ISDM Independent Skill Development Mission NXT

SWARNIM LEARN. APPLY. GROW.

★ AI-INTEGRATED COURSE

# NXT CERTIFIED JUNIORS ROBOTICS COURSE (4-6 GRADE)

**Ignite your child's passion for robotics and coding!**

**Duration:** 3 Month | **Certificate** · Beginner | **Eligibility:** Students in grades 4 to 6.

## OVERVIEW OF THE COURSE

Welcome to the NxT Certified Juniors Robotics Course designed specifically for students in grades 4 to 6! This engaging course offers young learners the opportunity to explore the exciting world of robotics through hands-on projects and interactive learning. Over the span of 3 months, students will: Learn the basics of robotics...

- Hands-on robotics projects
- Learn block-based programming
- Team-based learning experience
- Enhance creativity and innovation
- Explore AI and IoT concepts




**3 Month** DURATION

**7** SUBJECTS

**4** PROJECTS

**8** 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
**Swarnim Skill Development Centre**
2nd, Floor.Kapoor Complex,Opposite.Tehsil Office,Kotlanala,Solan (H.P) 173212, Himachal Pradesh - 173212
Call / WhatsApp: **9817325573** · sskilldc@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 & Basic Engineering

- Robotics Fundamentals And Applications
- Mechanical Components And Motion
- Electrical Components And Sensors
- Mechanical-Electrical Integration
- Robot Types And Applications
- Motors, Sensors, Processors, And Power
- Robotics Safety, Tools, And Testing

### 02 Introduction to Block-Based Programming & Logic Building

- Programming Logic And Algorithms
- Flowcharts And Algorithm Design
- Block-Based Coding Fundamentals
- Scratch Programming Basics
- LEGO Mindstorms Robotics
- Robot Movement And Control
- Loops And Conditional Statements

### 03 Working with Sensors & Automated Robots

- Sensor Types And Operation
- Obstacle Detection And Sensor Fusion
- Sensors In Automated Applications
- Future Trends In Robotics
- Environmental Interaction And Sensing
- Programming Sensor-Based Responses
- Autonomous Vehicle Sensor Design

### 04 Robot Motion & AI-Based Decision Making

- Turning Commands and Speed Control
- Sensor-Based Path Following
- AI Decision-Making Processes
- Pattern Recognition in Robotics
- Self-Driving Cars and Automation
- AI Assistants and Robotics Applications
- Benefits and Challenges of AI Robotics

### 05 Design & Engineering Challenges in Robotics

- Engineering Design Process
- Multitasking Robot Design
- Sensor Integration And Programming
- Robotics For Environmental, Medical, And Industrial Problems
- Robotics Challenges And Future
- Troubleshooting And Debugging
- Robot Invention Blueprinting

### 06 Exploring AI, IoT & The Future of Robotics

- AI And Machine Learning In Robotics
- Robot Components And Decision-Making
- IoT-Connected Smart Robotics
- Smart Robotics Applications And Challenges
- AI Assistants And Humanoid Robots
- Robotics In Space Exploration

## 02 Projects & assignments

Hands-on work for your portfolio

**P1** Build a simple robot using a robotics kit.

**P2** Program the robot to complete a specific task.

**P3** Participate in a robotics competition with peers.

**P4** Create a presentation on the robotics project.

## 03 Tools & software you will master

4 industry tools

- Scratch
- Arduino
- LEGO Mindstorms
- Tinkercad

## 04 AI Integration

How AI is used inside the work of this course

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

CAREER OPPORTUNITIES

# Where this course can take you

**Robotics Technician**
Fresher salary: ₹2.0-3.0 LPA*

**Junior Programmer**
Fresher salary: ₹2.4-3.6 LPA*

**STEM Educator**
Fresher salary: ₹2.0-3.5 LPA*

**Robotics Designer**
Fresher salary: ₹2.5-4.0 LPA*

**Automation Assistant**
Fresher salary: ₹2.1-3.2 LPA*

### Freelancing & own business

- Creating custom robots for clients
- Offering coding workshops for kids
- Developing educational content
- Building prototypes for startups

### Industries that hire

- Education Technology
- Manufacturing
- Robotics Companies
- Software Development
- Research and Development

### Grow further

- NxT Advanced Robotics Course
- NxT Certified Coding Course
- NxT AI and Machine Learning Course

## Certification

Upon successful completion, students receive an ISDM NxT certificate, showcasing their skills in robotics.

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

JOB SUPPORT

# How we help you get a job

1. Personalized resume building
2. Mock interview sessions
3. Access to job offers
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.

YOUR ISDM NxT CENTRE

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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 →**
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
- Interactive practical lab sessions
- Live projects to enhance learning
- 24x7 AI trainer support
- AI career counselling
- Interview preparation guidance
- Job offers in student dashboard
- Certificate of completion

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