



St. Kabeer Academy(CBSE)

ATL Syllabus For Class 10th

1. ABOUT ELETRONICS COMPONENT

- Diodes
- Buttons
- Buzzer
- Resisitors
- About Space Challenge

2. BREADBOARDPROJECTS

- BuiltSevenSegmentCircuitOnBreadboard.
- TwoFinger TouchLampUsingTransistor
- WaterLevelIndicator
- SmartFanUsingIRSensor

3. 555TIMERBASEDACTIVITIES

- Introductionof555Timer ICanditsApplication
- LedFlashingUsing555Timer
- AlternateLedBlinking
- Touchswitchusing 555timer
- StreetlightcontrolusingLDRand555TimerIC.
- Rainalarmsystem

4. GET STARTED WITH ARDUINO SOFTWARE

- Intro of Arduino ide
- .Syntax of Arduino ide
- Basic about C-lang& C++

5.SOLDERINGIRONTOOL

- Howto useSoldering Iron.
- ApplicationofSolderingIron.

- Why Tanks are called Multi Terrain Vehicle?
- Role of Geared Wheel and Belt Concept.
- Construction of the Base of the tank.

6. PROJECTS

- RobotChassisInterface
- Robot AssemblingAndProgramming
- SmartHomeAutomation
- SmartDustbin

