

K S R COLLEGE OF ENGINEERING, TIRUCHENGODE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University

Chennai

ORGANIZED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

WEBINAR

ACADEMIC YEAR: 2020-2021

TITLE

“ ROBOTICS”

on

04.07.2020

Co-ordinators: Dr.P.S.Periasamy,Professor&Head /ECE

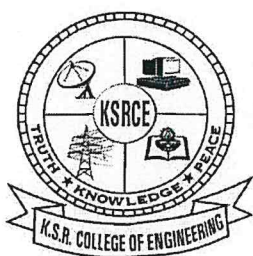
Dr.R.Eswaramoorthi,ASP/ECE

Mr.J.Rameshkumar,AP/ECE

Dr.R.Satheeskumar,ASP/ECE




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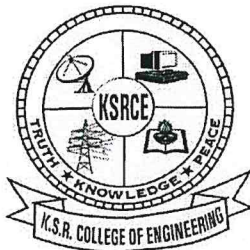
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Event Schedule and Report

1	Name of the Event (Seminar/Workshop/Conference/FDP/Any other)	Webinar
2	Name of the Department	ECE Department
3	Date of the Event	04.07.2020
4	Venue	ONLINE CLASS
5	Title of the Event	Webinar On Robotics
6	Name of the Co-ordinators	Dr.P.S.Periasamy, professor&Head/ECE Dr.R.Eswaramoorthi, ASP/ECE Mr.J.Rameshkumar, AP/ECE Dr.R.Satheeskumar, ASP/ECE
7	Total Participants	40
8	Objectives of the Event	To be successful completion of the event focus on latest research methodologies and relevant skills required in fundamentals of Robotics.




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Department of Electronics and communication Engineering

Organizes

"Webinar on Robotics" On 04.07.2020

Report of the Program

Intent of Webinar:

The development of skills is a must for both faculty and students. In light of this, a "Webinar on Robotics" is organized.

Theme of Webinar:

The webinar was very informative that the faculties and students learnt about the fundamentals of Robotics and its types. It was very useful for gaining knowledge regarding design of Robotics and its types. It was very useful for gaining knowledge regarding design of Robot and real time applications of Robotics. The lecture was even more interesting with the real time examples.

The webinar helped the faculties and students to improve their knowledge on the field of Robotics and the students may have the opportunity to participate in more workshops.

The webinar has also motivated the students to do more projects using sensors for Robotics applications.

Topics Covered:

The faculty and students learned a lot from the webinar about the basics of robotics and its different subfields. It was really helpful for learning about robotics design and the different kinds of robotics. It was really helpful for learning about robot design and practical robotics applications. With the use of actual-world examples, the lesson was much more engaging. The following research topics were discussed in the webinar. They are:

- Electricity, microelectronics, and electromagnetism.
- Digital circuits and computation.
- Image processing, face, and character recognition.
- Video analysis and manipulation.
- Telecommunications networks.
- Autonomous vehicles.
- Recent Research and Development in the field of Robotics
- Robotics research methodologies.
- The first robotics-relevant skill from the WEF report was "complex problem-solving."

Overall, updated and useful research methodologies were discussed in webinar.

