

2018-19  
ECE



**VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE**  
Near Ramoji Film City, Deshmukhi (V), Yadadri Bhuvanagiri Dist, Telangana - 508 284.  
Affiliated to JNTU Hyderabad, Programmes Accredited by NBA, Approved by AICTE, New Delhi  
EAMCET CODE : VGNT



Date: 10<sup>th</sup> December, 2018

### WORKSHOP PROPOSAL LETTER

To  
HOD  
VITS, Deshmukhi.

Sub:- Request to conduct workshop for A.Y. 2018-19 and  
Sanction of budget for the same:-Regd.

Respected Sir,

We are planning to conduct the workshop on "HANDS-on-training on SCILAB for Signal Processing" for academic year 2018-19 by B. Naresh Kumar, Associate Professor, Dept of ECE, BVRIT, Hyderabad. The HANDS-on-training on SCILAB for Signal Processing workshop is Research trends in the areas of Signal Processing and Image Processing. This course will be organized with theory and practical sessions with total duration of 30hrs for a period of one week from 29-04-2019 to 04-05-2019. The total estimated budget for a smooth conduction of this will be 43,174/-

In this regard I request you to grant permission to conduct the same and allocate the requisite budget.

Thanking you,

Yours faithfully,  
Coordinator

*Harsha*  
Dr. P. A. Harsha Vardhii

#### Expected Amount:

- Resource Person Honorarium: 42,000/-
- Transport for Resource Person: 2550/-
- Flexi: 300/-
- Snack Items: 1450/-
- Stationery: 750/-
- Momento : 1044/-



*OK*  
*Principals*  
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Vignan Institute of Technology and Science  
Deshmukhi, Bhongir Yadadri Dist-508 284

*forwarded to principal sir  
to permit us to organize  
the workshop on "scilab".  
More than 20 faculty will  
be attending the workshop  
to get benefited from scilab  
signal processing programming  
concepts*

*12/12/18*



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
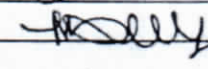
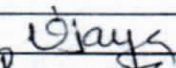
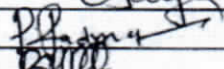
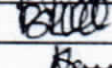
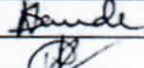





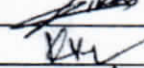

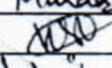

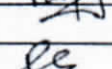
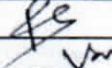
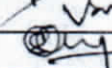
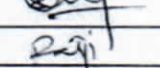


## CIRCULAR

20<sup>th</sup> April 2019

All the Teaching staff here by informed that on 29<sup>th</sup> April to 04<sup>th</sup> May 2019, Department of ECE is conducting a Workshop on "Hands-on-training on SCILAB for Signal Processing" by B. Naresh Kumar, Associate Professor, Dept of ECE, BVRIT, Hyderabad.

  
HOD-ECE

cc: Principal for kind information,  
All ECE Staff.  
Transport Department

S.No.	Name of the teacher	Signature
1	Dr. NALI DINESH KUMAR	
2	Dr. JILLELLA VENKATESWARA RAO	
3	Dr. PALAGIRI ANJANI HARSHA VARDHINI	
4	Dr. BIRADAR VIJAYALAXMI	
5	Mrs. PYDIMARRI PADMAJA	
6	Mr. BETHAPUDI RATNAKANTH	
7	Mrs. NATASHA SOUDE	
8	Mr. PANDI NAGESWARA RAO	
9	Mrs. NELAPATI KOTESWARAMMA	
10	Mr. PINGILI SANDEEP	
11	Mr. VEGURU PRAKASAM	
12	Mr. PATRI UPENDER	
13	Mr. CHEKURI SUDHAKAR	
14	Mr. VIKASKUMAR TIWARI	
15	Mr. K R ANUDEEP LAXMIKANTH	
16	Mr. K MURALI CHANDRA BABU	
17	Mr. V SHANKAR	
18	Mrs. RAMANABOINA KALYANI	
19	Mr. MENNAIAH BATTA	
20	Mr. POTTA SRINIVASU	
21	Mr. CHALLA VAMSHI KRISHNA	
22	Ms. DONTULWAR SWARUPA RANI	
23	Ms. THATIKAYALA RAJESHWARI	
24		





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## Workshop

On

“Hands-on-training on SCILAB for  
Signal Processing”  
29<sup>th</sup> April – 04<sup>th</sup> May 2019

Organized by  
Department of Electronics  
& Communication Engineering



VIGNAN INSTITUTE OF  
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Deshmukhi(V), Pochampally(M),  
near Ramoji Film City, Yadadri  
Bhuvanagiri(dist)-508284

[www.vignanits.ac.in](http://www.vignanits.ac.in)

## About the Course

### Course Objectives:

Learning Scilab from Spoken Tutorials Depending on the level of the user, one can learn any/all of the topics mentioned below. If one cannot complete all the topics, one can complete them later on, through self-learning, as all required Spoken Tutorials are freely available.

