

Hands-on Workshop on Robotics Operating System

Organized by

Computer Science & Engineering (Artificial Intelligence and Machine Learning) & IEEE RAS SBC – DSU

School of Engineering

NAME OF COORDINATOR OF EVENT:

- Dr. A. A. Nippun Kumaar, Faculty Advisor, IEEE CIS and RAS SBC, DSU

Date of Event : 07-04-2026



DAYANANDA SAGAR UNIVERSITY

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Event Report

Title of the Event

Hands-on Workshop on Robotics Operating System

Organized by

Department of Computer Science and Engineering (AI & ML)

School of Engineering

Dayananda Sagar University, Ramanagara, Karnataka

in association with IEEE RAS SBC – DSU

Date & Venue

Date: 7th April 2026

Time: 8:30 AM to 4:00 PM

Venue: Dayananda Sagar University, Ramanagara Campus

1. Introduction of the Event

The technical workshop on "ROS Workshop" was organized by the Department of CSE (AI & ML), School of Engineering, Dayananda Sagar University, in association with IEEE RAS SBC – DSU. The event aimed to introduce students to the Robot Operating System (ROS) and its applications in robotics and automation.

The session was conducted by Dr. A. A. Nippun Kumaar, Chair, IEEE RAS Bangalore Section, and covered fundamental as well as practical aspects of ROS, enabling participants to connect theoretical knowledge with industry practices.



2. Objective of the Event

- To introduce students to the fundamental concepts of robotics and the Robot Operating System (ROS).
- To explain the core architecture of ROS including nodes, topics, and communication mechanisms.
- To provide practical insights into real-world applications of ROS in robotics and automation.
- To reinforce learning through interactive activities such as the Quizathon session.
- To encourage student engagement with IEEE RAS and related professional communities.

3. Schedule of the Event

Time	Activity
8:30 AM	Registration and Welcome
9:00 AM	Inaugural Session & Introduction to Robotics
10:00 AM	Session 1: Fundamentals of ROS – Nodes, Topics & Architecture
11:30 AM	Tea Break
11:45 AM	Session 2: Real-world Applications of ROS
1:00 PM	Lunch Break
2:00 PM	Quizathon Session
3:00 PM	Hands-on / Demo Activity
3:45 PM	Certificate Distribution & Vote of Thanks
4:00 PM	Conclusion

4. Beneficiaries of the Event

- UG and PG students of CSE (AI & ML) and allied branches.
- IEEE RAS SBC members and student volunteers.
- Students aspiring careers in robotics, automation, and intelligent systems.
- Faculty members exploring interdisciplinary research in robotics and AI.

5. Details of the Resource Person

Dr. A. A. Nippun Kumaar

Chair, IEEE RAS Bangalore Section

Faculty Advisor, IEEE CIS and RAS SBC, DSU

Dayananda Sagar University

6. Brief Description of the Event

The technical session of the ROS Workshop was conducted by Dr. A. A. Nippun Kumaar, who delivered an informative and well-structured session. The workshop began with an introduction to the fundamental concepts of robotics, followed by a detailed explanation of the core principles of ROS.

Key topics covered included:

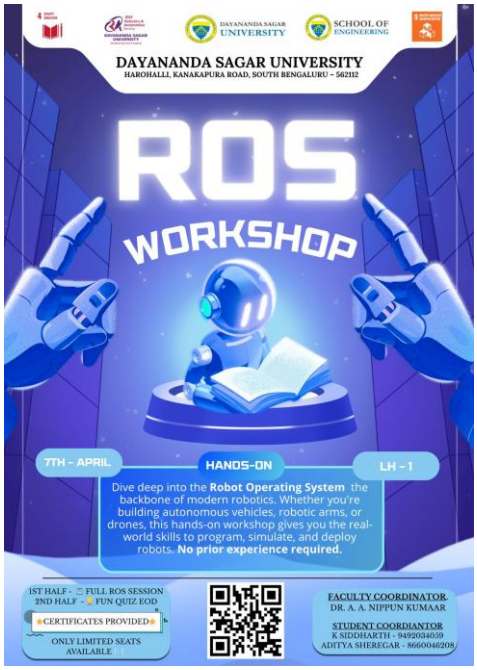
- Nodes, topics, and communication mechanisms
- Overall architecture of ROS
- Real-world applications of ROS in robotics and automation

The session was designed to build understanding from the basics, ensuring clarity for beginners. Practical insights were also provided through discussion of real-world applications of ROS, enabling participants to relate theoretical concepts to industry practices.



A total of 20 participants attended the workshop, including 7 IEEE RAS members, contributing to an interactive learning environment. The event also included an engaging Quizathon session to reinforce learning. The vote of thanks was delivered by Krishna Siddharth, who expressed gratitude to the resource person, organizing team, and participants.

