



**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY**  
WAKNAGHAT, P.O. – WAKNAGHAT,  
TEHSIL – KANDAGHAT, DISTRICT – SOLAN (H.P.)  
PIN – 173234 (INDIA) Phone Number- +91-1792-257999  
(Established by H.P. State Legislature vide Act No. 14 of 2002)



## EVENT REPORT

### ROS 2 Robotics Summer School 2026 – Completion of Phase I (On-Campus Training)

**Organized by:** Department of Computer Science & Engineering and Information Technology, and Department of Electronics and Communication Engineering, Jaypee University of Information Technology (JUIT), Wagnaghat, Solan

**Special Initiative of:** Drobotics Lab, JUIT

**Duration:** 25 May – 20 June 2026 (4 Weeks Total: 2 Weeks On-Campus Training + 2 Weeks Capstone Project Development)

**Venue:** Drobotics Lab, JUIT

#### Overview

The first two weeks of the ROS 2 Robotics Summer School 2026 have been successfully completed at Jaypee University of Information Technology (JUIT), Wagnaghat, Solan. The program is jointly organized by the Departments of Computer Science & Engineering and Information Technology, and Electronics and Communication Engineering, under the special initiative of the Drobotics Lab, JUIT. The summer school, themed “From Code to Autonomous Systems,” was designed to provide first-year B.Tech students from all branches with a strong foundation in modern robotics technologies through an intensive on-campus training module.

#### Activities Conducted (Weeks 1 & 2)

During the on-campus training phase, participating students were engaged in hands-on learning sessions covering the following areas:

- ROS 2 framework fundamentals
- C++ programming for robotics applications
- Robot simulation using Gazebo and RViz
- Sensor and actuator integration
- Concepts of autonomous systems

Throughout the training, the participating students demonstrated strong enthusiasm, commitment, and curiosity, actively engaging with the practical and theoretical components of the program.

#### Way Forward: Capstone Project Phase

Having built a strong foundation in modern robotics technologies, the participants are now entering the next phase of the program: the Capstone Project. Over the coming two weeks, students will work in teams to design, develop, and demonstrate innovative robotics solutions, applying the knowledge and skills acquired during the training. This phase will involve solving real-world robotics



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problems, building end-to-end autonomous systems, mentorship by experts, and a final demonstration and evaluation.

### **Patronage and Guidance**

The successful execution of this initiative would not have been possible without the constant encouragement and support of the university leadership. We express our sincere gratitude to Prof. Rajendra Kumar Sharma, Vice-Chancellor, JUIT, for his visionary guidance and support; Dr. Shruti Jain, Dean (Academics) and Professor, Department of Electronics and Communication Engineering, for her continuous mentorship; Dr. P. K. Gupta, Professor & Head, Department of Computer Science & Engineering and Information Technology, for his unwavering support in facilitating this event; and Dr. Shweta Pandit, Head, Department of Electronics and Communication Engineering, for her valuable support and encouragement.

### **Acknowledgements**

We extend our congratulations to all participants for their dedication during the first phase of the program. We also gratefully acknowledge the efforts of the following individuals in making this learning journey impactful and inspiring:

- **Faculty Coordinators:** Dr. Aman Sharma and Dr. Vikas Baghel
- **Mentors:** Dr. Pradeep Kumar Gupta and Dr. Shweta Pandit



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- **Organizing Team:** Mr. Pramod Kumar and Dr. Ajay

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IGNITED MINDS. INSPIRED SOULS.

Department of Computer Science & Engg. and Information Technology  
and Department of Electronics and Communication Engg.

Jointly organizes

# ROS 2 ROBOTICS SUMMER SCHOOL

From Code to Autonomous Systems

Special Initiative of **Drobotics Lab**

25 May – 20 June 2026 | Drobotics Lab, JUIT

- WHAT YOU WILL LEARN**
  - ✓ ROS 2 Framework
  - ✓ C++ for Robotics
  - ✓ Gazebo / RViz Simulation
  - ✓ Sensors & Actuators
  - ✓ Autonomous Systems
- PROGRAM STRUCTURE**
  - ✓ 2 Weeks On-Campus Training
  - ✓ 2 Weeks Project Development (WFH)
- BUILD REAL ROBOTICS PROJECTS**
  - ✓ Autonomous Robots
  - ✓ Smart Systems
  - ✓ AI-based Applications
- WHO CAN APPLY?**
  - ✓ B.Tech 1<sup>st</sup> Year (All Branches)
  - ✓ Beginners Welcome
- SPECIAL FEATURES**
  - CAPSTONE PROJECT**
    - Solve real-world robotics problem
    - Build end-to-end autonomous system
    - Mentorship by experts
    - Final demo & evaluation
  - PROGRAMMING SUMMER CAMP** (For beginners in coding)
    - Python & C++ Basics
    - Problem Solving
- FEE DETAILS**
  - ✓ JUIT Students: Hostel & Mess (Actual)
  - ✓ External Students: ₹10,000 (Phase I)
- LIMITED SEATS AVAILABLE!**  
★ FIRST COME, FIRST SERVE ★
- CERTIFICATION**
  - ✓ Summer School Certificate
  - ✓ Project-Based Evaluation

**REGISTER NOW!**  
Scan the QR Code or Visit the Registration Link

**CONTACT**  
Dr. Aman Sharma & Dr. Vikas Baghel  
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Email: aman.sharma@juitsolan.in, vikas.baghel@juitsolan.in



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