Embedded System with

Arduino and Embedded C

MDB Electrosoft
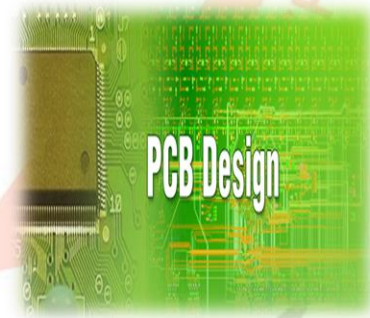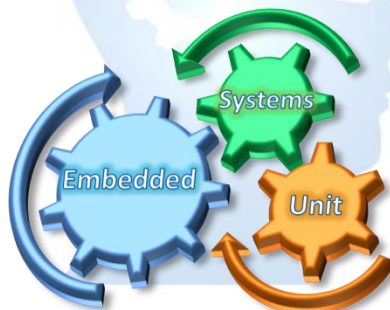
Technical Skill Development Program

About Us :

MDB Electrosoft is conducting training program from last four years we provide industry oriented training which helps to integrate academics with real time corporate world.

Our Mission is to develop the technically sound, well skill students for industries and create maximum employment.

MDB Electrosoft is grooming electronics and software product Development Company. We develop electronics and software products which help society to make life easy and interesting. Our team is always dedicated for the Development and Innovations. Our research in a product development makes the product outlined as per client requirement. Our development strategy gives throughput which inclined with the user requirements. Our vision is to develop society oriented products which always dole out better life. Our economic policies give lot in less. Our product development starts from user's requirement and ends on efficient and well develop product. Our team has well experience and skilled experts who are able to give efficient and in time solution. Every solution provided by us is unique and innovative. Our approach has been always customer and market communication centric. We create products keeping our target consumer and audience in mind. Our expertise always focuses on market requirement and development.
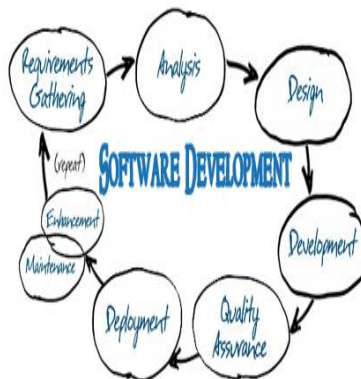
**What is Project Development Training Program?**

We have started project development training program for the Engineering, Polytechnic as well as for Professional students. The concept behind this program is to provide Practical project development training, so that students get interact with latest project development strategy and emerging technologies. Our vision behind this program is to build the students technical skill required for the actual project development in industry. This program provides platform for the student to implement their ideas.

Our Products:

- Electronics product
    1. Advance theft alert system (Patented)
    2. Home automation through remote control.
    3. Controlling of Water Pump by cell phone.
    4. Flush control system.
    5. Educational Trainer Kit

- Software Products.
    1. www.mahavidyalay.in
    2. E-attendance.
    3. MLM Software
    4. ERP software