Basic level: Getting started with Scilab, Vector Operations, Matrix Operations, Conditional branching, Iterations, Scripts and Functions, Plotting 2D graphs, Introduction to Xcos. Intermediate level: File handling, User defined input and output, Integration, Solving non-linear equations,

Linear equations - Gaussian methods, Linear equations - Iterative Methods, Interpolation, ODE Euler methods, and ODE Applications. Advanced level: Optimization Using Karmarkar Function, Digital Signal Processing, Control systems, discrete systems, Calling User Defined Functions in XCOS, and Simulating a PID controller using XCOS.

Useful Scilab content developed by FOSSEE A major problem with open source software is the lack of documentation. A solution to this problem is the Textbook Companion (TBC). A Scilab TBC is a collection of Scilab code for all solved examples of standard textbooks. The FOSSEE team has coordinated the creation of Scilab TBC for 600 books in science and engineering, all branches, with Scilab code for about

75,000 examples. Such a large collection is not available for any other software, including commercial ones. Students and faculty from various parts of the country have created this collection. FOSSEE provides a handsome honorarium to anyone who creates TBC. One may use the Scilab TBC (1) to understand the steps of examples (2) to do what if studies by changing parameters (3) to locate the syntax for a command and (4) to locate all examples that use a particular command, and so on. Scilab TBC are available at [https://scilab.in/Completed\\_Books](https://scilab.in/Completed_Books),

### Resource Persons:

B. Naresh Kumar, Associate Professor,  
Dept of ECE, BVRIT, Hyderabad

Venue: VITS Seminar Hall

### Coordinators

1. Dr. P. A. Harsha Vardhini, Dept. of ECE.
2. Mr. V. Prakasam, Dept. of ECE.

### Organizing Committee:

The Programme will be coordinated and conducted by Department of Electronics & Communications Engineering.

1. Dr. N. Dinesh Kumar
2. Dr. P. A. Harsha Vardhini
3. Mr. V. Prakasam
4. Mr. P. Nageshwar Rao



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## INSTITUTE VISION AND MISSION

### ABOUT VGNT:

**Vignan Institute of Technology & Science, Hyderabad**, is the flagship Institution that was established in the year 1998 by founder Chairman, Lavu Educational Society, Sri Dr. L. Rathaiah, with the approval of AICTE and affiliated to JNTU Hyd. The College is situated in the serene, lush green atmosphere on the Deshmukhi Village, opposite to Ramoji Film City. The college offers B.Tech. Courses in Civil, EEE, Mechanical, ECE, CSE and EIE. It also offers M.Tech courses. The college is affiliated to the JNTUH, accredited by NBA. The institute has quality infrastructure and well equipped laboratories. Dr. G. Durga Sukumar, Principal takes keen interest in organizing conferences, FDPs, Workshops and Seminars on Advanced Technical topics for the benefit of faculty and students.

### Vision:

To evolve into a center of excellence in Science & Technology through creative and innovative practices in teaching-learning, promoting academic achievement & research excellence to produce internationally accepted competitive and world class professionals who are psychologically strong and

emotionally balanced imbued with social consciousness and ethical values.

### Mission:

To provide high quality academic programmes, training activities, research facilities and opportunities supported by continuous industry - institute interaction aimed at employability, entrepreneurship, leadership and research aptitude among students and contribute to the economic and technological development of the region, state and nation.

### ECE Department Vision

To impart technical education through latest pedagogical techniques and transform students into competent, committed & creative professionals, with abilities to address the challenges of the century for the benefit of society by imparting high quality education with human values and to emerge as a premier center for electronics & communication engineering.

## REGISTRATION FORM

### Workshop

On

**“Hands-on-training on SCILAB for  
Signal Processing”  
29<sup>th</sup> April – 04<sup>th</sup> May 2019**

### Participant's personal Details:

Name:

Designation:

Qualification:

Experience:

Institution:

Address:

Email:

Payment Details:

Payment by Cash / Cheque / Paytm:



Signature of Candidate with date

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Signature of College Official with date



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**Hands-on-training on SCILAB for Signal Processing  
Workshop Program Schedule Day Wise**

