



**K. K. Wagh Institute of Engineering Education and Research,
Nashik**

Report

Of

ONE DAY HANDS-ON ROBOTICS WORKSHOP

On

On Friday, 13th May 2022

Organized by

Robotics Club in association with SARA

(Student Association of Robotics & Automation)

Of

Robotics & Automation Department

Venue: Seminar Hall, D-block, Robotics & Automation Department, 3rd floor,

KKWIEER.



K. K. Wagh Institute Of Engineering Education And Research, Nashik

Department Of Robotics And Automation

One Day Hands - On Robotics Workshop



Organized by
Robotics Club &



Student Association Of Robotics And Automation

Date - 13 May 2022

Entry fees - ₹500 per team

Note : max two students per group

Includes one 2 wheel drive take-away kit for per team

Certificates to all participates

Snack to all participates

Limited entries (50 teams only)

Venue : Robotics & Automation Department

Scan
to
Register



Prof. V. R. Kale
Faculty Co-ordinator

Dr. P. J. Pawar
Head of Department

Dr. K. N. Nandurkar
Principal

Report on One Day Hands-on Robotics Workshop

Objectives of Workshop:

1. To enhance the knowledge of students related to Robotics.
2. To boost the knowledge of Students regarding Basics of Electronics and Robotics.
3. To give Hand-On experience of making 'Two-wheel Drive Robot'.

Description / Report on Event:

The one-day hands-on robotics workshop began with inaugural function by Dr. P. J. Pawar, Head, Department of Robotics & Automaton, Dr. K. N. Nandurkar, Principal and Dr. S. R. Gangurde, Professor, on 13th May 2022. The day of the program commenced with the welcome of the Chief Guest, Dr. K. N. Nandurkar, Principal, KKWIEER. It was followed by an introduction and felicitation program of Members of Robotics Club and Student Association of Robotics & Automation (SARA). This program was specifically designed in order to provide a special insight regarding Robotics.



Inauguration of Workshop by Dr. K. N. Nandurkar, Pricipal, Dr. P. J. Pawar, HOD and Dr. S. R. Gangurde

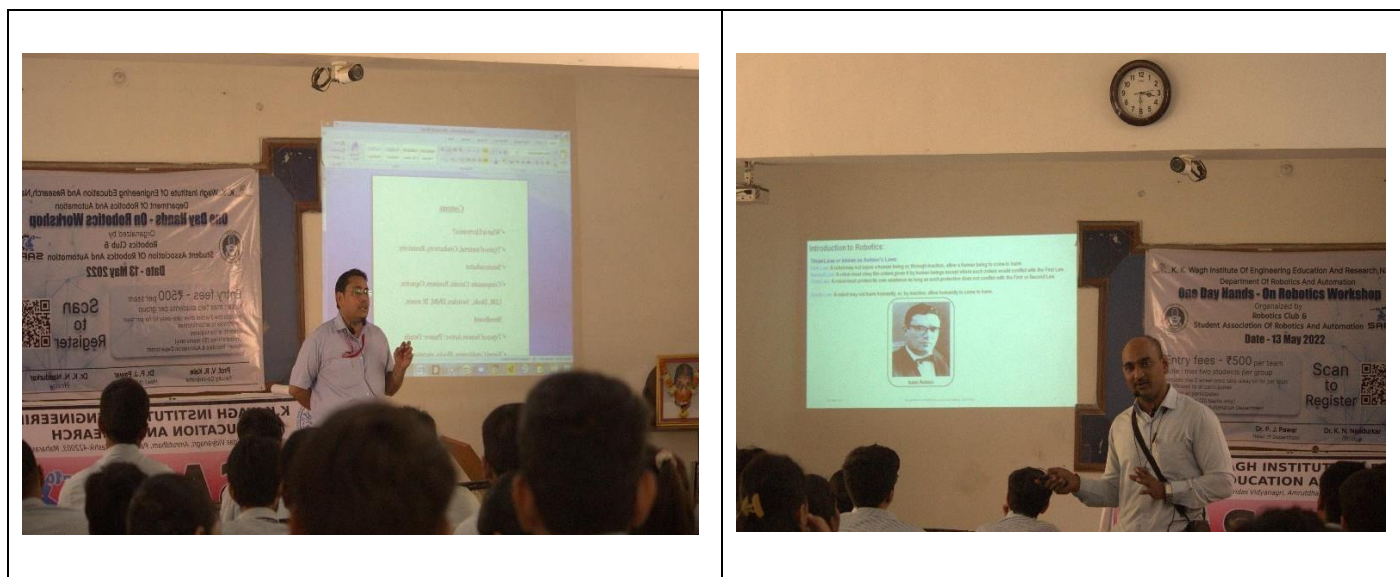
Initially Ms. Krutika Jathe gave an overall idea of a workshop, which included objectives of the workshop, expected outcomes, schedule of the workshop, modules covered in the workshop. He informed that participants (68 students) from various departments of KKWIEER, Nashik has participated in the workshop.

Workshop Agenda:

Sr. No	Topic	Timing
1.	Welcome and Introduction	10:30 AM to 11 AM
2.	'Electronics Aspects of Robot' by Prof. V. R. Kale	11 AM to 12 PM
3.	'Mechanical Aspects of Robot' by Prof. Mangesh Khalkar	12 PM to 1 PM
4.	Lunch Break	1 PM to 2 PM
5.	Hands on robot making session	2 PM to 4:30 PM
6.	Certificate Distribution	4:30 PM to 5 PM

As mention above, Prof. V. R. Kale delivered lecture on 'Electronics Aspects of Robot'. He demonstrates various electronics component required in Robotics. 'How to connect various electronics component' is demonstrated using presentation. Basic knowledge about registers, capacitor, DC motors, and many more have been elaborated.