Our Services:
- Hardware system development as per requirement
- Software development as per requirement
- Web Development
- PCB development
- Domain and hosting services
- Adroid app. Development
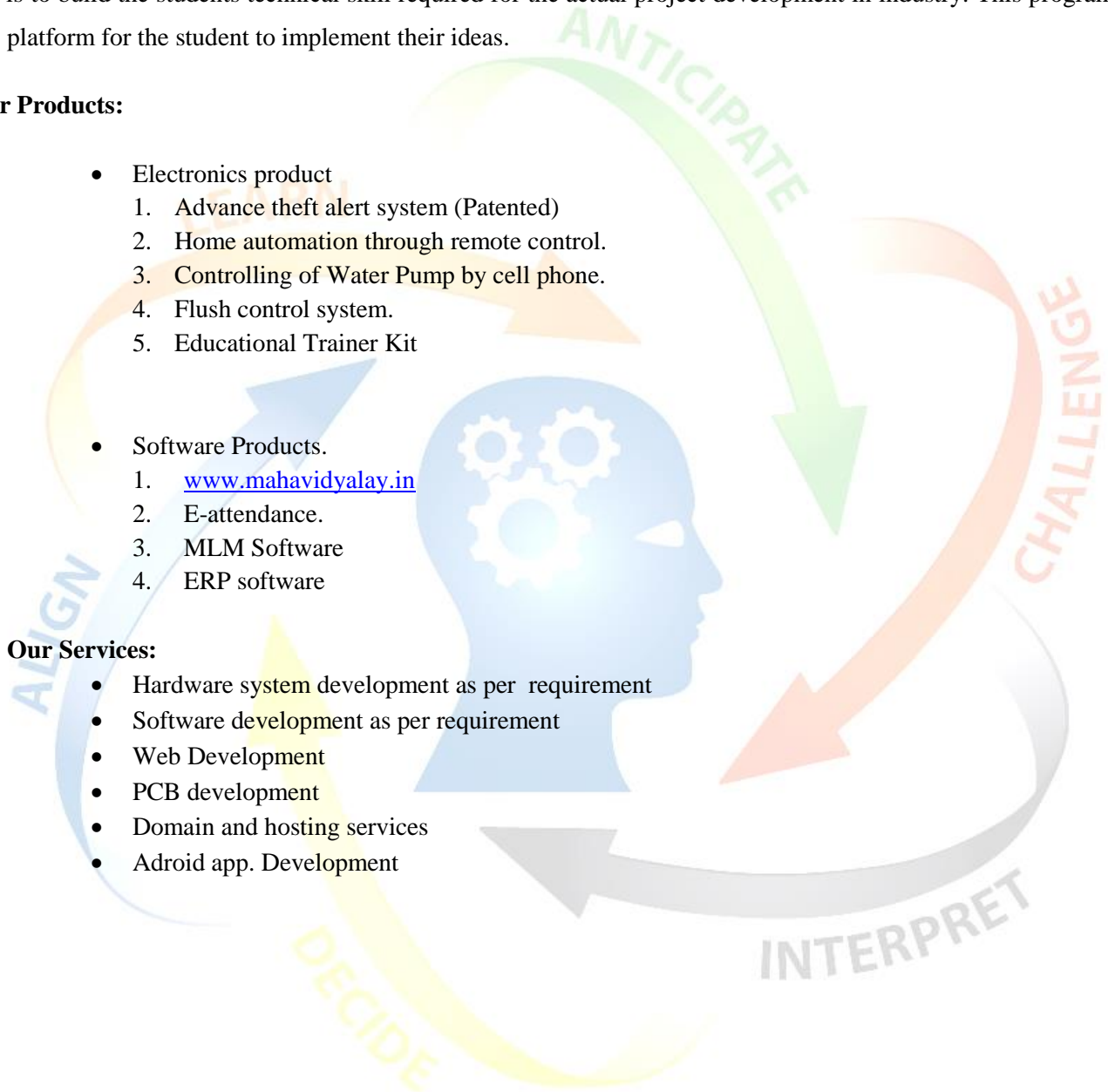
Arduino and Embedded C

Course Content

Sr. No.	Content
1.	Introduction to Arduino board
2.	Installation of Arduino Software
3.	Pin mapping of Arduino with ATMEGA 328/ 8
4.	Software Basics
5	Intefacing of LED with board. Writing a program to on and off the LED with interval of 1 second
6.	Interfacing of 7 segment displpay and its programming.
7.	Interfacing of Buzzer to genrate different audio tones.
8.	Interfacing of 16x2 LCD display and its Programming. Writing program for different display patterns on LCD.
9.	Intefacing of switch and LED to Board
10.	ADC Programming Writing a program to display analog voltage on LCD.
11.	Design of temperature indicatior and controlling System.
12	Water level indicator
13	Home appliance control using remot
14	Display Name of student using 5 LEDs only *
15	wireless controlling of robot via remot control*
16	Line follower robot*
17	Interfacing of Utrasonic sensor*
18	Interfacing of Tilt sensor*
19	Interfacing of Bluetooth Module*
20	Interfacing of Gas sensor*
21	Interfacing of Hall effect sensor*
22	Interfacing of RF IF Modile*
23	Interfacing of Xbee Module for wireless communication*
24	Interfacing of Querty Keyboard*
25	Controlling Triac firing angle to control power
26	Interdoction to Raspberry Pi*

Note : 1) Kit cost = Rs.2000/-

 *- The experiment in which * is mentioned, the kits will be provided only for experimental purpose.

2) For the group of three candidate Fees = Rs. 4500/- (Including Kit).

3) Group can be made maximum of four candidate.

5)Workshop will be of 4+1 days. (4 days training and project development , 1 day presentation of students)

6)Trainner Team : Main Trainer – 13 Year eperience (Teaching 8 years Industry 5 yeays)

: Two subordinate to solve the difficulties of students.

