

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

Week	1	2	3	4
Month - 1	Intro & Group Division	Project - Soil Moisture Level Detection on Serial Monitor	Project - Automatic Street Light using LDR	Project - Toll Gate
Month - 2	Presentation/Research Park Connect	Project - Plant Watering Alarm	Competition (Intergroup)	Project - Sound Monitor System
Month - 3	Project - RGB Mood Lamp Control	Project - Lie Detector	Project - Bicycle Study & Maintenance	Presentation/Research Park Connect
Month - 4	Project - Space Shooter Game	Project - Smart Waste Segregation Assistant	Project - AI Career Advisor	Assessment
Month - 5	Viva	Project - Fair or Unfair AI?	Project - AI for Community Problem Solving	Competition (Intergroup)
Month - 6	Project - Custom Water Bottle Cap	Presentation/Research Park Connect	Intro to Satellite Design	Buffer Week
Month - 7	Aeromodelling	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 (Kaushal Bodh - Work with Machines & Materials)		
1	Soil Moisture Level Detection on Serial Monitor	Learn how sensors measure soil moisture and display real-time data for monitoring applications.
2	Automatic Street Light using LDR	Understand how light sensors can automate lighting systems based on environmental conditions.
3	Toll Gate (IR + Servo)	Explore how sensors and actuators work together in automated access control systems.
4	Plant Watering Alarm	Build an alert system that helps monitor plant health and watering needs.
5	Sound Monitor System	Understand how sound sensors detect noise levels and convert them into visual outputs.
6	RGB Mood Lamp using Arduino	Learn how sensors and programmable LEDs can create interactive lighting systems.
7	Lie Detector	Explore how sensors measure physical responses and understand the basics of data interpretation.
8	Bicycle Study & Maintenance	Learn the working principles, components, and maintenance practices of bicycles.
9	Space Shooter Game	Develop coding and game design skills by creating an interactive arcade-style game.
Artificial Intelligence (From AI & CT and Kaushal Bodh Curriculum)		
10	Smart Waste Segregation Assistant	Understand the AI project lifecycle while designing solutions for environmental challenges.
11	AI Career Advisor	Explore Natural Language Processing (NLP) and how AI can provide recommendations based on user inputs.
12	Fair or Unfair AI?	Investigate bias, fairness, & ethical decision-making in AI.
13	AI for Community Problem Solving	Apply AI concepts and the AI project cycle to identify and solve real-world community problems.
14	Custom Water Bottle Cap	Design a practical 3D printable product and understand customization through digital design.
Aerospace		
15	Intro to Satellite Design	Understand the purpose, components, and applications of satellites in modern communication and exploration.
16	Design Your Own Aeroplane	Aeromodelling to design & understand flight principles