Day	Time	Topics to be covered
Day 1 29/04/19	09:30AM - 10:15AM	Inauguration
	10:15AM - 11:15AM	Lab Session on Biomedical Signal Processing Key Points
	11:15AM - 11:30AM	Tea/Coffee Break
	11:30AM - 1:00 PM	An overview on using SCILAB
	1:00PM - 2:00PM	Lunch Break
	2:00PM - 3:30PM	Advantages of Technical Computing Languages, Advantages of Open Source Tools
	3:30PM - 4:30PM	Tea/Coffee Break
	4:30PM - 5:30PM	General Discussion
Day 2 30/04/19	09:30AM - 11:00AM	Time Domain Filtering of Biomedical Signals
	11:00AM - 11:15AM	
	11:15AM - 11:30AM	Tea/Coffee Break
	11:30AM - 1:00 PM	Frequency Domain Filtering of Biomedical Signals The participants were thought about the basics of SCILAB.
	1:00PM - 2:00PM	Lunch Break
	2:00PM - 3:30PM	Code segments were executed on SCILAB to plot waveforms on the screen. The participants were given sample data on which they could work. The students were thought about some time domain filtering concepts and noisy ECG waves were processed to remove noise.
	3:30PM - 4:30PM	Tea/Coffee Break
4:30PM - 5:30PM	Hands on Session	
Day 3 01/05/19	09:30AM - 11:00AM	Code segments were executed on SCILAB to plot waveforms on the screen. The participants were given sample data on which they could work. The students were thought about some time domain filtering concepts and noisy ECG waves were processed to remove noise.
	11:00AM - 11:15AM	
	11:15AM - 11:30AM	Tea/Coffee Break
	11:30AM - 1:00 PM	Then the second part of the session focused on using frequency domain for filtering applications. This included designing of a notch filter to remove power line noise.
	1:00PM - 2:00PM	Lunch Break
	2:00PM - 3:30PM	Hands on Session
	3:30PM - 4:30PM	Tea/Coffee Break
	4:30PM - 5:30PM	Hands on Session
Day 4 02/05/19	09:30AM - 11:00AM	Lab Session on Medical Image Processing Key Points
	11:00AM - 11:15AM	
	11:15AM - 11:30AM	Tea/Coffee Break
	11:30AM - 1:00 PM	Basics of Digital Image Processing
	1:00PM - 2:00PM	Lunch Break
	2:00PM - 3:30PM	Types of Processing on Images, Spatial Domain Filtering, frequency Domain Filtering
	3:30PM - 4:30PM	Tea/Coffee Break
4:30PM - 5:30PM	Hands on Session	

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Day 5 03/05/19	09:30AM - 11:00AM	Key Areas which use Digital Image Processing The participants were thought about the basics of image processing using SCILAB. They were given sample medical images on which they could work on.
	11:00AM - 11:15AM	
	11:15AM - 11:30AM	Tea/Coffee Break
	11:30AM - 1:00 PM	Image Enhancement techniques like Gamma Correction and Brightness Adjustment were thought and applied on sample images. Then noise removal using Spatial Domain Filters like Box Filter and Weighted Average Filters were explained.
	1:00PM - 2:00PM	Lunch Break
	2:00PM - 3:30PM	The Second Part of the session focused on Frequency Domain Filtering Concepts for Noise Reduction.
	3:30PM - 4:30PM	Tea/Coffee Break
	4:30PM - 5:30PM	Hands on Session
Day 6 04/05/19	09:30AM - 11:00AM	CONCLUSION The Workshop helped participants understand the basic signal and image processing techniques and the advantages of SCILAB over MATLAB. It also helped participants understand the method of filtering signals and images.
	11:00AM - 11:15AM	
	11:15AM - 11:30AM	Tea/Coffee Break
	11:30AM - 1:00 PM	CONCLUSION The Workshop helped participants understand the basic signal and image processing techniques and the advantages of SCILAB over MATLAB. It also helped participants understand the method of filtering signals and images.
	1:00PM - 2:00PM	Lunch Break
	2:00PM - 3:30PM	CONCLUSION The Workshop helped participants understand the basic signal and image processing techniques and the advantages of SCILAB over MATLAB. It also helped participants understand the method of filtering signals and images.
	3:30PM - 4:30PM	Tea/Coffee Break
	4:30PM - 5:30PM	Closing Ceremony
Thank You		

Coordinator

  
Dr. P. A. Harsha Vardhini

Mrs. P.A. Harsha Vardhini





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**BVRIT Hyderabad College of Engineering for Women**  
Bachupally, Opp:Rajiv Gandhi Nagar Colony, Nizampet Rd, Hyderabad, A.P 500090

**Speakers Profile**



**B.Tech:** - ECE-PRRM Engineering college, JNTU,  
Hyderabad, 2003

**M.Tech:** - Vardhaman College of Engineering, JNTUH  
2008

**B.Naresh Kumar**  
Associate Professor,ECE Dept.  
[nareshkumar.b@bvr.it.ac.in](mailto:nareshkumar.b@bvr.it.ac.in)

**Teaching Experience –**  
**10 years**



*Naresh Kumar*

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## Hands-on-training on SCILAB for Signal Processing Workshop Attendance Sheet

