



# K.S.R.COLLEGE OF ENGINEERING

(An Autonomous Institution)

Tiruchengode, Tamil Nadu – 637 215.

## Event Schedule

1	<b>Name of the Event</b> (Seminar/Workshop/Conference/FDP/ Any other)	Value added course
2	<b>Name of the Organizer</b>	EEE Department
3	<b>Date of Event</b>	20.05.2019 to 25.05.2019
4	<b>Platform</b>	OFFLINE
5	<b>Title of the Event</b>	Value added course on MATLAB Simulation and Programming
6	<b>Name of the Coordinators</b>	Mr.P.Sundravadivel & Mr.M.Subramani
7	<b>Total Participants</b>	35
	<b>Objectives of the Event</b>	To be successful completion of the event the participants have developed skill in the MATLAB simulation and programming.

  
CO-ORDINATOR



  
PRINCIPAL

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## Profile of the Coordinator

Dr.M.Ramasamy working as an Associate Professor in the Department of Electrical and Electronics Engineering, K.S.R. College of Engineering, has about 14 years of teaching experience. He received a Diploma degree in Electrical and Electronics Engineering from DOTE, Chennai, B.E. degree in Electrical and Electronics Engineering from Anna University, Chennai, an M.E. degree in Power Electronics and Drives from Anna University, Chennai, and a Ph.D. degree in Electrical and Electronics Engineering from Anna University, Chennai in 1999, 2005, 2007 and 2013 respectively. He has published 35 research papers in refereed international journals and 21 research papers in the proceedings of various national & international conferences. His areas of research include the design of power converters, inverters converters, power quality improvement devices, micro-grid, renewable energy sources, and electric vehicles using MATLAB. He has rich experience in teaching the subjects of Electrical Machines, Power Electronics, Basic Electrical and Electronics Engineering, Digital Signal Processing, Signals and Systems, Solid State Drives, and Power Quality. He is an active member of IEEE and MISTE. The participants' skills in MATLAB simulation and programming were developed in order for the event to be completed successfully.

  
CO-ORDINATOR



  
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# K.S.R. COLLEGE OF ENGINEERING: TIRUCHENGODE – 637 215

Department of Electrical and Electronics Engineering

VALUE ADDED COURSE ON

**“MATLAB SIMULATION & PROGRAMMING”**

## Aim the Programme:

The Value Added Courses (VAC) aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students. The main objectives of the program are:

1. To provide students an understanding of the expectations of industry.
2. To improve employability skills of engineering students
3. To bridge the skill gaps and make students industry ready.
4. To provide an opportunity to students to develop inter-disciplinary skills.

The Courses focus on skill development and more than 50% of the time is spent on practical training and problem solving, to provide the requisite understanding towards application of academic topics from engineering disciplines into real world engineering projects.

## Note:

1. The proposed course should be lead by Value Added Courses Coordinator of the department.
2. The proposed course is to be handled with internal faculty.

**VAC Co-ordinator: Mr.P.Sundravadivel & Mr.M.Subramani**

**VAC Instructors: Dr.M.Ramasamy, Mr.J.Thiyagarajan**

## Course Structure:

Course	Class	No. of Students (Maximum)	Duration	Date
MATLAB Simulation & Programming	B.E.-III Year VI Semester	35	6 Hrs/Day	20.05.2019 to 25.05.2019

## Prerequisites:

1. No prior knowledge of MATLAB is required. Basic computer literacy is expected.
2. Power Electronics, Signals and Systems and Engineering Mathematics.



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## Course Objectives:

- To Impart the Knowledge to the students with MATLAB software [This enhances programming knowledge in Research and Development]
- To provide a working introduction to the MATLAB technical computing environment. [Themes of data analysis, visualization and programming]
- To introduce students the use of a high-level programming language, MATLAB. [scientific problem solving with applications and examples from Engineering]

## Topics to be covered:

### Basics of MATLAB and MATLAB Compiler

1. The MATLAB user interface
2. Working with MATLAB data types
3. Creating matrices and arrays
4. Operators and control statements
5. Using scripts and functions
6. Data import and export

### Discussion of Power System Toolboxes with Applications

1. Converters design and implementations
  - Boost Converter
  - Buck Converter
  - Cuk Converter
  - Buck-Boost Converter
  - Coupled inductor based boost converters
  - Single Phase and Three-phase inverters
  - BLDC motor drives
  - Induction motor drives
  - DC motor Drives
2. Design and implementation of controller
  - Dynamic Voltage Restorer
  - STATCOM
  - Thyristor Controlled Reactor (TCR)



### Course Outcomes:


By the end of this course, the student will be able to

1. Understand the basics of MATLAB.
2. Break a complex task up into smaller, simpler tasks.
3. Case Study (Any two Modules).

