Mentor

1 point

Course outline

course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Lecture 23 - Specifications

Lecture 24.1 - Experiment

Week 12 - Lecture Notes

Quiz : Assignment 12

Feedback for Week 12

DOWNLOAD VIDEOS

With PUMA Robot Using VAL-

and Programming

Lecture 24 - VAL

programming

How does an NPTEL online

Due on 2021-04-14, 23:59 IST.

NPTEL » Introduction to Robotics

Accianment 12

Assigni	Helli	14	
The due date for sub	mitting this as	signment has	passed.

As per our records you have not submitted this assignment.

 smallest changes that the control system can distinguish parameter that defines the ability of a control system to stabilish the system.

function of K_p (proportional gain) only

function of K_d (derivative gain) only

No, the answer is incorrect. Score: 0

1) Control resolution is the

Accepted Answers:

smallest changes that the control system can distinguish

Accuracy is

 Independent of the resolution one-third of the control resolution

 Half the control resolution Two-third of the control resolution

No, the answer is incorrect. Score: 0

Accepted Answers: Half the control resolution

VAL language is based on 1 point FORTRAN language

COBOL language

Assembly language

BASIC language

No, the answer is incorrect. Score: 0

Accepted Answers:

BASIC language

Why are the two commands MOVE and MOVES required

To stabilise faster

 To improve the accuracy To save energy

To save time

No, the answer is incorrect. Score: 0

Accepted Answers: To save energy

While positioning the gripper before moving to grasp an object, the command used is

SET

APPRO

HERE MOVET

No, the answer is incorrect. Score: 0

Accepted Answers: **APPRO**

6) While planning a path to move the end effector from one point to another

A straight path is preffered

 A bell shaped curve is preffered the least number of joints are moved

all the joints are actuated to reduce time taken

No, the answer is incorrect. Score: 0

Accepted Answers:

the least number of joints are moved

The closed loop command for closing the gripper is

CLOSE

CLOSET

CLOSEI 75

CLOSEI

No, the answer is incorrect. Score: 0

Accepted Answers: CLOSEI

8) The simplest method by which a robot communicates with another machine is using

The command ON/OFF

Electric signals

Mechanical wave signals (like ultrasonic sound wave)

 Proximity sensors No, the answer is incorrect.

Accepted Answers: The command ON/OFF

Score: 0

An analog signal is converted to digital signal in a proper channel by

MODEM

 Using the command ADC Using a half wave rectifier

Using full wave rectifier

No, the answer is incorrect. Score: 0

Accepted Answers: Using the command ADC

10) An expert welder can teach arc welding to a robot by

 Giving appropriate commands to the robot using a suitable Machine language Giving appropriate commands to the robot using a suitable assembly language

Recording the joint movement of the welder using high definition camera

Lead through teaching using a joystick

No, the answer is incorrect. Score: 0

Accepted Answers:

Lead through teaching using a joystick