S. N	Name of the Faculty	College Name	29/04/19	30/04/19	01/05/19	02/05/19	03/05/19	04/05/19
1	Dr. NALI DINESH KUMAR	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	Dr. JILLELLA VENKATESWARA RAO	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3	Dr. PALAGIRI ANJANI HARSHA VARDHINI	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	Dr. BIRADAR VIJAYALAXMI	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5	Mrs. PYDIMARRI PADMAJA	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	Mr. BETHAPUDI RATNAKANTH	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7	Mr. K MURALI CHANDRA BABU	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	Mr. PANDI NAGESWARA RAO	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	Mrs. NELAPATI KOTESWARAMMA	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	Mr. PINGILI SANDEEP	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11	Mr. VEGURU PRAKASAM	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	Mr. PATRI UPENDER	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13	Mr. CHEKURI SUDHAKAR	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14	Mr. VIKASKUMAR TIWARI	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15	Mr. K R ANUDEEP LAXMIKANTH	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16	Mrs. NATASHA SOUDE	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
17	Mr. V SHANKAR	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18	Mrs. RAMANABOINA KALYANI	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19	Mr. MENNAIAH BATTA	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
20	Mr. POTTA SRINIVASU	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21	Mr. CHALLA VAMSHI KRISHNA	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	Ms. DONTULWAR SWARUPA RANI	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	Ms. THATIKAYALA RAJESHWARI	VITS	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
24		VITS						



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Affiliated to JNTU Hyderabad, Programmes Accredited by NBA, Approved by AICTE, New Delhi

**EAMCET CODE : VGNT**



25								
26								
27								
28								

Coordinator

  
Dr. P. A. Harsha Vardhini





**PRINCIPAL**

Vignan Institute of Technology and Science  
Deshmukhi, Bhongir Yadadri Dist-508 284

## INSTITUTE VISION AND MISSION

### ABOUT VGNT:

**Vignan Institute of Technology & Science**, Hyderabad, is the flagship Institution that was established in the year 1998 by founder Chairman, Lavu Educational Society, Sri Dr. L. Rathaiah, with the approval of AICTE and affiliated to JNTU Hyd. The College is situated in the serene, lush green atmosphere on the Deshmukhi Village, opposite to Ramoji Film City. The college offers B.Tech. Courses in Civil, EEE, Mechanical, ECE, CSE and EIE. It also offers M.Tech courses. The college is affiliated to the JNTUH, accredited by NBA. The institute has quality infrastructure and well equipped laboratories. Dr. G. DurgaSukumar, Principal takes keen interest in organizing conferences, FDPs, Workshops and Seminars on Advanced Technical topics for the benefit of faculty and students.

### Vision:

To evolve into a center of excellence in Science & Technology through creative and innovative practices in teaching-learning, promoting academic achievement & research excellence to produce internationally accepted competitive and world class professionals who are psychologically strong and

emotionally balanced imbued with social consciousness and ethical values.

### Mission:

To provide high quality academic programmes, training activities, research facilities and opportunities supported by continuous industry - institute interaction aimed at employability, entrepreneurship, leadership and research aptitude among students and contribute to the economic and technological development of the region, state and nation.

### ECE Department Vision

To impart technical education through latest pedagogical techniques and transform students into competent, committed & creative professionals, with abilities to address the challenges of the century for the benefit of society by imparting high quality education with human values and to emerge as a premier center for electronics & communication



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Deshmukhi, Bhongir, Yadadri Dist-508 284

## REGISTRATION FORM

### Workshop

On

**“Hands-on-training on SCILAB for  
Signal Processing”  
29<sup>th</sup> April – 04<sup>th</sup> May 2019**

### Participant's personal Details:

Name: Dr. BIRADAR VIJAYALAXMI

Designation: Professor

Qualification: Ph.d

Experience: 15 Years

Institution: Vignan Institute of  
Technology & Science

Address: VITS, Deshmukhi, Near Ramoji  
Film City, YadadriBhuvanagiri,  
Hyderabad.

Email: laxmi81181@gmail.com

Payment Details: Cash

Payment by Cash / Cheque / Paytm:

Signature of Candidate with date

*[Signature]*

Signature of College Official with date  
**PRINCIPAL**

*[Signature]*

Vignan Institute of Technology and Science  
Deshmukhi, Bhongir, Yadadri Dist-508 284.



# VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE

Vignan Hills, Near Ramoji Film City, Deshmukhi Vill., Pochampally Mdl., Yadadri Bhuvanagiri Dist. - 508 284. T.S.



