

"Velammal Knowledge Park", Chennai - Kolkatta Highway, Ponneri - 601 204



Hands-On Training

On

Robot Programming using RoboDK Software

ORGANIZED BY

Department of Mechatronics Engineering

VELAMMAL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHATRONICS ENGINEERING

Event Report 2023 – 2024 ODD SEMESTER

Title of the Event	:	Robot Programming using RoboDK Software
Resource Person	:	Mr. R. Ohmsakthi vel Assistant Professor Department of Mechatronics Engineering Velammal Institute of Technology
Date	:	03.08.2023 (08.30 am to 03:15 pm)
Session Type	:	In Campus
Venue	:	Mechatronics Seminar Hall, III rd Floor, Velammal Institute of Technology
Event Coordinator	:	Dr. V. Ramasamy, AP/MTS
Convener	:	Dr. D. Magesh Babu, HoD/MTS

Report on

One Day Hands-on Training on "Robot Programming using RoboDK Software"

On 03.08.2023 (Thursday), one day hands-on training program on "Robot Programming using RoboDK software" was organized by Department of Mechatronics Engineering at Mechatronics Seminar Hall, Third Floor, Velammal Institute of Technology from 8.30 am to 3.15 pm.

All III Year and IV Year Mechatronics Engineering students assembled in the seminar hall on 8.30 am. Dr. V. Ramasamy, Assistant Professor, Department of Mechatronics Engineering welcomed the gatherings with agenda. In his talk, he registered his perspective on robotics.

The Speaker Mr. R. Ohmsakthi vel, Assistant Professor, Department of Mechatronics Engineering delivered the presentation on introduction for first hour, later he started the hands-on training on RoboDK software. In his session, various real time robotic applications were discussed and the programming concepts are clearly simulated using RoboDK software. Throughout the session, all students are more active and interactive with resource person to clarify heir doubts.

Finally, Mr. B. Mohankanth, III Year, Department of Mechatronics engineering delivers the vote of thanks to all present there.

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ANNEXURE – I

Brochure and Agenda



Agenda

08.25 to 08.30	:	Arrival of participants and dignitaries
08.30 to 08.35	:	Welcome Address Dr. V. Ramasamy AP, Mechatronics Engineering
08.35 to 10.10	:	Robot Programming – An Introduction
10.10 to 10.20		Tea Break
10.30 to 12.00	:	Hands-on Training on RoboDK software
12.00 to 12.45	:	Lunch Break
12.45 to 03.15	:	Hands-on Training on RoboDK software
03.10 to 03.15	:	Vote of Thanks
		Mr. B. Mohankanth
		III Year Mechatronics Engineering

ANNEXURE – II

Resource Person profile

EXPERIENCE

Assistant Professor

Velammal Institute of Technology from May 2023 to till date Chennai Institute of Technology from March 2022 to April 2023 Agni College of Technology from June 2016 to August 2021 Trichy Engineering College from May 2013 to November 2013 Annai College of Engg. & Tech. from June 2011 to April 2013

Instrumentation Engineer

Advanced Nuclear Medicine Research Institute from December 2013 to May 2014

EDUCATION

M E - Mechatronics Engineering

- () June 2014 June 2016
- 🚓 Anna University, Chennai

M.Tech - Embedded Systems

- 📅 May 2009 May 2011
- M SASTRA University, Tanjore

B.E.-Mechatronics Engineering

- 📅 June 2005 June 2009
- 🖽 Anna University, Chennai

SKILLS AND ABILITIES

The following are my best skills which I believe

- 1. Robotic Programming
- 2. PLC Programming
- 3. Mechatronics System Design
- 4. Microcontroller Based Design

E PERSONAL SKILLS

 Ability to work by myself without the need for constant supervision by employees.

Able to work harmoniously with other members of the team.

3. Possesses great analytical and problem solving skills.



CAREER

Mechatronics Engineering Specialist with 9⁺ years of experience in teaching with lot of consultant works, students' technical training in the field of Robotics, Industrial Automation and Embedded Systems. Skilled in PLC and Robotic programming, Mechatronics System Design.



