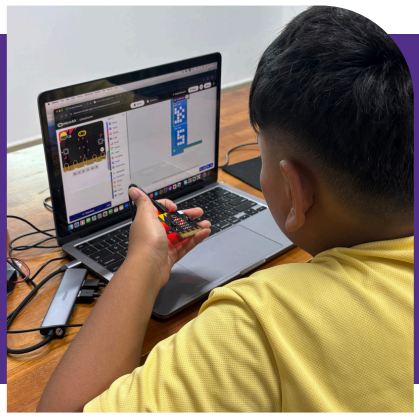
TECH FOR KIDS ACADEMY

Maker with Tech-Micro:bit Inventor
11-12 Years old



COURSE DESCRIPTION

Level up students' creativity with this course as we unlock the secrets of coding. Students will meet their new best friend—the Micro:bit, a clever little device ready to bring their ideas to life. After learning and practicing in a visual programming environment, students will see their code come alive through fun projects that challenge their skills and spark creativity.

Expected Learning Outcome

- CODING EXPERTISE
- LOGICAL REASONING
- CREATIVITY
- DIGITAL LITERACY

TOPIC COVERS

Micro:bit Basics	MakeCode Editor	Algorithms and Logic	Loops and Patterns	Conditional Statements
Variables and Data	Input/Output & Sensors	External Electronics	Brainstorm and Planning	End of Course Project

COURSE RUBRIC

Quizzes: 10%
Attendance: 10%
Homework: 10%
Class Participation: 20%
End of Course Project: 50%

TEACHING/LEARNING APPROACH

- **Visual Programming:** Students use block-based coding to build logical thinking while making programming accessible and engaging.
- **Real-World Applications:** Lessons connect coding with everyday problems, allowing students to create meaningful tech-based solutions.
- **Creative Project Work:** Learners design interactive projects that blend imagination with coding and electronics.
- **Collaborative Problem-Solving:** Students work in teams to tackle challenges, fostering communication, critical thinking, and shared innovation.

PARENTAL SUPPORT

Parents play a key role by encouraging regular attendance, showing interest in their child's projects, and supporting practice at home. Active involvement reinforces learning and keeps students motivated.

STUDENT COMMITMENT

This weekend course requires consistent attendance, focus during sessions, and a willingness to explore and complete projects. A positive attitude and steady participation help students gain the most from the program.

Important Note: *To receive a Certificate of Completion, students must attend at least 60% of the total class sessions (8 sessions out of 12).*

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