WIZKLUB
Futurz

CODING & ROBOTICS PROGRAM

FOR GRADES 1-9

Building Skills For The Future

ABOUT WiZKLUB FUTURZ

Established In 2018, WizKlub Offers Research-Based Educational Programs That Prepare Students For High-Stake Careers And Give Them An Advantage In Aptitude And Innovative Driven Competition.

- **15** States
- **100,000+** Learners
- **200+** Futurz Labs

ANY OTHER STUDENT AS A CONSUMER

Benefiting From Technology Without Fully Understanding How It Works.

VS

WiZKLUB STUDENTS WiTH CREATOR MiNDSET

Understanding How Things Work And Contributing To The Innovation Process.

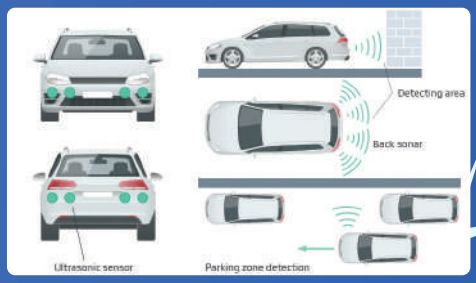
SMART LiGHT

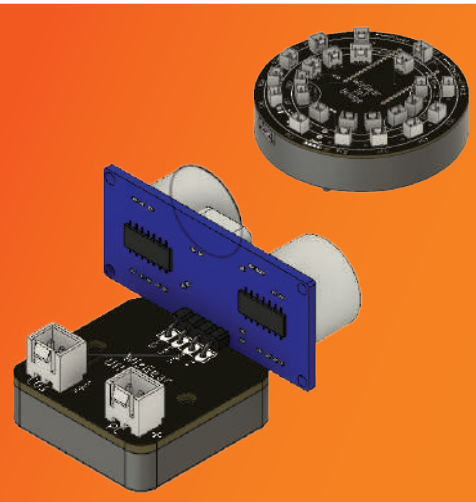
ANY OTHER STUDENT AS A CONSUMER

VS

WiZKLUB STUDENTS WiTH CREATOR MiNDSET

REVERSE PARKING SENSOR



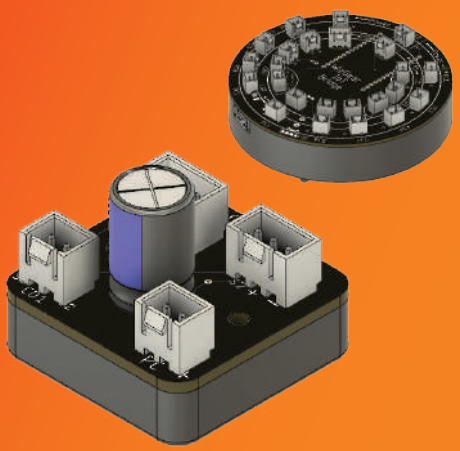


ANY OTHER STUDENT AS A CONSUMER

VS

WIZKLUB STUDENTS WITH CREATOR MINDSET

SMART SURVEILLANCE SYSTEM



ANY OTHER STUDENT AS A CONSUMER

VS

WIZKLUB STUDENTS WITH CREATOR MINDSET

WHY BUILD FUTURE SKILLS NOW?

Aligned with NEP 2020

The National Education Policy 2020 mandates teaching 21st century skills, requiring basic coding literacy while promoting practical learning through collaborative projects.

Shorter Career Cycles

Job roles evolve every 2-3 years, making it crucial for students to keep learning new-age skills to stay ahead.

New-Age Careers

7 out of 10 children will work in jobs that don't exist today.

