

STRUCTURED IT & STEM LEARNING PATHWAY FOR SCHOOLS THROUGH EDUPYRAMIDS, SINE, IIT BOMBAY

Learn • Practice • Certify • Excel



Industry-Ready Exposure:

School students gain hands-on experience with practical, job-relevant courses



Class-wise Curriculum Alignment:

Up to 4 courses per year, aligned with school curriculum (Primary, Middle & Senior Secondary)



Recognized Certifications:

Certification from Spoken Tutorial, EduPyramids, SINE & IIT Bombay



Teacher Development:

Continuous Professional Development (CPD) programs for teachers



Strong Implementation Network:

- Partnered with Zilla Parishad departments (Nandurbar, Bhandara and Kothevad)
- Implemented in 250+ CBSE schools, JNVs, NGOs, and more





1. Preparatory Stage (Classes 3–5)

Focus: Basic computer awareness, creativity, and visual learning

1.1 Recommended Courses

- Introduction to Computers
- Kturtle
- LibreOffice Suite Draw

2. Middle Stage (Classes 6–8)

Focus: Logic building, basic programming, structured tools

2.1 Programming & Logic

- Kturtle (advanced use)

2.2 Tools & Software

- LibreOffice Suite:
 1. Calc
 2. Writer
 3. Impress
- GIMP (intermediate)
- Inkscape (intermediate)
- Blender (basic)
- QCAD (basic)
- Jmol Application
- GChempaint

2.3 Intro Technical Exposure

- Arduino (basic projects)

Goal: Develop problem-solving skills and early coding mindset

3. Secondary Stage (Classes 9–10)

Focus: Core programming, web basics, system exposure

3.1 Programming Languages

- C and Cpp
- Python
- Java Script
- BASH

3.2 Web & Design

- HTML
- CSS

3.3 Systems & Tools

- Linux (basic)

Goal: Build strong technical foundation and real-world exposure

4. Sr Secondary Stage (Classes 11–12)

Focus: Advanced programming, specialization, and industry tools

4.1 Advanced Programming & Development

- Advanced Cpp
- Java Business Application
- PHP and MySQL
- Ruby
- PERL
- R
- BioPython



4.2 Systems & Administration

- Linux AWK
- Linux for Sys-Ads
- BASH (advanced)
- BOSS Linux

4.3 Engineering & Scientific Tools

- OpenFOAM
- DWSIM
- OpenModelica
- CellDesigner
- UCSF Chimera
- Scilab (advanced)

4.4 Web & CMS Platforms

- Drupal
- Joomla
- Moodle Learning Management System

4.5 Data & Databases

- RDBMS PostgreSQL

4.6 Specialized Applications

- Koha Library Management System
- QGIS
- Blender

4.7 Electronics & Embedded

- Arduino
- OpenPLC with LDmicro

Goal: Prepare students for higher education and career pathways