

# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



## REQUISITION LETTER

10.06.2021

### FROM

The HOD  
Department of Mechatronics  
Bharath Institute of Higher Education and Research  
Selaiyur-Chennai- 73

### TO

The Dean Engineering  
Bharath Institute of Higher Education and Research  
Selaiyur-Chennai- 73

Respected Sir,

Subject: Requisition for conducting Value Added course reg.

The school of Mechanical sciences had planned to conduct a 5 -day value added course on the topic "Electro-Mechanical Simulation PSPICE" dated from 08.08.2021 to 12.08.2021. In this regard, I request you to kindly grant permission for conducting the same.

Thanking You

Dean Engineering



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Date: 10.06.2021

**Department of Mechatronics**

**Circular**

The Department of Mechatronics, BIHER is glad to conduct a 5 - day Value Added Program on “ELECTROMECHANICAL SIMULATION PSPICE” dated from 8.8.2021 for a period of 25 hours. Those who are interested to participate do register your name with the program coordinator mentioned below.

**Resource persons:**

**Dr.P.Sengottuvel,**

Professor,  
BIHER

**Mr. Murugesan**

Trainer,  
Soft logic Systems pvt Ltd,  
K K Nagar Chennai.

Maximum No. of registration Allowed – 46

**\*First come first serve basis.**

**Program Coordinator:**

Mrs.M.DEEPA

Assistant Professor

Mrs.G.VASUMATHI

Assistant Professor,

E-Mail: arun08v@gmail.com

Mobile: 9962133365



**Department of Mechatronics**

**ELECTROMECHANICAL SIMULATION PSPICE**

**OBJECTIVES:**

The objective of Simulation PSPICE is to impart hands on experience in verification of circuit laws and theorems, measurement of circuit parameters, study of circuit characteristics using PSPICE. It also gives practical exposure to the usage of different circuits with different condition. SPICE is a powerful general purpose analog and mixed-mode circuit simulator that is used to verify circuit designs and to predict the circuit behavior. This is of particular importance for integrated circuits.

**[DAY: 1]MODULE I PSPICE SIMULATION OF Nodal analysis for DC circuits (5 Hrs)**

Create a web application, design responsive UIs and controls, and debug, build, and package your WebVIs.

**[DAY: 2]MODULE II *PSPICE SIMULATION OF AC CIRCUIT* (5 Hrs)**

Access Web VI resource files, web service data, and use web services like System Link Tag and Message in your web application.

**[DAY: 3]MODULE III Using Transformer circuit (5 Hrs)**

SPICE has no model for an ideal transformer. An ideal transformer is simulated using mutual inductances such that the transformer ratio  $N1/N2 = \sqrt{L1/L2}$ . The part in PSpice is called TFRM\_LINEAR

**[DAY: 4] MODULE IV - AM Modulated Signal (AM Modulation) (5 Hrs)**

To generate a AM signal in PSpice we can make use of the Multiplication function MULT that can be found in the ABM library.

**[DAY: 5] MODULE V – ERROR VERIFICATION (5 Hrs)**

PSpice SLPS enables co-simulation for complete system model for test and verification and helps identify errors early in the design process..



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**Department of Mechatronics**

**Value Added Course - ELECTROMECHANICAL SIMULATION**  
**PSPICE**

**PARTICIPANTS LIST**

S.No	Reg.No	Name	Department
1.	U17MT001	PRASANNA KUMAR R	Mechatronics
2.	U17MT002	NATARAJAN M A	Mechatronics
3.	U17MT012	TAMILSELVAN A	Mechatronics
4.	U17MT013	ARUN KUMAR C K	Mechatronics
5.	U17MT014	MOHAN PIRASATH M	Mechatronics
6.	U17MT015	BAGIYARAJ D	Mechatronics
7.	U17MT026	MADUGULA BALACHANDRA	Mechatronics
8.	U17MT027	ALEX ANTO	Mechatronics
9.	U17MT052	SATHISH KUMAR S	Mechatronics
10.	U17MT056	SURYA PRAKASH N	Mechatronics
11.	U17MT057	SREE MUKESH R V	Mechatronics
12.	U17MT058	NAGARAJ P	Mechatronics
13.	U17ME019	EDLA MANISH	Mechanical Engineering
14.	U17ME021	DARAM PRITHVI RAJ .	Automobile Engineering
15.	U17ME035	DAMARLA SAI SANTHOSH .	Automobile Engineering
16.	U17ME036	FEROZ AKHTAR M A	Automobile Engineering
17.	U17ME038	HARIRAM K	Automobile Engineering
18.	U17ME045	JEYABHARATHI R	Mechanical Engineering

