

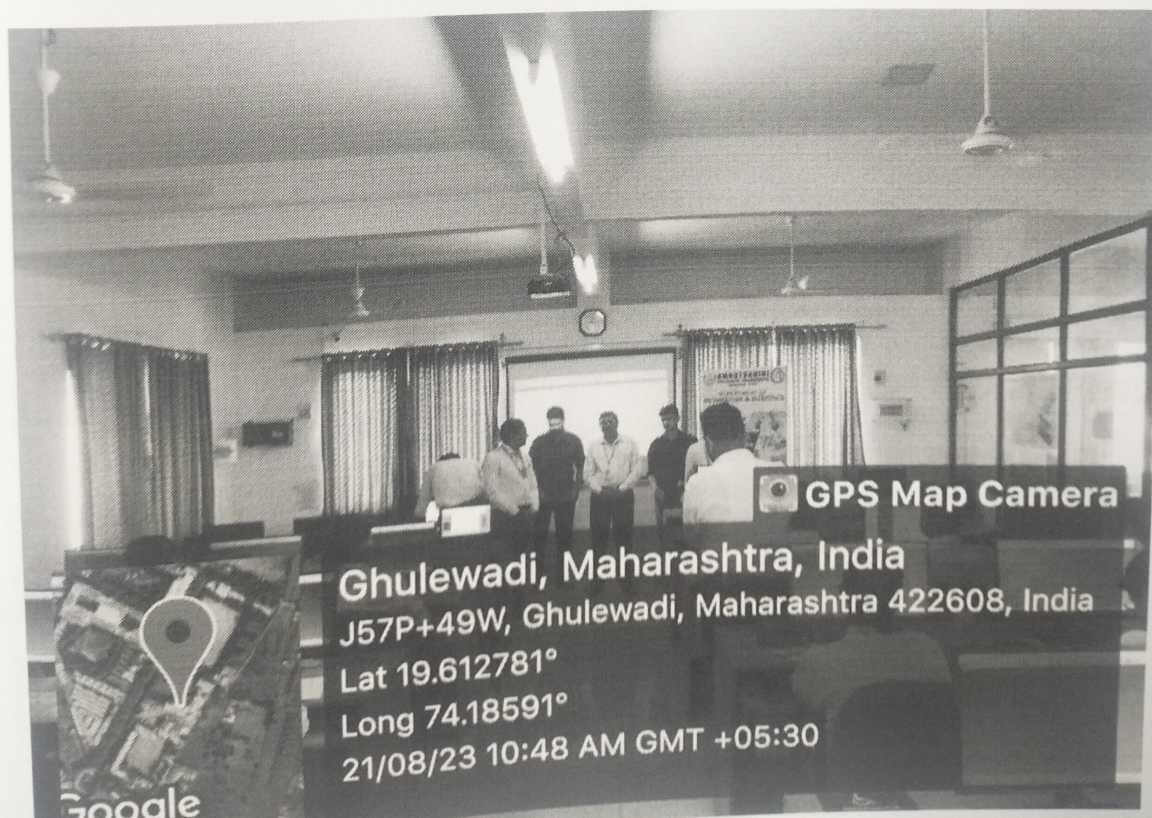
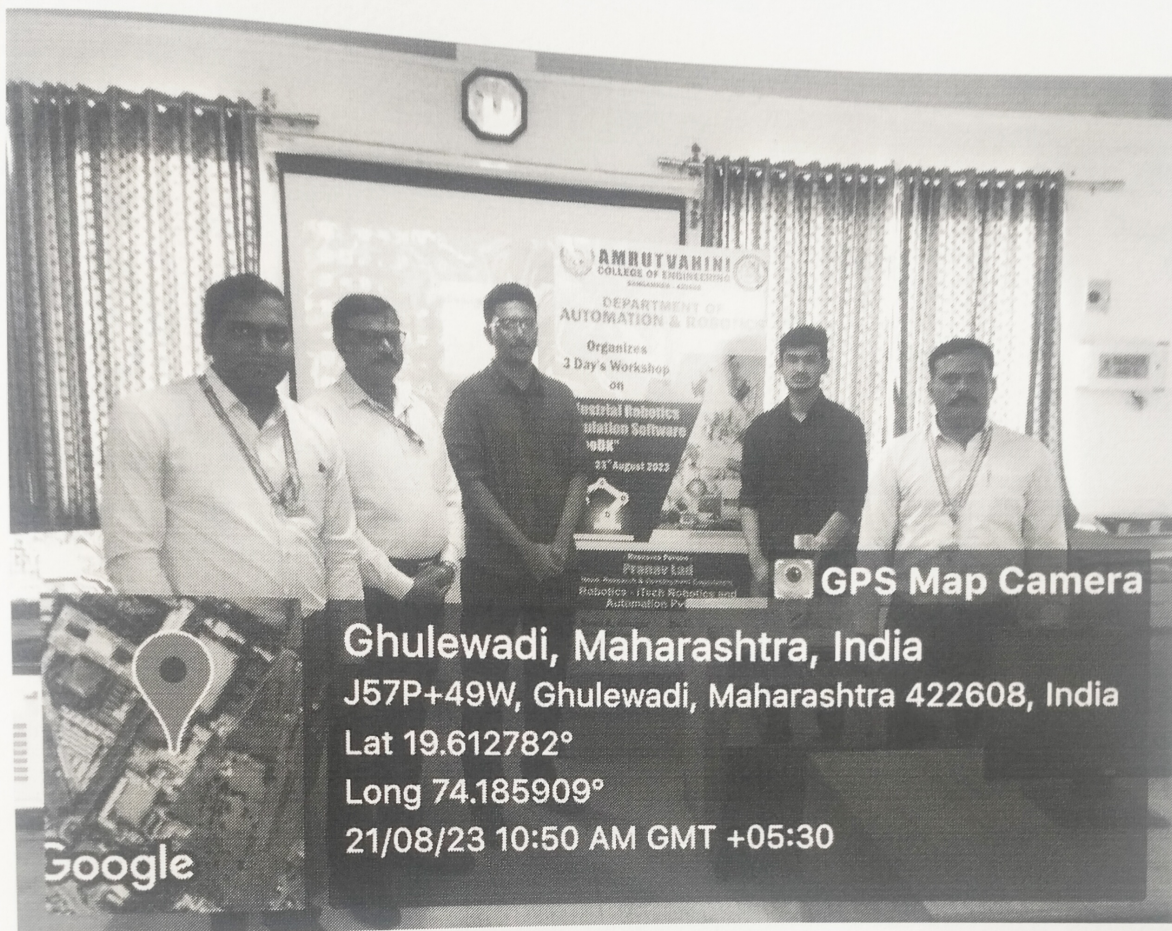
“Industrial Robotics Simulation Software Workshop: RoboDK” Report

