



e NEX

Embedded Training- Powered By POTENT



ATmega32

Confidential: eNex



Session	Modules
Introductory Session	<ul style="list-style-type: none"> ➤ Embedded System Development Process ➤ Introduction to Microchip PIC Microcontrollers and features of the Atmega32 family of microcontrollers ➤ Text Editors/Compilers/Programmers/ Development tools/IDE ➤ Introduction to Embedded C
Practical Session I	<ul style="list-style-type: none"> ➤ Oscillators and Power supply ➤ Two pin and Four pin Crystal Oscillators ➤ Clock Divider Circuit
Practical Session II	<ul style="list-style-type: none"> ➤ Enabling LED Connected to Port of ATmega32. ➤ LED Flasher ➤ Interfacing of Seven segment Display with ATmega32 using Multiplexing technique. ➤ Interfacing a 16 Characters X 2 Rows Backlit LCD. ➤ Interfacing Graphic LCD.
Practical Session III	<ul style="list-style-type: none"> ➤ Key Switch Connection to ATmega32.
Practical Session IV	<ul style="list-style-type: none"> ➤ Audio Buzzer interface with ATmega32.
Practical Session V	<ul style="list-style-type: none"> ➤ Controlling an Electromagnetic Relay.
Practical Session VI	<ul style="list-style-type: none"> ➤ RS232 Serial Communication with PC and ATmega32 Microcontroller. ➤ USB Communication with PC Using ATmega32.
Practical Session VII	<ul style="list-style-type: none"> ➤ Inter-Integrated Circuit Bus (I2C Bus) Programming using EEPROM. ➤ Inter-Integrated Circuit Bus (I2C Bus) Programming using RTC.
Practical Session VIII	<ul style="list-style-type: none"> ➤ Analog to Digital Conversion using on-chip ADC with 12-bit resolution. ➤ Digital to Analog Conversion using on-chip ADC with 12-bit resolution.
Practical Session IX	<ul style="list-style-type: none"> ➤ Serial Peripheral Interface (SPI) using 12 Bit ADC MCP3202 to ATmega32.
Practical Session X	<ul style="list-style-type: none"> ➤ PWM Generation using ATmega32 Microcontroller.
Practical Session XI	<ul style="list-style-type: none"> ➤ Interfacing With RF Module.
Practical Session XII	<ul style="list-style-type: none"> ➤ Interfacing With GSM Module.
Course Material	<ul style="list-style-type: none"> ➤ Soft copy of the Data sheets, Circuit Diagrams, Source Code & IDE are provided in CD-ROM.

Course Duration : 4 Weeks/48-Hours

Eligibility : Degree/Diploma in EEE/ECE/IT/EI

Course Fee :

Batch Size :

