



**Sandip Foundation's
Sandip Institute of Technology and Research Centre, Nashik
Department of Computer Engineering**

Activity Report

On

“MATLAB Programming”

(20th – 25th Jan 2014)

Organized by,

**Sandip Foundation's
Sandip Institute of Technology and Research Centre**

Department of Computer Engineering



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Sandip Institute of Technology & Research Centre, Nashik
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Activity Report on “MATLAB Programming”

Name of resource person: Prof. Monika S. Deshmukh, SITRC, Nashik.

Duration of Event: 36 Hrs.

Date of Event: 20th to 25th Jan 2014

Class: BE Computer

Venue:- Project Lab, SITRC.

Aim: To introduce students to the software MATLAB for numerical computations and familiarizing themselves with the Matlab Desktop, basic commands through the Command window and output through the Graph window

Objectives:

1. The course will cover the syntax and semantics of Matlab/Octave including data types, control structures, comments, variables, functions, and other abstraction mechanisms.
2. The goal of this course is to introduce students to the fundamental concepts of Scientific Programming using Matlab .
3. understand the fundamental abstractions in procedural programming.
4. Understand the matlab specific compound data types

Outcome:

At the end of this course students are able

1. To write MATLAB codes.
2. To do own Calculation without any problem using MATLAB.
3. Do own calculations and promote themself for better jobs and positions.

Total No. of Participants:- 65

Course Structure

| Sr. No. | Content | Duration (in Hrs.) |
|---------|---|--------------------|
| 1 | Introduction | |
| 1.1 | Matlab user Interface | 2 |
| 1.2 | Basic commands | 2 |
| 1.3 | Help topics | 2 |
| 2 | Basic Calculation | |
| 2.1 | Basic arithmetic and order of operations | 3 |
| 2.2 | Exponent & Scientific Notation | 3 |
| 3 | Working with variables | |
| 3.1 | How to Define and Use Variables | 2 |
| 3.2 | Semicolon Effect and Commenting | 2 |
| 4 | Working with vector | |
| 4.1 | Defining Vectors | 2 |
| 4.2 | Basic Operations on Vector | 2 |
| 4.3 | More advanced Operations | 2 |
| 4.4 | Statistics Operations on Vectors | 2 |
| 5 | Working with matrices | |
| 5.1 | Defining Matrices | 1 |
| 5.2 | Basic Operations on Matrices | 1 |
| 5.3 | Matrices Multiplication | 1 |
| 5.4 | Size and Sum of Elements in Matrices | 1 |
| 5.5 | Ones, Zeros and Identity Matrices | 1 |
| 5.6 | Matrix Transpose and Diagonal Elements | 1 |
| 5.7 | Determinant, Inverse and Trace | 1 |
| 5.8 | More advanced Operations | 1 |
| 6 | Introduction to Calculus and Engineering Functions in Matlab | 4 |

Participants List:

| Sr. No. | Name of Student |
|----------------|----------------------------------|
| 1 | BADGE JAGRUTI DILIP |
| 2 | BADHAN DHANASHRI RAMESH |
| 3 | BATLIWALA SAIFUDDIN TAHER |
| 4 | BHATT SIDDHI SUNIL |
| 5 | DALVI NILESH VISHWANATH |
| 6 | DALVI SNEHAL SUBHASH |
| 7 | DEORE ATUL RAJENDRA |
| 8 | DESHMUKH AJINKYA ANILRAO |
| 9 | DUBEY NITEESH CHANDRAMA |
| 10 | GAWALI ARTI BHAUSAHEB |
| 11 | GODSE SAGAR SHANTARAM |
| 12 | GUPTA SHOBHA RAMABHILASH |
| 13 | GUTTE SUJATA RAOSAHEB |
| 14 | JAIN NEHA ANIL |
| 15 | JOSHI HERAMB RAJENDRA |
| 16 | JUNNARE DEEPALI GANGADHAR |
| 17 | KADTAN LALIT BHAGWAN |
| 18 | KATARE ANURADHA CHANDRAKANT |
| 19 | KHAIRE SNEHA ARJUN |
| 20 | KHAN MUJJAMMIL SALIM |
| 21 | KHANDAGALE PRATIK VASANT |
| 22 | KHAPARE SHWETA RAMESH |
| 23 | KOHLI KAWALJEETSINGH JASBIRSINGH |
| 24 | KOHLI SIMRANSINGH AMARJITSINGH |
| 25 | KOKATE SIMANTINI MANIKRAO |
| 26 | KUMBHOJKAR GAURI UMESH |
| 27 | KURMI LAXMIDEVI GAJADHAR |
| 28 | LAMBOLE AVINASH RAGHUNATH |
| 29 | MAHALE KIRAN SHANTARAM |
| 30 | NAIKWADE PRASAD VILAS |
| 31 | NAIR NAKUL RAVINDRA |
| 32 | NAVGHANE SANDEEP KAILAS |
| 33 | PAGAR SAYALI VILAS |
| 34 | PATHAN SHOYEB KARIM |
| 35 | PATIL AJAY RAVINDRA |
| 36 | PATIL ANAMIKA DEEPAK |
| 37 | PATIL HARSHALA SHIVAJI |
| 38 | PATIL PRATIK VIJAY |
| 39 | PATIL RAJESHWARI RAJKUMAR |
| 40 | PATIL RAMESH PANDIT |

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|----|-----------------------------|
| 41 | PATIL SNEHAL DINKAR |
| 42 | RAHATAL RAHUL CHANDRAKANT |
| 43 | RAJ ROSHAN SUNDARRAJ |
| 44 | RAMNATHPUR PARTH UDAY |
| 45 | REGE PRATIK AVINASH |
| 46 | SALUNKHE HRUSHIKESH GAJANAN |
| 47 | SARANGDHAR SAHIL SHEKHAR |
| 48 | SHAH NISHANT DHARMESHKUMAR |
| 49 | SHAIKH SHAHARUKH SAEED |
| 50 | SHARMA RITESH RAMJI |
| 51 | SHARMA SNEHLATA JAIPAL |
| 52 | SHINDE DIPAK DEVIDAS |
| 53 | SINDKAR KUNAL ASHOK |
| 54 | SINGH CHANDAN HIRA |
| 55 | SINGH LAXMAN . |
| 56 | SONAWANE HARSHADA LAKHAN |
| 57 | SONAWANE ROHINI DNYANESHWAR |
| 58 | SONAWANE SANKET JAGDISH |
| 59 | SURYAWANSHI PARIGHA VISHNU |
| 60 | TAJANE VRUSHALI RAMESH |
| 61 | THORAT ASHA CHANDRAKANT |
| 62 | TRIVEDI YASH HARESHKUMAR |
| 63 | UGALMUGALE YASHVANT EKNATH |
| 64 | VISHWAKARMA SUSHMIT MOHAN |
| 65 | YADAV MANOJ LALBAHADUR |

Photograph:



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Co-ordinator

Prof. Rajesh D. Kadu
HOD, Comp Engg. Dept