### Course Timings for the duration from 20.05.2019 to 25.05.2019:

Timing	Particulars
09-00 am - 10.45 am	Session - I
10.45 am - 11.00 am	Tea Break
11.00 am - 12.30 pm	Session - II
12.30 pm - 1.30 pm	Lunch Break
01.30 pm - 02.40 pm	Session – III
02.40 pm - 02.50 pm	Tea Break
02.50 pm - 04.00pm	Session - IV

  
Course Instructor

  
HoD/EEE

**Note:** Circulate this among Third Year EEE Students



  
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# K.S.R. COLLEGE OF ENGINEERING: TIRUCHENGODE – 637 215


## Department of Electrical and Electronics Engineering VALUE ADDED COURSE ON “MATLAB SIMULATION & PROGRAMMING” LIST OF STUDENTS REGISTERED FOR THE PROGRAMME

S.NO	REG.NO	NAME OF THE STUDENT	SEC	STUDENT SIGN
1	1614006	DHANAPAL D	A	D. Dhany
2	1614008	DHIVAGAR S	A	S. Dhivagar
3	1614014	KAVIN T	A	Kavin T
4	1614015	KAVIYARASAN M	A	M. Kavi
5	1614017	KISHORE C	A	C. Kishore
6	1614019	MANIKANDAN C	A	C. Mani
7	1614020	MANIKANDAN KODESH K	A	K. Mani
8	1614025	MUKESH R	A	R. Mukesh
9	1614027	NANDHA BALAJI L	A	L. Nandha
10	1614028	NANDHINI R	A	R. Nandhini
11	1614029	NAVEEN J	A	J. Naveen
12	1614030	NIVASHINI M	A	M. Nivashini
13	1614031	PRABHAKARAN P	A	P. Prabhakaran
14	1614035	PRAVEENKUMAR P	A	P. Praveenkumar
15	1614036	PRAVEENKUMAR S	A	S. Praveenkumar
16	1614502	ARUN PRABHU M	A	M. Arun Prabhu
17	1614508	KAVINKUMAR R	A	R. Kavinkumar
18	1614509	KEERTHIRAJ S	A	S. Keerthiraj
19	1614039	PRIYANKA V	B	V. Priyanka
20	1614040	RAGUNATH K S	B	S. Ragunath
21	1614044	RAJESWARI M	B	M. Rajeswari
22	1614045	RAJKUMAR K S	B	S. Rajkumar
23	1614046	RAMESH KANNAN S	B	S. Ramesh Kannan
24	1614047	RAVICHANDRAN M	B	M. Ravichandran
25	1614060	SURYA PRAKASH S	B	S. Surya Prakash
26	1614061	SUSHANTHI P	B	P. Sushanthi
27	1614065	VIGNESH D	B	D. Vignesh
28	1614067	VIGNESH R	B	R. Vignesh
29	1614069	VIJAYAKUMAR K	B	K. Vijayakumar
30	1614504	GUGAN T	B	T. Gagan
31	1614505	INDHUMATHI S	B	S. Indhumathi
32	1614506	KARTHIK R	B	R. Karthik
33	1614512	MYTHILI B	B	B. Mythili
34	1614518	SONIYA T	B	T. Soniya
35	1614520	SUDHAKARAN V M	B	M. Sudhakaran
TOTAL NUMBER OF CANDIDATES			35	

Date: 20.05.2019 to 25.05.2019



  
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**HOD/EEE**



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### VALUE ADDED COURSE (VAC)

ON

### “MATLAB SIMULATION & PROGRAMMING “

20<sup>th</sup> May 2019 – 25<sup>th</sup> May 2019

### FEEDBACK FORM

1. How did you feel about our service rendered?

a) ☒ Excellent

b) ☐ Good

c) ☐ Satisfactory

d) ☐ Poor

2. Are you satisfied with our guidance and support?

a) ☒ Excellent

b) ☐ Good

c) ☐ Satisfactory

d) ☐ Poor

3. Are you satisfied with facility provided?

a) ☒ Excellent

b) ☐ Good

c) ☐ Satisfactory

d) ☐ Poor

4. Are you satisfied with our schedule timings?

a) ☐ Excellent

b) ☒ Good

c) ☐ Satisfactory

d) ☐ Poor

5. Food and refreshments?

a) ☐ Excellent

b) ☒ Good

c) ☐ Satisfactory

d) ☐ Poor

6. Are you satisfied with our overall programme?

a) ☒ Excellent

b) ☐ Good

c) ☐ Satisfactory

d) ☐ Poor

7. Any Specific Comments: .....



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Signature



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### VALUE ADDED COURSE (VAC)

ON

### “MATLAB SIMULATION & PROGRAMMING “

20<sup>th</sup> May 2019 – 25<sup>th</sup> May 2019

### FEEDBACK FORM

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b) Good

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d) Poor

6. Are you satisfied with our overall programme?

a) Excellent

b) Good

c) Satisfactory

d) Poor

7. Any Specific Comments: .....

The program was good.



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R. Vijayalakshmi  
Signature



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value Added Course (VAC) on MATLAB Simulation and Programming

20<sup>th</sup> May 2019 - 25<sup>th</sup> May 2019

### PHOTOGRAPHS OF THE PROGRAMME



*Dr. M. R. ...*  
28  
Coordinator



*[Signature]* 25/5/19  
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