meso senso

School for AI
AITINKR

Explore & Learn Advanced
Sensors & Sensing Technologies
to bring Electronics to life.

12 x Electronic Projects
10 x Sensor Technologies
18 x Essential Topics
25 x Items in the Kit
1 x Personal Dashboard
25 x Online Video Lessons
36 x Learning Outcomes
80 x Quiz Questions
and tons of fun...

7+ Yrs

No-Breadboard Design

meso senso

SENSORS TO INTERACT WITH THE ENVIRONMENT

h | Flame | Infra Red | LDR | Hall effect | Soil Moisture | Thermistor | Inclinometer | Sound | Vibration | Switching | Light

Explore Me!

PRODUCT
INFORMATION SHEET

Upgrade to working with Sensors & Sensing Technologies to bring Electronics to Life. Build 12+ hands-on projects and learn about 10+ sensor technologies with a unique no-breadboard design. Includes multiple sensors that are used in real-world Robotics, such as Touch, Flame, Infrared, LDR, Hall effect, Soil Moisture, Thermistor, Inclinometer, Sound, Vibration and more. A great way to excite and engage students to understand sensing and circuit-building concepts.

Curriculum & Pedagogy

Engaged learning with clear learning objectives to develop essential skills in Sensors & circuit building. Supports Critical Thinking and Problem-Solving Skills to find solutions for real-life problems using Emerging Technologies.

Specification	Details
Total Projects	12
Theory Topics	18
Dashboard Video Content	4 Hrs
No. of Sessions (School)	20
Total Engagement	25 Hrs.
No. of Items in the Kit	25+
Quiz & Assessment	Continuous

Features & Outcomes!

- Curriculum-driven Learning
- Introducing Sensing Technologies
- Building Blocks for Robotics
- Select the right sensor for the Application
- Kit-based Learning with Support
- No-breadboard design
- Dashboard with Videos
- Customisable Curriculum
- Learn to build circuits with Sensors
- Understand real-life Applications
- Theory and Practical Sessions
- Mentor-guided, project-based Learning
- Quizzes and Assignments included
- Challenges & Competitions

No-Breadboard Design

STEM   Creativity   Circuits   Goal AI   Prob. Solving   Confidence

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Simplifying Emerging Technologies

BUILD | CODE | PLAY

Value Addition

Learners' Engagement

Sensors help Robots to experience and interact with the environment. Introducing Sensing technology to understand the concepts and showcase their learning. AI4K12 - Following guidelines of a standardised national initiative to facilitate AI instruction for the K-12 audience.
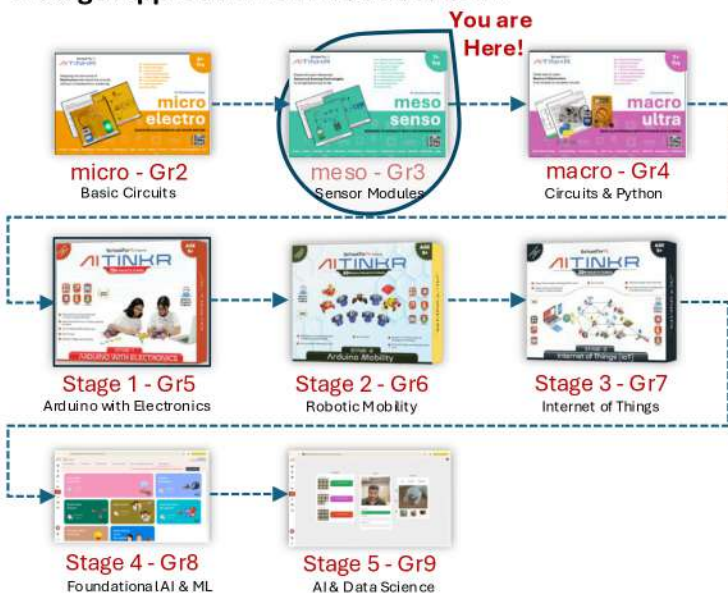
Unique Design for a Safe Learning Experience

No Breadboard	No Plug	No Soldering	No Tools	No Shock

- Explore 10 sensors and their technologies. Discover how these measure environmental parameters.

- Learn to use these sensors to control the output, solving a real-life problem.

- Enhance your Electronics and Sensor knowledge to advance in advanced robotics and Coding.

Explore Other Stages

5-Stage Approach from Robotics to AI

You are Here!

micro - Gr2
Basic Circuits

meso - Gr3
Sensor Modules

macro - Gr4
Circuits & Python

Stage 1 - Gr5
Arduino with Electronics

Stage 2 - Gr6
Robotic Mobility

Stage 3 - Gr7
Internet of Things

Stage 4 - Gr8
Foundational AI & ML

Stage 5 - Gr9
AI & Data Science

Contact us

Major Topics Covered

INTRODUCTION
- ❑ Transducers
- ❑ Contact & Non-Contact Type
- ❑ Types of Transducers
- ❑ Circuit Building

SENSORS & INPUTS
- ❑ LED
- ❑ Switch
- ❑ IR Sensor
- ❑ Touch Sensor
- ❑ LDR Sensor
- ❑ Hall-effect Sensor
- ❑ Flame Sensor
- ❑ Thermistor Sensor
- ❑ Tilt Sensor
- ❑ Sound Sensor
- ❑ Vibration Sensor