★ AI-INTEGRATED COURSE

NXT CERTIFIED JUNIORS ROBOTICS COURSE (7-10 GRADE)

Kickstart your journey in robotics and coding!

Duration: 3 Month | **Certificate** · Intermediate | **Eligibility:** Students in grades 7 to 10 with an interest in technology an

OVERVIEW OF THE COURSE

Welcome to the NxT Certified Juniors Robotics Course designed for students in grades 7 to 10! This comprehensive program will introduce you to the exciting world of robotics, where you will learn how to design, build, and program your own robotic creations. Discover the basics of robotics and automation. Engage in hands-on proje...

- Hands-on robotics projects
- Collaborative problem-solving
- Learn block-based programming
- Explore sensors and automation
- Engage with AI concepts



3 Month DURATION

8 SUBJECTS

4 PROJECTS

11 TOOLS

JOIN NOW →

WhatsApp us

WE ARE AVAILABLE AT
600+ LOCATIONS

NOT SURE WHICH COURSE IS RIGHT FOR YOU?
Choose the Best Course for You - Try our AI-Powered Career Counselling for FREE

Start free →

YOUR NEAREST ISDM NxT CENTRE
Vandana IT Courses (Uran)
Vandana IT Courses Uran (VITC), Shop Number 38, Front Gate Shreeraj Nagar, Uran, Maharashtra - 400702
Call / WhatsApp: **9967874887** · dattaprasad1013@gmail.com

Scan to enquire

COURSE CURRICULUM

What you will learn

01 Subjects → | 02 Projects → | 03 Tools → | 04 AI Integration

01 Subjects & modules

6 subjects with the topics you will learn

01 Introduction to Robotics & Engineering Concepts

- Robotics Foundations And Applications
- Mechanical Components And Robot Motion
- Electrical Components And Sensors
- Mechanical-Electrical System Integration
- Robotics Evolution Across Industries
- Engineering Disciplines And Concepts
- Motors Sensors And Controllers

02 Block-Based Programming & Logical Thinking

- Block-Based Coding Fundamentals
- Scratch Projects And Block Types
- LEGO Mindstorms Robotics
- Robot Movement Commands
- Sensor-Based Robot Control
- Loops And Conditional Decision Making
- Obstacle Avoidance And Simulation

03 Working with Sensors & Automated Robots

- Sensor Types And Applications
- Robotic Perception And Sensor Data
- Programming Sensors For Obstacle Avoidance
- Building And Testing Line-Following Robots
- Wireless Robot Communication
- Self-Driving Car Sensor Systems
- Programming Obstacle-Stop Robots

04 Advanced Motion & Control Mechanisms

- Turning Mechanisms
- Robotic Speed Control
- Path Following Methods
- Motors, Servos, And Pneumatic Actuators
- Remote And Autonomous Control
- Building A Path-Following Robot
- Robot Motion Simulation

05 Engineering Design & AI in Robotics

- Engineering Design Process In Robotics
- Artificial Intelligence And Machine Learning
- Robot Training For Recognition And Automation
- Cloud Robotics And Internet Of Things
- AI Implementation In Virtual Robots
- Robot Blueprinting, Assembly, And Testing
- Researching AI-Powered Robots

06 Final Project, Presentation & Certification

- Planning And Building The Final Robot
- Explaining Coding And Design Principles
- Structuring Project Presentations
- Creating Slides And Rehearsing
- Demonstrating Projects And Troubleshooting
- Handling Questions And Feedback
- Certification And Student Recognition

02 Projects & assignments

Hands-on work for your portfolio

P1 Build a simple robotic arm and program it to perform specific tasks.

P2 Create a line-following robot using sensors.

P3 Design a robotic vehicle that can navigate through an obstacle course.

P4 Develop a project showcasing the application of robotics in daily life.

03 Tools & software you will master

4 industry tools

- Scratch
- Arduino IDE
- Tinkercad
- LEGO Mindstorms

04 AI Integration

How AI is used inside the work of this course

AI SUBJECT

AI Fundamentals & Prompt Engineering

- **AI Basics and Everyday Uses**
- **Generative AI: How It Works**
- **Prompt Engineering Foundations**
- **AI for Study and Workplace Tasks**
- **Fact-Checking and Reliable Research**
- **Privacy, Safety and Responsible Use**
- **Integrated Practice and Review**

