principles and Applications, Prentice Hall, 10th edition, 2009.

Note: We will try to be consistent with the notations used in these references. Reference [1] (Prof. Patil's course material), also has details of several alternate textbooks/sources, plus excellent circuit simulation and demo links. Please run the demos and try to experiment. Selected passages, where our understanding somehow lagged the classroom discussions, will be complemented by lecture notes, but this is only on a need basis and will be reliant heavily on the above references.