- 1. Title of Workshop: Industrial Robotics Simulation Software Workshop: RoboDK.**
- 2. Organized By: Automation and Robotics Engineering Dept.
Amrutvahini College of Engineering, Sangamner.**
- 3. Workshop Coordinator: Mr. Sunil K. Bangar
Mr. Nitin J. Varpe**
- 4. Date of Conduction: 21th August 2023 to 23th August 2023**
- 5. Resource Person Name: Mr. Pranav Lad,(9943124084)
Head Research and Development Department**
- 6. Resource Company Name: iTech Robotics and Automation Pvt. Ltd.**
- 7. Name of Trainers:**
 - 1. Mr. Pranav Vibhute (9156833553)**
 - 2. Mr. Rohan Kale (9637785212)**
- 8. Details of the workshop:**
 - 1) RoboDK:**
 - RoboDK is a powerful and cost-effective simulator for industrial robots and robot programming.
 - RoboDK simulation software allows you to get the most out of your robot.
 - Simulation and Offline Programming of industrial robots has never been easier. Create your virtual environment to simulate your application in a matter of minutes.
 - Easily generate robot programs offline for any robot controller. You don't need to learn vendor-specific programming anymore.
 - 2) What is best about RoboDK?**
 - No programming skills are required with RoboDK's intuitive interface
 - You can easily program any robot offline with just a few clicks
 - RoboDK has an extensive library with over 800 robot arms
 - 3) RoboDK key benefits**
 - The advantage of using RoboDK's simulation and offline programming tools is that it allows you to program robots outside the production environment.
 - With RoboDK you can program robots directly from your computer and eliminate production downtime caused by shop floor programming.
 - 4) What is the use of RoboDK software?**
 - RoboDK is an offline programming and simulation software for industrial robots. The simulation software can be used for many manufacturing projects including milling, welding, pick and place, packaging and labelling, palletising, painting, robot calibration and more.

