

Sri Sai Ram Engineering College Department of Instrumentation & Control Engineering



Report

Webinar On MATLAB Programming for Robotics Applications

19th August, 2021 Thursday 10:30AM - 12:30PM

Resource Person : Mr. S. Kaushik

Senior Grade Assistant Professor, Department of Control and Instrumentation, Sri Ramakrishna Engineering College, Coimbatore

Webinar Coordinator

<u>Assistant Prof. Mohan Raj K</u> (Department of instrumentation and control engineeringSri SaiRam Engineering College) (**IEEE RAS Student branch advisor**)

Conveners

<u>Sahana S</u> <u>Priya A</u> <u>Srilekha A</u> (**Members of IEEE RAS**)

Written By: Sai Dasaradharam G (Chair of RAS SBC)

Preamble :

The IEEE's Robotic Automation Society at Sri Sai Ram Engineering College conducted the webinar on the topic "MATLAB Programming for Robotics Applications" on 19th August, 2021 from 10:30AM to 12:30PM. The Speaker was Mr. S. Kaushik, Assistant Professor, Department of Control and Instrumentation, Sri Ramakrishna Engineering College, Coimbatore.

Event Summary :

Sahana S, representing IEEE RAS, Sri Sai Ram Engineering College, gave a formal welcome address and started the webinar. Then, Mrs. T. Mangayarkarasi, Head of the Department, welcomed everyone to the webinar. Priya A, then introduced the speaker, Mr. S. Kaushik briefly. The agendas of the webinar were stated by Mr. S Kaushik. He made sure that we get a clear picture of what can be done using MATLAB, He then elaborated on the types of interfaces which are supported by MATLAB. He explained about utilizing a data sheet. He taught how to add an "add-on Package" and how to use the instrument control box after which he showed us how to interface an arduino board to MATLAB, also the output from the arduino board was shown. Using an Arduino he explained the working of two different projects, one of which was about how to measure temperature and another project was to play the chrome game when there is no internet connectivity. He explained the process of conversion from analog to digital. He also showed the simulation of an Odometer-which is used to calculate encoders, the simulation distance usina done was usina MATLAB-simulink. He then started clearing the doubts asked by the participants. Feedback form was provided to the students for the webinar. At the end of the webinar, Srilekha A proposed the vote of thanks to Mr. S. Kaushik, along with other IEEE heads. Also, participants were thanked for their solemn presence.

