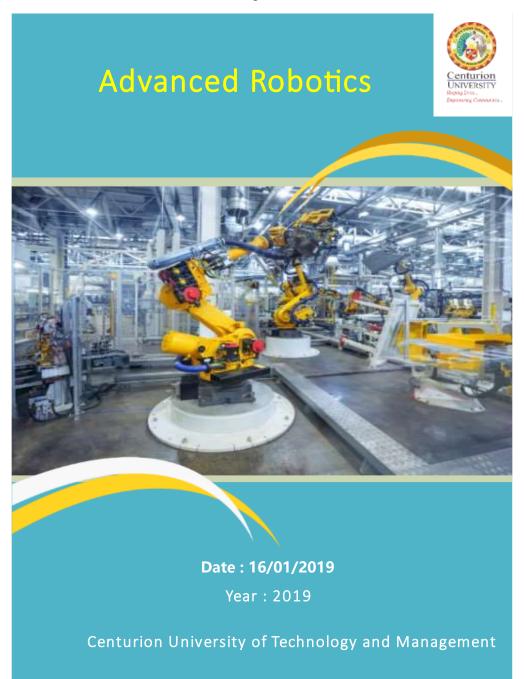


Advanced Robotics

YEAR-2019

This Advanced Robotics webinar was organized on the year of 2019 By Centurion University of Technology and Management, which gives the basic concepts of robot like – its architecture, working and more.





Course Objectives:

Now a days everything is getting automated so as our daily works also like our vehicle, our house hold electrical systems etc. So the ROBOT is also becoming our daily life partner. It helps in cleaning our houses, cooking our food, medical surgeries, guiding robots, fire extinguisher robot etc. So it is now latest technology to be learnt and implemented.

Learning Outcomes

The trainees will learn what are the basic concepts of robots like architecture, working, controlling and there working environment. They will have a basic knowledge of robotic control, sensor operation and control and interfacing of hardware and software.

Module	Contents	Duration
Module1	SENSORS Selecting sensors as per the project. Specification checking of sensors. Interfacing of sensor to controllers. Practice TILT, PROXIMITY, TEMPERATURE, HUMIDITY, SMOKE, FINGERPRINT BLUETOOTH, ESP8266, GPS, GSM MOTOR'S & ACTUATOR'S CONTROLLER Servo motor and controller. Stepper motor & controller. Dc motor controller and other output field devices. Practice 1. Operation and control of servo motor 2. Operation and control of stepper motor 3. Operation control of DC motor 4, Output devices solenoid valves, relay, plunger	t
Module2	CONTROLLERS AND INPUT/OUTPUT HANDLING Concept of 8951 controller. Concept of Arduing and concept of Raspberry Pi. Practice Port handling of 8951 Port handling of Arduino Port handling of Raspberry Pi SEQUENTIAL ROBOT CONTROL Designing of sequential robot control system. Writing of programs in different programming languages. Controlling of input/output devices.	
Module3	Practice Programming of controllers with different programming languages Designing of sequential control robot. Projects Mobile controlled robot Autonomous operated robot. Location targeted robot	10 hours
	TOTAL	30 hours



Dr. Anita Patra, Registrar, CUTM



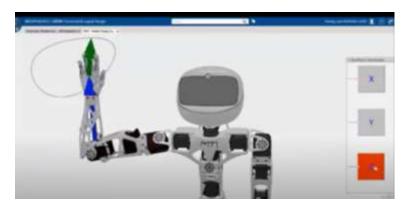
Convener



A REPORT ON NAME OF THE EVENT: ADVANCED ROBOTICS TOTAL NUMBER OF PARTICIPANTS: 43 ACADEMIC YEAR: 2018-19 DATE: 16.01.2019

Nowadays everything is getting automated so as our daily works also like our vehicle, our household electrical systems etc. So, the ROBOT is also becoming our daily life partner. It helps in cleaning our houses, cooking our food, medical surgeries, guiding robots, fire extinguisher robots etc. So, it is now the latest technology to be learnt and implemented.

