



# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

Permanently Affiliated to JNTUK, Kakinada \* Approved by AICTE, New Delhi \* Accredited by NAAC  
Recognized by UGC Under section 2(f) and 12 (B) of UGC Act 1956  
ADB ROAD, ADITYA NAGARA, SURAMPALEM-533437

## Department of Electrical and Electronics Engineering

Date: 20.06.2017.

To  
The principal  
Aditya College of Engineering & Technology  
Surampalem

Respected sir,

[Through Head of the Department]

Sub: Request for your approval to organize a certification course on "Power systems analysis on MATLAB – reg.

It's our greatest pleasure to bring to your kind notice that, we the Department of Electrical and Electronics Engineering would like to train our B.Tech students in the **Power systems analysis on MATLAB** adapted initially, with the help of our staff; as the present world is moving over the software design & simulations and also is a part of the Electrical and Electronics Engineering. It will be more helpful to the students in theoretical and technical point of view. In this regard we are requesting your permission for further proceedings.

Resource Person : Dr. K V S R MURTHY  
AEC  
Honorarium : Rs. 10000/-

*Forward to principal*

*Us*

*[Signature]*  
Course Coordinator

PRINCIPAL  
Aditya College of  
Engineering & Technology  
SURAMPALEM- 533 437



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## Department of Electrical and Electronics Engineering

Date: 22.06.2017.

### CIRCULAR

All the Electrical students are hereby informed that a one-week program is arranged to enhance the knowledge on **Power systems analysis on MATLAB**, as per the schedule from 24.07.2017. All the interested students can attend the program and utilize the opportunity. The schedule is attached.

Course Coordinator: K.R.K.V.PRASAD

+918309600083

  
Head of the Department

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## Department of Electrical and Electronics Engineering

### Power systems analysis on MATLAB Syllabus

1. Introduction to MATLAB
2. Formation of Y-bus
3. MATLAB program for Formation of Y-bus
4. Solving nodal equations by forward and backward substitution
5. MATLAB program for solving nodal equations by forward and backward substitution
6. Power flow studies by gauss and Newton Raphson method using Zbus
7. MATLAB program for Power flow studies by gauss and Newton Raphson method using Zbus

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Head of the Department

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### Schedule of Power systems analysis on MATLAB:

Day-1:

FN Inauguration of the Program and speakers talk about the objectives of the event

AN Introduction to MATLAB.

Day-2:

FN Introduction to Formation of Y-bus using direct and singular transformation methods

AN MATLAB program for Formation of Y-bus by singular transformation method

Day-3:

FN Solving nodal equations by forward and backward substitution

AN MATLAB program for solving nodal equations by forward and backward substitution

Day-4:

FN Power flow studies by gauss method using Zbus

AN Power flow studies by Newton Raphson method using Zbus

Day-5:

FN MATLAB program for Power flow studies by gauss and Newton Raphson method using Zbus

AN Valedictory

Course Coordinator

Head of the Department

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