

Requisition Letter

Date: 05/09/2018

From
The HOD
Department Of Mechatronics
Bharath Institute of Higher Education and Research
Selaiyur, Chennai-600073

To
The Dean Engineering
Bharath Institute of Higher Education and Research
Selaiyur, Chennai-600073

Respected Sir,

Subject: Requisition for conducting Value added Course-reg

School of Mechanical Sciences has planned to conduct value added course on "Industrial Automation and Control" on 08-10-2018. In this regard we kindly request you to grant permission for the same.

Thanking you



HOD/Mechatronics

Dr. P. SENGOTTUVEL,
PROFESSOR
DEPARTMENT OF MECHATRONICS
BHARATH UNIVERSITY,
CHENNAI-600 073.



Dean Engineering



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Date: 01.10.2018

Department of Mechatronics

Circular

The Department of Mechatronics, BIHER is glad to conduct a 5 - day Value Added Program on “**Industrial Automation and Control**” dated from 08.10.2018 for a period of 30 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. Veeramani
Director
Unikerz Technologies PVT.Ltd.
Chennai.
Maximum No. of registration Allowed – 60

***First come first serve basis.**

Program Coordinator:

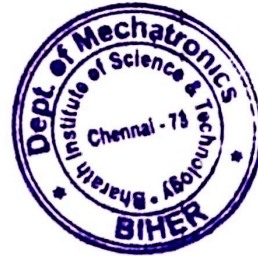
Mr.J.Dhanasekar
Assistant Professor

J. Dhanasekar

Mrs.G.vasumathi
Assistant Professor,

E-Mail: jdhanasekar81@gmail.com @gmail.com

Mobile: 8870136734





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Department of Mechatronics

Industrial Automation and Control

OBJECTIVES:

This course presents an overview of industrial automation and control technology as it is used in factories of all types, including discrete and continuous manufacturing. The course covers a wide range of topics, including automation systems' benefits and architecture, measurement systems, including sensors and signal conditioning, discrete and continuous variable control systems, hydraulic, pneumatics.

[DAY: 1]

- **MODULE I** (6 Hrs)
- Introduction to Industrial Automation and Control
- Architecture of Industrial Automation Systems.
- Introduction to sensors and measurement systems
- Temperature measurement
- Pressure and Force measurements.

[DAY: 2]

- **MODULE II** (6 Hrs)
- Displacement and speed measurement
- Flow measurement techniques
- Measurement of level, humidity, pH etc
- Signal Conditioning and Processing
- Estimation of errors and Calibration

[DAY: 3]

- **MODULE III** (6 Hrs)
- Introduction to Process Control.
- P-- I -- D Control 13. Lecture 5: Controller Tuning.
- Implementation of PID Controllers

- Special Control Structures
- Feedforward and Ratio Control

[DAY: 4]

- **MODULE IV** **(6Hrs)**
- Special Control Structures : Predictive Control, Control of Systems with Inverse Response. Special Control Structures : Cascade Control, Overriding Control, Selective Control, Split Range Control

[DAY: 5]

- **MODULE V** **(6Hrs)**
- Introduction to Sequence Control, PLCs and Relay Ladder Logic
- Sequence Control : Scan Cycle, RLL Syntax
- Sequence Control : Structured Design Approach
- Sequence Control : Advanced RLL Programming
- Sequence Control : The Hardware environment



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Department of Mechatronics

Value Added Course -Industrial Automation and Control

PARTICIPANTS LIST

S.No	Reg.No	Name	Department
1.	U17MT021	RATALA VENKATA MADHAV	Mechatronics
2.	U17MT022	GULAM GHOUSE B	Mechatronics
3.	U17MT023	PRAVEEN R	Mechatronics
4.	U17MT024	MANIKANDAN V	Mechatronics
5.	U17MT026	MADUGULA BALACHANDRA	Mechatronics
6.	U17MT027	ALEX ANTO	Mechatronics
7.	U17MT028	HEMALATHA G	Mechatronics
8.	U17MT029	PRAKASH RAJ S	Mechatronics
9.	U17MT031	SYED SAMSUDEEN I	Mechatronics
10.	U17MT032	LAKKIREDDY PAVAN KALYAN REDDY	Mechatronics
11.	U17MT033	KARTHIK Y M	Mechatronics
12.	U17MT034	JONNALAGADDA GOPALA KRISHNA MOHAN RAO	Mechatronics
13.	U17MT035	HARIHARAN E	Mechatronics
14.	U17MT036	SUSHIL KUMAR PASAWAN	Mechatronics
15.	U17MT037	DINESH N	Mechatronics