Co-ordinator

HOD/ECE

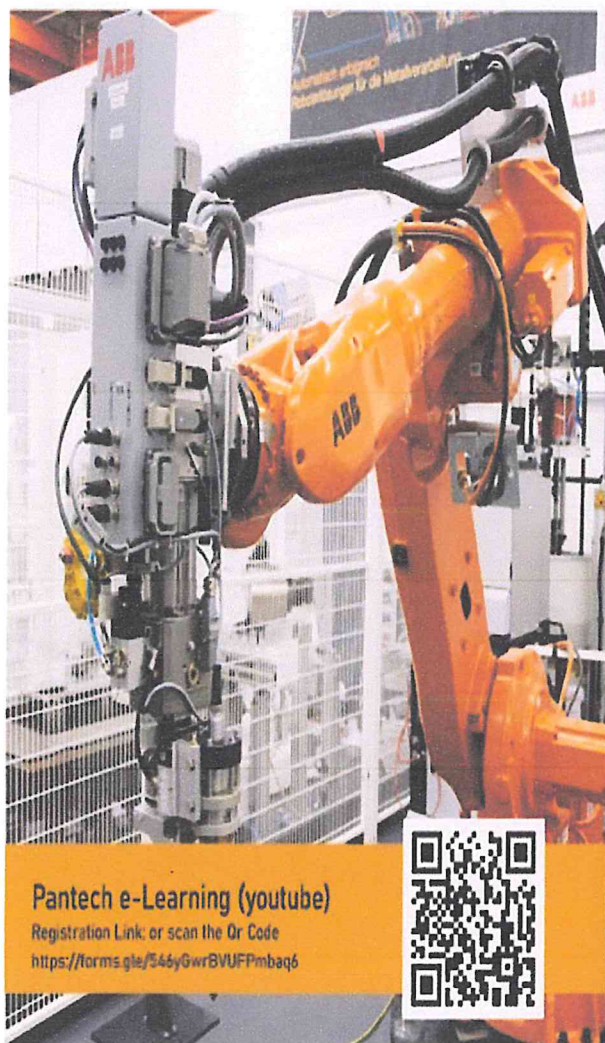


Principal

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
WEBINAR ON “ROBOTICS”

INFORMATION BROCHURE



Pantech e-Learning (youtube)

Registration Link: or scan the Qr Code
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Organized by
Department of Electronics and Communication Engineering
in association with Pantech E Learning

WEBINAR ON

ROBOTICS

04-07-2020 at 4.00 PM

Convenor

Dr. P. S. Periasamy, Professor & Head / ECE.

Coordinators

Dr. R. Eswaramoorthi, ASP / ECE - 8667403188

Mr. J. Rameshkumar, AP / ECE - 9791262595

Dr. R. Satheeskumar, ASP / ECE - 9976623144

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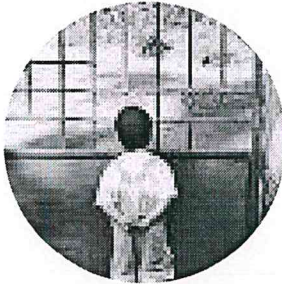
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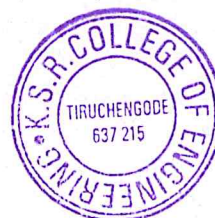
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- Herna Malini Ananthalingam Good evening all
- EDE Madhumitha good evening
- SWAMINATHAN S SUNDARESWAMY WHAT HAPPENED GOOD EVENING SIR
- Riz mass good evening sir
- Shubham Singh sir where is certificate of previous webinar form 29 Jun
- Lalapan Kalyan good evening
- Pramod Nair Now it is audible
- ANAND R good evening sir
- Premavani Rajendra some audio problem
- surendra pandey hello everyone
- Dr.A Parvathagan Good evening all
- Badal Acharya Good evening to all
- manikandan kaliyamoorthi good evening sir
- Sebastian James audible

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- uday rayapudi Good Evening all
- niran iyyan Good Evening all
- uday rayapudi yes sir
- Kayathri Dhandapani s sir
- Dr Increase the voice
- Madhushree S reddy S sir
- shubhangi Kotkar yes Sir ... audible
- Ashwani Sharma voice is low sir please speak loudly
- Chethana C yes sir
- lavanya achary04 ok sir
- Dhina M K sir
- GOPALKRISHNA BHAT voice is clear sir
- ATHAPPAN V Good Evening to ALL
- Mohd Jabbar khan good evening
- SWAMINATHAN S SUNDARESWAMY INCREASE THE VOICE SIR
- jahar singh lodhi now it is audible

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WHAT IS ROBOTICS ?

DEFINITION

A robot is a machine - especially one programmable by a computer - capable of carrying out a complex series of actions automatically. Robots can be guided by an external control device or the control may be embedded within. Robots may be constructed to take on human form but most robots are machines designed to perform a task with no regard to how they look.

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- ATHAPPAN V Good Evening to ALL
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- Jahar Singh lochi now it is audible
- garima modi good evening
- shanavi chandrashekar-31 WE ARE NOT ABLE TO HEAR PROPERLY
- shanavi chandrashekar-31 increase volume
- \$50_solar System Gaming pls share the registration link... I want to register to attend this webinar...
- Geshupali Ravi sanjar kk sir
- Navya Prabhu tell me project ideas related to robotics
- VINEET MANIAR thank you sir
- KALHA MOHAMED HANIF not audible

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Stanford Arm BY

Victor Scheinman

The Stanford arm is an industrial robot with six degrees of freedom, designed at Stanford University by Victor Scheinman in 1969.

