VIT-AP UNIVERSITY

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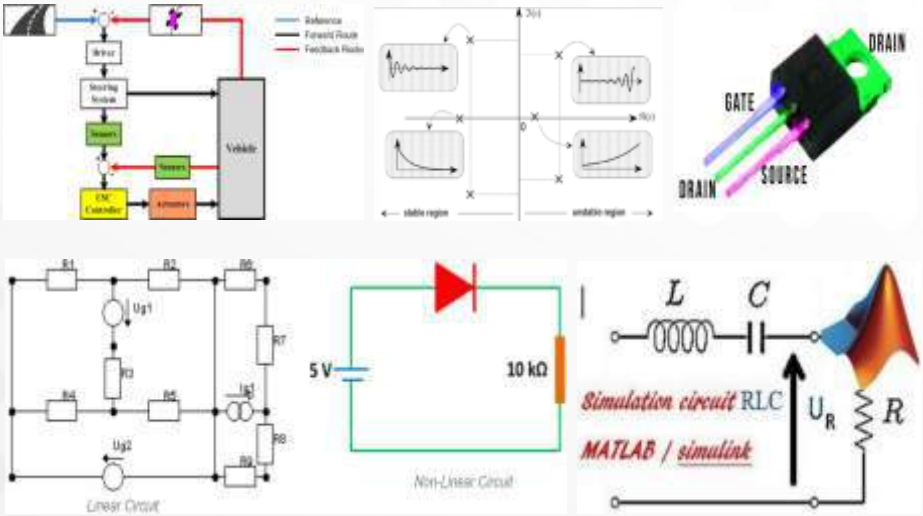
Modelling and Analysis of Linear and Nonlinear Circuits

(A Value Added Course)

offered by

School of Electronics Engineering (SENSE)

In this value added course, the difference between a linear and nonlinear systems is presented. A mathematical treatment of modelling concepts of these systems are dealt with using most general transfer function form and state space model form. This is followed by the modelling of linear and nonlinear circuits. Finally, the modelled system is tested for stability using various plot-based methods and also the effect of system parameters on the stability is also probed. At the end of the course, student will be able to understand the theory behind system modelling and also be able to model real-time systems of known dynamics. The tool used for the analysis is MATLAB/Simulink.



Course Highlights :-

- Introduction to System Modelling
- Modelling of linear circuits
- Modelling of nonlinear circuits
- System stability analysis

EVERY MONDAY 03.00 PM to 05.00 PM

Commence from 21-02-2022.

Certificate after completion of course

Proposed By : Dr. Y. V. Pavan Kumar & Dr. D. John Pradeep