

ONE DAY WORKSHOP ON GRAPHICAL SYSTEM DESIGN

26th September, 2009

REGISTRATION FORM

Name :
(In Block Letters)

Designation :

Department :

Institution :

Mailing Address :

Phone No. :

Email ID :

DD Details :

Bank :

No. :

Date

Signature of the Participant :

Mr./Ms./Dr./..... is
an employee of our Institution and sponsored for the
above course.

Signature of the Principal :

Date : Official seal

National Instruments LabVIEW Academy @ TCE

The LabVIEW Academy set up at TCE by National Instruments is an initiative under their Planet NI (Nurturing Innovation) framework. The academy strives to increase the employability of Indian Engineering graduates by creating Centers of Excellence in engineering colleges and universities which will provide access to latest technologies for classroom teaching-learning. The LabVIEW Academy nurtures the concept of Experiential Education using Graphical system design approach. With a strong focus on the emphasis on fundamentals in education, TCE is in alignment with the plant NI philosophy of experiential education. The LabVIEW Academy, with its hardware and software tools, empowers the TCE to implement this belief and work on Algorithm engineering. The Academy will also enable both students and faculty to prepare for Certified LabVIEW Associate Developer (CLAD). The CLAD distinguishes basic proficiency in using NI LabVIEW to develop engineering applications.

The other proposed TCE - IUCEE supported courses*

Sl.No.	Name of the Course
1	Theory of Computing
2	Modern Approach to Introducing to Engineering
3	Data Structure
4	Statics
5	Micro Processor

*For details
Please contact TCE - IUCEE Programme Coordinator

ONE DAY WORKSHOP ON GRAPHICAL SYSTEM DESIGN

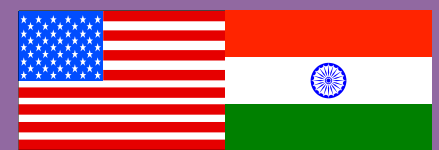
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Organized by
**THIAGARAJAR COLLEGE
OF
ENGINEERING (TCE)**
MADURAI - 15.



In Association with

**Indo - US Collaboration
for
Engineering Education
(IUCEE)**



IUCEE

The Information Technology revolution and the liberalization of economies around the world have led to globalization of the human resource pool for technology. In this scenario, engineering education needs to pay more attention to the development of innovation, entrepreneurship and the ability of its graduates to function in a constantly changing global environment. American Society for Engineering Education (ASEE), along with academic and business leaders from leading US and Indian universities have launched IUCEE, an initiative to build US - India collaborations in order to make engineering education and research more relevant to the needs of the global society and to the aptitudes and aspirations of new generations of youth.

TCE

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Objectives of the Workshop

- To solve problems using LabVIEW
- To use modular programming practices.
- To develop, debug and test LabVIEW VI's
- To Understand VI programming architectures.
- To use File I/O techniques.
- To use data acquisition and instrument control in LabVIEW applications.

Contents

LabVIEW Programming Environment :
Components of LabVIEW, Data flow, Trouble shooting and debugging VI, Implementing a VI :
Data Types, documenting code, while, for loops, Timing a VI, iterative data transfer, plotting data, structures, relating data arrays, clusters and type definition, Common Design Techniques and patterns :
Sequential programming, state machines, architectures, events, timing a design pattern and event programming, Data Management Techniques:
Communicating among multiple loops: Variables, functional global variable, race condition, synchronizing data transfer, File I/O techniques ;
Low, high and advanced Data Acquisition and interfacing instruments :
Hardware setup, software, Measuring analog input, generating analog output, instrument control.

Resource Persons :

Dr. S.J. Thiruvengadam

Dr. N.B. Balamurugan

Mr. P.G.S. Velmurugan

The resource persons are certified instructors of NI academy at Thiagarajar College of Engineering, Madurai.

Department

The Department of Electronics and Communication Engineering offers an UG programme in Electronics and Communication Engineering and PG programmes on Communication Systems and Wireless Technologies. This DST FIST supported department has completed 14 research projects with research organizations like DRDL, RCI, DEAL, BrahMos Aerospace and ISRO and consultancy works for companies like Motorola, Honeywell, Texas Instruments, TVSICS, Amphenol Antel, in Wireless Communication system. The department also has established National Instruments Electronics system Design lab using Educational Laboratory Virtual Instrumentation suite. The laboratory has network analyzer, vector signal analyzer, NI IF RIO boards, NI RF and Communications platform, speedy 33 DSP kits, ASIC prototyping boards and OMAP 1510 kit code compose studio.

Registration

Registration fee of Rs.500/- paid by the way of crossed demand draft drawn in favour of "The Principal, Thiagarajar College of Engineering", payable at Madurai.

Address for mailing the registration and for further information contact :

Dr. K. Chockalingam

TCE - IUCEE Programme Coordinator
Department of Mechanical Engineering
Thiagarajar College of Engineering
Madurai - 625 015.

Mobile No. 94433 33235

E-mail ID : kcmec@tce.edu

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2	Modern Approach to Introducing to Engineering
3	Data Structure
4	Statics
5	Micro Processor
6	Effective Teaching, Effective Faculty Development, Co-operative Learning.
7	Electric Energy and Power
8	Computer Networks
9	Computer Security and Modern Compilation
10	Algorithms
11	Signal Processing
12	VLSI Design
13	Product Life Cycle Management through CAD
14	Building Industry Academia Partnerships
15	Project Based Learning
16	Developing Leadership Skills
17	Software Engineering

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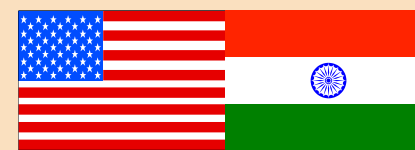
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TCE

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Objectives of the Workshop

- ❑ To introduce the concept of formal language, automata and computability theory with methods to solve the problems in these topics.
- ❑ To highlight the Applications of Automata would be of interest to Post graduate students and Young research Scholars.