4) Expected Entries of 15 group

Kit Include:

Arduino Board

Bread board

16X2 LCD

USB Cord

Buzzer
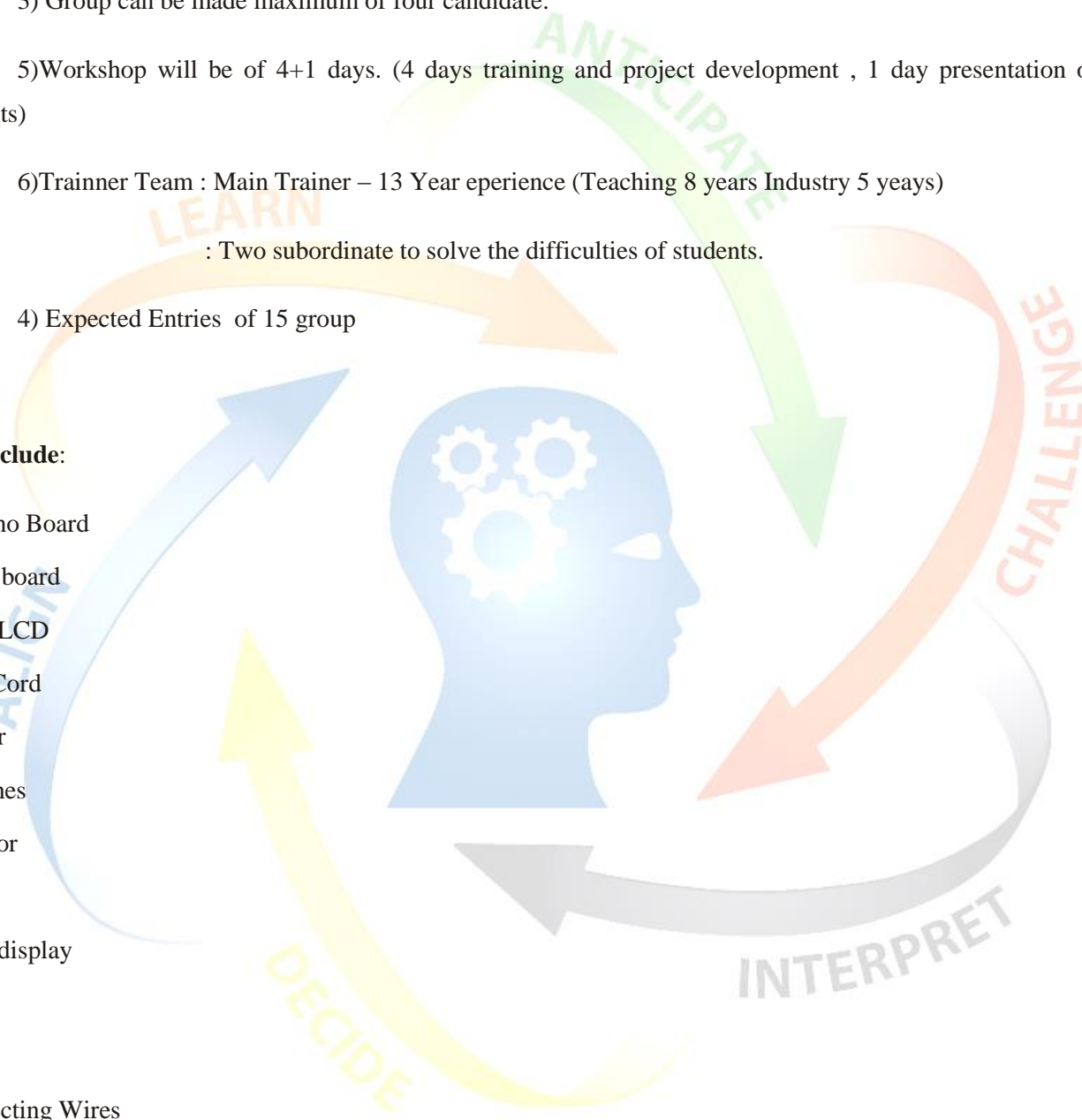
Switches

Resistor

LEDs

7 Seg display

Relay

Lm35

Connecting Wires

Arduino idm

Proteus

Key Features of Our Training Program:

- ➢ Well experience trainer
- ➢ Practical approach in each program.
- ➢ Certificate to each participant
- ➢ CD Material
- ➢ Interaction with each and Every participant
- ➢ Offer a global platform for innovative developers (Internship Program)

Kit Provided :