7. Brochure / Creative of the Event



8. Photographs





Students from various branches at the event



Mrs. Rutu P hosting the event



Group Photo with all members of RAS SBC DSU along with guests of honour



Group Photo with Participants along with guests of honour





Mr. Diayana K hosting the event



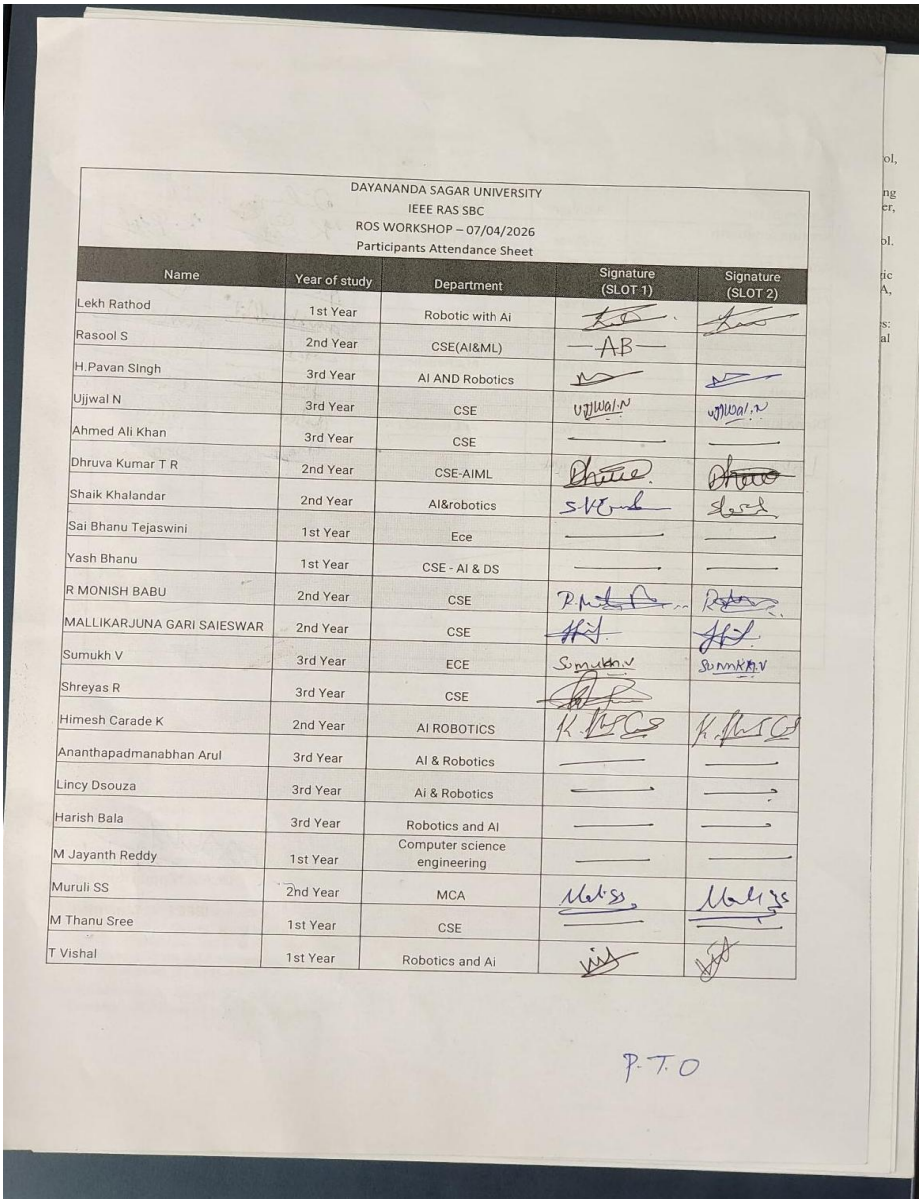
Dr. A. A. Nippun Kumaar handing the certificate to the Winners

