

## Organizing Committee

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**Dr. Nalla G. Palaniswami**

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### Convenor

**Dr.P.Muthupriya**

Professor & Head

Dept.of Civil Engineering

Dr. N.G.P. Institute of Technology

### Coordinator(s)

**Mr. G. Krishnaraaju,**

**Mr. E. Prabakaran**

Assistant Professor(s)

Dept.of Civil Engineering

Dr. N.G.P. Institute of Technology  
Coimbatore

## About the Faculty Development Programme

This FDP aims to provide a thorough knowledge about the concepts Strength of Materials – II and it will be extremely beneficial to the faculty members to update their knowledge in Strength of materials - II. This subject is a core subject in Anna University syllabus and one among the main subjects under other Universities. This FDP is planned for seven days covering the entire syllabus as per Regulations 2017.

### Objective

- To provide a platform for the faculty to enhance their knowledge.
- To deliver the contents effectively to students.
- To interact with the subject experts and clear their doubts.
- To know the method of finding slope and deflection of beams and trusses using energy theorems.
- To know the concept of analyzing indeterminate beam.
- To estimate the load carrying capacity of columns, stresses due to unsymmetrical bending and various theories for failure of material.

### Discussion Topics

- Energy Principles – Application in determinate beams, frames and trusses
- Concept of Analysis of Indeterminate beams – theorem of three moments
- Columns – Euler's Column theory, Eccentrically loaded column
- Cylinders – Thin, thick and compound cylinders and shells – stresses and change in dimensions
- State of stress in 3D – theories of failure, application problems
- Advance topics – Unsymmetrical bending of beams, shear centre, curved beam and hooks.

## One Week Faculty Development Programme

on

**CE8402: Strength of Materials II  
(R2017)**

**December 3 – 9, 2018**



Organized by

**Department of Civil Engineering**

**Dr. N. G. P. Institute of Technology**  
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Recognized by UGC & Accredited by NAAC and NBA [BME, CSE, EEE, ECE & Mechanical]  
Coimbatore - 641 048.

In association with



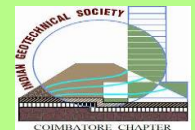
Indian Concrete Institute



Builders' Association of India  
Coimbatore Centre



Association of Consulting Civil Engineers (I),  
Coimbatore Centre



Indian Geotechnical Society,  
Coimbatore Chapter

## About Dr.N.G.P. IT

Welcome to an institution that recognizes the power of education to help Nurture, Grow and Progress. **Dr.Nalla.G.Palaniswami** - A name that is taken with great reverence by the medical fraternity and common public alike, for his pioneering efforts in providing quality healthcare. Since its inception in 1989, the Kovai Medical Center and Hospital (KMCH) has been redefining the corporate hospital set up, making healthcare accessible to all, catering to patients from all over the globe. Looking beyond its success and recognizing the need for competent technical education, Dr.N.G.P. initiated the establishment of Dr.N.G.P. Institute of Technology in 2007. The College has been affiliated to Anna University, Chennai, approved by the All India Council for Technical Education (AICTE), New Delhi, recognized by UGC under section 2(f) and Accredited by NAAC& NBA.

## About the Department

The Department of Civil Engineering has been in existence since 2011. The Department is grown into a fully-fledged one with well-equipped lab facilities and Infrastructure. The Department has well experienced Faculty members of various specializations. The activities in the Department are carried out to Consort the global innovations, inventions, alternate resource development upgraded in the civil world for the human mankind journey. The students are trained to upgrade themselves and the department is striving to mould them in to a better engineer in this society.

## Vision:

Enhance Technical knowledge to meet industrial expectation and lead the society towards sustainability.

## Mission

**MD1** -To organize practical oriented learning through novel teaching methods for the betterment of students

**MD2**- To stimulate the graduates to become technically skilled professionals, managers and employers in the field of Civil Engineering.

**MD3**- To emphasize the professional challenges and contribute to the growth of Science and Technology in partnership with industry.

**MD4**- To create center of excellence by providing resourceful Laboratory and Research facilities.

**MD5** -To develop the student community with social responsibility and moral values.

## Registration Fee

- **Registration fee includes FDP kit, Snacks, Lunch, Certificate and Strength of Materials, Volume 2 Text Book from Yes Dee Publishing (P) Ltd., worth Rs.495/- Authored by Binu Sukumar, V. Sherin, Joyson Silva.**
- Free accommodation at Student Hostel (Prior information is required).Breakfast and Dinner can be provided on payment basis.
- Registration fee of **Rs. 1,000/-**can be paidby Cash or Demand Draft drawn in favor of **“The Principal, Dr.N.G.P. Institute of Technology, Coimbatore”** payable at Coimbatore or **By Cash.**
- 100 % attendance is compulsory during the FDP.
- All the FDP materials will be provided as softcopy (CD format) at the end of the FDP.

For more details log on to [www.drngpit.ac.in](http://www.drngpit.ac.in)  
Registration form along with DD to be sent to:



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## Resource Persons

### **Dr. K. Subramanian**

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KPR Institute of Engineering & Technology  
Coimbatore

### **Dr. R. Malathy**

Professor and Dean (Research)  
Department of Civil Engineering  
Sona College of Technology, Salem

### **Dr. V.G.Srisanthi**

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Coimbatore Institute of Technology, Coimbatore

### **Dr.P.Eswaramoorthi**

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Kumaraguru College of Technology, Coimbatore

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### **Er.R.Vignesh**

Design Manager  
Archetype Design Services Private Limited, Coimbatore

### **Prof. M.Dhanabalakrishnan**

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