9. Schedule of Workshop:

	Topics to be covered	Videos related to topics
Day 1		
Module 1	Introduction to RoboDK environment	https://youtu.be/aEjswvQ_QYM
	Robot Jogging - Joint, Linear	https://youtu.be/ghJPMI2R4gY
	Robot Configuration	
	Robot Teaching - Joint, Linear and Circular	
Module 2	Robot Station Setup	
	RoboDK Online Libraries	https://youtu.be/CI3fH1OgJQg
	Trajectory Planning	https://youtu.be/O9k68issciA
	Duplicate Programs	https://youtu.be/Ye7bZVvY7co
	Custom tool addition	https://youtu.be/whwDjMIYGSi
Day 2		
Module 3	Simple Pick and Place	https://youtu.be/VbIFpK3O-YU https://youtu.be/5l5DQoCXEfw
	Dynamic Pick and Place	https://youtu.be/DFUFUona2Es
	Gripper Operation	
	Palletizing Application	https://youtu.be/ChZP9RA6IXs https://youtu.be/Dk0kNS_MpFM https://youtu.be/taGoV7K7_KE https://youtu.be/s_Tdq13Gmgs
Module 4	Conveyor Integration and Programming	https://youtu.be/w48J_ZAoOoc
	Robot and Conveyor Integration	https://youtu.be/_RoKacIWQEQ
	Application	
Day 3		
Module 5	Linear Rails and Pillars	https://youtu.be/FwYJ7FEfdLE
	Machine tending applications	https://youtu.be/4qPwBff-B6o
	Importing a custom robot and defining it's movement	https://youtube.com/playlist?list=PLjiA6TvRACQez7tQ1tpxukudK95u5Qb--
Module 6	Custom Robot Training station	
	Programming using Python	

10. Photos:



To,

Date: 17-08-2023

The Principal,
AVCOE,
Sangamner.

Subject: About permission to arrange accommodation and meals for the guests of 'Industrial Robotics Simulation Software Workshop : RoboDK' , 3 day workshop.
Ref: Academic Calendar.

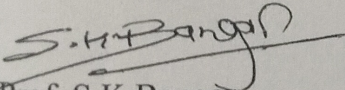
Respected Sir,

With the reference to the above cited subject, we have arranged a three day event of 'Industrial Robotics Simulation Software Workshop: RoboDK' on 21-08-2023 and 23-08-2023. The guests (2 members) are coming on 21/08/2023 (morning). We have to make arrangements of accommodation and meals for the guests (three days).

So, sir we are requesting to give us permission for the same.

Thanking You,

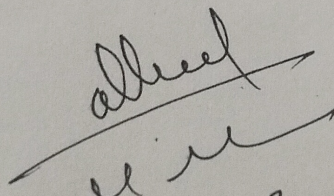
Yours faithfully,

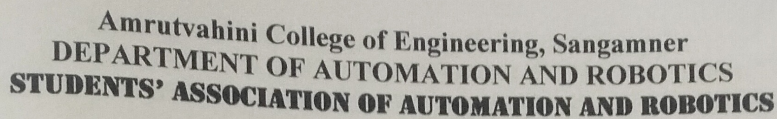

Prof. S.K. Bangar
Co-Ordinator


Prof. Dr. B. R. Borkar
HOD,
Automation & Robotics Engg. Dept.