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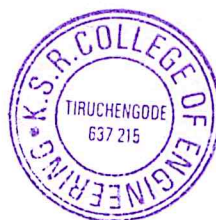
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- Gobind Singh Government Polytechnic , Cheekia
- Podila Nagakalyan hi
- RANICHANDRA SUBBIAH Good evening to all
- VIJAY VAGHELA hi
- lavanya achary04 good evening to all
- ANAND R hi
- Naveen kumar certificate link is not working
- 046 Sena N hi
- Naga Raja nice session
- Riyaz khan good session
- Dr S Murugeswar Murti GOOD EVENING ALL
- Ram Natarajan good evening
- Little Smart Kidz good afternoon
- I Sabareesa Priya very good evening to all
- Shubham Kushiwaha good evening sir
- Adithi Hk can't hear your voice sir can u speak louder

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ROBOT COMPONENTS

1. Manipulator or Rover: Main body of robot (links, joints, other structural element of the robot)
2. End Effector: The part that is connected to the last joint (hand) of a manipulator
3. Actuators: Muscles of the manipulators (servomotor, stepper motor, pneumatic and hydraulic cylinder)
4. Sensors: To collect information about the internal state of the robot or to communicate with the outside
5. Controller: Similar to cerebellum. It controls and coordinates the motion of the actuators
6. Processor: The brain of the robot. It calculates the motions and the velocity of the robot's joints, etc.
7. Software: Operating system, robotic software and the collection of routines.

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Prathamesh Bodhe How can Mars rover use IOT

Little Smart Kidz connection diagram please

Yasmeen Begum good evening all

PRAMOD BORDOLE is it necessary to calculate mechanical force

Gnana Moorthy S 16 Hi!!

Prathamesh Bodhe Ok

Gnana Moorthy S 16 nice session

Podile Nagakalyan nice session

Hari Kandasamy yeah tell us about cylindrical manipulators

Hari Kandasamy and programming part of that

pavan kumar nice good class value to time

Ram Natarajan block diagram consists of power supply Controller, Motor Connector, Sensor Connector and Robot. The block diagram expi

Gnana Lakshmi nice

Gnana Moorthy S 16

Gnana Moorthy S 16 Stay safe

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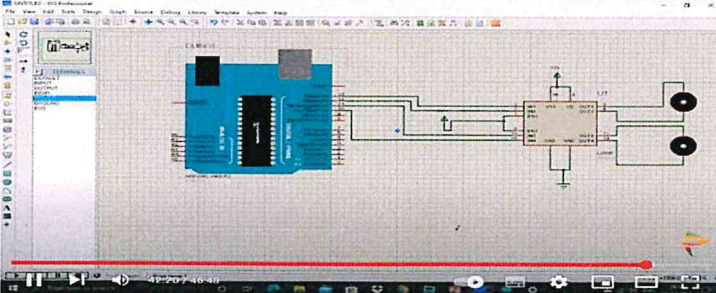
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Gattupalli Ravi sankar thank you sir