AI SUBJECT

AI for School Students

- **AI Basics and First Study Prompts**
  Google Gemini in Gemini web app · ChatGPT in ChatGPT web app
- **AI Study Helpers: Explain, Quiz and Review**
  Google Gemini in Gemini web app · ChatGPT in ChatGPT web app
- **NotebookLM and AI Tutor Study Sessions**
  NotebookLM in NotebookLM web app · Khan Academy Khanmigo or a Khanmigo-style AI tutor in G
- **Canva AI for School Projects and Presentations**
  Canva AI features in Canva design editor and presentation workspace
- **Scratch Block Coding with AI-Assisted Ideas**
  Scratch with Google Gemini or ChatGPT for idea support in Scratch project editor, with the
- **Teachable Machine: Train a First AI Model**
  Teachable Machine in Teachable Machine web app
- **Safe, Honest and School-Appropriate AI Use**
  Google Gemini and ChatGPT in Gemini and ChatGPT study apps · NotebookLM in NotebookLM web

AI TOOLS YOU WILL USE

- ChatGPT
- Google Gemini
- NotebookLM
- Canva AI
- Microsoft Copilot
- Claude
- Perplexity

CAREER OPPORTUNITIES

Where this course can take you

Robotics Engineer
Fresher salary: ₹3.0-5.0 LPA*

Automation Technician
Fresher salary: ₹2.5-4.5 LPA*

Software Developer
Fresher salary: ₹3.0-6.0 LPA*

Researcher in Robotics
Fresher salary: ₹3.5-7.0 LPA*

Robotics Programmer
Fresher salary: ₹3.0-5.5 LPA*

Freelancing & own business

- Building custom robots for clients
- Developing educational robotics kits
- Offering coding workshops
- Creating robotics tutorials and content

Industries that hire

- Manufacturing
- Education Technology
- Research and Development
- Healthcare
- Entertainment

Grow further

- NxT Certified Advanced Robotics Course
- NxT Certified AI Programming Course
- High School STEM Projects
- Internships in tech companies

Certification

Upon successful completion, students receive the NxT Certified Juniors Robotics Certificate, showcasing their skills.

Practical AI-integrated project **Final online test** **Verifiable certificate**

JOB SUPPORT

How we help you get a job

1 Resume building assistance

2 Mock interview sessions

3 Job offers through our network

4 Guidance on job applications

* Typical fresher salary ranges in India; the actual salary depends on the employer, the city and your skills.

WHY START NOW

Your future is built by the skills you learn today.

Companies hire people who can do the work. People who use AI well at work are in demand - this course teaches you the job skills and the AI tools together. Every month you practise adds a project to your portfolio - the best time to start is now.

18+	600+	2,708+	390+
Years of training experience	Centres across India	Job offers to our students	Hiring companies

UNIQUE FEATURES AT ISDM NxT

- ✓ Free pre-counselling to choose the right course
- ✓ Study material, attendance, assignments, exams and results online from day one
- ✓ 24x7 AI trainer (ChatNxT) for your doubts
- ✓ Experienced, rated trainers and daily class feedback
- ✓ Practical lab sessions and live projects
- ✓ Monthly online mentorship sessions
- ✓ Resume, mock interviews and job offers in your student dashboard
- ✓ Freelancing and start-up guidance

● LIVE PLACEMENT DATA

Latest job offers to ISDM NxT students

Updated 20 Nov 2026



Gaurav M.
India
Java Software Development Engineer
Health Catalyst



Geeta K.
New Delhi
tellecaller for digital marketing
balajimarketingexperts



Anand S.
Muvattupuzha
Hiring Junior Account Executive J...
CorpZop



Adarsh S.
Ghugus
TGT Computer Science
Adani Foundation



Priyanka Y.
Mumbai
Data Entry Operator (Full-time) -...
CorpZop



Rajan S.
Ahilyanagar
Computer Trainer
Enlearning skill development Ltd

Job offers shared with our students through the ISDM NxT job network. See all at isdmnext.in/latest-placement

LIMITED SEATS · VALID TILL 30 NOV 2026

FREE Ambassador Affiliate Programme

Complete your admission within **10 days** and join the ISDM NxT Ambassador Affiliate Programme free of cost: refer friends, earn referral rewards as per the programme and get featured on the ambassador leaderboard.

CLAIM NOW

TAKE THE FIRST STEP

Book your FREE counselling session today

Meet our counsellor, see the lab, get your doubts answered and know the current fees and offers for your centre.

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Try it FREE → isdmnext.in/course-for-you

01
Counselling
Free guidance to pick the right course

02
Training
Practical classes, labs and projects

03
Mentoring
Experts, AI trainer and feedback

04
Placement support
Resume, interviews and job offers

What you get with this course

- Comprehensive study material
- Hands-on practical lab sessions
- Engaging live projects
- 24x7 AI trainer support
- AI career counselling
- Interview preparation assistance
- Job offers on student dashboard
- Official certification

ISDM NxT Head Office: 309, Saffron Plaza, Airport Road, Vadodara, Gujarat, 390022 · +916263625594 · inquiry@gmail.com

Fees depend on the centre and current offers - ask your counsellor. Course content may be updated to stay current with industry needs. · isdmnext.in