

## INSTITUTION PROFILE

The Velammal Educational Trust is a registered non-minority service organization established in the year 1986 by our honorable Chairman, Thiru. M.V.Muthuramalingam to inculcate among the youth a sense of discipline which is important to mould them into useful and capable citizens. The watch words of the Trust are "Dedication, Determination and Distinction".

Velammal Engineering College was established in the year 1995-96 to impart quality education. It is a self financing non-minority institution, affiliated to Anna University and approved by All India Council for Technical Education (AICTE). The college has been certified by **TUV NORD** for following the ISO norms. The institute is accredited by National Assessment and Accreditation Council (NAAC) with A5 grade.

## DEPARTMENT PROFILE

The department of Electronics & Instrumentation was established in the year 2002-2003 with the student strength of 65 intake. It is accredited to NBA for three years and faculty strength of 24 with 5 Professors. All the faculty members are Post Graduates. The laboratory is well equipped with latest devices and Process control Lab worth of 25 lakhs. Every year our students are bagging at least 5-12 university ranks. Our department stands first in the Branch wise Statistics - ZONES 1 to 5 in Anna University- Chennai results (May/June 2009 Examination). The Department has consistent Placement record from the inception. Students & faculty members have participated in various event conducted by different institute and organization.

## COURSE DETAILS

- Introduction to micro controller- **8051**
- **8051** Architecture & operation
- **8051** Timer, Counter, Ports, USART
- Introduction to Embedded C & ASM Coding, Compiling, Debugging Using **KEIL**
- Sensors and its applications (LDR, Photodiode, Hall sensor, IR sensor)
- Opamp IC, Comparator and motor driver IC L293D
- Special ICs for robotics - L293D Motor controller IC
- **Obstacle Avoiding Robot** demonstration
- DC motor RPM measurement using 8051
- Temperature sensor interfacing and Bargraph (LED) temperature indication
- 8051 serial port interfacing
- Introduction to micro controller - **PIC 16F877A**
- Hands on training on Interfacing circuits like LED, 7-Segment Display, LCD, Keypad, ADC, & DC motor (**8051 & PIC16F877A**)
- Reading a data from the A/D converter
- Case study on an application on PIC microcontroller.

## IMPORTANT NOTE

- **Course content: 70% Practical  
30% Theory**
- **For Hands on Experience:  
3 students form a batch**

## Four Days workshop On Microcontroller based system Design With Extensive Hands on Experience

17<sup>th</sup> - 20<sup>th</sup> May 2010

## REGISTRATION FORM

Name :  
Qualification:  
Designation:  
Proficiency in 'C': Yes/No  
Accommodation required: Yes/No  
(Accommodation will be in college hostel)  
Institution Address:

Communication Address:

Email:  
Phone No:  
Mobile No:

## PAYMENT DETAILS

DD No :  
Date :  
Bank :  
Amount :  
Place :

Signature of the Applicant

Signature of the Authorised person

### CHIEF PATRONS

Thiru.M.V.Muthuramalingam,Chairman

### PATRONS

Shri.M.V.M. Velmurgan, CEO, VEC

Mr.M.Jaganathan, Advisor(Admin), VEC

Dr.G.Gopalakrishnan,Academic Advisor,VEC

Dr.K.Thirunavukkarasu ,Principal,VEC

### CONVENER

Dr.N.Bharathi HOD/EIE

### COORDINATORS

Mr. K.V.Kandasamy M.E

Mr. B. Raj Narain M.E

### ORGANIZING COMMITTEE

Prof.V.R.Ravi

Prof.K.Rajeswari

Other faculty members of EIE Department

### For Further Details Contact

Mr.K.V.Kandasamy

Mr.B.Raj Narain

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Coordinators

Department of Electronics & Instrumentation  
Engineering

VELAMMAL ENGINEERING COLLEGE

Ambattur- Red hills Road

Surapet, Chennai-66

E-mail : [kvksamy@gmail.com](mailto:kvksamy@gmail.com)  
[rajnarainb@gmail.com](mailto:rajnarainb@gmail.com)

### ELIGIBILITY

Engineering UG students from EEE, ECE, EIE, ICE discipline and PG students with Electronics background.

### COURSE FEE

✓ Rs. 1500/- per head

(Only 40 seats available: Registration is on first come first served basis.)

Note: All 4 days attendance is compulsory. Certificate will not be issued if participant is not attending all 4 days.

### PAYMENT

Participants are requested to send a demand draft in favor of "The Principal, Velammal Engineering college" Payable at Chennai along with the filled up registration form.

### IMPORTANT DATES

Last date for the receipt of registration form:  
**13<sup>th</sup> May 2010.**

Intimation to participants (Through E-mail):  
**15<sup>th</sup> May 2010**

### RESOURCE PERSON

Mr.M.E.Rajamanikam  
(Shri Gemini Kits & Spaare, Chennai)

### Four Days workshop On

### Microcontroller based system Design With Extensive Hands on Experience

17<sup>th</sup> - 20<sup>th</sup> May 2010

CONVENER  
Dr.N.Bharathi

COORDINATORS  
Mr.K.V.Kandasamy  
Mr.B.Raj Narain



Organized by  
Department of Electronics &  
Instrumentation Engineering  
&

Industry Institute Partnership Cell  
VELAMMAL ENGINEERING COLLEGE

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