Expenses

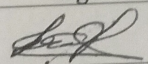
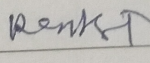
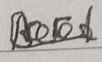
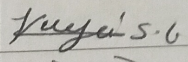
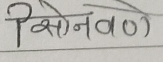
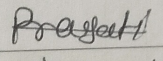
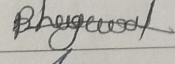
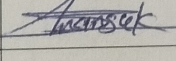
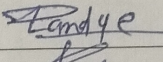
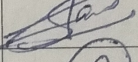
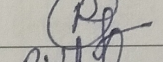
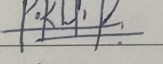
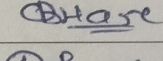
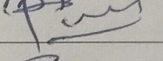
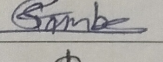
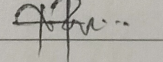
1) Flex Printing : 600/-


19/8/23

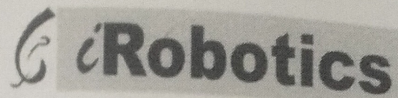


Title: Industrial Robotics Simulation software: RoboDK

Date/Time: 23/08/2023 (9:00 AM to 5:00 PM) Guest:- Mr. Rohan Kale

Sr. No.	Name of the Student	Roll No.	Class	Dept.	Sign
1)	Kawade Ganesh popat	26	TE	A & R	
2)	Thibame Karthik Sankosh	60	T-E	A & R	
3)	Kakod Abhishek Satu	22	TE	A & R	
4)	Gadakh kalyani Sanjay	12	TE	A & R	
5)	Donawane pooja Sitaram	52	TE	A & R	
6)	Talate Pragati Jagdish	56	TE	A & R	
7)	Bhagwat Akshada Balasaheb	1	TE	A & R	
8)	Mansuk Bhubhangi Balasaheb	34	TE	A & R	
9)	Landge prajweli Dattatray	32	TE	A & R	
10)	Thokale Shreyas S.	61	T.E	A & R	
11)	Gavande Rutuja Dashrath	13	TE	A & R	
12)	Pokharkar Parnal Sanjay	44	TE	A & R	
13)	Hare Onkar Balu	18	TE	A & R	
14)	Pawar Dnyanesh Balu	41	TE	A & R	
15)	Tambe Sudhir Sanjay	58	TE	A & R	
16)	Nikhil Nikesh Payane	38	TE	A & R	

Hare Onkar Balu



Topic	Training: RoboDK Robot Simulation Software			Location	Sangamner
Organizer	Amrutvahini college of Engineering	Type	Offline	Date	21-Aug-23
Participants	Attendees	Absentees		Start Time	9:00 AM
	Prof. B.R. Borkar			End Time	5:00 PM
	Prof. Mr. Sunil Bangar			Duration	3 Days
	Prof. Mr. Vilas shinde			Update By	Mr. Sunil Bangar
				Last Updated	

Agenda	Introduction to RoboDK environment
	RoboDK station setup, duplicate programs
	Dynamic pick & place, Gripper operation
	Conveyor intergration & programming
	Linear rails & pillars, programming using python

Sr. No.	Statements	Yes/No	Remark
1	How was the workshop	Yes	V. Good
2	The program was well planed with in the allotted time	Yes	Yes
3	How was the interaction between Trainer & student	Yes	exelent
4	Dough cleared by trainer	Yes	Yes
5	Was Every topic explain in deep	Yes	Yes
6	The trainer was a good communicator	Yes	Yes
7	Trainer was knowledgeable on the software	Yes	Yes
8	Will you be interested more session further	Yes	Yes
9	Will this training experience will be useful in future	Yes	Yes, very
10	How will you rate the session (out of 5)	5	V. Good

Prepared by	Mr. Pranav Lad	Meeting Summary	
Designation	Head, R&D, Department		
Email Address	pranav.lad@irobotics.co.in		

Name - Aadakh kalyani sanjay

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Sr. No.	Statements	Yes/No	Remark
1	How was the workshop	yes	Excellent
2	The program was well planed with in the allotted time	yes	Good
3	How was the interaction between Trainer & student	yes	Excellent
4	Dought cleared by trainer	yes	Good.
5	Was Every topic explain in deep	yes	topic were discus sed nicely
6	The trainer was a good communicator	yes	Excelent
7	Trainer was knowledgeable on the software	yes	
8	Will you be interested more session further	yes	
9	Will this training experience will be useful in future	yes	
10	How will you rate the session (out of 5)	5	

Prepared by	Mr. Pranav Lad	Meeting Summary	
Designation	Head, R&D, Department		
Email Address	pranav.lad@irobotics.co.in		