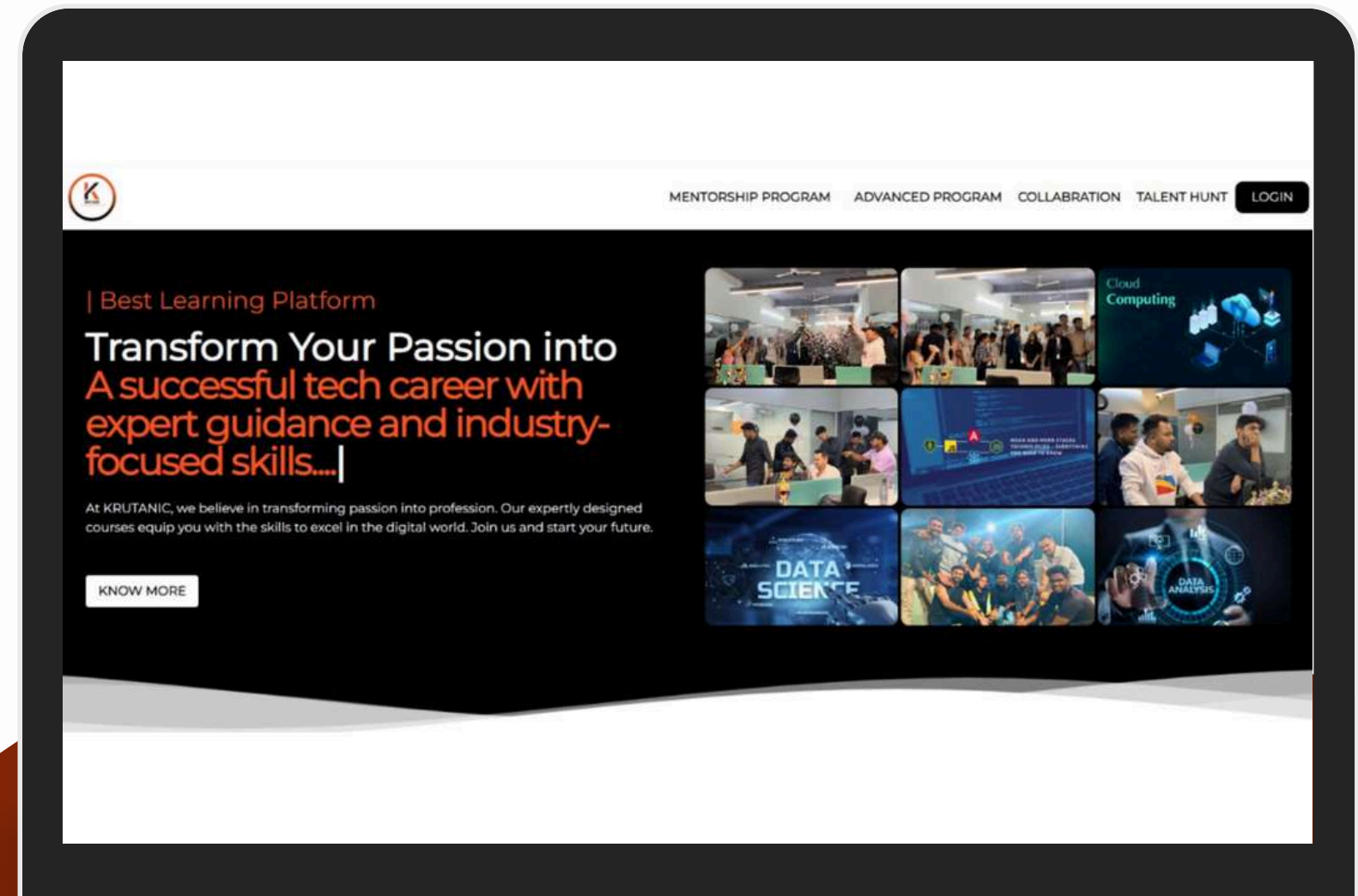




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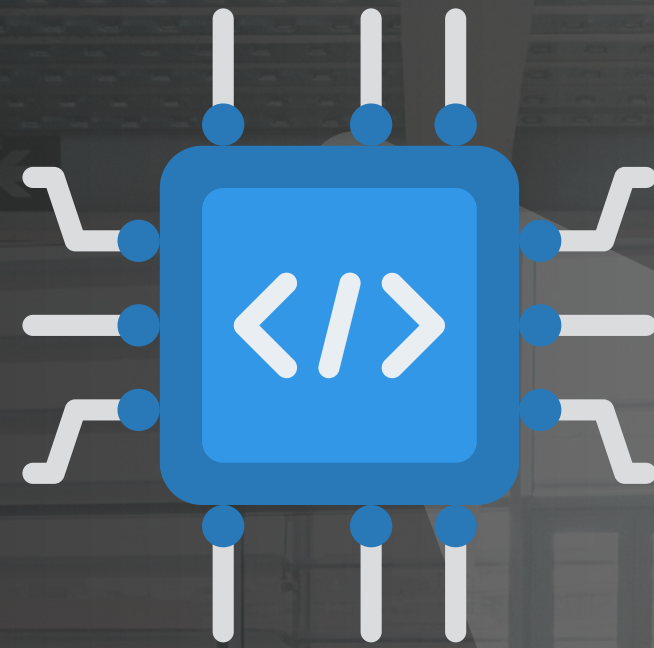
A photograph of three students working on a project. In the foreground, a student in a green turtleneck is focused on connecting black wires to a small electronic device. Behind her, a student in a yellow sweater is also working, and further back, a student in a red plaid shirt is visible. They are all seated at a white table covered with various electronic components, wires, and tools. The background is softly blurred, emphasizing the students' hands and the project.

TRAINING AND INTERNSHIP PROGRAM

About us

"Krutanic Solutions is at the forefront of transforming education through cutting-edge technology. Our comprehensive platform empowers learners with personalized learning experiences, collaborative tools, and real-time analytics. With adaptive assessments and interactive content creation, we enhance student engagement and achievement. Join us in revolutionizing education for the digital age, driving positive outcomes and preparing learners for success in tomorrow's world. "





EMBEDDED SYSTEM

Why Embedded System?

- ☁ **Embedded systems are crucial in sectors like automotive, healthcare, and IoT, driving rapid industry growth.**
- ☁ **Skilled embedded engineers are essential for developing smart devices, ensuring strong demand across various industries.**
- ☁ **Embedded system roles, such as firmware engineers, often offer competitive salaries due to specialized skills.**
- ☁ **From robotics to consumer electronics, embedded systems offer versatile career paths in innovative fields.**
- ☁ **Embedded systems play a key role in emerging technologies like AI, IoT, and autonomous vehicles, keeping you future-ready.**
- ☁ **With the constant evolution of smart technologies, embedded system professionals enjoy long-term career stability and growth.**

1ST MONTH

LIVE SESSIONS

Live sessions with industrial experts having experience above 10 years in the industry.

RECORDINGS

Recordings of all live sessions available with lifelong access in our LMS portal.

INDUSTRY RELATED

Industry related curriculum designed by the working professionals in the top hierarchy.