## Certificate of Participation

This is to certify that \_\_\_\_\_ Dr. BIRADAR VIJAYALAKSHMI \_\_\_\_\_ from Department of

*Electronics & Communication Engineering of Vignan Institute of Technology & Science has participated in*

*Workshop on "Hands-on-training on SCILAB for Signal Processing" organized by Department of Electronics & Communication*

*Engineering from 29th April – 04th May 2019.*



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Vignan Institute of Technology and Science  
Deshmukhi, Bhongir Yadadri Dist-508 284

*Sankar*

*[Signature]*  
Coordinator

*[Signature]*  
Head of the Department

*[Signature]*  
Principal

## INSTITUTE VISION AND MISSION

### ABOUT VGNT:

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## REGISTRATION FORM

### Workshop

On

**“Hands-on-training on SCILAB for  
Signal Processing”  
29<sup>th</sup> April – 04<sup>th</sup> May 2019**

Participant's personal Details:

Name: Mr. POTTA SRINIVASU

Designation: Assistant Professor

Qualification:M.Tech

Experience:

Institution: Vignan Institute of  
Technology & Science

Address: VITS, Deshmukhi, Near Ramoji

Film City, YadadriBhuvanagiri,  
Hyderabad.

Email:

Payment Details: Cash

Payment by Cash / Cheque / Paytm:

Signature of Candidate with date

Signature of College Official with date  
**PRINCIPAL**

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Deshmukhi, Bhongir Yadadri Dist-508 284



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## Certificate of Participation

This is to certify that

Mr. P. SRJINTVASU

from Department of

**Electronics & Communication Engineering of Vignan Institute of Technology & Science has participated in**

**Workshop on "Hands-on-training on SCILAB for Signal Processing" organized by Department of Electronics & Communication**

**Engineering from 29th April - 04th May 2019.**

  
Coordinator





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Vignan Institute of Technology and Science  
Deshmukhi, Bhongir, Yadadri Dist-508 284

Head of the Department

  
Principal

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## REGISTRATION FORM

### Workshop

### On

**“Hands-on-training on SCILAB for Signal Processing”  
29<sup>th</sup> April – 04<sup>th</sup> May 2019**

### Participant's personal Details:

Name: Mr. K R ANUDEEP  
LAXMIKANTH

Designation: Assistant Professor

Qualification: M.Tech

Experience:

Institution: Vignan Institute of Technology & Science

Address: VITS, Deshmukhi, Near Ramoji Film City, YadadriBhuvanagiri, Hyderabad.

Email: kralk1989@gmail.com

Payment Details: Cash

Payment by Cash / Cheque / Paytm:

Signature of Candidate with date



Signature of College Official with date

  
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Vignan Institute of Technology and Science  
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### WORKSHOP REPORT

This report provides a brief summary of the Workshop organized by department of Electronics and Communication Engineering. The workshop is on "Hands-on-training on SCILAB for Signal Processing". It is a workshop from date 29<sup>th</sup> April- 05<sup>th</sup> May, 2019, from 9.00 am to 5.00 pm in the Seminar Hall, 1<sup>st</sup> Floor, VITS. The workshop brought together over 23 Faculty of ECE. The VITS Principal graced the occasion and wished grand success for the program, HOD-ECE.

Learning Scilab from Spoken Tutorials Depending on the level of the user, one can learn any/all of the topics mentioned below. If one cannot complete all the topics, one can complete them later on, through self-learning, as all required Spoken Tutorials are freely available.

Basic level: Getting started with Scilab, Vector Operations, Matrix Operations, Conditional branching, Iterations, Scripts and Functions, Plotting 2D graphs, Introduction to Xcos. Intermediate level: File handling, User defined input and output, Integration, Solving non-linear equations,

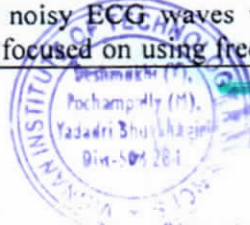
Linear equations - Gaussian methods, Linear equations - Iterative Methods, Interpolation, ODE Euler methods, and ODE Applications. Advanced level: Optimization Using Karmarkar Function, Digital Signal Processing, Control systems, discrete systems, Calling User Defined Functions in XCOS, and Simulating a PID controller using XCOS.

**Resource Person:** B. Naresh Kumar, Associate Professor, Dept of ECE, BVRIT, Hyderabad.

**Duration:** 6 hrs per day

**Topics covered:**

Topics to be covered
<b>Day 1:</b> Lab Session on Biomedical Signal Processing Key Points, An overview on using SCILAB, Advantages of Technical Computing Languages, Advantages of Open Source Tools.
<b>Day 2:</b> Time Domain Filtering of Biomedical Signals, Frequency Domain Filtering of Biomedical Signals The participants were thought about the basics of SCILAB. Code segments were executed on SCILAB to plot waveforms on the screen. The participants were given sample data on which they could work. Hands on Session
<b>Day 3:</b> Code segments were executed on SCILAB to plot waveforms on the screen. The participants were given sample data on which they could work. The students were thought about some time domain filtering concepts and noisy ECG waves were processed to remove noise. Then the second part of the session focused on using frequency domain for



*S. Subramanian*

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filtering applications. This included designing of a notch filter to remove power line noise. Hands on Session.

