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, LCT 13

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

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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:

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.