

**ESWAR COLLEGE OF ENGINEERING:
NARASARAOPET**

Approved by AICTE, New Delhi., Affiliated to JNTUK, Kakinada
Kesanupalli Village, Narasaraopet – 522 601,
Palnadu Dist. A.P.

Phone No. 9121214708

Email ID: principal@eswarcollegeofengg.org, eswarcollegeofengg@gmail.com
web:eswarcollegeofengg.org

Department of Automobile Engineering

26/06/2018

To
The Principal
Eswar College of Engineering
Narasaraopet

Through HOD-AME

From
G.naveen
Assistant Professor
Faculty Coordinator

Sub: Requesting for permission to conduct a value-added course on Robotics & automation from 02/07/18 to 07/07/18

Dear Sir,

The Department of Automobile Engineering is planning to organize a 1-week value-added course on **Robotics & automation** from 02/07/18 to 07/07/18

Total Number of Students registered: 6 No's (IV B.Tech I Sem).

Resource Person: G.Radha krishna Mechanical Department, Vignana's LARA Institute of Technology & Science College in Vadlamudi, Andhra Pradesh

Certificate Criteria: 60% of marks in Evaluation, 80% of attendance

In connection with the programme, we request your approval to organize the same and to make the programme a grand success.

Thanks, and regards,

Name: G.Naveen

G.Naveen
Signature

HOD- Comments *Please consider - G*

Principal Comments: *Recommended*

Approved/ Rejected *[Signature]*
PRINCIPAL

ESWAR COLLEGE OF ENGINEERING
NARASARAOPET-522 601, Guntur (D.A)

[Signature]
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ESWAR COLLEGE OF ENGINEERING
NARASARAOPET-522 601, Guntur (D.A)



ESWAR

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to JNTUK Kakinada, Kakinada, AP
Kesanupalli (V), Narasaraopet - 522549. www.eswarcollegeofengg.org



+91 98855 78652

+91 99636 34414



Email: eswarcollegeofengg@gmail.com

Website: www.eswarcollegeofengg.org



Date: 27-06-2018

CIRCULAR

All B. Tech IV-I AME students are hereby notified that a value-added course titled "ROBOTICS & AUTOMATION" will be conducted from 02-07-2018 to 07-07-2018, It is mandatory for all students to enroll their names with course coordinator G.NAVEEN, Assistant Professor, AME

Copy to:

- 1. A.O
- 3. Library

- 2. Accounts
- 4. Exam Cell

[Signature]
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 ESWAR COLLEGE OF ENGINEERING
 NARASARAOPET-522 601, Guntur (Dt.)

HODs:

CIVIL	EEE	MECH	ECE	CSE	AME	S&H
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

IV AME CLASS ROOM - *[Signature]*

III AME CLASS ROOM - *[Signature]*

II AME CLASS ROOM - *[Signature]*

[Signature]
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 NARASARAOPET-522 601, Guntur (Dt.)



ONE
WEEKWORKSHOPON
ROBITICS &
AUTOMATION

(02-07-2018 to 07-07-2018)

ESWAR COLLEGE OF ENGINEERING
Kesanupalli (V), Narasaraopet - 522 601

Registration Form

Name: _____
Department: _____
Designation: _____
Organisation: _____
Address: _____
Contact No.: _____
E-mail: _____

CERTIFICATE

This is certified that ,Mr./Mrs./_____ is nominated for attending One Week National Workshop On Robitics & automation Eswar College of Engineering ,Kesanupalli (V) ,Narasaraopet (M),Guntur-Dt.

On 02-07-2018 to 07-07-2018

Signature of _____
The Candidate HOD/Principal with Seal



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ABOUT ESWAR COLLEGE OF ENGINEERING
Eswar College of Engineering was established during the academic year 2008 -09 and sponsored by Shaik Dada Saheb Charitable Trust, with a vision of Imparting futuristic ethnical education and instill high patterns of discipline in order to set global standards and making the students technologically superior and ethically strong. The young and dynamic promoters have selected this rural area with lot of foresight. The Institution is spread over 22 acres of lush green landscape and located at 5thkm stone on the Narasaraopet- Chilakaluripet Road. The Institution offers the UG Courses B.Tech-CIVIL, EEE, ECE, CSE, AME, ME, PG Courses M.Tech-PE&ED, DECS, CSE, and CAD/CAM & MBA. The

