



# Learn Coding, Robotics & AI



Game Development



Block Coding



Artificial intelligence in Education

Artificial intelligence in Automobiles

For Students in Classes :

5th to 12th



JOIN US

1st, September 04:00PM IST

**KNOWLEDGE AND AWARENESS MAPPING PLATFORM**

**KNOWLEDGE SESSION 2022 : EPISODE 10**

ORGANISED BY: KNOWLEDGE AND AWARENESS MAPPING PLATFORM

A KNOWLEDGE ALLIANCE OF



**Date:** 01<sup>st</sup> September 2022

**Topic:** Coding, Robotics & AI

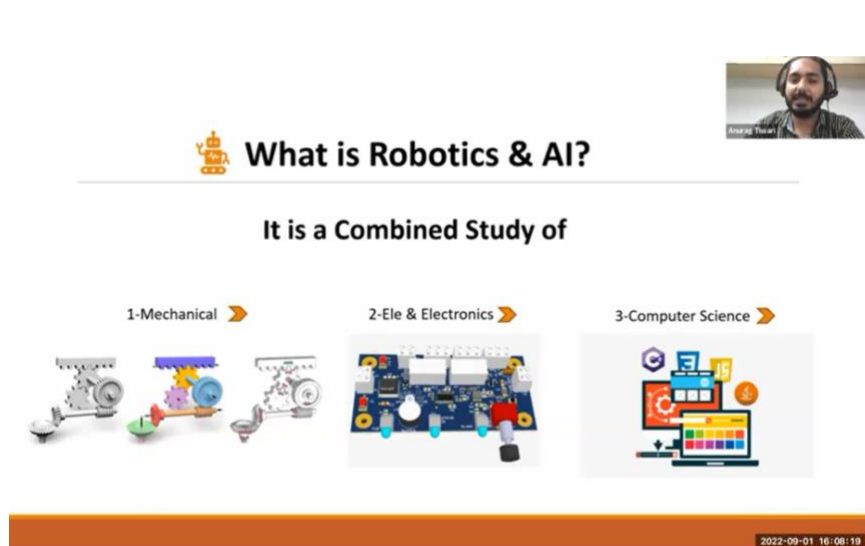
**Organized For:** Class 5<sup>th</sup> – 12<sup>th</sup>

**Category:** Technology and Innovations,

**No. of Participants:** 1000+ students from different schools across India

**Speaker/Presenter:** Mr Anurag Tiwari (Engineer, Innovator, Educator)

**Overview:**

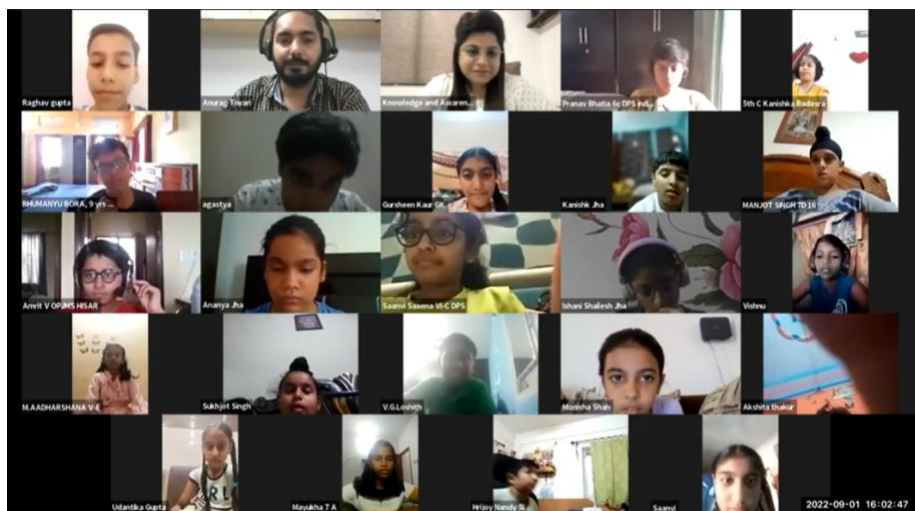


On September 1st, KAMP conducted its 10th Special Workshop on "Coding, Robotics, and Artificial Intelligence" with participants of 1000+ students from 5th to 12th standard from different schools across India.

KAMP aims to help students become productive and successful citizens by inculcating scientific temperament within them. As we know, students are curious and like to explore and

experiment with how different things work. Machines, language, and AI are the pre-drivers of growth and innovation across industries, and the education sector is no different.

According to the eLearning industry, 47% of learning management tools will be enabled with AI capabilities in the next three years. By streamlining the educational process, providing access to the appropriate courses, improving communication with teachers, and freeing up time to pursue other interests. Through this workshop, KAMP aims to help the students understand the concepts of robotics, coding, and artificial intelligence. The session was convened by Ms Arika Mathur, a Member of, the KAMP Planning & Monitoring Committee.



This session was facilitated by Mr Anurag Tiwari. He is an engineer, innovator, and educator. He has experience in delivering more than 300 workshops and training and has trained more than 10,000 students in his last 8 years of working with RoboSpecies. He specialises in developing

STEAM, robotics, and AI-based curriculum for students. He also helped design the RobotriX kits series, which are great starter kits for school students.

RoboSpecies Technologies Pvt. Ltd is founded by "Mr Abhineet Sharma an IIM Alumni". It is a NOIDA-based company working in the fields of coding, robotics, AI, STEM, and STEAM education for the

past 10 years. It has a mission to prepare the students to be future-ready for the upcoming challenges of the 21st century.

In this workshop, Mr Tiwari rightly pointed out that coding, robotics, and artificial intelligence are everywhere, be it a small gadget like the mobile phone we have or as big as the heavy robotics within industries and factories. He helped students understand what robotics, coding, and artificial intelligence are and how they correlate. Furthermore, he also explained how mechanical, electronics, and computer science combine to form artificial intelligence. AI is all about getting information, saving it, reading it, providing data, and letting everybody understand it.

**Mechanical**

Mostly related to Hardware and its working principles and properties

- I. Simple Machine
- II. Links and Joints
- III. Mechanical Efficiency
- IV. Gears and Bearings
- V. Suspensions
- VI. Chassis Designs
- VII. CAD Modelling
- VIII. Mechanical Assemblies and DOF.....and more

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**Computer Science**

Mostly related to instructions and binary communication between devices

- I. Algorithm and Flowcharts
- II. Loops and Sequences
- III. Decision Making
- IV. Communications and Protocols
- V. Programming and Coding
- VI. AI & ML
- .....and more

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