

Value added programs (2019- 2020)



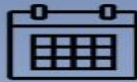
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with Grade "A" by NAAC | 12B Status by UGC | Approved by AICTE

**SCHOOL OF MECHANICAL ENGINEERING
DEPARTMENT OF AUTOMOBILE ENGINEERING**
In association with



ORGANIZES TRAINING ON

Title – MATLAB & Simulink



05.08.2019 – 13.09.2019

Slot 1

**Free registration
charges**

CERTIFICATE WILL BE ISSUED!!!

CHIEF PATRONS

Dr. Mariazeena Johnson
Chancellor

Dr. Marie Johnson
President

PATRONS

Dr. T. Sasipraba
Vice Chancellor

Dr. S. Prakash
Dean, Mechanical

CONVENERS

Dr. V. K. Bupesh Raja – 9444076294

Mr. R. Rajasekar

Course Content

Value Added Program (2019 - 2020) – MATLAB & Simulink

S. no	Date	Session Topic
1.	05-08-2019	Introduction to Environment
2.	06-08-2019	Variables, Arrays and Matrices
3.	07-08-2019	Arithmetic Operations
4.	08-08-2019	Relational Operations
5.	09-08-2019	Logical Operations
6.	12-08-2019	Root, Trigonometric and Logarithmic Operations
7.	13-08-2019	Some Statistical Commands
8.	14-08-2019	Some Useful Commands
9.	15-08-2019	Script Files, Function Files
10.	16-08-2019	Variables, Arrays and Matrices
11.	19-08-2019	Arithmetic Operations

12.	20-08-2019	Instantiating Vectors in MATLAB
13.	21-08-2019	Vector Arithmetic
14.	22-08-2019	Accessing Individual Elements in a Vector
15.	23-08-2019	Instantiating Matrices in MATLAB
16.	26-08-2019	Matrices Arithmetic
17.	27-08-2019	Accessing Individual Elements in a Matrix
18.	28-08-2019	Debugging MATLAB Scripts
19.	29-08-2019	Publishing Script Options
20.	30-08-2019	MATLAB Figures and Plots
21.	02-09-2019	MATLAB Project 1
22.	03-09-2019	Introduction to Simulink
23.	04-09-2019	Bus Selector, Bus Creator and scope Blocks
24.	05-09-2019	Data type conversion, constant and Display Blocks
25.	06-09-2019	Ground, terminator in-port and out-port blocks
26.	09-09-2019	Gain, Product, Sum and Unit Delay Blocks

27.	10-09-2019	Mux and Demux Blocks, with integrator and discrete time integrator blocks
28.	11-09-2019	Logical operator and Relational Operator blocks
29.	12-09-2019	Various Toolboxes and its usage like Power block
30.	13-09-2019	Simulink Project 2



CERTIFICATE

OF PARTICIPATION

This is to certify that

Mr. SANDEEP REDDY P

from **Sathyabama Institute of Science and Technology, Chennai** has

successfully completed training on **MATLAB & Simulink**

from 05-08-2019 to 13-09-2019.

A blue ink signature of the National Service Manager, TVS Motors Company Ltd.

National Service Manager
TVS Motors Company Ltd.

A blue ink signature of the Convener, Sathyabama University.

Convener
Sathyabama University

Date: 19-09-2019

List of Participants

S. NO	REG. NO	NAME OF THE STUDENTS
1	37860002	AKASH M GLADIN
2	37860005	BH JASHWANTH VARMA
3	37860006	DEEPAK RAJ. L
4	37860007	DEVENDRA SAI. N. V
5	37860008	DOMINIC MATHEW. R
6	37860009	FAIYAZ MUHAMMED. A
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24	37860029	SANJAY
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27	37860033	SEELAM PAVAN KUMAR REDDY
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31	37860038	SURAJ RAMESH DAVANAPALLI
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34	37860042	YALLA KRISHNA SAI DURGA SRINIVAS
35	37860701	SACHIN. S



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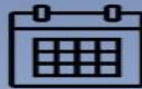
**SCHOOL OF MECHANICAL ENGINEERING
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In association with



TVS Training and Services

ORGANIZES TRAINING ON

Title – LS - DYNA



03.02.2020 – 06.03.2020

Slot 2

**Free registration
charges**

CERTIFICATE WILL BE ISSUED!!!

CHIEF PATRONS

Dr. Mariazeena Johnson
Chancellor

Dr. Marie Johnson
President

PATRONS

Dr. T. Sasipraba
Vice Chancellor

Dr. S. Prakash
Dean, Mechanical

CONVENERS

Dr. V. K. Bupesh Raja – 9444076294

Mr. R. Rajasekar

Course Content

Value Added Program (2019 - 2020) – LS DYNA

S. no	Date	Session Topic
1.	02-02-2020	Introduction to LS - DYNA
2.	03-02-2020	Airbag Folding in LS-DYNA
3.	04-02-2020	Airbag Modeling in LS-DYNA
4.	05-02-2020	Airbag Particle Method (APM)
5.	06-02-2020	ALE, Eulerian, & Fluid Structure Interaction in LS-DY-NA
6.	07-02-2020	CAE for Non-CAE Engineers
7.	09-02-2020	Comprehensive LS-DYNA ALE & Structured-ALE Applications Seminar
8.	10-02-2020	Contact Modeling in LS-DYNA
9.	11-02-2020	Discrete Element Method in LS-DYNA
10.	12-02-2020	EM: Eddy Current Applications
11.	13-02-2020	EM: Resistive Heating, Resistance Spot Welding, & Battery Modeling Applications

12.	14-02-2020	Implicit Analysis in LS-DYNA
13.	16-02-2020	Introduction to ICFD
14.	17-02-2020	Introduction to LS-DYNA
15.	18-02-2020	Introduction to LS-FORM
16.	19-02-2020	Introduction to LS-OPT
17.	20-02-2020	Introduction to LS-Pre-Post
18.	21-02-2020	Introduction to LS-TaSC™
19.	23-02-2020	Introduction to Material Failure Analysis using Generalized Finite Element & Meshless Methods
20.	24-02-2020	Introduction to Passive Safety
21.	25-02-2020	Material Characterization for Metals, Polymers, & Foams
22.	26-02-2020	Non-linear Implicit Analysis in LS-DYNA
23.	27-02-2020	NVH, Fatigue & Frequency Domain Analysis
24.	28-02-2020	Occupant Simulation in LS-DYNA
25.	01-03-2020	Occupant Simulation Workshops
26.	02-03-2020	Overview of Contacts in LS-DYNA

27.	03-03-2020	Shock Analysis with USA/LS-DYNA
28.	04-03-2020	Smoothed Particle Hydrodynamics (SPH) in LS-DYNA
29.	05-03-2020	Smoothed Particle Hydrodynamics (SPH) & Implicit Stabilized Particle Galerkin (ISPG) for Fluid, Structure, & FSI
30.	06-03-2020	Statistical Energy Analysis with LS-DYNA



CERTIFICATE

OF PARTICIPATION

This is to certify that

Mr. PRABAKAR P

from **Sathyabama Institute of Science and Technology, Chennai** has

successfully completed training on **LS - DYNA** from 03-02-2020 to 06-03-2020.

A blue ink signature of the National Service Manager.

National Service Manager
TVS Motors Company Ltd.

A blue ink signature of the Convener.

Convener
Sathyabama University

Date: 10-03-2020

List of Participants

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