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L INTEREST









ANNEXURE – III

List of Participants

S. No	Class	Reg. Number	Name		
1.	IV – MTS	113320115001	Arun Prasad H L		
2.	IV – MTS	113320115002	Chandra Bose R		
3.	IV – MTS	113320115003	Dhanush Kumar S		
4.	IV – MTS	113320115004	Dinesh Kumar V		
5.	IV – MTS	113320115005	Immanuel Ebenezer C		
6.	IV – MTS	113320115006	Manoj S		
7.	IV – MTS	113320115007	Mohammed Nafiz A R		
8.	IV – MTS	113320115008	Shakil Ahamed R		
9.	IV – MTS	113320115009	Vishnu V		
10.	IV – MTS	113320115301	Akash Kumar Mahato K		
11.	IV – MTS	113320115302	Gopinath K		
12.	IV – MTS	113320115303	Karthik raj R		
13.	IV – MTS	113320115304	Mohanbabu D		
14.	III – MTS	113321115001	Arunachaleswaran G S		
15.	III – MTS	113321115002	Bharathi Sivam P		
16.	III – MTS	113321115003	Goutham A		
17.	III – MTS	113321115004	Gowtham R		
18.	III – MTS	113321115005	Gurumoorthi V		
19.	III – MTS	113321115006	Harish B		
20.	III – MTS	113321115007	Harrish D H		
21.	III – MTS	113321115008	Jaiganesh S		
22.	III – MTS	113321115009	Kaviya R		
23.	III – MTS	113321115010	Keerthana I		
24.	III – MTS	113321115011	Mohankanth B		
25.	III – MTS	113321115012	Mukesh R		
26.	III – MTS	113321115013	Navin Babu S		
27.	III – MTS	113321115014	Premkumar R		
28.	III – MTS	113321115015	Pugazhenthi M		

III – MTS	113321115016	Rajarajan N
III – MTS	113321115017	Rajeshwaran S
III – MTS	113321115018	Rajpandiyan B
III – MTS	113321115019	Roshini Jasmine G
III – MTS	113321115020	Syed Haseebur Rahman R
III – MTS	113321115021	Vinish M
III – MTS	113321115301	Jerine Selvakumar J
III – MTS	113321115302	Joel Edwaed J A
III – MTS	113321115303	Prakash R S
III – MTS	113321115304	Nithyanandam S S
III – MTS	113321115305	Sarathy K
III – MTS	113321115306	Tamil Selvan R
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ANNEXURE – IV

Participants' Feedback Analysis

Students' feedback count on each question

No	Question		4	3	2	1
	Feedback on content					
Q 1	Topic of the Speaker was relevant to my area of interest/job.		7	4	0	0
Q 2 The lecture content maps with your expectations		27	8	5	0	0
Q 3 The lecture content was easy and clear to understand		26	10	4	0	0
Q 4	Q 4 The content exposed you to new knowledge and practices		8	3	0	0
Q 5	2 5 Overall rating of the lecture content		5	5	0	0
	Feedback on Speaker					
No	Question		4	3	2	1
Q 6	2 6 Speaker was able to explain the topic clearly with examples.		5	3	0	0
Q 7	Q 7 Speaker was able to make lecture interactive & made me feel engaged.		6	4	0	0
Q 8	Q 8 Speaker was able to positively influence my views towards		5	5	0	0
Q 9	2 9 The teaching aids were effectively used		7	5	0	0
Q 10	10 Overall quality rating of the speaker		6	3	0	0
Feedback on Facility						
No	Question		4	3	2	1
Q 11	Q 11 Quality of seating arrangement		8	2	0	0
Q 12	Q 12 Quality of Lecture area		6	2	0	0
Q 13	Q 13 Quality of Audio/Video facility		6	3	0	0











A total of 89 students from Department of Mechatronics engineering and Department of Mechanical engineering were given their feedback for Industry Expert Talk on "Cobots for industrial applications". Most of the students were satisfied by overall quality of content as well as the instructor. Few students think that there is chance for the improvement in providing quality lectures to enrich knowledge, encouraging students for higher studies, to undergo internship programs and training for the students.

Major Suggestions and Action taken

SI. No	Major Suggestions	Action taken
1.	Since Robots play a vital role in industrial 5.0, students expect a Hands-on training session in Robotics either industrial robots or cobots for a week in future	A proposal has submitted to UniversalTech Automation to conduct skill development program in the field of robotics to students for a week.
2.	Students suggested to provide placement training to start a career in the field of robotics	A formal message has sent to Training and Placement Cell to organize the placement training on the suggested domain

ANNEXURE – V

Photographs







Coordinator

HOD/Mechatronics Vice Principal

Principal