



Project No.

P-1083

Date

2025

Doc. No.

EOTSS1083-P

Serial No

-1083
P/2025

Rev.

00

Proj. dep.

CIVIL-p

EOTSS Doc. CODE :

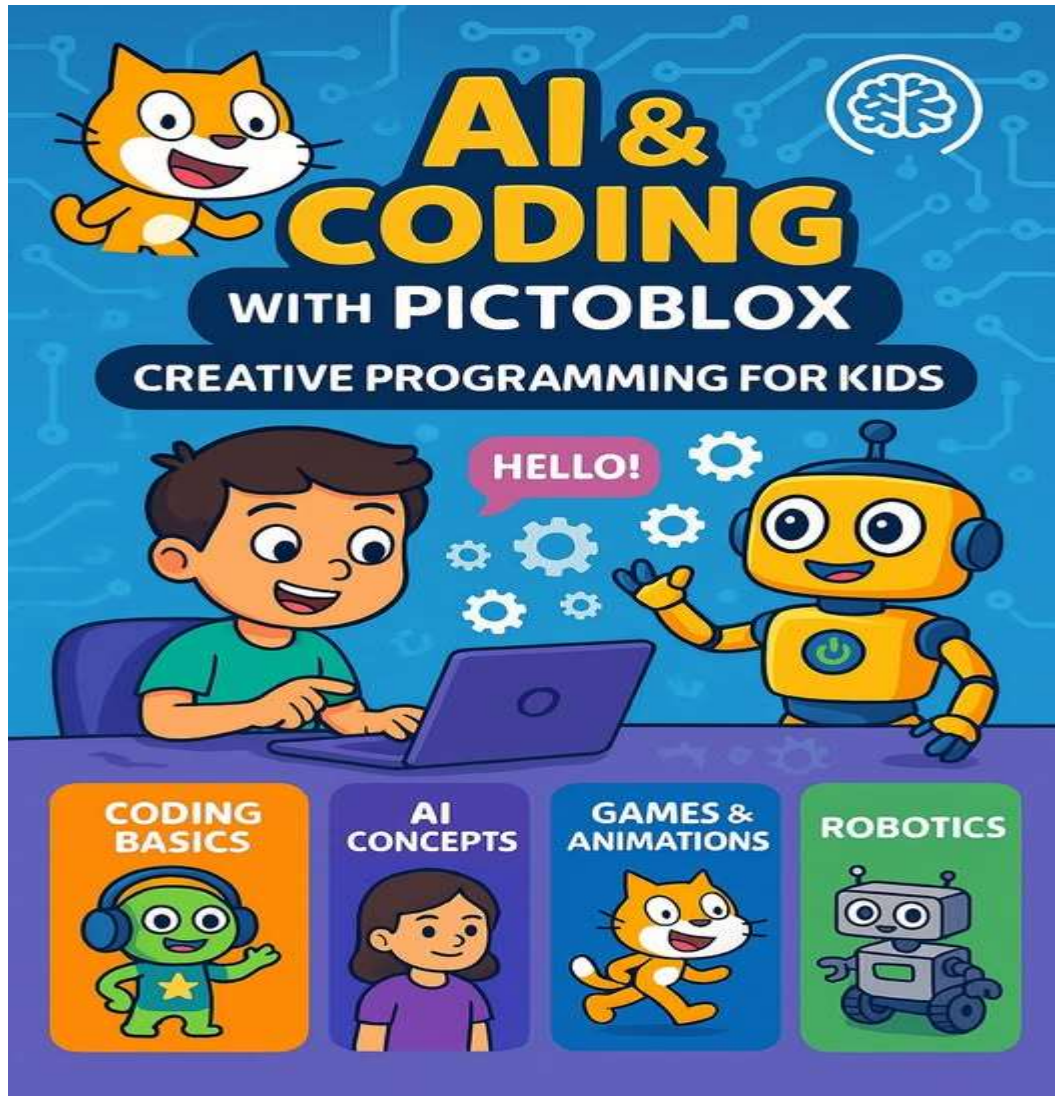
EOTSS/Program/1083-P/2025



المكتب الهندسي لخدمات التكنولوجيا والبرمجيات

Engineering office for Technology and Software Services

Course Title: AI & Coding with PictoBlox: Creative Programming for Kids



ID Code: 1083-P

Main Branch: United building – E Shams –Front NBE
, El Siouf _Alexandria

Tel: 01102060500-01144470856



الفرع الرئيسي : عمارات المتحدة – عمارة عين شمس – امام البنك
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المعهد الهندسي لخدمات التكنولوجيا والبرمجيات

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Course Description:

This course introduces children aged **8–14** to the fundamentals of **coding**, **artificial intelligence (AI)**, and **robotics** using **PictoBlox**—a graphical programming platform based on Scratch. Students will build interactive games, animations, and AI-powered applications like face and object detection in a fun and safe environment.

Learning Objectives:

- Understand block-based programming and PictoBlox interface
- Learn foundational AI concepts through hands-on projects
- Create interactive games, stories, and animations
- Explore robotics using sensors and actuators
- Develop problem-solving, collaboration, and creativity

Course Outline:

Module 1: Introduction to PictoBlox

- What is PictoBlox?
- Navigating the interface
- Creating and saving projects

Module 2: Coding Basics

- Sprites, stages, and blocks
- Motion, looks, and sound
- Simple logic: sequencing and events

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**Module 3: Interactive Projects**

- Building games and stories
- Animations and effects
- User interaction: mouse, keyboard, touch

**Module 4: Introduction to AI**

- What is AI?
- Face detection, speech recognition, object detection
- Ethical use of AI in projects

**Module 5: Robotics (Optional/Advanced)**

- Connecting hardware (sensors, motors, Arduino)
- Simple robotics projects using PictoBlox

**Module 6: Project Showcase**

- Group projects and presentations
- Sharing creations and peer feedback

**Course Materials:**

- Computer or tablet with PictoBlox installed (pictoblox.ai)
- Internet access (for AI features)
- Optional: Robotics kits (Arduino, sensors, actuators)

**Assessment:**

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- ✓ Completion of coding and AI projects
- 👥 Participation in teamwork and presentations
- 🎯 Final demonstration in showcase

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