WORLD OF ROBOTICS

SLS INSTITUTE OF CREATIVE MINDS
WORLD OF ROBOTICS

: In Association with

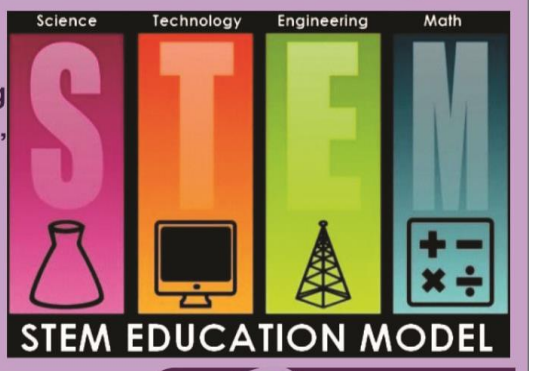
ACADEMY OF ROBOTICS
EDUCATION • INNOVATION • TRANSFORMATION

PRESENTS

ROBOTICS FOR ENGINEERS

100% career Oriented Courses

Robotics is branch of Mechanical Engineering, Electrical Engineering Computer Science & Electronics that deals with Design, Construction, Operation and application of ROBOTS



Hot Categories in our Robotic Training:

- Artificial Intelligence Based Robots
- Aerial/Flying Robots
- Special Robotic Arms etc. for Mechanic Sciences
- Submergible Robots
- Mobile/PC/Remote Controlled
- Hybrid Technology
- Terrain Based Robots

Robotics is for Engineers & Students who are Passionate for

- Electronics & Electricals
- Mechanics Orientation
- Artificial Intelligence
- Scientific Enthusiasts
- Communication Engineers
- Creative Architects
- Future Scientists!

Ask for Scholarship & Get the Best Deal

ADRES - Advanced Diploma in Robotics & Embedded Systems Special Career Course

ELECTRONICS

- Electronics - Foundation
- Electricals - Foundation
- Logical Circuits
- Integrated Circuits
- Circuit Designing
- Sensors Interfacing
- PCB Designing
- PROTEUS
- Eagle CAD

EMBEDDED HW

- Hardware Conmponents
- PROMS & EPROMS
- A/D Convertors
- Timers & Counters
- Micro Processors
- Microcontrollers
- Microcontrollers Architectures
- 8051
- PIC
- ARM
- Cortex

PROGRAMMING FOR ROBOTICS

- GUIs & CLIs
- Flashing & Porting
- Enchanting & BYOBs
- Embedded C
- MPLAB
- Matlab
- SimuLink
- NI - LabView
- Visual Studio
- Java 4 Lego

TECHNOLOGIES

- NXT - G
- Arduino
- Android
- Wireless & Bluetooth
- Kernal Designing
- Boot Loaders
- Zigbee & Xbee
- GSM, GPS, MEMS Etc.

WiFi ARM LabVIEW Certified Developer Cortex Intelligent Processors by ARM Java Bluetooth

and many more.....

Junior Scientist Combo (1&2)

Birds View of the Course

JS - 1

- Mindstorms
- NXT - G
- Theme Designing
- Creative Designing

JS - 2(HW)

- Hardware Components
- Microcontrollers
- Circute Designing Sensors Interfacing

JS - 2(SW)

- Programming for Embedded Systems
- GUIs & CLIs
- PROMS & EPROMS
- Flashing & Porting

JS-2 (Open Source Boards)

- Arduino
- Beagle Board
- Freeduno
- MSP430

JS-1 Mindstorms

- Creative Architecture
- Various Locomotors application
- Working with Sensors
- Programming in NXT-G

Graphical Programming Languages

- NXT-G, Lab view, Matlab, Enchanting

Command line interface programming

- RobotC
- BrickCC
- NI Labview

Development Boards

- Arduino, Beagle bone, Freeduino

Robotic Embedded Systems Coverage (Controllers)

