



IEEE – MVSR STUDENT BRANCH  
Student Branch Code: 12161 , School Code: 41329276

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## MATLAB WORKSHOP 16<sup>th</sup> and 17<sup>th</sup> February 2017

A two day MATLAB WORKSHOP was organized by PES of IEEE MVSR Student Branch (POWER AND ENERGY SOCIETY) in association with RITUSHA CONSULTANTS PVT.LTD, NOIDA in order to make students aware about the Matlab software and how to use it in their respective project works.

***Student Branch Mentor:***

**Dr.Atul Negi,  
Professor, School of CIS,  
University of Hyderabad.**

***Student Branch Advisor:***

**Mr. V. Ashwini Kumar,  
Assoc.Professor , IT Dept.,  
MVSR Engineering College.**

***Student Branch Counsellor:***

**Dr.T.Anil Kumar  
Professor, ECE Dept.,  
MVSR Engineering College.**

***WIE Student Branch Advisor:***

**Dr. G. Kanaka Durga,  
Professor, ECE Department,  
MVSR Engineering College.**

***PES Student Branch Advisor:***

**Dr.D.Hari Krishna,  
Assoc.Professor, EEE Dept.,  
MVSR Engineering College**

***Student Branch Executive Committee:***

**G.K.Anirudh - Chairperson  
T.Yashwanth- Vice Chairperson  
T.Anirudh – Secretary  
P.Bhanu Teja - Joint Secretary  
G.Srinidhi – Treasurer**

***WIE Affinity Group:***

**B.Jayasree-Chairperson  
Achsah - Vice chair  
N.Jagadeesh - Secretary  
D.Hari Priya - Joint Secretary  
B.Aparna- Treasurer**

***Power and Energy society:***

**Ujwala- Chairman  
Divija-Vice Chair  
Anusha- Secretary  
Alok- Joint Secretary  
Manoj Kumar– Treasurer**

***Membership Drive Head:***

**J.Nikhil Varun Raj**

**Event Details:**

Date: **16<sup>th</sup>, 17<sup>th</sup> Feb, 2017**

Venue: **Mechanical Conference Hall, MVSR Engineering College**

Number of Participants: **80**

The workshop started with a welcome note by Dr.D.HARIKRISHNA, Associate Professor, EEE Dept, Faculty advisor PES, he spoke a few words about IEEE, IEEE PES and explained about the various events under PES and their benefits.



**Dr. D.HARIKRISHNA, Faculty Advisor IEEE MVSR PES addressing the students**

The students were addressed by Dr. V.CHANDRA SEKHAR, Principal, MVSREC about the rules to be followed in a workshop and tips by which a student can make a maximum of it.



**DR.V.CHANDRA SEKHAR, PRINCIPAL MVSREC addressing the students**

The ceremony was followed by a speech by DR.G.RAVINDRANATH, Head, EEE Dept, MVSREC explaining about the importance of Matlab Software and the growth of Matlab technology in modern days.



**DR.G.RAVINDRANATH, HEAD, EEE Dept, MVSREC addressing the students**

**AGENDA OF WORKSHOP:-**

- a) **Introduction to MATLAB**
- b) **Basic Programming**
- c) **Graphs**
- d) **Working with different equations and linear equations**
- e) **Simulink Tool Boxes**
- f) **DSP(Digital Signal Processing), PS(Power Systems) Tool Box**

The instructor for the workshop was **MR.ROHAN KUMAR** from Ritusha Consultants Pvt.Ltd, Noida.



**MR.ROHAN KUMAR** explaining students

**TOPICS COVERED IN THE WORKSHOP:**

| <b>S.NO</b> | <b>TOPIC</b>      | <b>SUB TOPIC</b>  |
|-------------|-------------------|---|
| <b>1</b>    | Introduction      | Introduction to scripts, workspace & variable creations<br>Directory Structures<br>Basic Operations, Expressions  |
| <b>2</b>    | Array             | Arrays Creation<br>Functions of Arrays<br>Stacks and Layers<br>Manipulations Dot Operations   |
| <b>3</b>    | Programming       | Grammar of MATLAB<br>Variables: Introduction to different types of variables<br>Expressions, Operators & Decisions(if-else & switch0<br>Iteration(for & while loop) |
| <b>4</b>    | Graphics          | Graphics: 2D plots<br>Advances with plots, Decorations<br>More 2D plots<br>3D plots   |
| <b>5</b>    | Numerical Methods | Introduction<br>Significance of Discreet time Analysis<br>Differentiation<br>Integration  |
| <b>6</b>    | Simulink          | Introduction<br>Simulink Library<br>Sample model and simulations  |



**Theory Session**



**Practical Session**



**Practical Session (Day-2)**





**Students giving feedback for Matlab Worksahop**



**Memento presented to MR.ROHAN KUMAR by DR.G.RAVINDRANATH, HOD EEE**





**Vote of thanks by Dr.T.ANIL KUMAR, Student Branch Counselor IEEE MVSR SB**



**IEEE PES Student Organizers and Volunteers of MATLAB WORKSHOP**