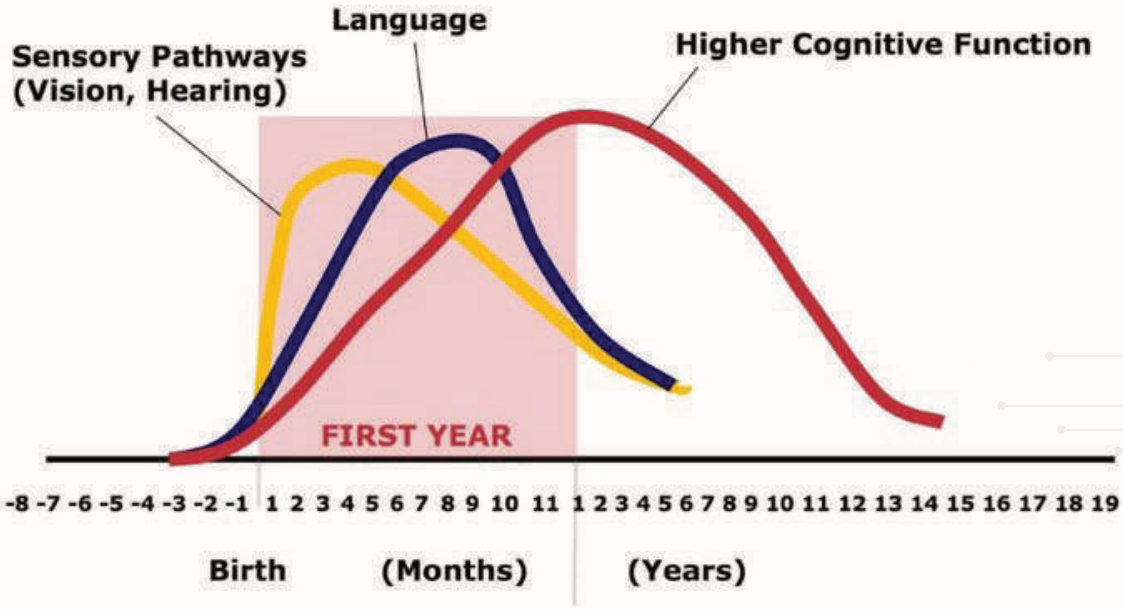
THE RIGHT TIME IS NOW

Research Confirms Children Develop Critical Thinking And Problem-Solving Foundations Most Effectively Before Age 14.

Center on the Developing Child
HARVARD UNIVERSITY

Human Brain Development

Neural Connections for Different Functions Develop Sequentially



Source: C.A. Nelson (2000)

THE WIZKLUB

BEYOND CODING

Integrating Software, Hardware
& Design Thinking To Build Logic,
Problem-Solving & Curiosity.

WIZKLUB LAB @ SCHOOL

State-Of-The-Art Lab Setup,
Including Smart Devices, Sensors,
Actuators, Robots, Drones At School.

STEM CERTIFIED EXPERT TEACHERS

Expert-Led Sessions
For In-Depth Learning.

PROJECTS ACROSS INDUSTRIES

Solve Challenges
In Automotive, Healthcare,
Agriculture, Robotics & More.

CERTIFIED LEARNING TOOLS

Books, Smart Devices &
An Online Platform
For Continuous Learning.

B ADVANTAGE

PROGRESSIVE LEARNING

Learn About Blockly Coding, Python, Conversational AI, Data Analysis, Web Development & Embedded Systems.

FUTURE-READY SKILLS

Enhancing Collaboration, Public Speaking, Problem-Solving & Presentation Abilities.

GLOBAL CURRICULUM

STEM.org & EdTech Impact-Certified Program Accelerating STEM Learning.

COMPETITIONS

Preparing Students To Excel In National & International Coding Challenges Like HCL Jigsaw, Vivo Ignite, Samsung Solve For Tomorrow, Technathon-AI & Scratch Olympiad.

AI-DRIVEN ASSESSMENTS

Formative & Summative Evaluations To Track Progress & Personalise Improvement.

HOW WE DO iT?

Our Comprehensive Approach Integrates Three Essential Pillars Of Modern Education Technology, Creating A Holistic Learning Environment Where Students Develop Both Technical Proficiency And Creative Problem-Solving Abilities.

