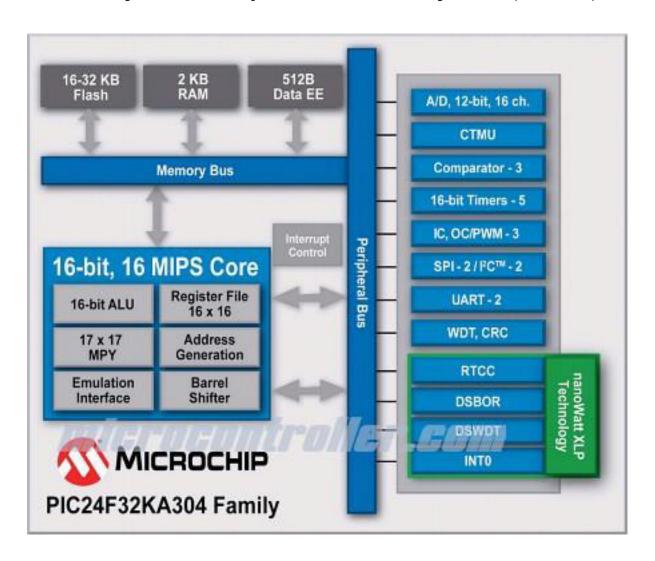




2 Days Workshop on Embedded System (PIC-uc)



Major Project Covered:

- Color finder Robot
- Edge Avoider Robot
- Wall follower Robot
- Obstacle Avoider Robot
- Sound operated Robot
- Clap on stop Robot
- Clap on start Robot
- Clap on turn Robot
- Mobile Control Robot
- Home Automation(demo)

Contact Us: 082960 19876
Our Website: http://pravega.org/





Major Topics Covered:

- 1. Introduction to Embedded C
- a) BASIC introduction of C
- b) If, if else, for and while
- c) Bitwise operators and logical operators
- d) Array and String
- 2. Introduction to Embedded System
- a) BASIC introduction PIC Microcontroller
- b) Interfacing of led with Microcontroller
- c) Interfacing of motor sensor with Microcontroller
- 3. Mobile Communication
- a) Introduction to DTMF decoder
- b) Robot control using Mobile

Session 1:

Embedded C

- What is programming language
- Why C?
- Printf, scanf
- If, if else
- For, while
- Logical operator
- Bitwise operator
- Array
- String

Embedded System/PIC Microcontroller/IDE

- Introduction of embedded system
- Introduction to microcontrollers and platform/software installation
- Simple Programs and hardware implementation
- Working with I/O's

Contact Us: 082960 19876 Our Website: http://pravega.org/





Session 2:

- Interfacing IR
- Interfacing Sound Sensor
- Interfacing motor
- L293D IC Building of a line Follower
- Building of edge avoider
- Building of wall Follower and obstacle avoider

Assembling of kit:

This is home work for the student: Ratification of Your Doubts (20 Mins)

Session3:

Mobile Communication:

- Introduction of DTMF Decoder
- Mobile Controlling Robot
- Testing and Trouble shooting
- Testing and troubleshooting at every step of circuit designing
- Various trouble shooting techniques

YOU HAVE TO WRITE CODE AND RUN YOUR ROBOT

Workshop Kit Content:

- 1. DC Motor
- 2. IR SENSOR
- 3. Sound sensor
- 4. DEVELOPMENT BOARD
- 5. Betray 9v.
- 6. Wire
- 7. Wheels.
- 8. Chassis
- 9. USB Wire
- 10. Connecting wires
- 11. Battery cape
- 12. Nut and Bolts
- 13.Screw Driver

Duration: 2 Days (7-8 Hours/Day)

Registration Fees: Rs. 1200/- per head. (Kit to be given in a group of 5 Members)

Contact Us: 082960 19876

Our Website: http://pravega.org/