

## SYLLABUS 2026-2027

**Class : 9**

**Subject : Robotics and Artificial Intelligence**

**Book : Touchpad (authors : Dr. Saurabh Maheswari , Shalini Harisukh and Anjna Virmani)**

**Publisher : Orange**

### Term 1

- **What is AI & Robotics (Introduction)**
- **Python Fundamentals (Data Types, Variables, Operators etc)**
- **Installation and Environment set up**
- **Python: Conditional Statements**
- **Introduction to Robotics**
- **Arduino Uno - Introduction**
- **Introduction to Tinkercad**
- **Project 1 ( Basic & Introductory Projects)**

### Term 2

- **Robot as a System**
- **Concepts in Robotics**
- **Control Statements in python (only loops, for and while, nested loops)**
- **Functions in python**
- **Introduction to Artificial Intelligence.**
- **Project 2 (Continued from project 1)**

#### **Contact Us**

Seth M.R. Jaipuria School, Vineet Khand, Gomti Nagar, Lucknow – 226010, U.P.

Phone: +91-522-2726502, 7311184804

Website: <https://www.sethmrjaipuria.school/>

### **Term 3**

- **Control Statements in python continued(different types of iterables like : list, tuple , string and dictionary, numpy along with the idea of break , continue and pass statements)**
- **Role of Data and Information, Evolution of computing.**
- **AI Concepts and AI Project Framework**

### **Term 4**

- **Revision of Python and Robotics**
- **Introduction to Modern AI Technologies (Computer Vision etc)**
- **Applications of Artificial Intelligence in Real Life**

---

#### **Contact Us**