CTI Lab Implementation in Schools

Teacher Training Sessions

Lab setup in school (Curriculum hardware & Robotic Fio)

Two complimentary student training sessions

Future Ready School

21st Century Computational Thinking and Innovation Lab

Computer Science

Robotics

Creating Stories

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WHAT IS COMPUTATIONAL THINKING?
Computational thinking is a way of solving problems, designing systems and understanding human behavior that draws on concepts fundamental to computer science.

THE 21ST CENTURY CTI LAB CURRICULUM

- COMPUTER SCIENCE (Grade 1-8)
- ROBOTICS (Level 1-4)
- Creating stories (Grade 2-4)

HIGHLIGHTS OF SMART CTI LAB
- State of the art computer Lab, equipped with laptops
- 4G internet connectivity
- Problem solving with Computational Thinking
- Coding taught from Grade 3
- Student textbooks and teacher manuals
- Advanced Robotics Lab with Brick based and humanoid kits

COMPUTER SCIENCE
- Social Media and Cyber Security
- Office productivity Tool with Office 365
- Keyboard and Mouse Skills with TuxTYPE and TuxMATH
- Coding with Scratch and Python
- Collaboration with Video and Video Editing
- Learning Multimedia with GIMP and Audacity

ROBOTICS
- Flowchart based Visual interface that doesn't require programming knowledge
- Brick-based kit includes more than 455 components
- Humanoid kit includes more than 18 intelligent servo motors that can be used to program around 30 humanoid projects and activities
- Student textbooks and teacher manuals
- Three programming environment in robotics – flowchart, action editor, model simulator
- Teacher training on the curriculum

CREATING STORIES
- Workbooks for grades 2-4
- Lab activities to read and create stories
- Structured lessons for each class
- Guided tutorials & practice sessions with each lesson
- Moral based stories
- Picture based quizzes
- Step-by-step exercises to practice