Tourist places nearby are Kotappakonda, Amaravathi, Suryalanka Beach. **Eswar College of Engineering is having MOU with International Institute of Information Technology IIIT-Hyderabad and introduced CIT Programme for students Digital Class facility is also provided in association with Manipal K12, Bangalore, the very first college in Andhra Pradesh**

Address for Correspondence:
The Co-Ordinator,

ONE WEEK WORKSHOP ON
ROBITICS & AUTOMATON

ESWAR COLLEGE OF ENGINEERING, KESANUPALLI (V),

NARASARAOPET (M), GUNTUR (DT),

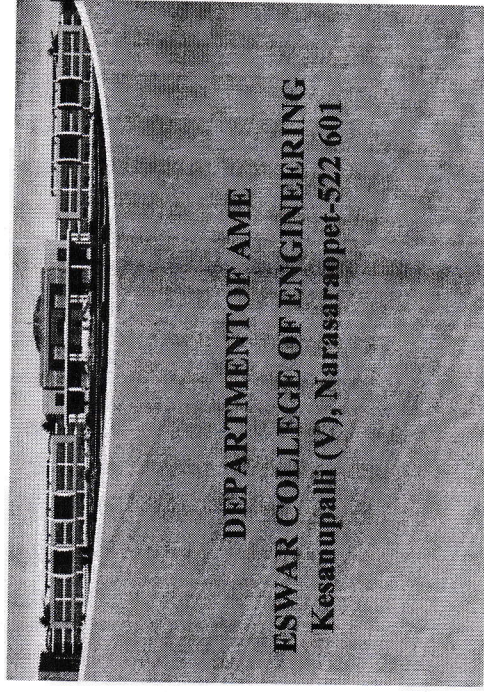
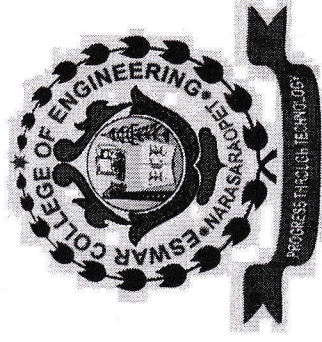
E-mail: eswarcollegeofengg@gmail.com

PH NO: 8985793922/9581741110

ONE WEEK WORKSHOP ON
ROBITICS &
AUTOMATION

(02-07-2018 to 07-07-2018)

Organized by



SCHEDULE OF THE PROGRAMME:

S.NO	Day-Wise	Course Content
1	Day-1	Introduction
2	Day-2	Mechatronics and sensors
3	Day-3	Mechatronics and sensors
4	Day-4	Robot kinetics and dynamics
5	Day-5	Robot kinetics and dynamics
6	Day-6	Programmimg and control

WORKSHOP:

The objective of workshop is to see that the students are well trained for the Prerequisite courses of certification

Training Methodology:

- offline

RESOURCE PERSONS:

1. G. RADHA KRISHNA

No Registration fee.

Application in the prescribed format duly sponsored by the Head of Dept/Institution or scanned copy of the application form may also be send through E-mail to the Co-ordinator so as to reach on or before 31-06-2018. It is mandatory that the faculty/students applied for workshop must attend the course if selected. Participation certificate will be issued. No Accommodation.

CHIEF PATRONS

SRI.SHAIK.MEERAVALI

Chairman

SRI.SHAIK.KAREEM MOHIDDIN

Secretary & Correspondent

SRI.SHAIK MASTHAN SHARIF

Managing Director

PATRON

DR.G. NAGA MALLESWARA RAO

Principal

Convener

Sri. R RAMBABU HOD AME

Department, Ph:9848982678

CO-ORDINATOR

Sri. G. NAVEEN M.Tech,

PH:9949618563

SEND YOUR ENTRIES TO :

The Co-Ordinator,

ONE WEEK WORKSHOP ON

ROBITICS & AUTOMATION

ENGINEERING, KESANUPALLI (V),

NARASARAOPET (M), GUNTUR-DT

Ph. No: 8985793922, 9581741110

E-mail:

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web:eswarcollegeofengg.org

Department of AUTOMOBILE Engineering

Course Name: Value Added Course on robotics and automation

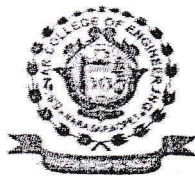
Proposed Syllabus

- Introduction to robotics and automation(9L)
- Mechatronics and sensors(8L)
- Robot kinematic and dynamics(10L)
- Robot programming and control(9L)

