ISDM Independent Skill Development Mission NXT

EMPOWERING FUTURES,
SHAPING TOMORROW

★ 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 →

CONTACT ISDM NxT
ISDM NxT - Independent Skill Development Mission
309, Saffron Plaza, Airport Road, Vadodara, Gujarat, 390022
Call / WhatsApp: **+916263625594** · inquiry@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 Your NxT Learning Kit

Practice for every subject, inside your student login

PRACTICAL APPLICATIONS

1

real-work tasks

For every subject: where it is used in real jobs and business, a step-by-step method, a worked example and a task you do on the computer and submit. Your trainer checks it and gives feedback.

- Covers 1 subject
- Checked by your trainer
- Counts in your progress report

SUBJECT TESTS

1

online test

Online practice tests subject by subject. Your result comes instantly, the right answers are explained, and you can try again to improve your score.

- 18 practice questions
- Instant result
- Answers explained

GLOSSARY

25

key terms

Every important word of your subjects in simple language, with a short meaning and an example, so technical words never stop you.

- Simple meanings
- Real examples
- Subject wise

INTERVIEW PREPARATION FOR REAL WORLD

15

interview questions with answers

Questions that companies really ask for this field, with clear model answers, so you walk into job interviews ready and confident.

- Model answers
- Asked in real job interviews
- Subject wise

BROAD RESOURCES OF EXTERNAL MATERIAL

11

videos & learning links

Hand-picked free videos, official guides and reading material for every subject, so you keep learning beyond the classroom.

- 6 videos
- 5 reading links
- Picked for your syllabus

FLASH CARDS & REVISION

22

flashcards & revision questions

Quick flip cards and short revision quizzes made from your study books, plus a short AI summary of every book, for fast revision before tests and exams, and an AI Tutor that answers your doubts.

- 12 flashcards
- 10 revision questions
- 1 AI study summary
- AI Tutor for your doubts

04 Tools & software you will master

4 industry tools

Scratch

Arduino IDE

Tinkercad

LEGO Mindstorms

05 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

CH ChatGPT | Google Gemini | NotebookLM | Canva AI | MC 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 24 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 www.isdmnext.in/latest-placement

LIMITED SEATS · VALID TILL 04 DEC 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.

ISDM NxT HEAD OFFICE

ISDM NxT - Independent Skill Development Mission

309, Saffron Plaza, Airport Road, Vadodara, Gujarat, 390022

Call: +916263625594

Email: inquiry@gmail.com

ENQUIRE NOW | **WhatsApp** | **Call +916263625594**

Scan for course details & enquiry

NOT SURE WHICH COURSE IS RIGHT FOR YOU?

Choose the Best Course for You

Try our AI-Powered Career Counselling for FREE - answer a few questions and get the courses that fit your interests, skills and career goal.

Try it FREE →
www.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

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