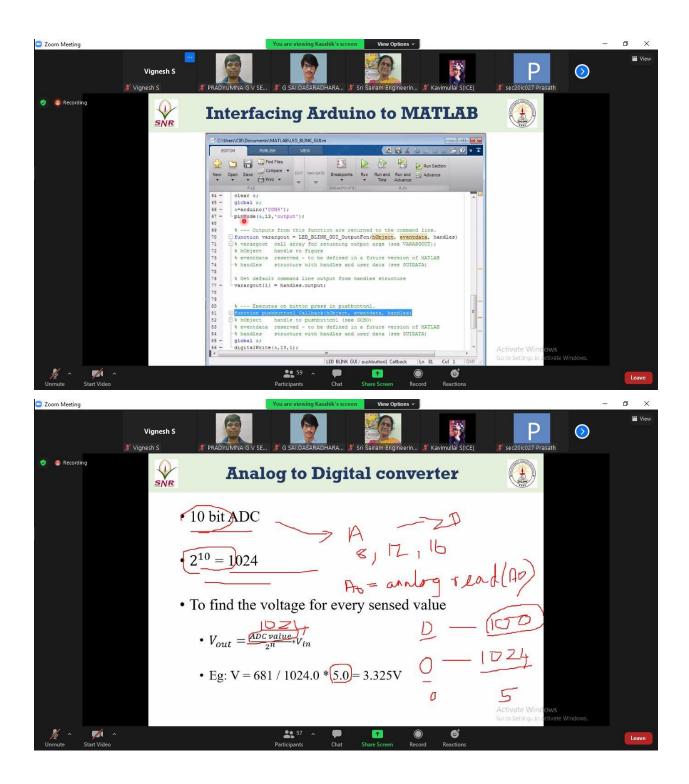
POSTER OF THE WEBINAR

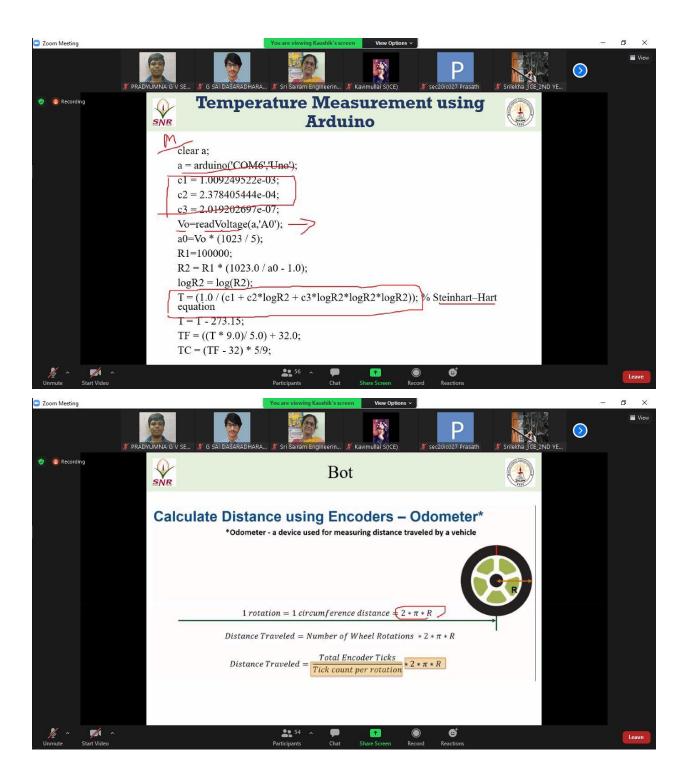


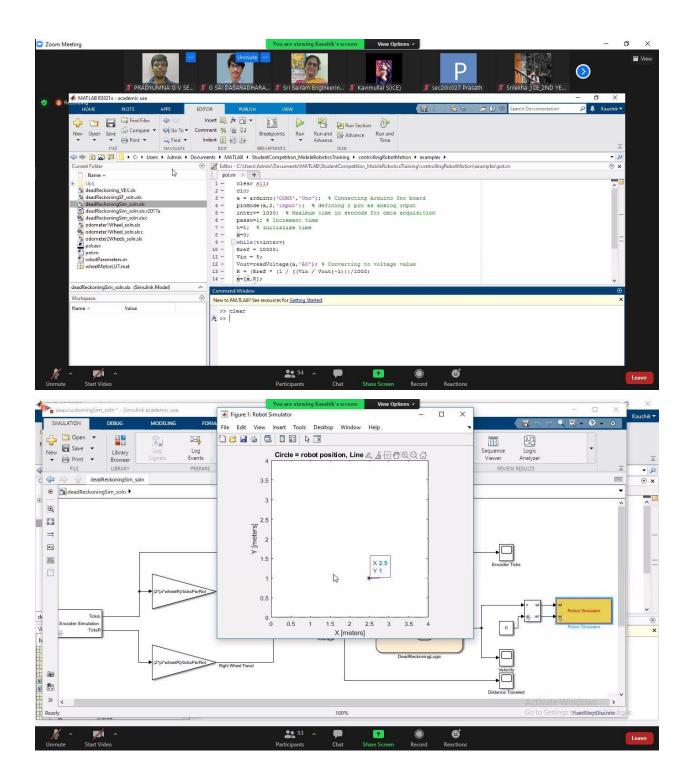
MOMENTS FROM THE WEBINAR:

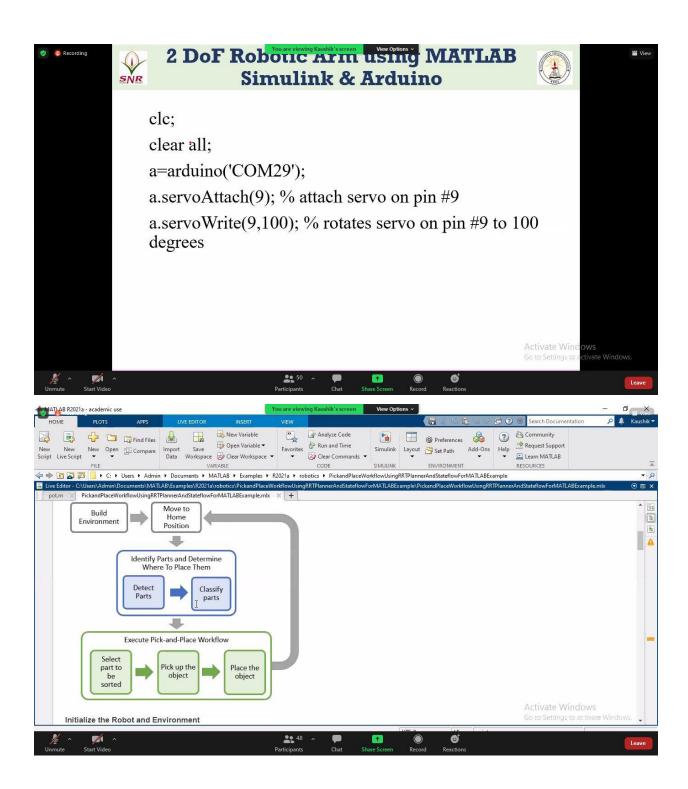


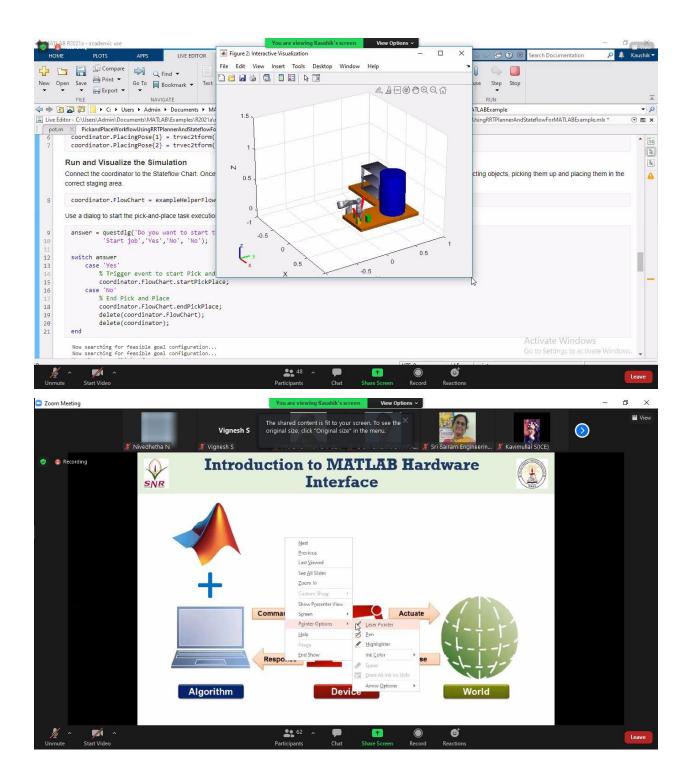


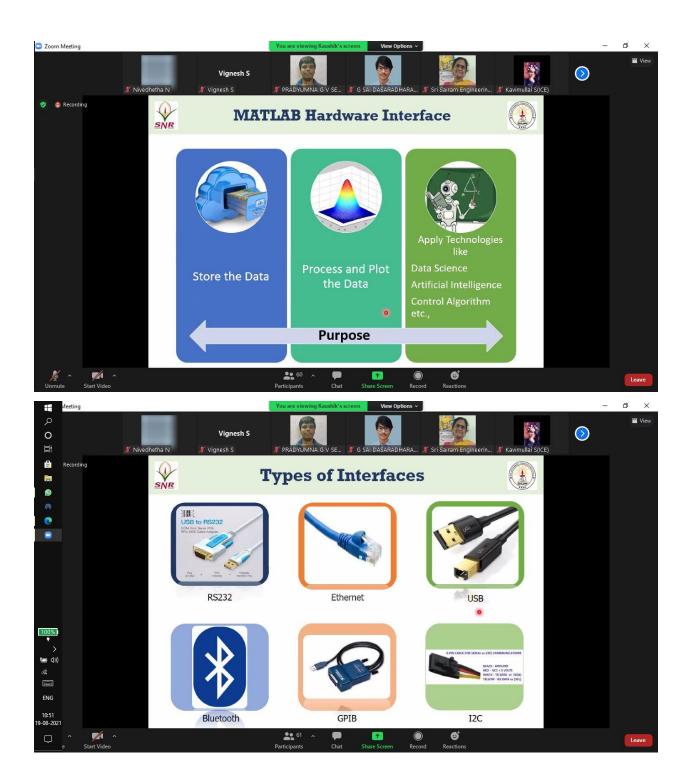


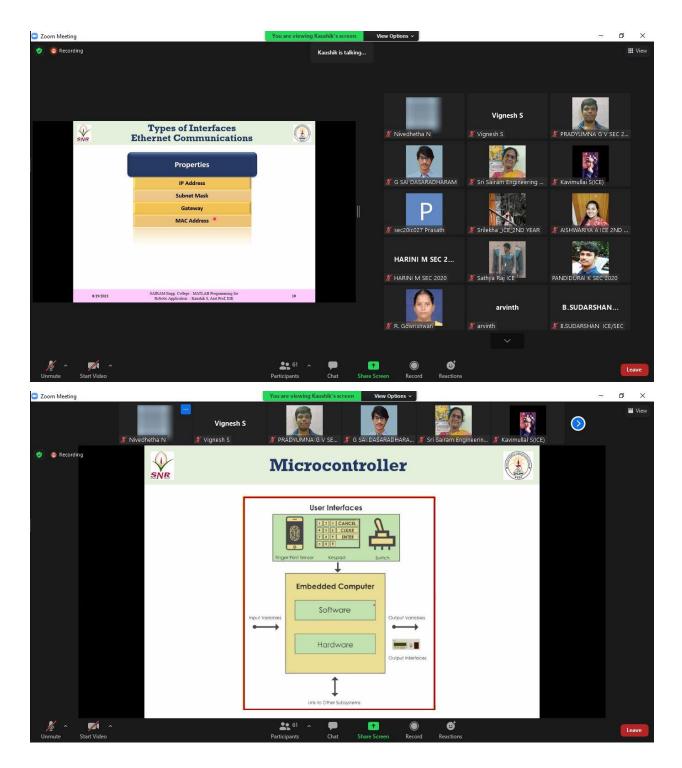












The objective of the webinar was achieved.

Feedback:

Name:	DEPT:	Year/Sem	1. Knowledge and inform 2. Rate the	e understandat 3. Did the v	webinar live up 4. Overall	view of the ev∉Would you like to have n
YASHWANTH.S	ICE	2/3	5	5	5	5 Yes
Rashith Ahamed S	ICE	III rd year/V th sem	4	4	4	4 Yes
MADHUMITA.S	ICE	2ND YR/3RD SEM	4	3	4	4 Yes
lokesh kumar S	Instrumentation and Con	r 3/5	5	4	4	5 Yes
Priya A	ICE	2nd year/3rd sem	5	5	5	5 Yes
MANOPRADEEP R	Ice	3RD/5	1	1	1	1 Yes