Contents

- ❑ Grammers - Classification of Grammars, Normal Forms.
- ❑ Finite State Automata, Regular Grammars.
- ❑ Finite State Automata with output and Minimization.
- ❑ Pushdown Automata, Context Free Grammars.
- ❑ Turing Machines.
- ❑ Interactable and Satisfiability Problems.

Resource Persons :

Dr. V. Mohan

Prof & Head. Dept. of Mathematics.
e-mail : vmohan@tce.edu

Dr. (Mrs.) S. Jeya Bharathi

Associate Professor of Mathematics.
e-mail : sjbmatt@tce.mdu
Mobile : 98947 40502

Eligibility

The faculty from Department of Mathematics, Computer Science and Computer Applications.

Department

The Department of mathematics was established in the year 1957, it caters to all UG and PG Mathematics courses apart from offering a two-year post Graduate Applied Mathematics programme. In this programme more emphasis is given to impart applied mathematical knowledge with adequate computer skills to suit the needs of modern world. In addition, Doctoral programme is offered in several areas of Mathematics such as Theory of Computing, Computational Fluid Dynamics, Fuzzy Mathematics, Inventory, Simulation Modeling and Computer Applications. This Department has a well-equipped Computer Laboratory with the latest software in mathematics such as Mathematica, MathCAD, SYSTAT, Extend, Pheonix and StarCD. The Department of Mathematics strives to maintain high standards of teaching in various areas of Engineering Mathematics.

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Mobile No. 94433 33235

E-mail ID : kmech@tce.edu

**ONE DAY WORKSHOP ON
ACTIVE LEARNING STRATEGIES IN
EARLY ENGINEERING COURSES - STATICS**

16th October, 2009

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2	Modern Approach to Introducing to Engineering
3	Data Structure
4	Theory of Computing
5	Micro Processor
6	Effective Teaching, Effective Faculty Development, Co-operative Learning.
7	Electric Energy and Power
8	Computer Networks
9	Computer Security and Modern Compilation
10	Algorithms
11	Signal Processing
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16th October, 2009

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Objectives of the Workshop

Teaching has been one of the noblest professions at all times. This workshop aims at :

- Introducing several strategies for effective teaching and stimulating classroom discussions &
- Applications of these effective teaching strategies to selected topics in the subject Statics.

Contents

Application of Effective Teaching Strategies to topics in Statics such as :

- 2- and 3-D force vectors
- dot product
- moments of a force using vector formulation
- frames &
- Internal member forces in trusses

Teaching strategies that promote collaborative learning such as :

- Peer Instructions
- Informal and formal groups
- Minute paper / Muddiest point
- Socratic questioning &
- Management groups

Faculty and Organisation of the Programme

Sessions will be handled by attendees of IUCEE leadership program 2009 and experienced faculty members of TCE.

Resource Persons :

Dr. G. Chitra - Assistant Professor of Civil Engg.
Dr. S. Arul Mary - Associate Professor of Civil Engg.

Eligibility

The faculty members from Engineering College with relevant background.

Department

The DST-FIST supported Civil Engineering Department was established in the year 1957, having "Eco-friendly Structures" as its theme area. With more than 50 years of rich experience in the field of Civil Engineering, the department offers a UG and two PG (Structural Engineering and Environmental Engineering) programmes. The facilities of the department are modernized through AICTE and DST projects. The department is offering consultancy services in areas of Structural Engineering, Environmental Engineering, Geo-technical Engineering, Surveying and Water Resources Engineering using latest equipments. The department serves various State and Central governments, public sectors and private organizations through testing and consultancy. As a part of promotion of technical activities, the department periodically organizes various seminars, workshops and conferences.

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Mobile No. 94433 33235

E-mail ID : kcmec@tce.edu

ONE DAY WORKSHOP ON MICROPROCESSORS AND CONTROLLERS

18th October, 2009

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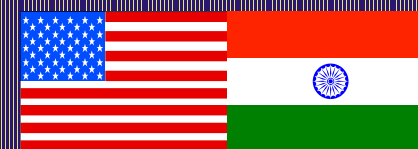
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Objectives of the Workshop

The microprocessor and controllers has become a mature technology for designing an embedded system and has replaced traditional electronic system.

This one day course aims to

- Enhance the level of understanding and the concepts of microprocessor and controllers.
- Create awareness on the implementation of the embedded system through microprocessor and controllers.

Contents

- Review of microprocessor architecture
- Microprocessors / microcontrollers and its applications
- Comparison of microcontrollers
- Case study on Embedded System

Resource Persons :

Mr. K. Harihsran - Faculty, Dept. of ECE

Mr. L.R. Karthikeyan - Faculty, Dept. of ECE

Eligibility

The faculty from engineering college / polytechnic / arts and science colleges and students who are pursuing project phase.

Department

The FIIST supported Electronics and Communication department has wireless technologies as its theme area. The department focuses in the front end and base bank of wireless communication. The Department has laboratories supported by Agilent, National Instruments and CISCO. The Department has privilege of having R&D projects from DRDL, DEAL, RCI, ISRO and AICTE. The Department has collaboration with Honeywell, Motorola, CISCO, TVS interconnect and national instruments. A Centre for Relevance and Excellence (CORE) in WIRELESS TECHNOLOGIES has been established through TIFAC (Technology Information Forecasting and Assessment Council) under Mission REACH programme of Department of Science and technology, Govt. of India, TIFAC CORE amalgamates the three key pillars for economic growth-the industry, the Government and the Educational Institutions.

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