**Day 4:** Lab Session on Medical Image Processing Key Points, Basics of Digital Image Processing, Types of Processing on Images, Spatial Domain Filtering, frequency Domain Filtering. Hands on Session.

**Day 5:** Key Areas which use Digital Image Processing The participants were thought about the basics of image processing using SCILAB. They were given sample medical images on which they could work on. Image Enhancement techniques like Gamma Correction and Brightness Adjustment were thought and applied on sample images. Then noise removal using Spatial Domain Filters like Box Filter and Weighted Average Filters were explained. The Second Part of the session focused on Frequency Domain Filtering Concepts for Noise Reduction. Hands on Session.

**Day 6: CONCLUSION** The Workshop helped participants understand the basic signal and image processing techniques and the advantages of SCILAB over MATLAB. It also helped participants understand the method of filtering signals and images.

**Photo gallery:**



*[Signature]*  
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Coordinator

*[Signature]*  
Dr. P. A. Harsha Vardhini



14/3/2019

To

The Principal,

Vignan Institute of Technology and Science,

Deshmukhi.

Respected Sir,

Sub: Request for conducting a guest lecture and issuing the amount needed Reg.

This is to bring to your kind notice that, with the approval of DAC & the permission from you, We the Department of Computer Science & Engineering is going to organize a Workshop on "**Introduction to ethical Hacking & Digital Forensics**" on 20/3/2019. The following expenditure may be incurred for the smooth conduction of the program. In this regard for all the expenses of the program, we require an amount of Rs. 5000/-. The expected expenditure is:

Expected Amount:

1. Guest Honorarium : Rs.2000/-
2. Transport : Rs.1500/-
3. Food and Snack Items: Rs. 500/-
4. Flexi : Rs.1000/-

We request you to issue the amount at the earliest.

Thanking you for the needful.

*Mr. Sind  
Sanctioned  
Hdf*

Yours Sincerely,

*Yash*

Event Coordinator

(YASHASREE TUMMALA)



*Subramo*

PRINCIPAL

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Deshmukhi, Bhongir Yadadri Dist-508 284

ya<yashasreeditya@gmail.com>  
ti@gmail.com

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h  
g good.  
ator , I am pleased to inform you that our CSE department has selected you as one the virtuous speakers from the ,  
you to plan for one day workshop on "Introduction to ethical hacking and digital forensics" on 20th Mar,2019  
: 3rd year.  
ur presence .

<saidinesh.kondeti@gmail.com>  
a <yashasreeditya@gmail.com>

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ty.

kind words. I felt overwhelming by seeing the invitation for workshop. I would be deeply honored to speak on "Introc  
sics". Please consider this email as my confirmation for being the resource person of one day workshop on "Introd  
on 20th Mar,2019.



A handwritten signature in blue ink, appearing to read "Saidinesh Kondeti".

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**VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

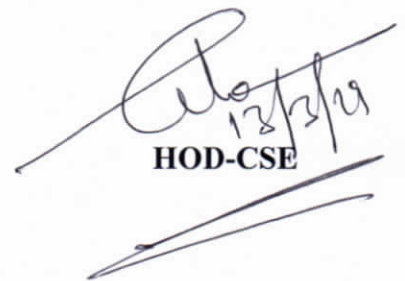
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**CIRCULAR**


13/03/2019

All the III year students of CSE are here by informed that on **20/03/2019**, one day workshop on **“Introduction to Ethical Hacking & Digital Forensics”** will be conducted by our Alumnus, **Mr. K Sai Dinesh** of (2013-2017) batch who is pursuing his Masters at JNTUH.

cc: Principal for kind information,  
All CSE Staff.

  
13/3/19  
**HOD-CSE**



  
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Deshmukhi, Bhongir Yadadri Dist-508 284

Sai Dinesh Kondeti  
8-70/141, Sri Sai Nagar Colony,  
Balapur, Hyderabad, 500005.  
9989171566  
[saidinesh.kondeti@gmail.com](mailto:saidinesh.kondeti@gmail.com)

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**Career Objective:**

- ✓ To work in a cyber security company where I can utilize my penetration testing skills to solve the real challenges.

**Academic Qualification:**

- ✓ Currently pursuing Master of Technology (from 2017) in the stream of Cyber Forensics and Information Security from JNTU Hyderabad.
- ✓ Completed Bachelor of Technology in 2017 in the stream of Computer Science and Engineering with 74% from Vignan Institute of Technology and Science.
- ✓ Completed Intermediate in 2013 with 91% from Narayana Junior College.
- ✓ Completed SSC in 2011 with 89.6% from S. R. K. S. V. High School.

