Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

Industrial Certified

School Junior Scientist Program Level - 2

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

Skill India Mission

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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EUROPACERT

Embedded Technosolutions

Shop No. C/20, 1st Floor, Amrita Sadan, Near Hotel Dwarka Nerul Railway Stations, Nerul West, Mumbai- 400706, Maharashtra, India

Has established and applies a Quality Management System for following scope of activities:

Imparting Engineering Professional Training And Engineering Project Exhibitions Engineering And Engineering Paper Publication

The Management System of the above organization has been audited and found to be in accordance with the requirements of management System Standards Detailed Below:

ISO 9001: 2015

Certificate Number: 14464

Issue Date : 21st September 2017

Expiry Date : 20nd September 2020

Certification Manager

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MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

Udyog Aadhaar

Type of Enterprise	Micro	Small	Medium
Manufacturing	A	B	C
Services	D	E	F
UAN	MH19E0006383		

E

Government of India (MSME)

Name of Enterprise : Embedded Technosolutions

Type of Organisation
Proprietary

Postal Address
Shop No.C/20,1st Floor ,Amrita Sadan, Near Hotel Dwarka,Nerul West,District - Mumbai City,
State - Maharashtra, 400706

Email
info@ embeddedtechnosolutions.com

Majority Activity
Services

District Industry Centre
Mumbai City

UAN
MH19E0006383

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

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.

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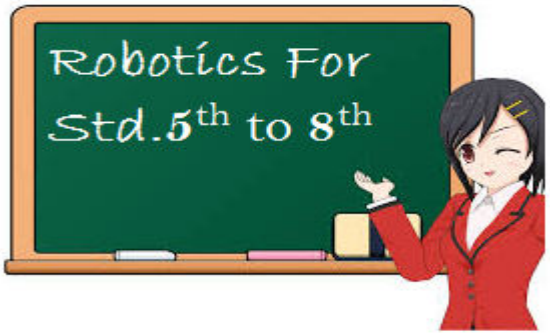
Robotics Training Syllabus



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. Introduction to Power Supply Unit Used in Robotics
8. Physics Concepts of Power Supply
9. Power Supply Designing Concepts

10. Integration of Various Mechanical & Electrical Components to form Basic Robot Unit
11. Introduction to Electronics Passive & Active Components
12. Use of Electronic Meters (Multimeter) to Test Various Active & Passive Electronics Components
13. Understanding of Printed Circuit Board(PCB)
14. PCB Unit Testing
15. Soldering & Component Assembling on PCB
16. Electronic Circuit Testing & Fault Finding
17. Introduction to Arduino
18. Logic Families & its Principles
19. Programming Concepts of Arduino
20. Application Interfacing with Arduino
21. LED Blinking Concepts
22. Radio Frequency(RF) Technology & its Concepts
23. RF Module Interconnections
24. RF Module operations
25. RF Module based Live Project Designing

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Practicals & Project Designing

1. Basic Robot Module Designing
2. RF Based Remote Car
3. Burglar Alarm Designing
4. Smoke Detector Designing
5. Electronic Power Supply Designing
6. Clap Sensor Application Designing
7. Traffic Light Designing
8. Electronics Rain Alarm

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. 2050 / Month

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Contact Us

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