CO Statements

CO's	CO Statements
CO1	Understanding the fundamentals of robotics, automation and their applications
CO2	Learn about localization, path planning, obstacle avoidance

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Department of Automobile Engineering

Feedback form

Course Name: *Robotics & Automation*

Please place tick marks at the respective column

S.No	Particulars	Excellent	Very good	Good	Average	Poor
1	How well did you achieve this learning goal in this course?		✓			
2	Does the course content meet the expectation?	✓				
3	is lecture sequence well planned?		✓			
4	Does Lecture content illustrate with adequate examples?	✓				
5	Do you expect Level of the course is up to the standards?	✓				
6	Does Course meet the level of new knowledge?		✓			
7	is the lecture clear and easy to understand?	✓				
8	Did you expect Teaching aids are effectively used?	✓				
9	Does The resource person interact well and clear the doubts?		✓			
10	Overall organization of the course	✓				

Comments

1. *This program is useful for our future projects.*

2.

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SK Abdul Razaq
Signature of the student



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Department of Automobile Engineering

Feedback form

Course Name: *Robotics & Automation*

Please place tick marks at the respective column

S.No	Particulars	Excellent	Very good	Good	Average	Poor
1	How well did you achieve this learning goal in this course?	✓				
2	Does the course content meet the expectation?		✓			
3	Is lecture sequence well planned?	✓				
4	Does Lecture content illustrate with adequate examples?		✓			
5	Do you expect Level of the course is up to the standards?	✓				
6	Does Course meet the level of new knowledge?		✓			
7	Is The lecture clear and easy to understand?	✓				
8	Did you expect Teaching aids are effectively used?		✓			
9	Does The resource person interact well and clear the doubts?		✓			
10	Overall organization of the course	✓				

Comments

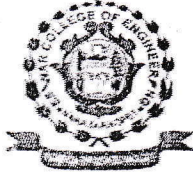
1. *The course conducted is excellent and useful*

2.

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A. Gopi
Signature of the student



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Department of Automobile Engineering

Feedback form

Course Name: *Robotics & Automation*

Please place tick marks at the respective column

S.No	Particulars	Excellent	Very good	Good	Average	Poor
1	How well did you achieve this learning goal in this course?	✓				
2	Does the course content meet the expectation?		✓			
3	is lecture sequence well planned?	✓				
4	Does Lecture content illustrate with adequate examples?		✓			
5	Do you expect Level of the course is up to the standards?	✓				
6	Does Course meet the level of new knowledge?	✓				
7	is The lecture clear and easy to understand?		✓			
8	Did you expect Teaching aids are effectively used?	✓				
9	Does The resource person interact well and clear the doubts?		✓			
10	Overall organization of the course	✓				

Comments

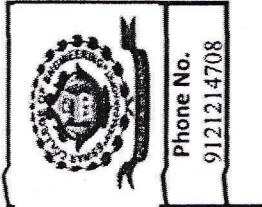
1. *overall course and classes are very interesting.*

2.

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V. Manoj Kumar
Signature of the student



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 Palnadu Dist. A.P.

Phone No.
9121214708

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web:eswarcollegeofengg.org

Department of AME

Feedback Analysis

Course Name:ROBOTICS AND AUTOMATION

Number of students attended/ given feedback 6

S.No	Particulars	Excellent	Very good	Good	Average	Poor	levels
1	How well did you achieve this learning goal in this course?	4	1	1			0.875
2	The course contain meet the expectation	3	1	1		1	0.708333
3	The lecture sequence was well planned	4	1		1		0.833333
4	Lecture content illustrated with adequate examples	3	1	1	1		0.75
5	Level of the course up to the mark?	4			1	1	0.708333
6	Course highlights the level of new knowledge	4	1	1			0.875
7	The lecture was clear and easy to understand?	4	1	1			0.875
8	Teaching aids are effectively used?	3	1	1	1		0.75
9	The resource person interacted well and cleared the doubts.	4	1	1			0.875
10	Overall organization of the course	4	1			1	0.791667

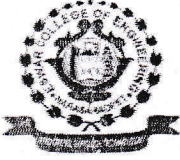
0.804167

Over all feedback value :

3.216666667

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web: eswarcollegeofengg.org

Department of AME

Course Name: Value Added Course on Robotics and automation

Evaluation of the Value-Added Courses

Answer all the Questions Each Question Carry 1 Mark

Total Marks: 20M

Min Marks: 12 Marks

Name of the Student

H.T. No:

Marks obtained:

1. Which of the following is not a common input device in a control system? []

- a) Sensors
- b) Actuators
- c) Timers
- d) Speakers

2. What type of control system uses a set of pre-programmed instructions to control a process? []

- a) Sequential control
- b) Programmable Logic Control
- c) Proportional control
- d) Integral control

3. Which type of control is used to adjust the speed of a motor? []

- a) On-off control
- b) Servo control
- c) Proportional control
- d) Integral control

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4. What type of control system uses a model of the process being controlled to make decisions? []

- a) Model-based control
- b) Fuzzy control
- c) Neural network control
- d) All of the above

5. What type of control system uses feedback to adjust the output in order to maintain a constant set point? []

- a) Open-loop control
- b) Closed-loop control
- c) Hybrid control
- d) None of the above

6. Which component of a control system compares the desired output to the actual output? []

- a) Sensor
- b) Actuator
- c) Control valve
- d) Comparator

7. What type of control system adjusts the output based on the rate of change of the input? []

- a) Proportional control
- b) Integral control
- c) Derivative control
- d) All of the above

8. What type of control system adjusts the output based on the accumulated error over time? []

- a) Proportional control
- b) Integral control
- c) Derivative control

d) All of the above

9. What type of control system is used to control the temperature of a furnace? []

a) On-off control

b) Servo control

c) Proportional control

d) Integral control

10. What type of control system uses a computer to continuously monitor and adjust process variables remotely? []

a) PLC control

b) DCS control

c) Remote SCADA control

d) Both a and b

11. What type of control system is used to control a manufacturing process? []

a) Batch control

b) Continuous control

c) Discrete control

d) Process control

12. Which component of a control system generates the output signal? []

a) Sensor

b) Actuator

c) Controller

d) Valve

13. What type of control system uses a combination of feedback and feedforward control? []

a) Open-loop control

b) Closed-loop control

c) Hybrid control



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12

d) None of the above

14. What type of control system adjusts the output based on the accumulated error over time and the rate of change of the input? []

a) Proportional control

b) Integral-Derivative control

c) Derivative control

d) All of the above

15. What type of control system uses a mathematical model of the process to make decisions? []

a) Model-based control

b) Fuzzy control

c) Neural network control

d) All of the above

16. What type of control system uses a pre-programmed set of rules to make decisions? []

a) Fuzzy control

b) Rule-based control

c) Neural network control

d) All of the above

17. What type of control system is used to control the pressure of a process? []

a) On-off control

b) Servo control

c) Proportional control

d) Integral control

Answer: c) Proportional control

18. What type of control system is used to control the movement of a robot? []

a) Position control

b) Velocity control



- c) Torque control
- d) All of the above

19. What is the primary goal of industrial automation?

[1]

- a) To increase efficiency
- b) To reduce costs
- c) To improve safety
- d) All of the above

20. What are the main components of an industrial automation system? []

- a) Sensors, actuators, and a control system
- b) Robots, conveyors, and a control system
- c) PLC, HMI and a control system
- d) All of the above



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Phone No. 9121214708

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web:eswarcollegeofengg.org

Department of AME

Course Name: ROBOTICS&AUTOMATION (02/07/2018 TO 07/07/2018)

YEAR/SEM: IV/I

A.Y : 2018-2019

ANSWERS FOR ROBOTICS & AUTOMATION

1. D
2. B
3. B
4. D
5. B
6. D
7. C
8. B
9. C
10. C
11. D
12. C
13. C
14. B
15. A
16. B
17. C
18. D
19. D
20. C

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Phone
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eswarcollegeofengg@gmail.com

web: eswarcollegeofengg.org

Department of AME

Course Name: Value Added Course on Robotics and automation

Evaluation of the Value-Added Courses

Answer all the Questions Each Question Carry 1 Mark

Total Marks: 20M

Min Marks: 12 Marks

Name of the Student : A. Gopi

H.T. No: 155E1A2403 **Marks obtained:**

19
20

1. Which of the following is not a common input device in a control system? []

a) Sensors

b) Actuators

c) Timers

d) Speakers

D

2. What type of control system uses a set of pre-programmed instructions to control a process? []

a) Sequential control

b) Programmable Logic Control

c) Proportional control

d) Integral control

B

3. Which type of control is used to adjust the speed of a motor? []


a) On-off control

b) Servo control

c) Proportional control

d) Integral control

B


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4. What type of control system uses a model of the process being controlled to make decisions?
[]