G. V. PRADYUMNA	ICE	11/111	4	4	4	3 Yes
S KATHIRAVAN	ICE	2nd year/ 3 sem	4	4	4	4 Yes
HARINI.S	ICE	2/3rd Sem	5	5	5	5 Yes
DHARSHINI V	ICE	II year	2	3	2	2 Yes
Sundareswaran	ICE	2/3	4	4	4	4 Yes
SAHANA S	ICE	2nd year/ 3rd Semester	4	4	3	3 Yes
ASHRAF M	ICE	2nd-year /2nd-sem	3	3	3	3 Yes
A. Srilekha	ICE	2nd year 3rd sem	4	4	4	4 Yes
B. SUDARSHAN	ICE	20-24/3	4	4	4	4 Yes
SIVAKUMAR R	ICE	2 /3rd sem	4	4	4	3 Yes
Umeshnandhan	ICE	2/ 3rd sem	5	5	5	5 Yes
Edwin Adharsh D S	ICE	2nd/1	5	5	5	5 Yes
AISHWARIYA A	ICE	2020/3RD SEM	4	4	4	4 Yes
Thejashri V	ICE	11/1	5	5	5	5 Yes
Ekambareshwaran S	ICE	2 /3	5	4	4	5 Yes
sathya RAJ	Ice	2021/III	4	4	4	4 Yes

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