The trainees in the program learnt on the basic concepts of robots like architecture, working, controlling and their working environment. They also enhanced basic understanding of robotic control, sensor operation and control and interfacing of hardware and software.



Introduction on Robotics on 16.01.2019

This event also helped the trainees to understand the upcoming applications of advanced robotics and how soon enough robotics will emerge as the most disruptive technology on our planet.

The participants of the program were able to equip themselves with knowledge, concepts, and principles, skills pertaining to designing, operating and servicing methods for Advanced Robotics.

The followings were a few significant areas which were extensively covered in the program along with project work.

- Sensors
- Motor & Actuator Controller
- Controllers and Input/Output Handling
- Sequential Robot Control

Dr. Anita Patra, Registrar, CUTM



List of Participants:

Name of Event: ADVANCED ROBOTICS

Organized by: Centurion University of Technology and Management

Date: 16 January 2019

This Advanced Robotics webinar was organized in the year of 2019 By Centurion University of Technology and Management, which gives the basic concepts of robot like – its architecture, working and more.

List of Participants:

S. No.	Name	Registration No.	Present/Absent
1	D GIRIDHAR	170101160013	Present
2	DUVVARI SHYAMSUNDARA RAO	170101160007	Present
3	EPILLI SUSANTA	170101160005	Present
4	KADAGALA GOPALA KRISHNA	170101160015	Present
5	KAPPALA SHYAM SUNDAR	170101160029	Present
6	MOHAMMAD KAMRAN	170101160027	Present
7	MOSA ABHISHEKH	170101160026	Present
8	PINNINTI VIKASH	170101160014	Present
9	SADASIVUNI SAI KUMAR PATTNAIK	170101160019	Present
10	SAHUKAR SAIKRISHNA	170101160025	Present
11	TAMADA CHAKRAVARTHY	170101160010	Present
12	UDU SAIKUMAR	170101160002	Present
13	O.DILLESWAR RAO	180101160010	Present
14	YESHI WANGCHUK	180101160011	Present
15	VOONA SRIJA	170101120019	Present
16	P. HARSHAVARDHAN	170101120020	Present
17	SAI KIRAN KUMAR PANDA	180101160005	Present
18	RATNALA AKHIL	180101160006	Present
19	RAGHUTHU SHIVA	180101160008	Present
20	JAGADISH DASH	180101161012	Present
21	KAMAL BEHERA	170301160002	Absent
22	MD HAFIZUR REHMAN	170301160008	Present
23	BISWAJIT MOHANTY	170301160010	Present
24	ARIPILLI SANTOSH SAIRAM PRASAD	170101160031	Present
25	BALLA YUGENDAR	170101160008	Present
26	BATTINI PRAMEETH KUMAR	170101160028	Present
27	KOMARA SRINIVASA RAO	170101160020	Present
28	KRISHNANDU BORUAH	170101160024	Present

29	MANYALA RAHUL	170101160006	Absent
30	POTNURU SATISH	170101160012	Present
31	RUPAK KUMAR SAMAL	170101160003	Present
32	S. VAMSI KRISHNA	170101160004	Present
33	S.SANDEEP	170101160016	Present
34	SATISH KUMAR PANDA	170101160030	Present
35	SUSHANT PATNAIK	170101160001	Present
36	VANA RUDHIR	170101160022	Present
37	P.SAIKIRAN	180101160007	Present
38	U.MOHAN KUMAR	180101160009	Present
39	G MANIKANTHA	180101160001	Present
40	PONDURU SHYAM SUNDAR RAO	180101160002	Present
42	PALLI PAVAN KUMAR	180101160003	Absent
42	ROUTU CHAITANYA	180101160004	Present
43	DURGASANKAR MOHANTY	170301160013	Present

Anita Patra ()

Dr. Anita Patra, Registrar, CUTM

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Convener