

CO:DEEP v2.0

A Hands-on Interactive AI & Software Coding Education System

Coding & Deep Learning



Hands-On AI & Coding Education System

CO:DEEP v2.0

From Coding Basics to AI — All in One Device

learners can instantly see how their code works through sensor responses and naturally progress from basic coding to AI programming.



Scratch Coding
Learn coding fundamentals

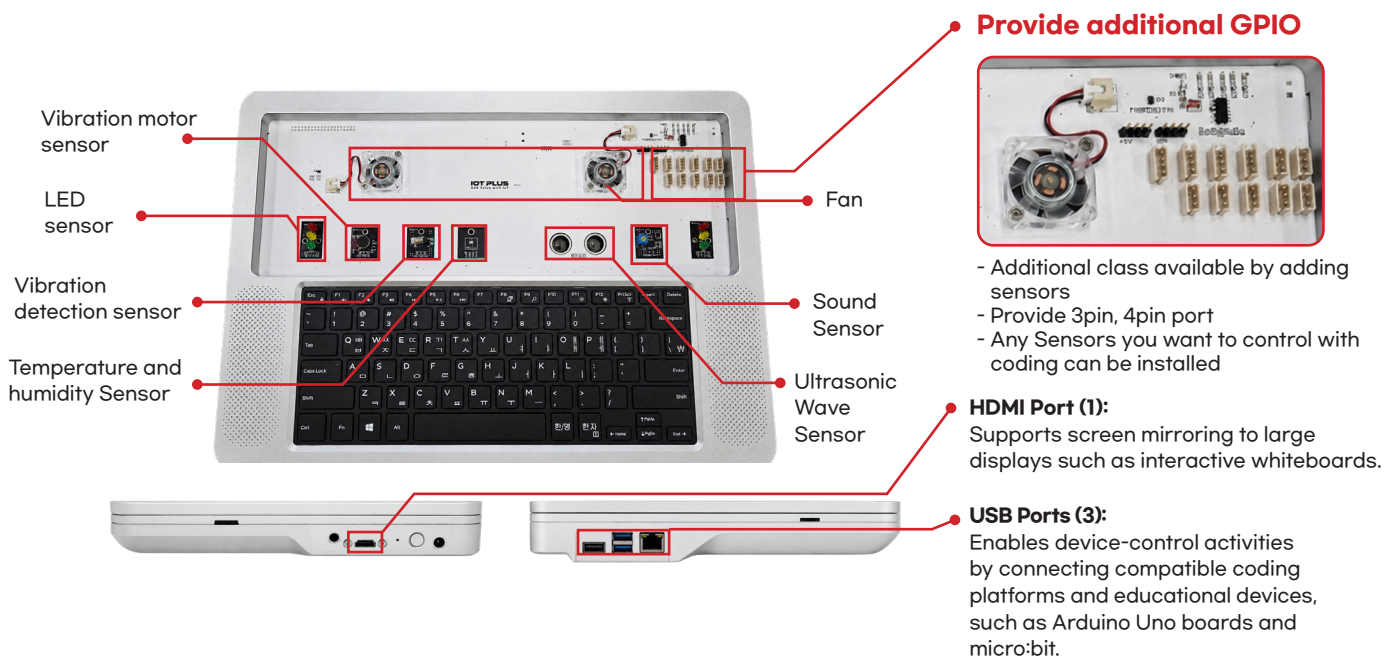
Python Coding
Build practical programming skills

AI Coding
Explore AI through hands-on activities

※ Six Hands-On AI Activities: Image Recognition, Drawing Recognition, Voice Recognition, Character Recognition, Object Recognition, and Video Effects

CO:DEEP's 7-Sensor IoT Configuration

Run and modify Scratch or Python code instantly, and create a variety of smart devices without any additional assembly or wiring.



From Coding to AI

Key Features of CO:DEEP v2.0

01

Scratch & Python Sensor Coding

Control seven built-in sensors and see the results instantly.



02

Python Code Assistant

Find coding errors and get guidance for correction.



03

Hands-On AI Learning

Explore AI recognition, video effects, and source code.



04

External Device Connection

Connect compatible devices through GPIO and USB.



05

Screen Mirroring

Share coding screens and results on large displays.



All-in-One Learning

Scratch, Python, AI, and IoT sensors in one device.

Instant Code Feedback

Run, check, and improve code in real time.

Step-by-Step Progression

Progress naturally from block coding to Python.

Understanding AI

Experience AI features and explore how they work.

Level-Based Learning

Plan lessons for different skill levels and experience.

Project-Based Learning

Apply coding, sensors, and AI to real-world challenges.