- 8051
- Arm
- PIC
- Cortex

Activities

- Soldering
- Resistor color coding
- Capacitor identifications
- PCB making
- Transistors identification
- Diodes
- Regulators

Projects

- NXT- Multi Sensor Bot with Bluetooth
- Classical line follower
- Home security system
- Arduino Sun Follower

Basic Electronics Coverage

- Working with 555 timers
- comparators
- Op-amps
- Transistors
- Switching circuits

Microcontroller 8051

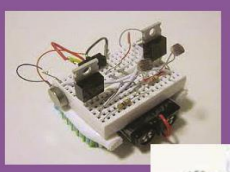
- *Microprocessor vs. Microcontroller*
- *CISC vs. RISC*
- *Architectute of 8051*
- *Description of memory organization*
- *SFR's and their basic functionality*
- *Low level programming concepts*
- *Developing, Building and Designing ALP's*
- *Middle Level Programming Cross compiler*
- *Embedded C Implementation*
- *On-chip Peripherals*
- *External Interfaces*
- *LED's. Swtiches (Momentory type, toggle type)*
- *Seven segment display*
- *Internal multiplexing, External multiplexing*
- *LCD (4bit, 8bit, Busy flag, custom character generator)*
- *Keypad Matrix*
- *Sensor Interfacing*
- *IR Sensor*
- *Touch Sensor*
- *Gas Sensor*
- *PIR Sensor*
- *Fire Sensor*
- *Flex Sensor*
- *Sound*
- *LDR Sensor*
- *Prtocols L2C (EEPROM), SPI (EEPROM)*
- *KEIL's RTX51 Tiny/Pumpkin's Salvo*

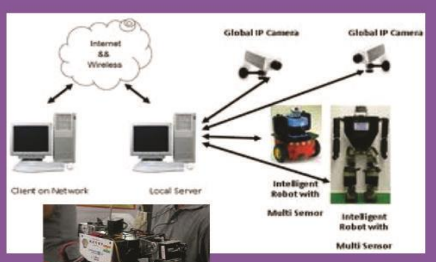
and many more.....

CONTENTS - ARDUINO

- *The Basics of programming your Arduino*
- *Just enough Electronics to be Dangerous*
- *How to make your Aurduino Respond to Sensors*
- *How to communicate to your computer with the Arduino*
- *How to Build Teleporters, Levilating*
- *Fortresses and Nuclear Reactors*

and many more.....





PIC MICROCONTROLLER

- *PIC Architecture & Programming*
- *PIC i/o port programming*
- *PIC Programming in C*
- *PIC 18 Hardware connection and rom loaders*
- *PIC 18 timers programming*
- *Interrupt Programming*
- *External EPROM and 12C*
- *USD and HID class*
- *and many more.....*

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Enter to the World of Robotics

OUR Training and Courses will be categorized in the following models

- Workshops
- Long Term college Tie-up
- Academic Projects
- Career Courses
- Individual Models

ROBOTIC COMBO PACKS

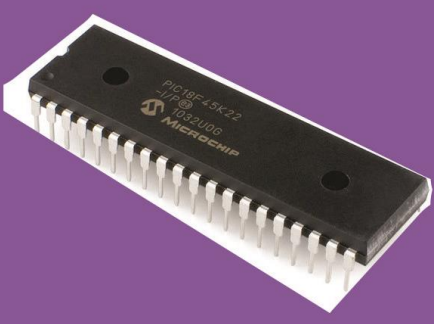
- Junior Scientist - Combo
- Robo Wizards
- Android & Aurdino - The Great Robo Combo
- and many more...