8. Attendance of the Event

Total Participants: 20

IEEE RAS Members: 7



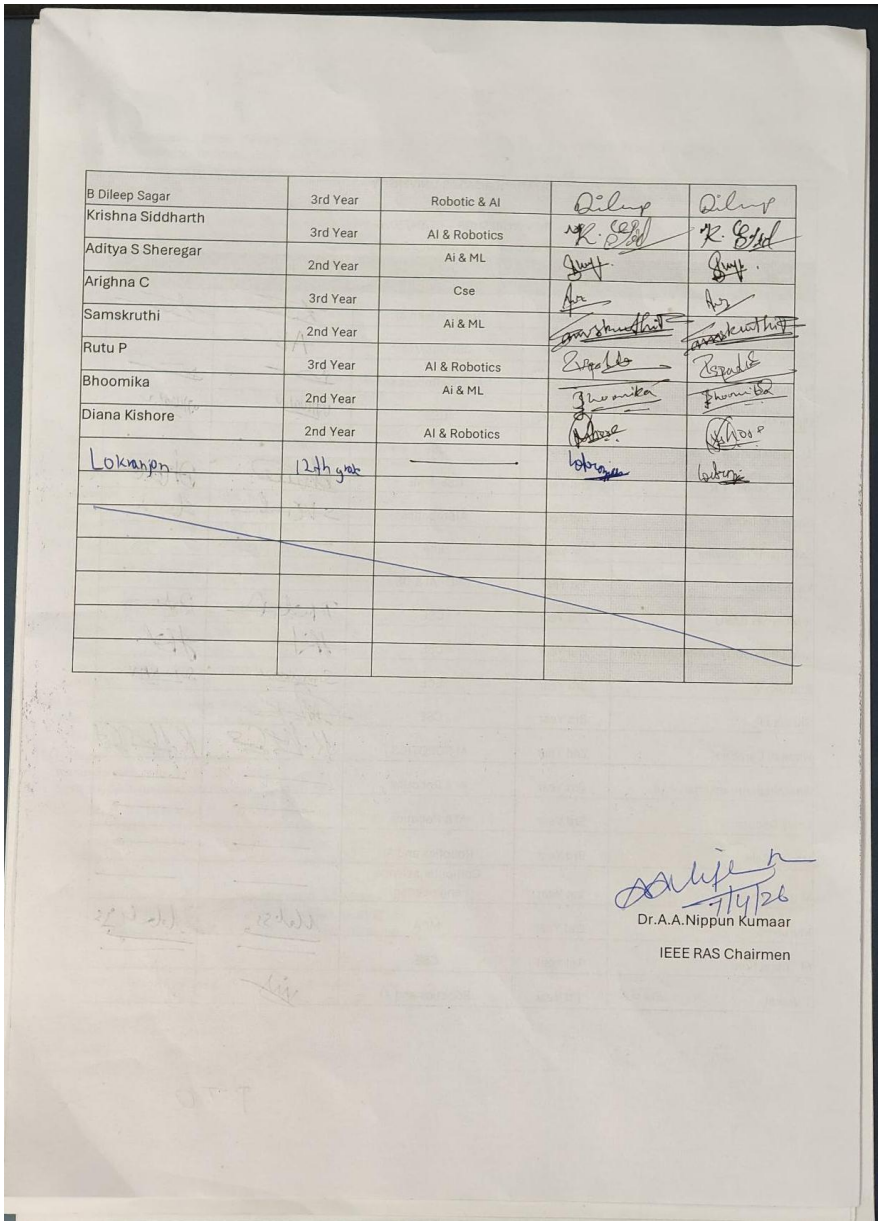


DAYANANDA SAGAR UNIVERSITY
IEEE RAS SBC
ROS WORKSHOP – 07/04/2026
Participants Attendance Sheet

Name	Year of study	Department	Signature (SLOT 1)	Signature (SLOT 2)
Lekh Rathod	1st Year	Robotic with Ai		
Rasool S	2nd Year	CSE(AI&ML)	AB	
H.Pavan Singh	3rd Year	AI AND Robotics		
Ujjwal N	3rd Year	CSE		
Ahmed Ali Khan	3rd Year	CSE		
Dhruva Kumar T R	2nd Year	CSE-AIML		
Shaik Khalandar	2nd Year	AI&robotics		
Sai Bhanu Tejaswini	1st Year	Ece		
Yash Bhanu	1st Year	CSE - AI & DS		
R MONISH BABU	2nd Year	CSE		
MALLIKARJUNA GARI SAIESWAR	2nd Year	CSE		
Sumukh V	3rd Year	ECE		
Shreyas R	3rd Year	CSE		
Himesh Carade K	2nd Year	AI ROBOTICS		
Ananthapadmanabhan Arul	3rd Year	AI & Robotics		
Lincy Dsouza	3rd Year	Ai & Robotics		
Harish Bala	3rd Year	Robotics and AI		
M Jayanth Reddy	1st Year	Computer science engineering		
Muruli SS	2nd Year	MCA		
M Thanu Sree	1st Year	CSE		
T Vishal	1st Year	Robotics and Ai		

P.T.O

Attendance Sheet – Page 1



B Dileep Sagar	3rd Year	Robotic & AI	Dilip	Dilip
Krishna Siddharth	3rd Year	AI & Robotics	K. Sid	K. Sid
Aditya S Sheregar	2nd Year	Ai & ML		
Arighna C	3rd Year	Cse		
Samskruthi	2nd Year	Ai & ML		
Rutu P	3rd Year	AI & Robotics		
Bhoomika	2nd Year	Ai & ML		
Diana Kishore	2nd Year	AI & Robotics		
Lokranjan	12th grade	———		

7/4/26
Dr.A.A.Nippun Kumaar
IEEE RAS Chairmen

Attendance Sheet – Page 2

DAYANANDA SAGAR UNIVERSITY

Faculty Coordinator:

Dr. A. A. Nippun Kumaar
Faculty Advisor, IEEE RAS DSU.

Dr. Jayavrinda Vrindavanam V
Professor & Chairperson CSE (AI & ML)
Dayananda Sagar University

