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Venture of IIT Bombay & VJTI Alumni

**3 Times IIT Bombay Robo Competition Winner**

**Government of India (MSME) Registered &  
ISO Certified Organization**

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**Skill India Mission - 2017**

कौशल भारत - कुशल भारत



**SCHOOL**

**Robotics**

**WORKSHOP**

**Robotics & Artificial Intelligence are the Future of Automation**

**Let Your Child Understand these Things at School Level so  
that They Become Future Ready**



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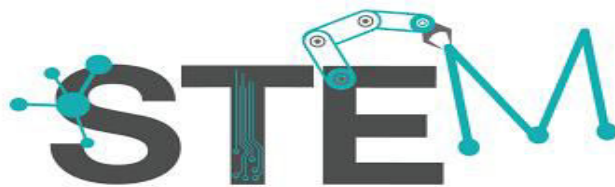
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**For School Students We Conduct a Program Called**

**“STEM Robotics”**



*Robotics Program*

By IIT Bombay & VJTI Alumni

**SCIENCE**

**TECHNOLOGY**



**ENGINEERING**

**MATHEMATICS**

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



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



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### **\*Importance of Robotics Education at School Level\***

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. It is imperative that we give our future generation the knowledge and power to build a better world. India is a fast developing economy, with a large and growing young population (over 220 million children in India between 6-16 years. ). Use of technology in everyday life is far greater than ever before and will increase many



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fold in the near future. The global robotics industry is growing rapidly and the trend towards its adoption is increasing in India as students. Robotics will play a major role in the future so it is imperative that we prepare the present generation of students for this transition. Importance of STEM (science, technology, engineering and maths) education, use of technology and hands-on learning in primary, middle and higher education. Students must learn application of core STEM Concepts and acquire essential life skills in order to be successful in their professional lives.



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**\*Benefits of Robotics Education at School Level\***

- ✓ Create curiosity, excitement and exploration among school children in Science, Mathematics and Technology.
- ✓ 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.
- ✓ The hardware and software that accompany robotics give students creative liberty and analytical skills to approach any problem with countless solutions and make effective decisions.
- ✓ To improve the analytical skills “ Project Based Learning ” is very important which can be achieved through Practical Robotics Projects.
- ✓ Whenever students work on any technical projects, that improves their team activity.
- ✓ They also have an opportunity to showcase their talent to the world through National & International level Robotics Competition.



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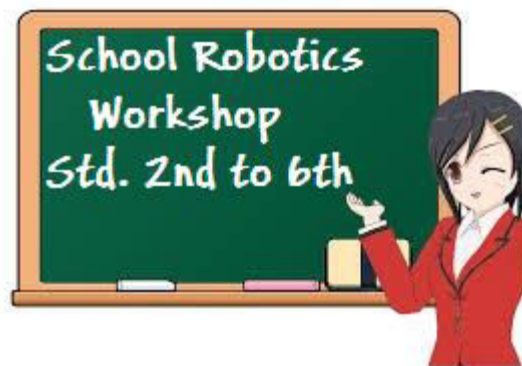
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## Robotics Training Syllabus



### 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 of Motors, Chassis, Key Board, Dummy, Supply & Wheels



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8. Basic Robotics Module Designing

## Practicals & Designing

1. Designing of Four wheel Wired Robot

<b><u>Duration</u></b>	3 Hours / Day	Total Days – 2
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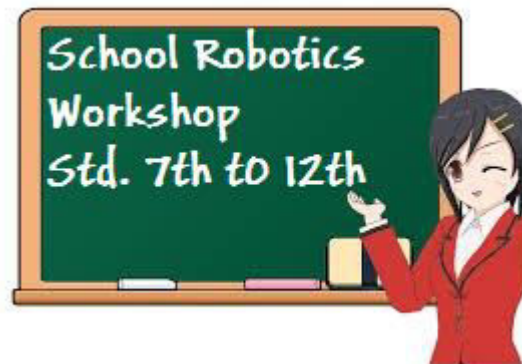
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## Theory

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6. Schematic & Interconnections of Various Modules
7. Introduction of Motors, Chassis, Key Board, Dummy, Supply & Wheels
8. Basic Robotics Module Designing
9. Radio Frequency(RF) Technology & its Concepts



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10. RF Module Interconnections
11. RF Module operations
12. RF Module based Live Project Designing

## **Practicals & Project Designing**

1. Basic Robot Module Designing
2. Radio Frequency (RF) Based Wireless Remote Car

<b><u>Duration</u></b>	3 Hours / Day	Total Days – 3
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**Thank You,**

IIT Bombay Alumni

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[https://www.google.co.in/search?q=embedded+technosolutions&oq=EM&aqs=chrome.1.69i60j6z9i59l2j69i61j69i60j69i65.4l20j0j4&sourceid=chrome&ie=UTF-8#lrd=0x3be7c3c1c6aaaacd:0x2a0bceeebb030d17,1,](https://www.google.co.in/search?q=embedded+technosolutions&oq=EM&aqs=chrome.1.69i60j6z9i59l2j69i61j69i60j69i65.4l20j0j4&sourceid=chrome&ie=UTF-8#lrd=0x3be7c3c1c6aaaacd:0x2a0bceeebb030d17,1)



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