16.	U17MT038	DHARANIDHARAN J	Mechatronics
17.	U17MT039	SAGADEVAN G	Mechatronics
18.	U17MT040	NIZAMUDEEN A	Mechatronics
19.	U17MT021	RATALA VENKATA MADHAV .	Mechatronics
20.	U17MT022	GULAM GHOUSE B	Mechatronics
21.	U17AM021	SHAIK REHAMAN	Automobile
22.	U17AM022	MARTHA CHAITANYA	Automobile
23.	U17AM023	BIRADAR GANESH	Automobile
24.	U17AM025	AJITHRAJ S	Automobile
25.	U17AM026	SANJAI M	Automobile
26.	U17AM027	RAKESH KUMAR S	Automobile
27.	U17AM029	GANGIREDDY PAVAN KUMAR REDDY .	Automobile
28.	U17AM030	GOUTHAM K	Automobile
29.	U17AM031	SHANKARANATHAN K	Automobile
30.	U17AM032	BARATH KUMAR R	Automobile
31.	U17AM033	DEVARAPALLI RAHUL	Automobile
32.	U17AM034	SARIYAM VIDYASAGAR	Automobile
33.	U17AM035	MOORABOINA NAGA RAJU .	Automobile
34.	U17AM036	TAMILARASAN S	Automobile
35.	U17AM037	PRATHWIN R S	Automobile
36.	U17AM038	TOVISHE ZHIMO	Automobile
37.	U17AM039	LEO VASANTH H	Automobile
38.	U17AM040	DHANALAKOTA DAVI PHANINDRA .	Automobile
39.	U17AM021	SHAIK REHAMAN	Automobile

40.	U17AM022	MARTHA CHAITANYA	Automobile
41.	U17ME205	RAVI KUMAR REDDY	Mechanical
42.	U17ME220	MALLIKARJUN	Mechanical
43.	U17ME221	RUDRAPATI	Mechanical
44.	U17ME231	PANDIYAN	Mechanical
45.	U17ME234	GALLA	Mechanical
46.	U17ME237	RAMKUMAR	Mechanical
47.	U17ME243	CHITTURI LOKESH KUMAR	Mechanical
48.	U17ME245	JILLAKARA DURGA LAXMANRAO	Mechanical
49.	U17ME246	KUNCHE	Mechanical
50.	U17ME260	MOLUGURI VIJAY KUMAR	Mechanical
51.	U17ME264	GOKUL	Mechanical
52.	U17ME272	KAVIYARASU	Mechanical
53.	U17ME276	BASHRUDIN MIYA MANSURI	Mechanical
54.	U17ME278	DHANUSH	Mechanical
55.	U17ME285	PANDURANGAN	Mechanical
56.	U17ME286	YOGACHENDOORAN	Mechanical
57.	U17ME015	KUNDRAPU	Mechanical
58.	U17ME018	MUKKAMALLA NANDISHWARA REDDY	Mechanical
59.	U17ME024	PALAPARTHI	Mechanical
60.	U17ME028	RANJITHKUMAR	Mechanical



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FEEDBACK FORM

- ❖ As part of a continuing improvement process, our college appreciates suggestions and inputs regarding the institution. We request you to sincerely answer these questions under assurance of complete confidentiality. Your interest in making our institution better is greatly appreciated.

Name of Department : .. MECH ATRONICS

Date : .. 12-10-2018

Event / Speaker Name : .. INDUSTRIAL AUTOMATION AND CONTROL

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

S.NO	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	The Topic					
	The choice of topic was relevant to me					✓
2.	The Lecturer / Speaker					
	Self-confidence					✓
	Communication skills					✓
	Doubts/ queries were answered satisfactorily					✓
3.	The Content (Topic)					
	Refers to latest developments in the field					✓
	Career oriented					✓
	Innovative learning, if any					✓

- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
				✓

- Comments (If any):

— outstanding —



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			✓	

- Comments (If any):

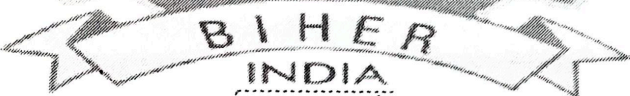
_____ excellent Presentation _____

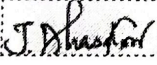
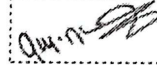
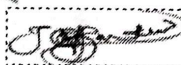
MODEL CERTIFICATE


   **Bharath**  **A NAAC** 
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Bharath Institute of Science and Technology

CERTIFICATE OF PARTICIPATION

This is to certify that
Prof./Dr./Mr./Ms. **PALAPARTHI (U17ME024)**
Of
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY, BIHER, CHENNAI.
He/She has Participated in a Seminar On "Industrial Automation and Control" Organized by
the School of Mechanical Sciences, Department of Mechatronics, on 8th Oct 2018



  
Coordinator **Convener** **Dean-Engineering**

Certificate No : **BIST/MT/VAC/025** 



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Department of Mechatronics

Value added course "Industrial Automation and Control"

