

KIDS WORLD SCHOOL, NAGPUR
SESSION – 2026-27
CLASS – X
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

Week	1	2	3	4
Month - 1	Intro & Group Division	Project - Intelligent Room	Project - Joystick Controlled Fan	Project - Joystick controlled door
Month - 2	Presentation/Research Park Connect	Project - Smart Radar Scanner	Competition (Intergroup)	Project - Magnetic Field Detection
Month - 3	Project - Smart Security System	Project - Build Your Own Intelligent Room	Project - AI Medical Assistant	Presentation/Research Park Connect
Month - 4	Project - AI based Resume Analyzer	Project - AI Customer Segmentation	Project - AI Hiring Manager	Assessment
Month - 5	Viva	Project - AI News Fact Checker	Wing Design of an Aeroplane	Competition (Intergroup)
Month - 6	Landing Gear Design of an Aeroplane	Presentation/Research Park Connect	Predict Temperature in Your City in 2050	Buffer Week
Month - 7	Project - Derivative Projects	Project - Derivative Projects	Project - Derivative Projects	Buffer Week
Month - 8	Presentation/Research Park Connect	Project - Derivative Projects	Project - Derivative Projects	Project - Derivative Projects
Month - 9	Competition	Assessment	Viva	Startup Ideation
Month - 10	Idea Presentation	Hackathon (National)	Certification Distribution	Vision & Future Activities - Discussions

No.	Topic	Learning Outcome
IoT and Automation (Machine, Design Thinking, & Makers Skill)		
1	IIntelligent Room	Design a smart system that automatically responds to environmental conditions and user presence for improved comfort.
2	Joystick Controlled Fan	Understand how joystick inputs can be used to control motor speed and movement in real-time systems.
3	Joystick controlled door	Learn how precision control systems use input devices to manage angular motion and positioning.
4	Smart Radar Scanner	Build a scanning system that detects objects and maps surroundings using sensors and automation.
5	Magnetic Field Detection	Explore how magnetic sensors detect magnetic fields and are used in real-world applications.
6	Smart Security System	Develop a multi-sensor security solution that detects motion and environmental conditions to trigger alerts.
7	Customized Intelligent Room	Integrate sensors, automation, and design thinking to develop a complete smart room solution.
Artificial Intelligence (AI & CT)		
8	AI Medical Assistant	Explore how Computer Vision and AI can assist in healthcare by analyzing images and supporting diagnosis.
9	Smart Resume Analyzer	Understand how Natural Language Processing (NLP) can analyze text and generate intelligent recommendations.
10	AI Customer Segmentation	Learn how clustering techniques group similar users based on shared characteristics and behaviors.
11	AI Hiring Manager	Explore classification systems, decision-making processes, and the importance of fairness in AI-driven recruitment.
12	AI News Fact Checker	Investigate how Generative AI and information verification tools can help identify misinformation and improve digital literacy.
Aerospace		
13	Wing Design of an Aeroplane	Understand how wing shape affects lift, stability, and flight performance.
14	Landing Gear Design of an Aeroplane	Explore the engineering principles behind safe takeoff, landing, and aircraft stability.
Data Science		
15	Predict Temperature in Your City in 2050	Analyze data trends and use predictive thinking to explore future climate scenarios and their impact on society.