HARDWARE

IoT Devices
Smart Devices
Robotics
Sensors
Actuators
HMI Devices
Microprocessor/ Controllers
Active And Passive Components
Displays

SOFTWARE

- **Programming Fundamentals**
  - Algorithm Design
  - Functions
  - List
  - Variables
  - AI – ML
- **Languages**
  - Blockly
  - HTML
  - CSS
  - JavaScript
  - C Programming
  - Python

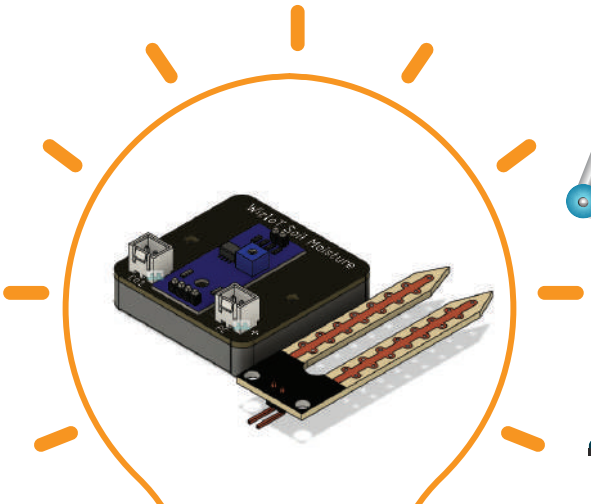
DESIGN

Mobile/Web Design
Chatbot
Voice UI
(Alexa, Google)
Circuit Design
System Design
Design 2D And 3D Models
CAD

SAMPLE MODULE

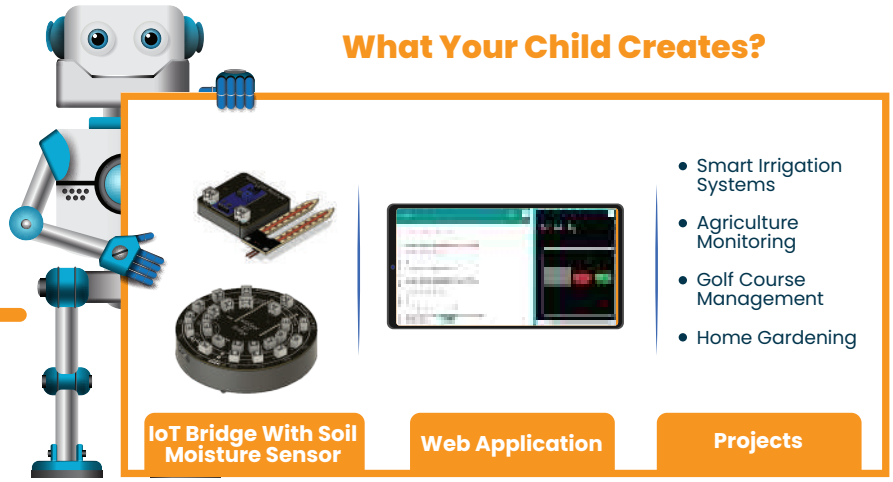
WiZ iOT SOiL MOiSTURE SENSOR

A Soil Moisture sensor measures the moisture content in soil. These sensors use a variety of technologies to measure the amount of water present in the soil, such as agriculture, soil science, and other applications to monitor the moisture content of soil.



Where Do You See Soil Moisture Sensor?

What Your Child Creates?



Students Gain Access To Innovative IoT Hardware Modules (Programmable In Multiple Languages) Enabling Them To Explore, Master New Concepts, And Push Their Creative Boundaries.

PROGRAM CURRICULUM

GRADE 9
PRODUCT DESIGNING WITH EDGE DEVICES
Programming With C

GRADE 8
IOT-DRIVEN WEB DESIGN
Crafting Dynamic Interfaces With Real-World Solutions

GRADE 7
DECISION MAKING WITH DATA ANALYTICS
Advanced Python

GRADE 6
INTERNET OF THINGS PROGRAMMING WITH PYTHON APIS
Exposure To Middleware

GRADE 5
CONVERSING WITH MACHINES
Journey Into Chatbot And Alexa Skill Programming