After this session, Prof. Mangesh Khalkar shares knowledge about 'Mechanical Aspects of Robot' that includes forward and inverse kinematics required for robots. He also describes various mechanical aspect related to design of robot. Various joints and structures of robots are demonstrated by him.



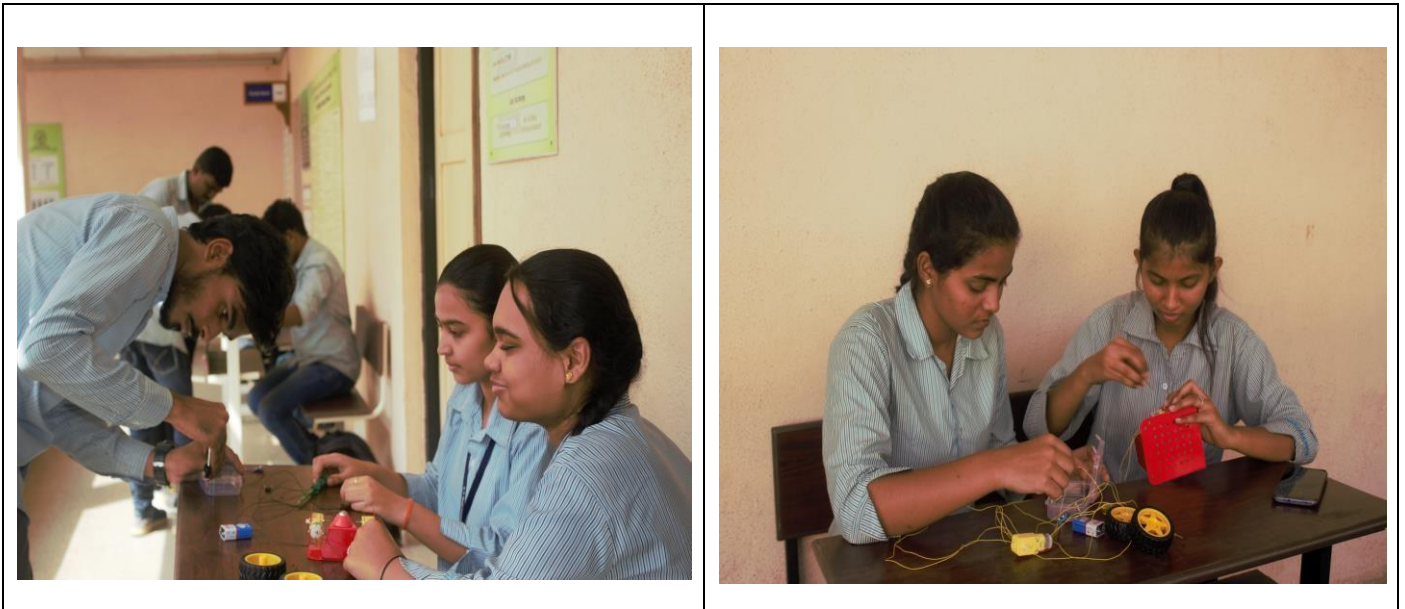
Theoretical Session by Prof. V. R. Kale & Prof. Mangesh Khalkar.

Hand-on Session:

Post-lunch break, hands on training on 'Two-wheel Drive robot' was conducted for students. This program will introduce the participants to various aspects of Two-wheel Drive robot implementation. Kits are provided to each group and training was given by Prof. V. R. Kale and all technical support members. Students enthusiastically took part in that and got hand-on experience of making robot.



Hand-On Practical Session





Certificate Distribution & Conclusion of Workshop:

The Certificate distribution program was held after Hands-on session. Prof. V. R. Kale proposed the vote of thanks. He thanked the Chief guest for taking his time to come and have made Robotics workshop a very special and memorable one.

THANK YOU!!



Certificate distribution ceremony

Glimpse of Workshop:



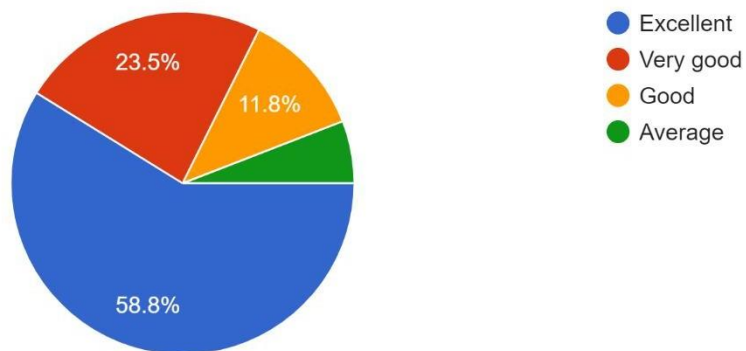
Group Photo





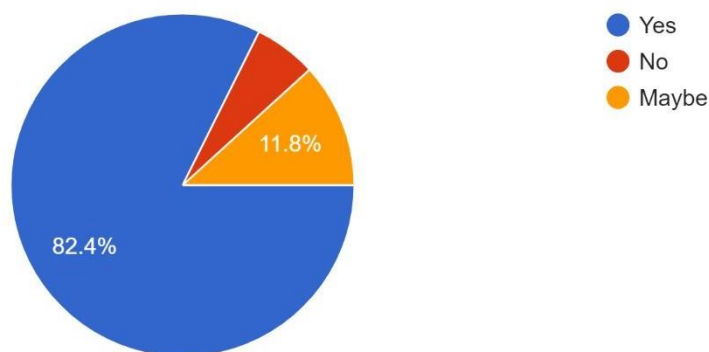
Feedback From Participants:

Was the workshop adjectives were stated clearly in the meet?



Did this workshop activities increase your practical knowledge?

17 responses



How was the experience overall?

