



# COURSES

## MIDDLE SCHOOL LEVEL - BASICS

### INTRODUCTION TO COMPUTER SCIENCE -INTRODUCTION

- Categories of Computer
- Evolution of computing devices
- Computer Languages
- Software
- MS office
- Internet

### PRACTICAL COMPUTING – OFFICE TOOLS

- Working with MS Power point
- Working with MS Word
- Working with MS Power Point
- Working with Canva
- Google Alternatives – Introduction

### INTRODUCTION TO COMPUTER SCIENCE – HARDWARE

- Functional components
- I/O devices
- Data transfer through system bus
- Computer Memory
- Additional Gadgets
- Servers + Cloud – Introduction
- Super Computers – Introduction

### PRACTICAL COMPUTING – OPERATING SYSTEM & GUI

- Need for operating system
- Functions of OS
- User interface
- Adjustments and Tweaks for OS
- Platform Independence

### PRACTICAL COMPUTING – ETHICS & SAFETY MEASURES IN COMPUTING

- Cyber Crime and Computer Ethics
- Hackers and crackers
- Cyber law and importance
- Malware and Ransomware

### BASICS OF PROGRAMMING – ALGORITHMS & FLOWCHARTS

- Introduction to Problem Solving
- Use of algorithm in programming
- characteristics of algorithm
- Developing algorithm to solve a problem
- Flowchart symbols