★ 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	7	4	8
DURATION	SUBJECTS	PROJECTS	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
IGNITE LEARNING ACADEMY
IGNITE LEARNING ACADEMY SUKRTHAM COMPLEX 2 ND FLOOR THRIPRAYAR PIN : 690566, Thrissur, Kerala - 680566
Call / WhatsApp: **9895129398,8139850744** · igniteacademy3@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.

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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
- 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