**Technical Skills:**

- ✓ C, Python, HTML, CSS.
- ✓ Kali Linux, Windows 7/10.

**Projects:**

- ✓ Currently working on a forensic tool that finds the artifacts of hacker involved in man-in-the-browser attack.
- ✓ Universal Database Incorporation – A windows application developed using python to help database administrators, application developers to easily interact with the database.
- ✓ College Fest Management System - A web application where students can register for events to participate in the fests held in their respective colleges.
- ✓ College Capitative Fee System – A web application for the college management to store the fee records of students and make the fee billing process simpler.
- ✓ Vignan College Website – Developed a website for my B. Tech college  
<http://vignanits.ac.in/new/>





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**Extra-Curricular Activities:**

- ✓ Completed Certified Ethical Hacker certification from EC-Council.
- ✓ Completed Cyber Security introductory courses from Cisco online education portal.
- ✓ Completed some of the cyber security related courses from cybrary.
- ✓ Attended Step Up at Deloitte program as part of Industrial visit to Deloitte.
- ✓ Attended one-week training program on IBM Infosphere BigInsights.
- ✓ Attended two-day workshop program on IBM Bluemix.
- ✓ Co-ordinated PHP and RIA workshop organised at Vignan Institute of Technology and Science.
- ✓ Participated in Project Expo- Techno Aavishkaara- 2015 program organised by Vignan University – Guntur.
- ✓ Participated in science fair organised by newton high school while studying in class I.

**Strengths:**

- ✓ Quick learner
- ✓ Ability to work as an active player in a team
- ✓ Self-determined and ready to take up challenging tasks

**Hobbies:**

- ✓ Playing Euro truck simulator 2.
- ✓ Completing CTF challenges.
- ✓ Browsing the internet for cyber security related concepts and courses.

**Languages Known:**


- ✓ Telugu
- ✓ Hindi
- ✓ English

I hereby declare that the information provided above is true as per my knowledge.

Hyderabad

Sai Dinesh Kondeti



  
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**Lists of participants  
Introduction to Ethical Hacking and Digital Forensics**

**Speaker: Mr. K Sai Dinesh**

**Date: 20/03/2019**

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## Introduction to ethical hacking and digital forensics

By:  
K. Sai Dinesh  
B. Tech (CSE), M. Tech (CFIS), CEH

## About me

- Pursuing masters in cyber forensics and information security.
- Completed graduation in 2017.
- Certified ethical hacker from EC-council in April 2018.
- Cybersecurity enthusiast.
- Full time thinker, part time worker.
- Excited by CTF challenges.

## Outline

- Background of cybersecurity
- Essentials of ethical hacking
- I know kung fu, show me!
- Essentials of digital forensics
- I know kung fu, show me!
- Resources
- Conclusion

## Background of cybersecurity

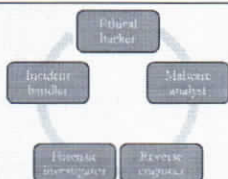
- Birth of cybersecurity.
- Importance
- Cyber warfare
- STUXNET
- Myth on cybersecurity.



*Satish Kumar*  
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## Background of cybersecurity... contd



## Essentials of ethical hacking

- Meaning of hacker
- Definition of ethical hacking
- Is hacking good or bad?
- Thought process of a hacker
- Stages of hacking >>>

## Essentials of ethical hacking... contd

- Stages of hacking
  - Information gathering or reconnaissance
  - Scanning
  - Enumeration
  - Gaining access
  - Maintaining access
  - Clearing traces

## Essentials of ethical hacking... contd

- Types of hackers:
  - Black hat
  - Grey hat
  - White hat
  - Script kiddies
  - Suicide hackers
  - Cyber terrorists
  - Hacktivists
  - State sponsored hackers



*S. Subramanian*

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I know kung fu, show me!

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### Essentials of digital forensics

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- Meaning of forensics
- Definition of digital forensics
- Locard's exchange principle
- Legal aspects
- Role of forensic investigator

### Essentials of digital forensics... contd

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- Stages of digital forensics:
  - Identification
  - Acquisition
  - Preservation
  - Analysis
  - Reporting
  - Presentation

### Essentials of digital forensics... contd

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- Types of digital forensics:
  - Live
  - Dead
- Anti-forensics:
  - SSDs
  - Cloud
  - Encryption



*Subarna*

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I know kung fu, show me!

