



**Embedded Technosolutions**

Venture of IIT Bombay & VJTI Alumni

**3** Times IIT Bombay Robo Competition Winner

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# Industrial Certified School Maths Programmer

**All India Council For Technical Skill  
Development (AICTSD)**

**In Association with**

**IITians Embedded Technosolution**



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

**Embedded Technosolutions** is a Professional & Corporate Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical based on industrial standards

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## Till Now We Worked for the following Industries

- Crompton Greaves Ltd, Mumbai
- Laboratory Corporation of America, LabCorp, Burlington, NC USA
- Netfinity, India
- Continental Grain Corporation
- Brook Furniture Rental, Chicago, IL
- ITA, Bangalore
- RAK Ceramics, Mumbai
- Nvidia, Pune
- ARORA, Mumbai
- RED Cell, Mumbai
- Secutech, Mumbai

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B R A N D

**PROMISE**

—◆—

**We Guarantee You that, You Can Develop Your Projects by  
Your Own After This Training Program**

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## School Maths Programmer

### Module 1 - Introduction

- Python | The New Generation Language
- Variables | Expressions | Functions
- Global and Local Variables

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## **Module 2 - Operators**

- Division Operator
- Any and All Operator
- Increment and Decrement Operators
- Operator Functions
- Ternary Operator
- Quiz on Operators

## **Module 3 - Data Types**

- Introduction
- Strings :
  - Strings | Set 1
  - Strings | Set 2
  - String Methods | Set 1
  - String Methods | Set 2
- List :
  - Comprehension and Slicing
  - List Methods | Set 1
  - List Methods | Set 2

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- Tuples
- Arrays | Set 1
- Arrays | Set 2
- Quiz on Data Types

### **Module 4 - Dictionary**

- Introduction
- Dictionary Methods

### **Module 5 - Flow Control**

- Loops and Control Statements
- Counters

### **Module 6 - Functions**

- Mathematical Functions | Set 1
- Mathematical Functions | Set 2
- Calender Functions
- enum

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## Module 7 - OOPs (Object Oriented Programming)

- Class | Objects
- Data Hiding and Object Printing
- Inheritance

	<b><u>Live Projects</u></b> : <b>Based on Mathematical Concepts</b>
<b>1</b>	Design a Calculator
<b>2</b>	Program to swap two numbers
<b>3</b>	Program to check if given year is leap year or not
<b>4</b>	Program to print Floyd's triangle
<b>5</b>	Program to find Area of Circle
<b>6</b>	Program to find Area of a Triangle
<b>7</b>	Program to find factorial of a number
<b>8</b>	Program to find GCD / HCF of two number

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<b>9</b>	Program to find LCM of two number
<b>10</b>	Program to find all angles of a triangle
<b>11</b>	Solving $f(n) = (1) + (2*3) + (4*5*6) \dots n$ using Recursion
<b>12</b>	Program to print first n Fibonacci numbers
<b>13</b>	Multiply the given number by 2 such that it is divisible by 10
<b>14</b>	Program to find greater value between $a^n$ and $b^n$
<b>15</b>	Maximum number of pieces in N cuts
<b>16</b>	Program to find Sum of the series $1*3 + 3*5 + \dots$
<b>17</b>	Program to find Length of Bridge using Speed and Length of Train
<b>18</b>	Program for converting Alternate characters of a string to Upper Case
<b>19</b>	Program to find missing characters to make a string Pangram
<b>20</b>	Program to check if a string is palindrome or not
<b>21</b>	Program for converting given time to words
<b>22</b>	Program to convert time from 12-hour format to 24-hour format

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<b>23</b>	Program to check if given Date is valid or not.
<b>24</b>	Small factorial
<b>25</b>	Odd or Even Numbers
<b>26</b>	Sum Palindrome
<b>27</b>	Remainder Solution
<b>28</b>	Printing Tables
<b>29</b>	Calculating Simple Interest
<b>30</b>	Sum of AP
<b>31</b>	Sum of GP
<b>32</b>	Greatest of three numbers
<b>33</b>	Calculating $a^b$
<b>34</b>	Printing Tables
<b>35</b>	Design a Game - Guess a Write Number

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