GRADE 4
CRAFTING WITH CAD
An Art Of Computer-Aided Design

GRADE 3
BLOCK-BASED IOT
Programming Essentials

GRADE 2
LOGIC LAB
Foundations In Logic And Technology

GRADE 1
TINY TECH EXPLORERS
A Fun-Filled Journey Into Coding And Creativity

PROGRAM STRUCTURE

FEATURES	TITLE	LEARNING OUTCOME	SOFTWARE USED	HARDWARE USED	TOPICS COVERED
Grade 1	Tech Innovators: Journey Into Coding And Creativity	Students Will Build Computational Thinking, Problem-Solving, And Hands-On Tech Skills Through Coding And Hardware Activities While Fostering Creativity And Confidence In Technology.	WizGear -Blockly Google Chrome Windows 10	Thaumatrope LEDs Switches Motor Regulator	1. Introduction To Block-Based Coding And Decoding Techniques 2. Develop Art And Craft Skills, Logical Reasoning And Problem-Solving Skills
Grade 2	LogicLab: Foundations In Logic And Technology	Students Will Develop Algorithmic Thinking, Understand Cause And Effect, And Apply Blockly Programming To Create An Automatic Street Light Project Using Electronic Components.	WizGear -Blockly Google Chrome Windows 10	LDR MIC LEDs Comparator Motors	1. Cause And Effect Algorithmic Thinking 2. Block- Based Programming 3. Conversion Of Sound To Electrical Energy 4. Automatic Street Light
Grade 3	Block-Based IoT: Programming Essentials	Students Gain Proficiency In Block-Based Coding And Build Foundational Skills, Problem-Solving, IoT Hardware, Applying Their Skills To Design A Future Tech Innovations.	WizGear-Blockly Google Chrome Windows 10 Ms Paint	IoT Bridge Tri-Color LED Buzzer Seven Segment LED Strip Smart Light Distance Sensor	1. Programming Fundamentals 2. Logical Thinking And Decision Making 3. Exploring Colors And Sequence 4. Concept Of Sound And Sensors 5. Design Smart Technology Application
Grade 4	Crafting With CAD: An Art Of Computer-Aided Design	Mastering Tinkercad To Create 3D Models, Manipulate Dimensions, And Integrate Programming Skills For Designing Real-World Objects.	Tinkercad Google Chrome WizGear Blockly	IoT Bridge Tri-Color LED Smart Light LED Strip	1. Introduction To Computer-Aided Design (CAD) 2. 3D Model Design 4. Advanced Modeling Techniques And Creative Thinking 5. Spatial Visualisation And Geometry

FEATURES	TITLE	LEARNING OUTCOME	SOFTWARE USED	HARDWARE USED	TOPICS COVERED
Grade 5	Conversing With Machines: Chatbot And Alexa Skill Programming	Students Master Chatbot And Alexa Skill Programming, Gaining Hands-On Experience In Interacting With Smart Devices And Developing AI-Driven Human-Machine Conversations.	WizSkill-Blockly Google Chrome Windows 10 Amazon Developer Console	IoT Bridge Tri-Color LED Buzzer Seven Segment LED Strip Smart Light Distance Sensor Motor Driver Mobile Robot	1. Introduction To Conversational AI Chatbot And Alexa Skill Programming 2. IoT Device Programming Through Voice Commands
Grade 6	Internet Of Things Programming With Python APIs: Exposure To Middleware	Students Will Learn Python Fundamentals, Develop Interactive Applications, And Integrate IoT Devices, Mastering Core Programming Concepts, APIs, And Middleware For Technical Solutions.	Google Chrome Python - WizKlub Python - Pycharm Notepad	IoT Bridge Tri-Color LED Buzzer Seven Segment LED Strip Smart Light Distance Sensor OLED Display Weather Station Servo Pan -Tilt	1. Introduction To Text-Based Programming With Python 2. Control Structures And Functions 3. Programming IoT Devices 4. Interactive Game And Application Development
Grade 7	Decision Making With Data Analytics: Advanced Python	Students Will Master Python And Its Libraries, Including Pandas And Matplotlib, To Build A Strong Foundation In Data Analysis And Develop Critical Thinking For Extracting Meaningful Insights.	Python - Pycharm MS Excel Google Sheet Notepad Google Colab VS Code	IoT Bridge Tri-Color Led Weather Station Ultrasonic Sensor	1. Introduction To Data Analytics And Advanced Python 2. Working With Data Structures 3. Data Handling Techniques 4. Analytical Thinking And Decision Making
Grade 8	IoT-Driven Web Design: Crafting Dynamic Interfaces With Real-World Solutions	Students Will Master HTML, CSS, And JavaScript To Design Dynamic Websites Integrated With IoT Devices, Creating Innovative Real-World Solutions Like Automation And Controls.	Web Design -WizKlub Chrome Web Page Notepad	IoT Bridge Weather Station OLED Display	1. Web App Development 2. HTML, CSS And JavaScript 3. Data Handling And AJAX 4. Designing Smart Device Applications
Grade 9	Product Designing With Edge Devices: Programming With Embedded C	Students Master C Programming With Arduino, Apply Computational Thinking To Design Innovative Solutions.	C Programming -Codeblocks Arduino Chrome Windows 10 Notepad	IoT Bridge Tri-Color Led Buzzer Seven Segment LED Strip Smart Light Distance Sensor Joystick Servo Pan -Tilt Motor Driver Mobile Robot	1. C Programming Basics 2. Conditionals And Loops In C 3. Programming The IoT Devices Using Arduino IDE 4. Problem-Solving And Computational -Thinking