Key Advantages of CO:DEEP v2.0

01

02

03

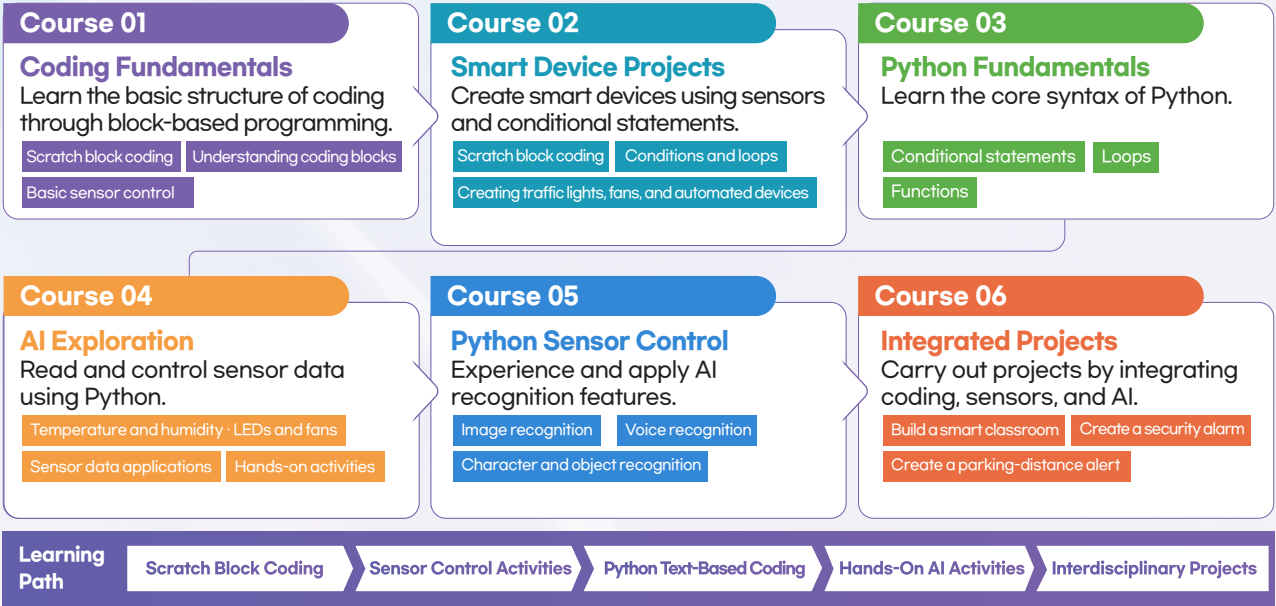
04

05

06

Step-by-Step Coding Learning Tailored to Each Student's Level

A Level-Based Curriculum Roadmap for Every Learning Experience



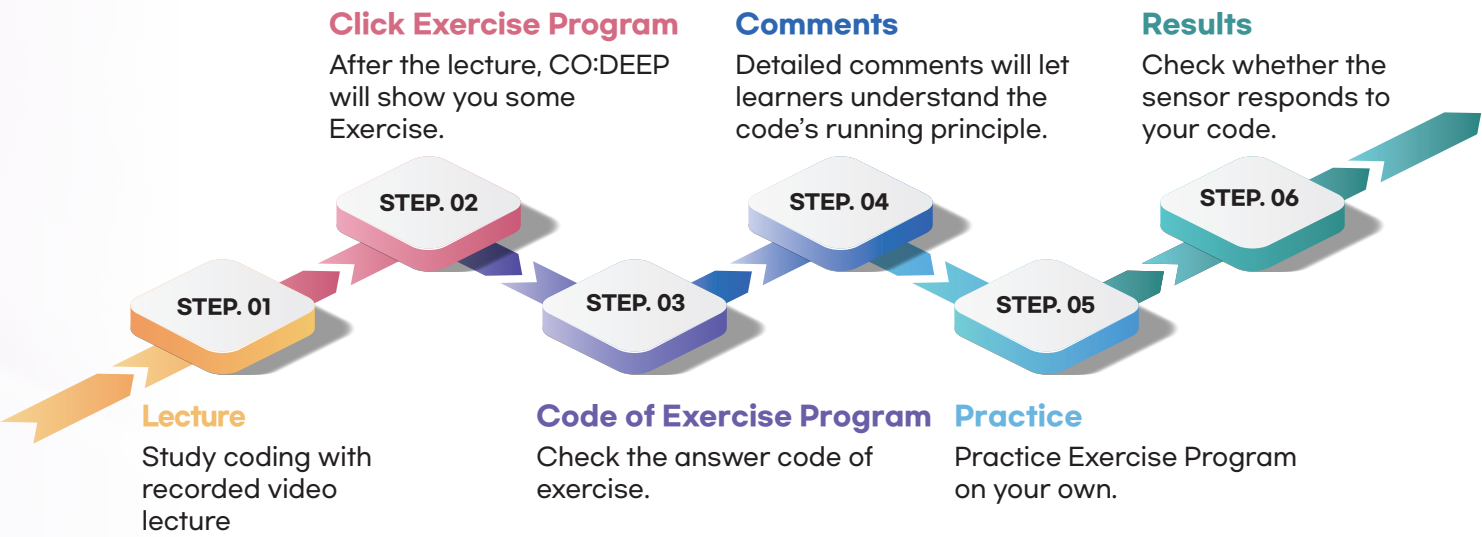
※ Courses may be selected and combined according to the instructional setting, including regular classes, after-school programs, and clubs.