sk hazarath thank u sir

Ram Natarajan s simulator name kindly sir

B Sahithi feedback submitted sir

Gattupalli Ravi sankar thank you for your wonderful section sir

Rock wonderful session

jahar singh lothi no audio

Gattupalli Ravi sankar thank you

A M

Prathamesh Bodhe Very Good Session

A M

Talari Madhu no audio

Ram Natarajan kindly sir be louder

GOPALKRISHNA BHAT feedback is about past program

Dr. P.Vanaja VERY GOOD SESSION

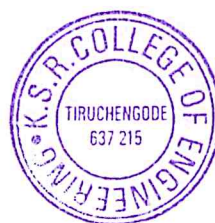
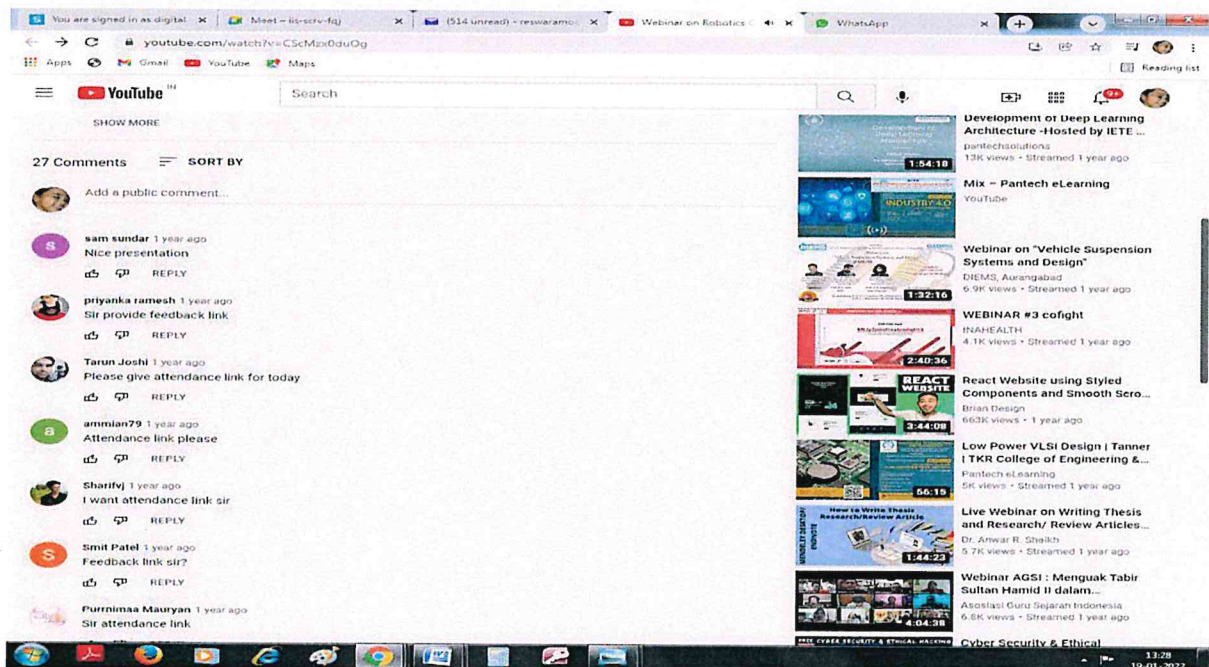
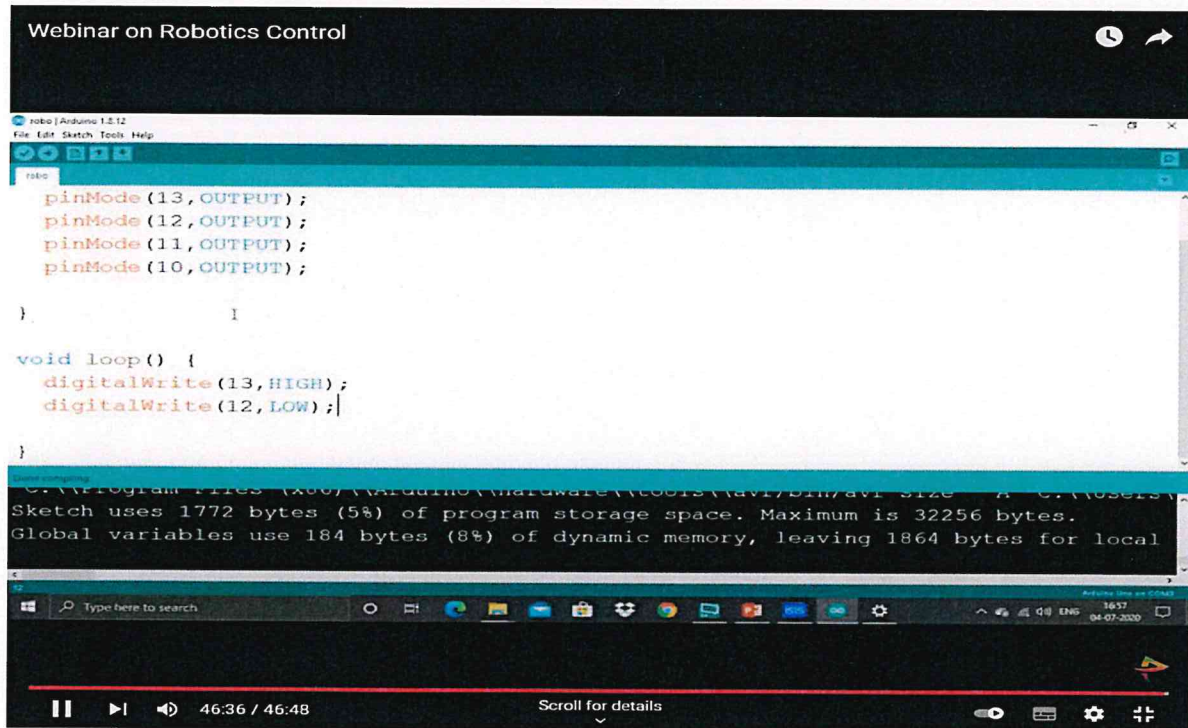
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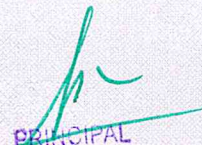
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