19.	U17ME047	THIRUGNANA SAMMANDAM R	Mechanical Engineering
20.	U17ME056	KAMPARAJU RAM SRINIVAS RAJU	Mechanical Engineering
21.	U17ME059	BALAJI P	Mechanical Engineering
22.	U17ME062	PAKAM SARATH KUMAR .	Mechanical Engineering
23.	U17ME066	YETTELLA BHUVANESWARA REDDY .	Mechanical Engineering
24.	U17ME068	CHALLA GIREESH	Mechanical Engineering
25.	U17ME019	EDLA MANISH	Mechanical Engineering
26.	U17ME021	DARAM PRITHVI RAJ .	Mechanical Engineering
27.	U17ME035	DAMARLA SAI SANTHOSH .	Mechanical Engineering
28.	U17ME036	FEROZ AKHTAR M A	Mechanical Engineering
29.	U17AM047	MANISH P MUTREJA.	Automobile Engineering
30.	U17AM048	HARIHARAN S	Automobile Engineering
31.	U17AM501	NITHIN UNNI	Automobile Engineering
32.	U17AM502	KISHORE C	Automobile Engineering
33.	U17AM503	VEERANKI NAGA PRAMOD	Automobile Engineering
34.	U17AM701	JABANESH SG	Automobile Engineering
35.	U17AM702	LAWANBHA GYMPAD .	Automobile Engineering
36.	U17AM703	NEIKHOZO KHAMO .	Automobile Engineering
37.	U17AM704	U17AM704-SINGIREDDY HARSHITH REDDY .	Automobile Engineering
38.	U17AM705	STEVE CASTONE CHYNE	Automobile Engineering
39.	U17AM026	SANJAI M	Automobile Engineering
40.	U17AM027	RAKESH KUMAR S	Automobile Engineering
41.	U17AM029	GANGIREDDY PAVAN KUMAR REDDY .	Automobile Engineering
42.	U17AM030	GOUTHAM K	Automobile Engineering

43.	U17AM031	SHANKARANATHAN K	Automobile Engineering
44.	U17AM032	BARATHI KUMAR R	Automobile Engineering
45.	U17AM033	DEVARAPALLI RAHUL	Automobile Engineering
46.	U17AM034	SARIYAM VIDYASAGAR	Automobile Engineering

**BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**DEPARTMENT OF MECHATRONICS**

**CERTIFICATE OF PARTICIPATION**

This is to certify that

**MADUGULA BALACHANDRA**

of **Bharath Institute of Science and Technology**

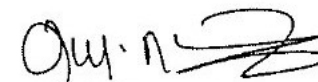
had attended the 5 day Value Added Program on "**ELECTROMECHANICAL  
SIMULATION PSPICE**"

organized by the **Department of Mechatronics-**

**Bharath Institute of Higher Education and Research, Chennai on 8/8/2021 TO 12/8/2021**

  
Mrs. M. Deepa/Mrs. C. Vasumathi

**Coordinators**



**Dr. P. Sengottuvel**  
**Resource Person**



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## **Department of Mechatronics**

### **ELECTROMECHANICAL SIMULATION PSPICE**

**Value added course on ELECTROMECHANICAL SIMULATION PSPICE  
conducted by Murugesan, Soft Logic Systems Pvt Ltd, K Nagar, Chennai.**







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TECHNOLOGY

Selayur, Chennai - 73.

DEPARTMENT OF MECHATRONICS

VALVE ADDED COURSE  
FEEDBACK FORM

Date: 12.08.2021

NAME	JABANESH S O				
REGISTER.NO	U17Am701				
COURSE TITLE	ELECTRO MECHANICAL SPICE				
	POOR	FAIR	GOOD	VERY GOOD	EXCELLENT
OVERALL PROGRAM					✓
THE SPEAKER					✓
AUDIO,VISIAL AIDS, TECHNOLOGY USED				✓	
PRESENTATION HAND OUTS			✓		

Jabanesh S. O.  
STUDENT SIGNATURE



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DEPARTMENT OF MECHATRONICS

VALVE ADDED COURSE  
FEEDBACK FORM

Date: 12.08.2021

NAME	BHUVA NESH				
	REGISTER.NO				
COURSE TITLE	UMEO66				
	Electro Mechanical Spica				
	POOR	FAIR	GOOD	VERY GOOD	EXCELLENT
OVERALL PROGRAM				✓	
THE SPEAKER					✓
AUDIO,VISIAL AIDS, TECHNOLOGY USED					✓
PRESENTATION HAND OUTS					✓

*Bhaesh*  
STUDENT SIGNATURE