: 1. Hardware Development Kit

: 2. Certificate

Contact Us @

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of Oswal Bhavan,

Amravati,MS

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Our Venture
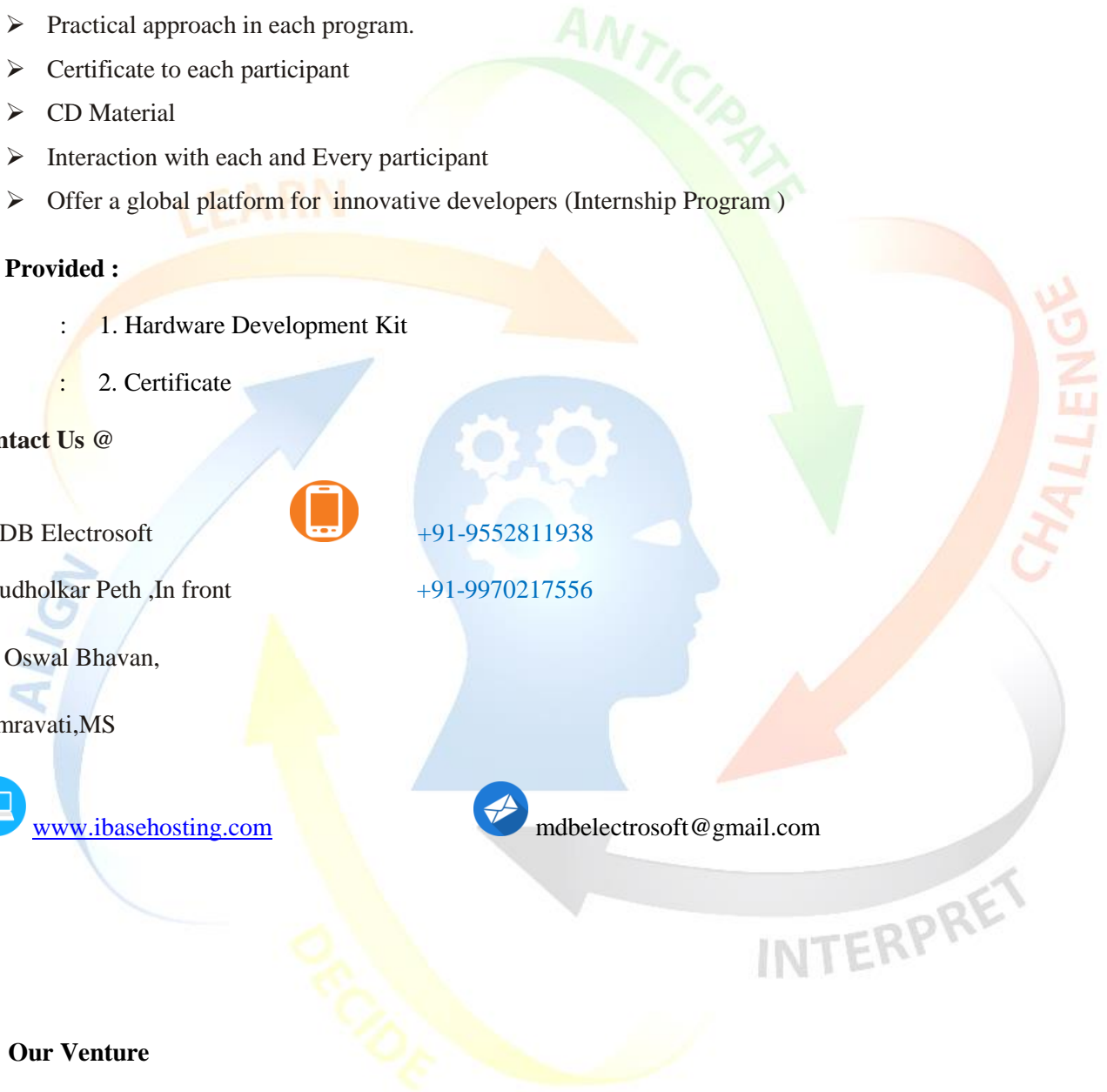
Our Products

e- Attendance   **WL- Operator**   **Farma Switch**
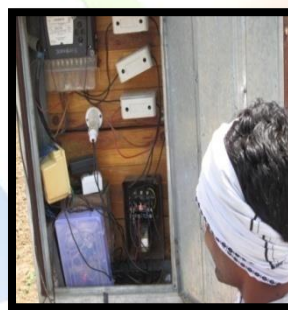
Our Patent

Authority Alert System

Workshop On Mini Project & PCB Design @ PRMIT & R Banera, Amravati

Workshop on Embedded system @ P.R. Pote

| ESD Program | Android Workshop | Skill Improvement Program |
| Hyderabad | Amravati | Secundarabad |