D

- a) Model-based control
- b) Fuzzy control
- c) Neural network control
- d) All of the above

5. What type of control system uses feedback to adjust the output in order to maintain a constant set point?
[]

B

- a) Open-loop control
- b) Closed-loop control
- c) Hybrid control
- d) None of the above

6. Which component of a control system compares the desired output to the actual output?
[]

D

- a) Sensor
- b) Actuator
- c) Control valve
- d) Comparator

7. What type of control system adjusts the output based on the rate of change of the input?
[]

C

- a) Proportional control
- b) Integral control
- c) Derivative control
- d) All of the above

8. What type of control system adjusts the output based on the accumulated error over time?
[]

A

- a) Proportional control
- b) Integral control
- c) Derivative control



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d) All of the above

9. What type of control system is used to control the temperature of a furnace?

[]

C

a) On-off control

b) Servo control

c) Proportional control

d) Integral control

10. What type of control system uses a computer to continuously monitor and adjust process variables remotely?

[]

C

a) PLC control

b) DCS control

c) Remote SCADA control

d) Both a and b

11. What type of control system is used to control a manufacturing process? []

a) Batch control

D

b) Continuous control

c) Discrete control

d) Process control

12. Which component of a control system generates the output signal? []

a) Sensor

C

b) Actuator

c) Controller

d) Valve

13. What type of control system uses a combination of feedback and feedforward control?

[]

C

a) Open-loop control

b) Closed-loop control

c) Hybrid control

d) None of the above

14. What type of control system adjusts the output based on the accumulated error over time and the rate of change of the input?

a) Proportional control

B ✓

b) Integral-Derivative control

c) Derivative control

d) All of the above

15. What type of control system uses a mathematical model of the process to make decisions?

a) Model-based control

A ✓

b) Fuzzy control

c) Neural network control

d) All of the above

16. What type of control system uses a pre-programmed set of rules to make decisions?

a) Fuzzy control

B ✓

b) Rule-based control

c) Neural network control

d) All of the above

17. What type of control system is used to control the pressure of a process?

a) On-off control

C ✓

b) Servo control

c) Proportional control

d) Integral control

Answer: c) Proportional control

18. What type of control system is used to control the movement of a robot?

a) Position control

D ✓

b) Velocity control



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c) Torque control

d) All of the above

19. What is the primary goal of industrial automation?

a) To increase efficiency

b) To reduce costs

c) To improve safety

d) All of the above

[]

D

20. What are the main components of an industrial automation system? []

a) Sensors, actuators, and a control system

b) Robots, conveyors, and a control system

c) PLC, HMI and a control system

d) All of the above

C



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web:eswarcollegeofengg.org

Department of AME

Course Name: ROBOTICS&AUTOMATION (02/07/2018 TO 07/07/2018)

YEAR/SEM: IV/I

A.Y : 2018-2019

MARKS SHEET

SNO	HTNO	NAME OF STUDENT	MARKS(MAX 20M)
1	15JE1A2401	SHAIKKHANUBHAIGARI ABDUL RIYAZ	17
2	15JE1A2403	AVULA GOPI	19
3	15JE1A2404	VANGURI MANOJ KUMAR	16
4	15JE1A2405	SHAIK MOHAMMAD HANIF	18
5	15JE1A2406	DUGGI THIRUPATHI RAO	16
6	16JE5A2401	THEEGURI THIRUPATHI REDDY	17


COURSE COORDINATOR


HOD

HOD

Department of AME

Eswar College of Engineering


Kesanupalli (V), Narasaraopet-522 601

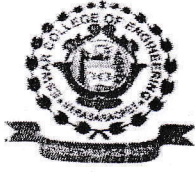

PRINCIPAL

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ESWAR COLLEGE OF ENGINEERING: NARASARAOPET

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Department of AUTOMOBILE Engineering


Summary of the Program


Course Name: Value Added Course on Robotics and automation

1. A value-added course on robotics and automation offers introduction , sensors and mechatronics.
2. It covers various robotics and automation like kinematic and dynamics, robot programming and control.
3. Through this course, participants acquire the knowledge and skills needed to contribute to the transition towards a more sustainable of automation.
4. Total 6 No of students are registered out of the 6 No of students are Qualified.


Faculty Coordinator


HOD-AME
HOD
Department of AME
Eswar College of Engineering
Kesanupalli (V), Narasaraopet-522


Principal
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