Embedded S/W for Choice

- microC & MP Lab
- ROBOTC & NXT-G
- Arduino IDE
- AVR Studio
- MATLAB
- Keil
- Android Platform

SHORT TERM ROBOTIC COURSES

- Gesture Controlled Bot with Arduino
- Line & Light Follower Bot
- Surveillance Robot with GSM Technology
- Terrain bot with Voice Control
- Computer controlled pick and place bot
- Zigbee controlled Robot with video Transmission
- Smoke and gas Detection Domestic Robot
- Hexapod Robot with Obstacle Detection
- Hovecraft with Remote Operation
- IC Engines



LONG TERM COURSES

- Android Technology
- Mobile Controlled Robots
- Arduino In & Out
- Android - The Future Power
- Web Based Robotic Controlling and many more....

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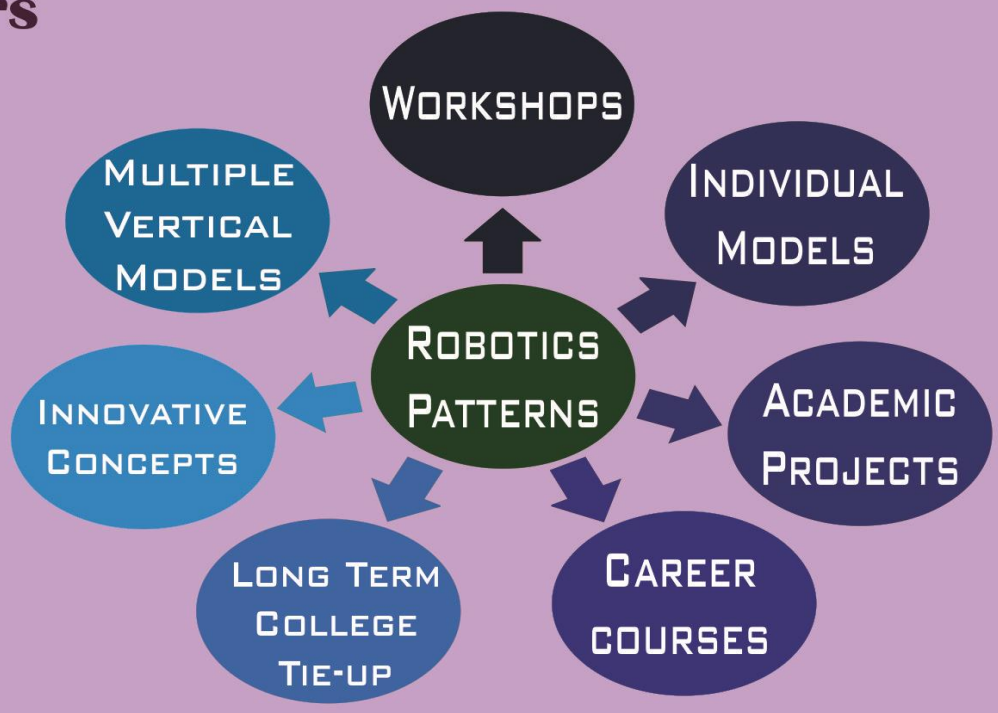
At SLS ICM, we deliver Practical Oriented Training with Latest updates and with Futuristic vision, which also helps them a lot in their JOB Hunt in Future. We make an engineer student believe he can become a Scientist! And this is the perfect dose!

Robotics for :

- Engineers (EEE, EIE, Mech, CS, IT, ES etc.)
- Hobbyists
- Passionate for Robotics
- Robotic Enthusiasts
- Creative Architects
- Career Seekers & Job Hunters
- Future Scientists



ENTER THE WORLD OF ROBOTICS AT

SLS INSTITUTE OF CREATIVE MINDS
NO. 544, 4TH MAIN, NGEF LAYOUT,
SADANANDA NAGAR, BANGALORE - 560038
PH: 080-25383777, 9900547950, 9900547942
EMAIL : BGL.EAST@ACADEMYOFROBOTICS.NET
WWW.ACADEMYOFROBOTICS.COM

At SLS ICM , You get exactly what you require FOR YOUR CAREER with much more quality, Futuristic Technology and Skill sets