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## Resources

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- Certifying bodies:
  - CompTIA
  - EC-Council
  - Offensive security
  - SANS
  - ISACA
  - (ISC)<sup>2</sup>

## Resources... contd

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- How to reach Carnegie hall? Practice, practice, practice!
- Some useful websites:
  - [www.cybrary.it](http://www.cybrary.it)
  - [www.lilgen.io](http://www.lilgen.io)
  - [www.vulnhub.com](http://www.vulnhub.com)
  - [www.hackthebox.eu](http://www.hackthebox.eu)
  - <https://cve.mitre.org/>

## Conclusion

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- Cyber crimes are evolving day by day.
- Digital forensics is still in its infancy.
- Lack of cybersecurity professionals.
- Learning track:
  - Linux
  - Networks
  - Security concepts



*Sutarna*

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Queries?

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Gracias

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A handwritten signature in blue ink, appearing to read "Sukuma".

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# VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE

Vignan Hills, PochampallyMdl., DeshmukhiVill., Yadadri Dist.

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### Summary Report

Program	A WORKSHOP
Topic	“ETHICAL HACKING AND DIGITAL FORENSICS”
Date	20/03/2019
Speaker	Mr. Sai Dinesh
Details of Alumni	Batch (2013-17) Master’s Student at JNTU, HYD
Targeted at	IV CSE
Number of attendees	120
Organized by	Department of Computer Science and Engineering

#### Feedback Analysis:

More than 90% students felt it is good and something new that they learnt apart from their academics.

#### Outcomes/Benefits:

Learnt/known:

Details of Ethical Hacking, How to hack a system like tracking the IP Address. And also to learn how an investigation takes place using Digital Forensics.

Learnt with a test case.

Hacking Techniques are useful to protect our data than to intrude into others.

#### MoUs /Internships/ References:


-NIL-

  
Yashasree Tummala

CSE Alumni Coordinator

  
Dr. P A Harsha Vardhini

Dean Alumni Affairs

  
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# VIGNAN INSTITUTE OF TECHNOLOGY & SCIENCE

Vignan Hills, PochampallyMdl., DeshmukhiVill., Yadadri Dist.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



*Sobhana*

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21<sup>st</sup> Mar 2019.

To

The Principal,

Vignan Institute of Technology and Science,

Deshmukhi.

Respected Sir,

Sub: Expenses of the Guest Lecture Reg.

This is to bring to your kind notice that, with the approval of Dean Alumni Affairs, DAC & the permission from you, the Department of Computer Science & Engineering organized a Workshop on "**Introduction to ethical Hacking & Digital Forensics**" on 20/3/2019. The following expenditure incurred for the program. In this regard for all the expenses of the program we spent was Rs.5010/-

Expenses:

1. Honorarium : Rs. 4000/-
2. Flexi : Rs. 690/-
3. Food and Snacks: 320/-

**Amount Sanctioned: Rs.5000/-**

**Expenditure: Rs.5010/-**

*Verified  
Staff*

Thanking you for the needful.

Yours Sincerely,

*Yash*  
Event Coordinator

(YASHASREE TUMMALA)



*Subram*

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### Feedback Form

Please rate the session on the scale indicated. Your comments are most appreciated.

Presenter: Date : Title :	Outstanding	Excellent	Good	Average	Unacceptable
	1	2	3	4	5
<i>K. Sai Dinesh</i> <i>20-3-19</i> <i>Introduction to Cyber Security and digital Forensic</i>					
<b>The Topic</b>					
The choice of topic was relevant to me	<input checked="" type="checkbox"/>				
<b>The Presenter</b>					
Enthusiasm	<input checked="" type="checkbox"/>				
Interaction with the audience	<input checked="" type="checkbox"/>				
<b>The Presentation</b>					
Information was presented in an organized manner	<input checked="" type="checkbox"/>				
Used case-based methods; related information to practical problems	<input checked="" type="checkbox"/>				
Quality of audiovisual aids	<input checked="" type="checkbox"/>				
<b>The Content</b>					
Volume and complexity of the information was appropriate	<input checked="" type="checkbox"/>				

Name: *G. R. S. Subrahmanyam*

ID No: *16891A0580*

## Feedback Form

Please rate the session on the scale indicated. Your comments are most appreciated.

Presenter: K-sai Dinesh Date : 20/03/19 Title : Introduction to cyber security and digital forensics	Outstanding	Excellent	Good	Average	Unacceptable
	1	2	3	4	5
<b>The Topic</b>					
The choice of topic was relevant to me	✓				
<b>The Presenter</b>					
Enthusiasm	✓				
Interaction with the audience	✓				
<b>The Presentation</b>					
Information was presented in an organized manner		✓			
Used case-based methods; related information to practical problems	✓				
Quality of audiovisual aids		✓			
<b>The Content</b>					
Volume and complexity of the information was appropriate		✓			

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Name: P. Krishna Vardhan

ID No: 16891A05 A0.