I CO:DEEP Learning Guide by Level

Level	For	Sample Activities
Level 1 Coding Basics	Grades 4-6 · Beginners	Blocks · Basic Sensors
Level 2 Coding Applications	Upper Elementary · Middle School	Traffic Lights · Fans · Alerts
Level 3 Real-World Applications	Upper Elementary · Middle School	Smart Devices · AI Activities
Level 4 Integrated Projects	Middle & High School · Clubs	Smart Classroom Project

Usage Tip! | The level can be adjusted based on the student's coding experience.

6-Step Self-Directed Learning



Validation Results and Expected Effects

▀ Validation Results from Experts and Teachers



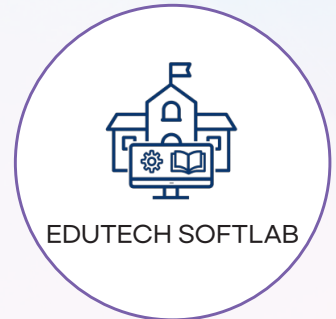
2025 KERIS EdTech SoftLAB
Evaluation for Public Education

**Suitable for Public
Education**



2024 AI Classroom Activity Program Evaluation by
the Chungcheongnam-do Office of Education

**Highest Rating for
Educational Effectiveness**



2024 Gwangju EdTech
SoftLAB

**Successful
Field-Validation**

▀ Teacher Feedback from Field Validation

Middle School Teacher, Park

It was effective in boosting students' class participation and focus, and its laptop-style design made it highly portable and convenient to use. With a wide range of sensors and coding activities available, it was great for providing personalized instruction for each student.

Elementary School Teacher, Kim

I really liked having built-in lectures for Scratch and Python, as well as beginner and applied teaching materials. Offering both block and text coding made it ideal for elementary through high school education.

▀ Expected Outcomes

01 Improved Daily Problem-Solving Through Computational Thinking.

02 Collaboration and Communication Through Team Projects

03 Career Exploring and Advanced Learning with AI & IoT.

Product Specifications and Price List

■ CO:DEEP v2.0 Information

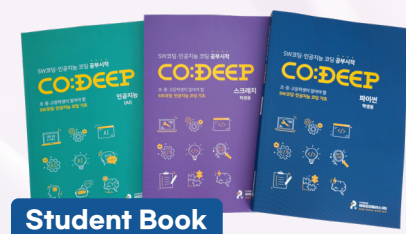
Model Name	CO:DEEP V2.0
Size	387(w) x 283(d) x 55(h) (mm)
Sensor Type	LED Sensor, Fan, Vibrating Motor, Vibration Detection Sensor, Ultrasonic Wave Sensor, Sound Sensor, Temperature&Humidity Sensor
Configuration	Raspberry pi 5(Embedded PC system), Micro SD card 64GB, 7types of Sensors, Board PCB etc.
Monitor Specifications	15 inch LCD 1920 ×1080(FHD)
Input Power	12V 7A
Connectable Interface	USB × 3, HDMI × 1, Stereo Terminal
Expansion Ports	3-pin × 7, 4-pin × 3
Programs	Scratch: 27 coding activities + 7 AI activities Python: 27 coding activities + 7 AI activities

Model Name	CO:DEEP Charging Cabinet
Size	612(w) × 617(d) × 1107(h) (mm)
Capacity	Holds up to 24 devices
Power Supply	220V
Features	Tempered-glass door and air-cooled cabinet system
Image	

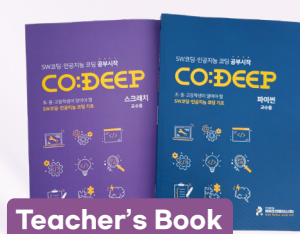
■ G2B/S2B Price

Category	Product Name	Identification Number	Price	Memo
Multimedia Learning Device	CO:DEEP v2.0	26033625	2,970,000₩	General Shopping Mall
CO:DEEP Text books		202403048235914	180,000₩	School Market
CO:DEEP Charging Cabinet		20240321836333	3,300,000₩	School Market

■ Text books



Student Book



Teacher's Book

■ Patents and Certifications



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