WHAT'S MORE?

Every Student Will Receive A **Certificate** And **A Comprehensive Report** Upon Program Completion.

Our Program Not Only Prepares The Students For Such Competitions But Also Raises Awareness About These Opportunities. We Assist Them In The Application Process, Provide Guidance Throughout Their Preparation, And Offer Expert Support To Help Them Excel And Become Champions.

UPCOMING COMPETITIONS

SAMSUNG SOLVE FOR TOMORROW
May-June

HCL JIGSAW
June-August

DISCOVERY EDUCATION CODING
July-November

VIVO IGNITE
December-April

TECHNATHON
November-March

INTERNATIONAL SCRATCH OLYMPIAD
May-June

CBSE EXHIBITION
August-December

TECHNOVATION GIRLS
October-March

MICROSOFT IMAGINE CUP JUNIOR
January-April

MEET OUR WIZKLUB CHAMPIONS

vivo Ignite
Technology & Innovation Awards

4 TEAMS SHORTLISTED FOR VIVO IGNITE ROUND 2 FROM 20,000+ ENTRIES!

Abhinav, Anvesh,
Sri Dutta Bhargav
(Grade 9)

Harihar
(Grade 9)

Rohan, Rishi
Saharsh
(Grade 9)

Jeevikha J, Malarvizhi K S
Prakriti D K
(Grade 9)

Vivo Ignite: Technology & Innovation Initiative Is A Platform Designed To Foster Innovation And Inspire The Next Generation Of Tech Leaders.

ANVITHA FROM GRADE 7 SECURED 1ST RUNNER UP POSITION IN HCL JIGSAW 2024 OUT OF 1,30,000 STUDENTS

Anvitha (Grade 7)

HCL Jigsaw, Organised By HCL Group, Focuses On Raising Awareness Of 21st-Century Skills And Building A Community Of Young Problem -Solvers Through A Nationwide Problem-Solving Assessment Program.

2 TEAMS MADE IT TO TOP 10 IN SAMSUNG SOLVE FOR TOMORROW 2025

Team LightSpeed

Tamoghna Saha, Sombudha Chakraborty, Sombid Guha

(Grade 10)

Team Sewer Scan

Anushika Daniary, Bitan Ghosh, Sukalpo Mitra, Swastik Sarcar

(Grade 10)

Samsung Solve For Tomorrow Is A Global Initiative By Samsung Which Encourages Students To Use STEM To Solve Real-World Challenges.

