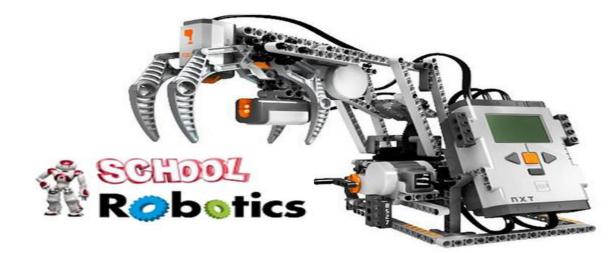


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Industrial Certified School Junior Scientist Program Level - 3



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



कौशल भारत-कुशल भारत



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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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Government of India (MSME) & ISO 9001-2015 Approved Organisation Running by IIT Bombay & VJTI Alumni



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Importance of Robotics Education at School Level

- 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.



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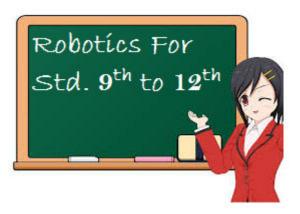
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- 7. Enable children to become motivated and engaged in Science, Mathematics and Technology (SMT) through observation, experimentation, inference, drawing, model, building, rational reasoning, test ability etc.
- 8. Whenever students work on any technical 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.



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<u>Robotics Training</u> Syllabus



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



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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

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



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Sr.No	Parameters	Schedule
1	Duration	6 Months Lectures on Saturday / Week
2	Sessions	1 Project / Per 4 Lectures (Theory + 12 Projects)
3	Fee	Rs. 2150 / Month



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Contact Us

Contact Number

- 9224301650 (Whats App)
- 022-62390060

<u>Email Id</u>

info@embeddedtechnosolutions.com

embeddedtechnosolutions@gmail.com

Website

 $\underline{www.embeddedtechnosolutions.com}$