ND 2 MONTH

REAL TIME PROJECTS

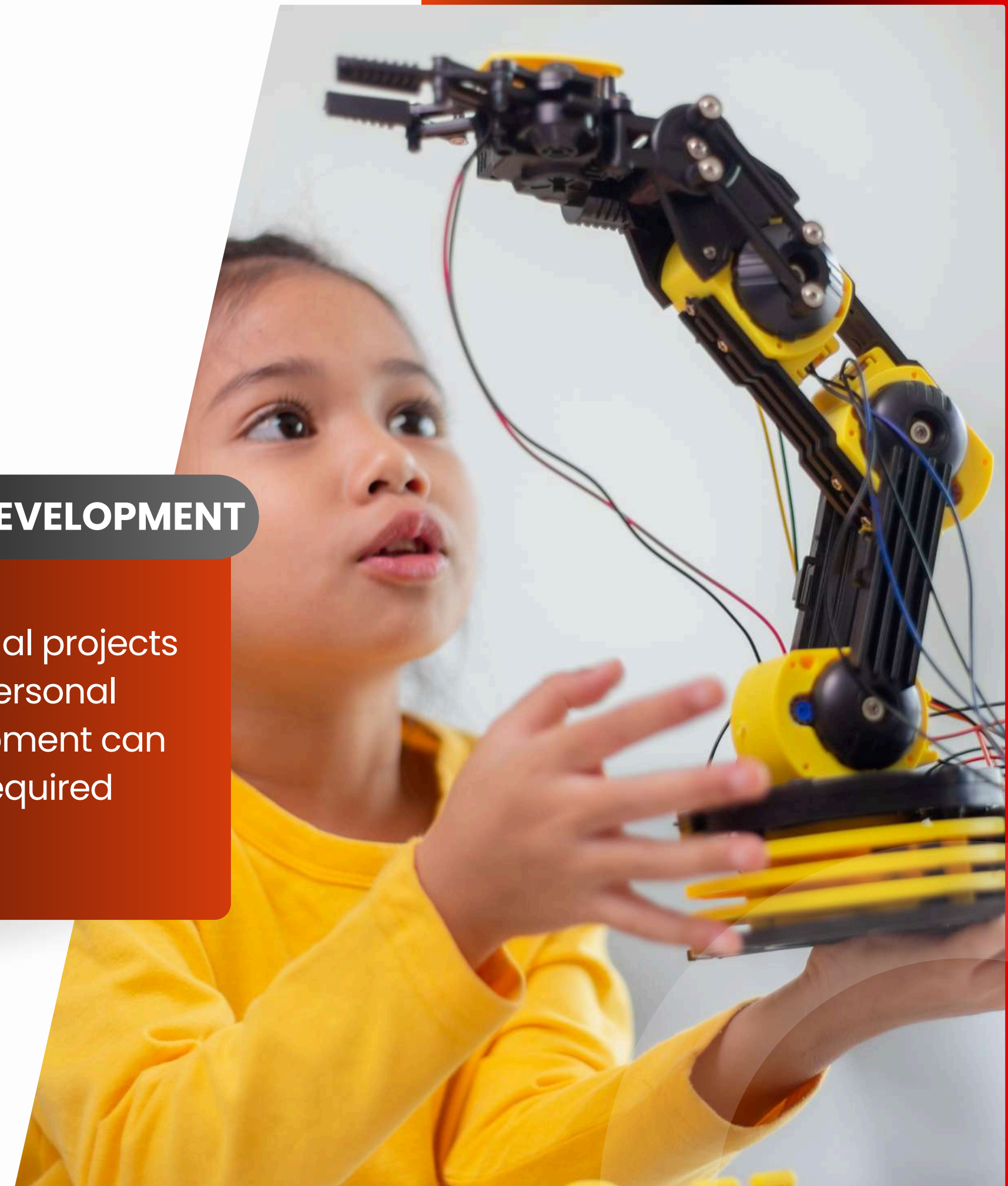
Two real time industrial projects One minor project and One major project

ASSISTANCE

All mentors will be assigned as project leads and guide the intern till the completion of the project

PERSONAL DEVELOPMENT

Additional projects for personal development can be required



Curriculum included

MODULE 1

Introduction to Embedded Systems Overview of embedded systems and their applications Characteristics and challenges of embedded systems design Introduction to microcontrollers and microprocessors.

MODULE 2

Microcontroller Architecture Architecture and components of microcontrollers Embedded systems development tools (IDEs, compilers, debuggers) Introduction to assembly language programming for microcontrollers.

MODULE 3

Embedded C Programming Basics of C programming for embedded systems Data types operators and control structures in embedded C Memory management and I/O operations in embedded.