PROJECTS WITHIN CURRICULUM

GRADE 1

Create Fun Projects Like Thaumatrope And LED-Powered Coding Systems

GRADE 2

Design Streetlight Systems And Sound-Activated Lights

GRADE 3

Build Smart Bins, Water Level Control Systems, And Parking Assistants

GRADE 4

Design 3D Traffic Light Models And Smart Postu-re Correction Chairs

GRADE 5

Develop Voice-Controlled Mobile Robots And Smart Gardens

GRADE 6

Create Joystick-Controlled Games And Voice-Enabled Automation

GRADE 7

Design Energy Consump-tion Analysis Tools And Smart Farming Assistants

GRADE 8

Build Smart Weather Displays And Mental Wellness Trackers

GRADE 9

Develop Child Safety Monitoring Systems And Vehicle Speed Controls

WHAT'S NEW THIS YEAR FOR EXISTING STUDENTS?

01 Personalised Guidance For Competitions

02 Differentiated Activities For Each Grade

03 Differentiated Projects

PROJECTS BEYOND CURRICULUM

GRADES	THEMES	PROBLEM STATEMENT
1-2	Clean Water & Sanitation	Plants often dry out because people forget to water them. How can we create a system that alerts or waters plants automatically?
1-2	Affordable & Clean Energy	People waste electricity by leaving lights ON. How can we use renewable energy sources to power home lighting efficiently?
3-4-5	Climate Action	Weather changes impact daily life. How can we monitor real-time temperature, humidity, and air quality using smart technology?
3-4-5	Zero Hunger	Farmers struggle with overwatering or underwatering crops. How can we automate irrigation to use water efficiently?
3-4-5	Sustainable Cities	People leave lights ON even when no one is in the room. How can we design a smart lighting system that adjusts automatically?
3-4-5	Life Below Water	Water pollution is increasing, but detecting it is difficult. How can we create a system to monitor air and water quality near water bodies?
6-7	Good Health & Well-being	Elderly people or patients may fall and need urgent help. How can we detect falls and send alerts automatically?
6-7	Innovation & Infrastructure	Traffic congestion happens due to inefficient signal timing. How can we create a system that adjusts traffic lights based on vehicle movement?
6-7	Responsible Consumption	People throw garbage improperly, leading to pollution. How can we create an automatic dustbin that opens only when needed?
8-9	Quality Education	Learning through traditional methods can be boring. How can we create an interactive system that makes education more engaging?
8-9	Gender Equality	Many streets are unsafe at night due to poor lighting. How can we design a smart streetlight system that improves safety?
8-9	Life on Land	Wildlife is endangered due to poaching and deforestation. How can we use technology to detect and protect animals in forests?

PROGRAM CERTIFICATIONS & MEMBERSHIPS

EDTECH IMPACT ACCREDITATION

WizKlub Futurz Program Has Earned Accreditation From EdTech Impact, A Prominent Evaluation Body In The UK Based On Assessment Of:

- Curriculum Design
- Training processes
- Progressiveness of the offerings

AICRA

WizKlub Futurz Is A Proud Corporate Member Of **AICRA (All India Council For Robotics And Automation)**, An Organisation Dedicated To Promoting Robotics, Automation, And Innovation Across India, Further Solidifying Our Commitment To Advancing STEM Education.

AICRA
All India Council For Robotics & Automation

CERTIFICATE

OF MEMBERSHIP

This is to certify that

WIZKLUB LEARNING

Infinity Learn, 9th Floor, Shilpitha Tech Park, Opp. Sakra Hospital, Belandur, Bangalore, 560103

has been enrolled as a Corporate Member of All India Council for Robotics & Automation

All India Council For Robotics & Automation

Membership ID AM00443
Issue Date 10/01/2025
Valid Till 10/01/2026

President

STEM.ORG CERTIFICATION

WizKlub Futurz Program has earned prestigious accreditation from STEM.org, a leading STEM accreditation organisation in the USA.

- Both Curriculum Content And Hardware Modules Are Certified
- Validates Accelerated Learning In Science, Technology, Engineering And Mathematics
- Each Student Receives A Certificate With STEM.org Logo

WIZKLUB
Futurz

HELP US BUILD THEIR CREATOR MINDSET!

Limited Seats Available Per Batch To Ensure Personalised Attention

1800 890 9044

programs@wizklub.com

www.wizklub.com