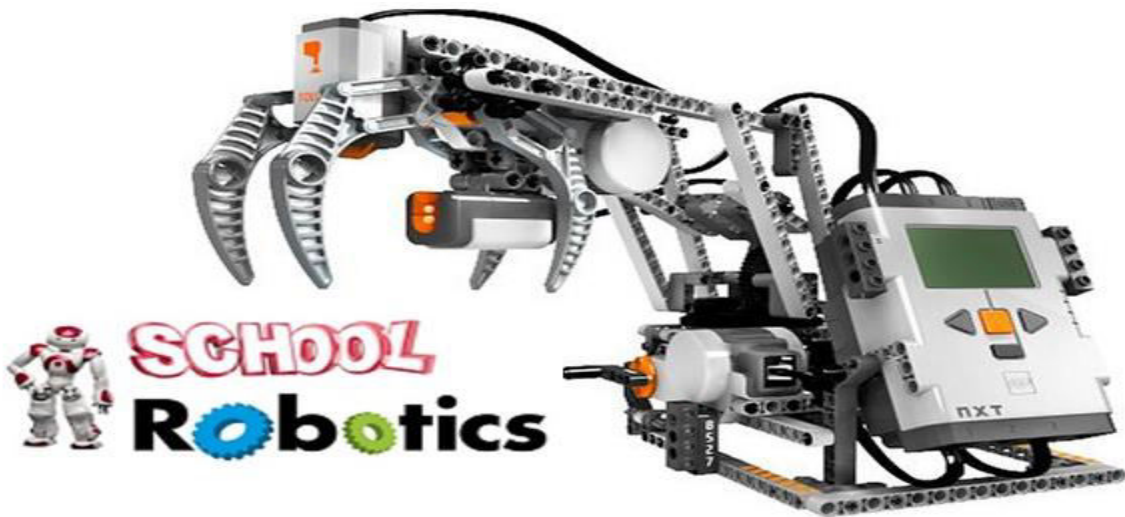# Embedded Technosolutions

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3 Times IIT Bombay Robo Competition Winner

School Robotics Level - 3

SCHOOL Robotics

1st Step to Build Your Child Future in Technology & Automation

Skill India Mission

कौशल भारत - कुशल भारत

Robotics & Artificial Intelligence are the Future of Automation

Let Your Child Understand these Things at School Level so that They Become Future Ready With IIT Bombay Alumni

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<u>Importance of Robotics Education at School Level</u>

1. In A Survey Done by **"World Economic Forum"**,It has Proved that the Combination of Science, Technology, Engineering & Mathematics are Very Important to Improve the **"Analytical Skills"** at School Level

2. Apart from Theoretical Studies **"Project Based Learning"** is Very Important which Improves the Technical Intelligence, Innovations, Leadership Qualities, Analytical Skills & Team Management Qualities at School Level.

3. World is changing very fast. Ones upon a time there was a PC revolution, Then Mobile Revolution, now in future Robotics will be part of our lives.

4. The global robotics industry is growing rapidly and the trend towards its adoption is increasing in India as students.

5. Robotics will play a major role in the future so it is imperative that we prepare the present generation of students at school level for this transition

6. It Create curiosity, excitement and exploration among school children in Science, Mathematics and Technology.

7. Enable children to become motivated and engaged in Science, Mathematics and Technology (SMT) through observation, experimentation, inference, drawing, model, building, rational reasoning, test ability etc.

8. Whenever students work on any technical projects that improve their team activity.

9. They also have an opportunity to showcase their talent to the world through National & International level Robotics Competition.
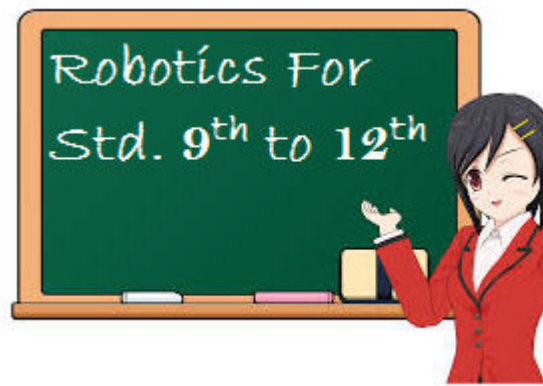
Robotics Training Syllabus

Robotics For Std. 9th to 12th

Theory

1. Introduction to Robotics

2. Robotics Mechanism & Computations

3. Science & Mathematical Principles used in Robot Building

4. Electrical & Mechanical Concepts Involved in Robot Building

5. Introduction to Various Major Components used in Robot Building

6. Schematic & Interconnections of Various Modules

7. Basic Robotics Module Designing

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Arduino Platform

8. Introduction to Open Source Platform Arduino

9. Introduction to Arduino IDE

Arduino C Programming

10. Embedded C Programming for Arduino

11. Arduino Libraries & Basic Module Interfacing

12. Logic Families

Wireless Communication Technology

13. Introduction to Wireless Technology

14. Introduction to Wireless domain Advantages & Applications

DTMF Technology

15. Introduction of DTMF mobile technology

16. DTMF technology interfacing in real application

17. DTMF programming

Radio Frequency Technology (RF)

18. Introduction of RF Communication

19. RF technology interfacing in real application

20. RF module programming

RFID Technology

21. Introduction to RFID communication

22. RFID technology interfacing in real application

23. RFID module programming

Bluetooth Technology

24. Introduction to Bluetooth Communication

25. Bluetooth technology interfacing in real application

26. Bluetooth module programming

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Practicals & Projects Designing

1. Basic Wired Robot Development

2. DTMF Mobile Controlled Wireless Robot

3. RF Remote Control Robot

4. RFID Based Security System

5. Bluetooth & Android Based Robot Designing

6. Wireless Home Automation

7. Traffic Light Designing

8. Burglar Detection using Arduino

Duration	Total Lectures - 12	2 Hours / Lecture
Projects	1 Project / Lecture	Theory + 8 Projects

Thank You,

IIT Bombay Alumni

What Our Client Says About Us

Check Out Our Customer Reviews

Please Click the link below to see our client reviews about us

Sulekha Reviews

https://www.sulekha.com/iit-ians-embedded-technosolutions-thane-west-mumbai-contact-address

Google Reviews

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