



EMBEDDED SYSTEMS  
 ERP SOLUTIONS  
 WEB APPS

Any technology product could be defined as C3 - Circuit, Coding and Creativity. This innovative idea of creation gave birth to RoboticWares.

Today, RoboticWares denotes the merger of 3 different Domains: Embedded System, Software ERP solutions and Web Apps.

LabSens - By combining Creativity and Technical expertise, we offer state-of-the-art embedded solutions for various industries.

Binover - We imagine, create and deploy innovative software solutions designed exactly according to the needs of business.

Learnics- RoboticWares provides a holistic blend of technologies, programs, and professional workshops for students, helping them to acquire skills necessary to succeed in a knowledge-based economy

THE  
 ROBOTICWARES | GUIDE  
 TO |  
 EMBEDDED | SYSTEMS



Embedded **Systems**  
 & Robotics

Certificate Training  
 Program on  
 Embedded Systems  
 and Robotics



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## Who should attend this Course?

### FOCUSING ON THE NEEDS OF THE INDUSTRY AND EXPOSURE TO R&D EXPERTS

Technology in today's world is probably the most rapidly changing entity. What is released today could be rendered outdated by tomorrow. To be competent in such an environment students must be able to bridge the gap between knowledge and productive activity.

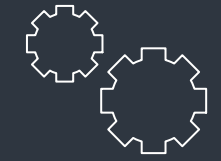
According to a recent survey two out of every three engineering student graduating in India is unemployable because he is not industry ready and colleges are hardly doing anything to bridge the gap.

Professionals: Exposes you to the wide range of technology & innovation available in the field of embedded.

Embedded Developers: Helps you gain all the necessary information in order to understand industrial Robotics.

Academics and Students: Develop an expertise on various industrial projects.

Hobbyists: Cutting edge technologies like touch screen, robotic arm and many more. Learn, Play & Create-Innovate your own systems.



### COURSE DELIVERABLES

- International Industrial Certification
- Cook Book for projects
- Resource CD with video tutorials
- Internship/Job opportunity after training\*



### MY-ROBO KIT DETAILS

- Microcontroller interfacing board
- USB Programmer
- Motor Driver Board, Relay
- LDR Sensor, IR Sensors
- LCD, Touch Screen Film
- Robot Structure
- DC Geared Motors, Wheels
- Keypad
- EEPROM IC
- Real Time Clock
- DTMF Board
- Battery
- Soldering Iron
- Multi-meter
- Charger (12 Volt)

## RCSA Certification

(Robotics Certification Standards Alliance)

### INTERNATIONAL CERTIFICATION – RCSA

The Robotics Certification Standards Alliance (RCSA) is an alliance in conjunction with several top robot manufacturers in the world to provide standardized Industrial Robotic Training and Certification.

### EMBEDDED SYSTEM AND ROBOTICS

Enablers of smart devices which make our lives so much easier, professionals trained in embedded systems technologies happen to be a rare commodity in the recruitment marketplace. Considering the vast scope of the field, ranging from telecom to consumer electronics to aerospace, the demand for embedded systems engineers for product development and application, will continue to grow in the years to come.

According to an IDC report the international market as a whole expects product development worth \$75 billion, which required as many as 150,000 trained professionals in embedded system development by the year 2005.

### TECHNOLOGY TRAINING WHICH PROVIDES A TOTAL END TO END SOLUTION.

### WHY TRAIN WITH US?

Our training module makes the Engineers from various disciplines, capable of understanding, appreciating and applying design principles and careful analysis based on theory and Experience at all levels of Embedded System development empowering them with necessary skills and updating them with latest technology.

RoboticWares is currently focusing on various cutting edge technologies like Real Time Operating System (ARM9), Humanoid and Industrial Robotics.

**BECOME  
RCSA  
CERTIFIED  
TODAY!**



**Industry Competency & Certification Exams**

### IMPORTANT DATES

- Registration Starts on: 15<sup>th</sup> March 2010
- Last date of Registration: 31<sup>st</sup> May 2010
- Advance Registration Fee: INR 6,000
- Course Fee: INR 12,000 (with take away kit)

### EMBEDDED SYSTEMS

- Microcontroller and Microprocessor
- AVR Introduction & Architecture
- AVR Tools
- Atmega Series of Microcontrollers
- Overview and Features
- I/O ports
- Timer Counters and PWM
- Interrupts, ADC, USART
- SPI, TWI
- Sleep Modes, Fuse Bits
- Boot Loader, Memory Programming



### ROBOTICS & AUTOMATION

- Basics of Robotics
- Motors: DC Geared, Stepper and Servo
- Sensors: LDR, IR and Ultrasonic
- Mechanics involved in Robotics
- Digital Logic
- Microcontroller application
- Mobile Controlled Robot
- Line Tracer
- Autonomous Robotics
- Artificial Intelligence in Robotics