MANISH, 02120902818 ECE 8th Sem Robolics Assignment no.2

07. Future Scope of Intelligent Robots.

The future of robotics & Dutificial Intelligence will radically change the working landscape of trany industries. In a sucrey, suspendents were asked to about the impact of Intelligent robots on their workplaces. The arswer was somewhat ambiguous. Some suspendents Said that the sits of intelligent robots would displace some types of work, while others predicted that these technologies would create jobs.

The future of intelligent robots depends on developing reliable data sources that can make robots more capable and intelligent. As the technology impresses more brobats will be used to perform tasks performed by humans; in fact, in some inclustries, the growth of robotics is expected to continue in coming years. As robots become rose capable, they need to integrate with other probatic derices. A robotic econystem must provide secure connectivity, flexible interoperability & analytics tools. while the future of subsolics and out is very exciting, there are still many obstacles to overcome. The current state of the field is highly specialized and robots must be equipped to perform a variety of tasks. while this is not an issue today, a new challenge is in the future of robotics.

De Name HI software used for a write its specifications. Robot's Programmery Allo There we various tools à Softwares to perogram a Robot, one can choose any of them to work with. one of the Software, that is coveredly being used in industry is "Rober DK". It is a powerful and cost-Effective Simulator for industrial robots and programming. It's simulations & offline programming tools allows You to program your UR Robots outside the productive Environment, Eliminating production downtime caused by Shap floor programming. #Features & Specifications > Intuitive graphical user interface: NO programming Skills are required, Diogram your scokat with a few clicks. -3 Robert Machining: optimization tooks are provided to automatically convert (AM Drug. to robot Drug. 5 -> rultiple Robot Simulation: Users Can Decogram 500 Robots

Techanism A Exturnal axis using 6 the same simulation Environment. -> Robot Calibration: Robot Calibration tools are & available to improve subot accuracy. -> Cycle time Calculation.
> Surface & Edge following
> cost effective salution.

03. What do you understand by Intelligent Robot? give Some Examples. A Robard is Sould to be intelligent, iff it is able to perform the trasks given by a human, with the help of Efficient processors, multiple sensors 4 huge memory. These are what, helps a Robat to Exhibit intelligence. These can work faster than humans & parforan multiple tasks Simultaneously, accurately & Effectively, Additionally intelligent scobots are Efficient assistants in important fields, Especially medicine. Though an intelligent Robot have many advantages, but it also comes with Many advantages also, For Example, Their Peroduction Dequives plenty of time, resources a and heigh Cost. Examples of some intelligent robots: >) The New Self obining vehicle
>) Knight Scope autonomous Security scopes -> REV-I Delivery Robot -> The world I concerned Robot "Sopha" - Etc., of Draw a program for a Robot to Pick an object from a particular position to ben or vice-vousa MOVE PI HERE Pi- used dwing leadthrough of manipulator MOVES PI DMOVE (4,125) APPROACH PI, 40 MM DEPART HOHM DEFINITE PATH 123 = PATH (PI, P2, P3)

Scanned with CamScanner

MOVE PATH123 SPEED 75

Input intolock:

WAITRO, ON OUTPUT intoclock:

SILANAL 10, ON

S167NAL 10, 6.0

Intolock For Continous Monitoring:

React 25, SAFESTOP

Guripper
OPEN
CLOSE
Sensor and Souro-Controlled hands
OCLOSE 25 MM

-

5