MODULE 4

Interrupts and Timers Introduction to interrupts and interrupt handling mechanisms Timer modules and their applications in embedded systems Writing interrupt service routines (ISRS) in embedded C

Curriculum included

MODULE 5

Input/Output Interfacing
Basics of digital and
analog I/O interfacing
Interfacing with sensors
and actuators Serial
communication protocols
(UART, SPI, I2C)

MODULE 6

Embedded Systems
Development Platforms
Introduction to development
boards and kits (Arduino,
Raspberry Pi, etc.) Setting up
and configuring development
environments Hands-on
exercises with development
boards

MODULE 7

Real-time Operating
Systems (RTOS) Overview
of real time operating
systems Task scheduling
and management in RTOS
Case studies of RTOS
applications in embedded
systems

MODULE 8

Embedded Systems Design
Techniques Design
considerations for
embedded systems
(power, size, cost, etc.)
Hardware/software co-
design methodologies
Case studies of embedded
systems design projects

Curriculum included

MODULE 9

Embedded Systems
Testing and Debugging
Testing methodologies
for embedded systems
Debugging techniques
and tools Code
optimization and
performance tuning

MODULE 10

Wireless Communication in
Embedded Systems Introduction
to wireless communication
protocols (Bluetooth, Wi-Fi, etc.)
Designing embedded systems
with wireless connectivity Case
studies of wireless sensor
networks and IoT applications.

Discover why this Embedded System course is essential for your learning journey



Google Ratings

4.8 / 5



Mentees Trained

15k +



Hiring Partners

200+



Job Openings

45000+



Average Salary

12+ LPA



Global Size

USD 192 Billion

Certifications

01

**Training Completion
Certificate Validates the
skills which acquired**

02

**Internship Completion
certificate certified by
" WIPRO dice Id "**

03

**LOR (Letter of
recommendation)**

04

Certificate of excellence

05

Placement Assistance

Our process

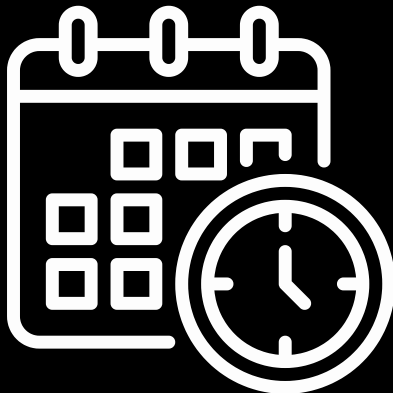
Quick guide

①



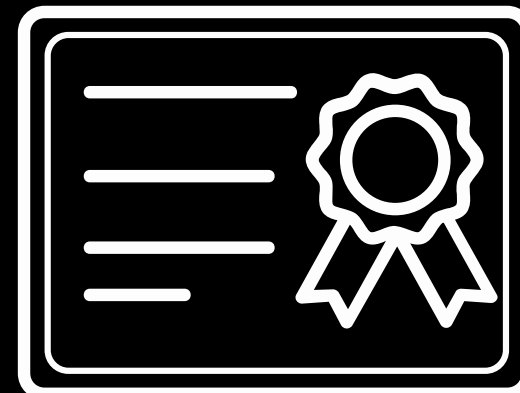
Register with us

②



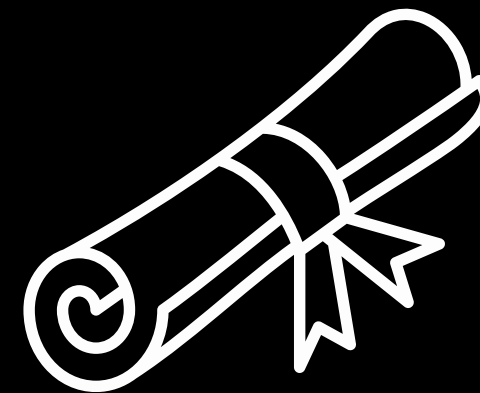
**Schedule your
classes**

③



Certifications

④



**Placement
assistance**

Program ratings



STUDENTS AVERAGE RATINGS



4.85 / 5

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