SRI VENKATESWARA COLLEGE OF ENGINEERING
Pennalur, Sriperumbudur Taluk - 602117

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Solicit your esteemed presence for the

INAUGURATION OF

"FDP on MATLAB for Data Scientists (April5 – April 9,2021)"

Venue	: Online
Date	: 05th April 2021
Time	: 6:30 P.M to 7.30 P.M

Organizing Committee - CSE
Dr. N. Rajeswari, ASP/CSE, SVCE
Ms. T. Padmavathy, AP/CSE, SVCE
Ms. S. Rajalakshmi, AP/CSE, SVCE
Ms. K. Silpaja Chandrasekar, AP/CSE, SVCE

Organizing Committee - INT
Ms. D. Jayanthi, AP/INT, SVCE
Ms. N. Devi, AP/INT, SVCE
Ms. P. Leela Rani, AP/INT, SVCE
Mr. A R. Guru Gokul, AP/INT, SVCE

Coordinators

Approved by,
Dr. R. Anitha,
HOD - CSE

1. **Report on the MATLAB Workshop**

2. **Attendance Report**

3. **Feedback from the Speaker**

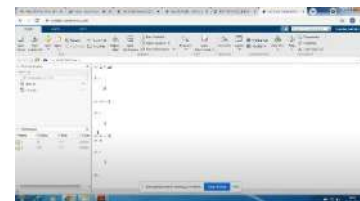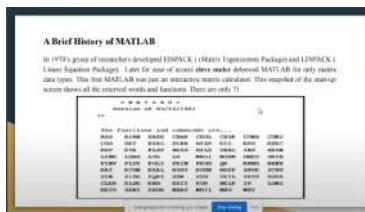4. **Feedback from the Students**

5. **Profile of the speaker**

6. **Executive summary**

7. **Invitation & Agenda**

Reflection Report on the Matlab workshop

The day started with the prayer song. Dr.R.Anitha Prof. and Head/CS and Dr. V.Vidhya Prof. and Head/IT welcomed the speakers of the workshop.

The speaker started with basic topics of Matlab and demonstrated how to work with the Matlab software. The basics such as working with variables, matrices, functions, graphs, deep learning, machine learning concepts were explained in detail. The workshop was so profitable that the participants were able to appreciate the topics taught. The participants had an interactive session during the workshop. Some participants currently doing research projects in the field based on MATLAB cleared their doubts with the speaker after the meeting got over. Participants requested a hands-on session.

Profile of the Speaker

Ms. G.R.Khanaghavalle working as an Assistant professor at Sri Venkateswara College of Engineering. Her research interest focus on text detection. She has published papers in some of the reputed journals. She trained the basics operations performed using the variables and functions.

Ms.S. Rajalakshmi has experience of 10+ years in teaching. She has handled many subjects such as data structures, computer architecture, operating systems, etc. Her research interest focus on cryptography. She explained the operations of matrices using Matlab.

Dr.N.Rajeswari has 20 years of experience in teaching in Sri Venkateswara College of Engineering. Her research interest is speech recognition, facial recognition. She has published many papers in a reputed journal. She has organized many workshops. Currently, she is guiding Ph.D. students. Her main intrigue is to make participants understand the deep learning and machine learning concepts in MATLAB.

Ms. R Bhuvaneswari has experience teaching for about 16 years. Her research interest focuses on image processing using machine learning algorithms. She has published many papers in journals and has also organized many workshops. She carried out Matlab operations during the session.

Ms.D.Jayanthi has teaching experience of about 15 years. Her research interest focuses on video-based processing using machine learning. She has organized many workshops. She explained the basics of MATLAB in the session.

Mr.Rajaram.V has experience of 8+ years in teaching. His research interest focus on wireless sensor networks. He exercised the basics of plots and graphs in Matlab to make the participants easily understand the concepts.

Executive summary:

Following points were covered with hands on training:-

1) **Basics of MATLAB** : MATLAB window, basic commands, use of variables with values, arrays, basic trigonometric functions, operations using the matrix such as addition, subtraction, multiplication, division, powers, transpose, array signs etc.

2) **Function in MATLAB**: Creating a function, defined, declared and used of the user defined functions also.

3) Basic **plot** such as sine function, cosine function, plot of a matrix against a vector, plot editors for given variable and check given system performance.

4) **Live Scrip editor**: It is used for series of MATLAB commands in a single interactive environment. Rn section in live script, create live script functions, etc. was explained.

5) **Simulink**: It is used to model the system and then simulates the dynamic behavior of the system. Control system tools were used to simulate simple PID feedback control system.

6) **Hardware support packages**: It coved how to install third party hardware and used for small projects. Camera, ARM, Arduino, Altera, National Instruments, Raspberry Pi, Xilinx, Android, STMicroelectronics, Keysight can be connected to MATLAB and through Simulink functionality we can implement good projects. For this MathWorks account is required.

7) **Data science**: Machine learning and Artificial intelligence can be used efficiently in MATLAB

8) Exporting Script to presentation was also explained

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Invitation and Agenda

1. **Prayer Song**
2. **Welcome Address**
3. **Short note by HOD**
4. **Introduction of the Speakers**
5. **Lecture by the Speakers**
6. **Vote of Thanks**