

A TWO DAYS WORKSHOP ON

# MODERN METHODS OF STRUCTURAL ANALYSIS AND DESIGN

11<sup>th</sup> & 12<sup>th</sup> September, 2010



Organised By  
**PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Department of Civil Engineering



#### CHIEF PATRON

Dr. Jayeshbhai K. Patel  
Chairman  
Dr. Devanshu J. Patel  
Managing Trustee

#### PATRON

Dr. Vilin P. Parekh  
Principal

#### CONVENER

Prof C V Kulkarni,  
HOD, Civil Engg. Dept.

#### CO-ORDINATORS

Ms. Suhasini Kulkarni  
Ms. S A Nihalani

## Parul Institute of Engineering & Technology

(Accredited by NBA, AICTE & NAAC-UGC)

Department of Civil Engineering

(In association with Parul Institute of Engineering & Technology (Diploma Studies)  
& Parul Polytechnic Institute)

P.O. Limda, Tal. Waghodia, Dist. Vadodara. Ph.:02668-260339

Mob.:09426033881 Email: civilparul@yahoo.com Website: www.parul.ac.in



### About Parul Arogya Seva Mandal

Parul Arogya Seva Mandal (PASM), a fast growing Trust founded in the year 1989 by visionary, Dr. Jayeshbhai K. Patel to serve the society and nation by providing medical facilities, education and employment.

According to the Founder Dr. J. K. Patel, education is the definite path leading to the empowerment of the masses. This principle is the motivation for establishing a huge campus spread over 100 Acres, a verdant "Gurukul", offering a variety of courses like Engineering, Management, Medical, Paramedical Programs etc.

### About Parul Institute of Engineering & Technology

Parul Institute of Engineering & Technology is an ISO 9001:2000 certified institute, affiliated to Gujarat Technological University, Ahmedabad and approved by AICTE. The institute comes under the aegis of Parul Arogya Seva Mandal. The college possesses state-of-the-art infrastructure, with highly equipped laboratories, library and eminent faculties & staff members. The institute is the only engineering college of Gujarat having accreditation of NAAC, UGC & NBA, AICTE.

### About the Department

The Department of Civil Engineering offers Bachelors of Engineering Programme in Civil Engineering with electives in Structural Engineering & Transportation Engineering. The Department is bestowed with well equipped laboratories, highly qualified and dedicated faculties with rich experience, skilled and committed supporting staff. Conducting seminars, workshops and conferences on the latest developments in various Civil Engineering fields has been the regular feature of this department.

### Workshop Objective

The proposed workshop will provide a platform for academicians in the field of Civil Engineering to participate, deliberate and disseminate the latest innovations especially in the field of Structural Engineering. It aims at providing insight about Modern Methods of Structural Analysis and Design. It shall also offer hands-on practice on the popular analysis and design softwares.

### Advisory Committee

**Dr. S. C. Patodi**

Professor, Parul Institute of Engg. & Tech.

**Dr. V. P. Parekh**

Principal, Parul Institute of Engg. & Tech.

**Dr. R K Gajjar**

Professor, L.D. Engg. College

**Dr. H S Patil**

Professor, SVNIT

### How to Reach Parul Institute?

- Local transport is available from Railway station or Bus station to Limda, Waghodia.
- State Transport buses are also available from Kirti Sthambh-Vadodara to Limda, Waghodia



## Venue for Lectures

The inaugural & concluding sessions and lectures shall be conducted at Seminar Hall of the Parul Institute of Engineering & Technology, 3rd floor, Main Administrative Building. The workshop will be inaugurated at 9.00 am on 11<sup>th</sup> September 2010. The Course will end with a feedback session on 12<sup>th</sup> September 2010.

Day 1: 11 <sup>th</sup> September (Saturday)		
• Registration & High Tea		09.30 - 10.00
• Inaugural Function		10.00 - 11.00
• Chief Guest	Dr. V.S. Purani - Deputy Director, Directorate of Technical Education Gandhinagar.	
• Guest of honours	Dr. G.P.Vadodaria - Controller of Examination, Gujarat Technological University Shri U. Y. Nanavati - Officer on Special Duty, Gujarat Technological University Mr. Subhra Banerjee - HR Manager, Larsen & Toubro Limited, Knowledge City, Vadodara	
SESSION 1 STRUCTURAL ANALYSIS		
• Matrix Methods	Dr. S C Patodi, Professor PIET	11.00 - 12.00
• Finite Element Method	Dr. S C Patodi, Professor PIET	12.00 - 01.00
• Lunch Break		01.00 - 02.00
SESSION 2 STRUCTURAL ANALYSIS		
• Push Over Analysis	Prof. B A Shah, M.S.University	02.00 - 03.00
• Progressive Collapse Analysis of R. C. Structures	Dr. P.V.Patel, Professor- Nirma University	03.00 - 04.00
• Tea Break		04.00 - 04.15
SESSION 3 HANDS-ON PRACTICE		
• AutoCAD Software	Mr. Dipak Shah, Roshani Computers	04.15 - 05.15
Day 2: 12 <sup>th</sup> September (Sunday)		
• High Tea		09.30 - 10.00
SESSION 1 STRUCTURAL DESIGN		
• Modelling Aspects & Use of Software for Structural analysis & design	Dr. R.K.Gajjar, Professor, L.D. Engineering College, Ahmedabad	10.00 - 11.00
• International Earthquake Engineering practice	Prof. C S Sanghvi, LD Engineering College	11.00 - 12.00
• Lunch Break		12.00 - 01.00
SESSION 2 STRUCTURAL DESIGN		
• Limit State method of Design	Dr. N.K.Solanki, M.S.University	01.00 - 02.00
• Design of Composite Structures	Prof. D R Panchal, M.S.University	02.00 - 03.00
SESSION 3 HANDS-ON PRACTICE		
• Excel Software for Design	Dr. N.K.Solanki, M.S.University	03.00 - 03.30
• STAAD/PRO Software	Mr. Dipak Shah, Roshani Computers	03.30 - 04.15
• Tea Break		04.15 - 04.30
• Valedictory Function		04.30 - 05.00

## Registration form

Name	:	_____
Designation	:	_____
Qualification	:	_____
Address	:	_____
	:	_____
Mob/Ph	:	_____
DD Amount	:	_____
Bank	:	_____
Sign	:	_____
Date	:	_____
Place	:	_____

Signature with HOD & Seal

### Registration fees :

Students	:	Rs. 500
Faculty	:	Rs. 750
Employees from Pvt. & Govt. Organization	:	Rs. 1000

Please forward the duly filled Registration Form along with D.D to mailing address:

To,  
The Registration Committee,  
**MODERN METHODS OF STRUCTURAL  
ANALYSIS AND DESIGN**  
Civil Engineering Department,  
Parul Institute of Engineering & Technology,  
P.O. Limda, Tal. Waghodia,  
Dist. Vadodara - 391760.  
Tel: 02668-260339  
Mobile : 09426033881  
Email : civilparul@yahoo.com

**Last Date of receiving Registration Form:**  
24<sup>th</sup> August, 2010

- Xeroxing of Registration Form is permitted.
- No TA/DA will be paid.
- All the participants are requested to make their own arrangement for accommodation.

#### Important Note :

Registration fee will be accepted only through demand draft in favour of "STTPCIVIL" payable at Vadodara.