

## ABOUT THE INSTITUTE

Nestled on the northern bank of the river Bhavani, BIT's campus provides the right environment for natural learning in harmony with nature, away from the odds of city life. BIT was established by Dr. S. V. Balasubramaniam, Chairman, Bannari Amman Group in 1996 and is being guided by Dr. S. K. Sundararaman, Director, BIT. It is an autonomous institution affiliated to Anna University, Coimbatore and Accredited by NAAC with 'A' Grade and all eligible programmes have been accredited by NBA, New Delhi. BIT has excellent infrastructural facilities with landscaped courtyards and pathways and designed to emphasize the character of an excellent centre for learning. As on date BIT offers 11 U.G. and 9 P.G. programmes besides M.C.A., M.Sc. (SE) and MBA.

## ABOUT THE DEPARTMENT

The Department of Civil Engineering was started in the year 2001 and presently it offers under graduate program in Civil Engineering and post graduate program in Structural Engineering. The Department has qualified faculty members with excellent academic records. The Department is equipped with excellent laboratory facilities since its inception. A separate CADD lab is available with excellent computing facilities. The research areas include Steel, R.C.C. and PSC Structural Components, Structural Optimization, Self Compacting Concrete, Self Curing Concrete, Shells, Folded Plates and Storage Structures. The department undertakes a wide range of consultancy services on Analysis and Design of Multistoreyed Buildings, Testing of Building Materials, Quality Analysis of Water Samples and Bearing Capacity of Soils.

## WORKSHOP OVERVIEW

This workshop covers the fundamentals of finite element analysis required for Civil Engineers for modeling and analyzing complex structures and interpreting the results of analysis. Also, this workshop will give hands on experience pertaining to structural optimization using heuristic and meta-heuristic approaches. The knowledge and skills developed through this two-days workshop will help the participants to develop useful knowledge on finite element methods for engineering design and on structural optimization.

## TECHNICAL PRESENTATIONS

- General Aspects of Finite Element Method
- Application of Finite Element in Structural Mechanics
- Application of Finite Element Method for Deep Composite Beams
- An Overview of Structural Optimization
- Application of Genetic Algorithm to Structural Optimization
- Application of Ant Colony Algorithm for Structural Optimization

## RESOURCE PERSONS

- Dr. S. Rajasekaran, Professor of Civil Engineering, PSGCT, Coimbatore
- Dr. S. Justin, L&T, Chennai
- Dr. N. Arunachalam, Dean of Civil Engg., BIT
- Dr. J. Raja Murugadoss, Asst. Prof. of Civil Engineering, BIT
- Prof. M. Dhanabalakrishnan, Asso. Prof. of Civil Engg., BIT

**Bannari Amman Institute of Technology  
Sathyamangalam 638 401**

**Department of Civil Engineering**

## REGISTRATION FORM

**National Workshop on**

**Finite Element Method and Structural  
Optimization**

**5<sup>th</sup> – 6<sup>th</sup> March 2010**

Name :

Designation :

Organization :

Postal Address :

Telephone :

Mobile :

Fax :

E-mail :

## Registration Fee

Amount :

D.D. No. & Date :

Bank :

Signature of the Delegate

Signature of Sponsoring Authority  
with seal

## BOARDING AND LODGING

Accommodation can be on payment basis in lodges of Sathyamangalam on request. Hostel accommodation may be provided at nominal charges on first come first served basis.

## REGISTRATION FEE

### External Participants

- From Industries : Rs. 1000
- From Institutions : Rs. 750
- Students : Rs. 400

### Internal Participants

- Staff : Rs. 400
- Students : Rs. 300

The amount may be paid in the form of Demand Draft in favor of “The Principal”, Bannari Amman Institute of Technology, Sathyamangalam 638 401 payable at Sathyamangalam.

## HOW TO REACH B.I.T.?

Sathyamangalam is well connected by road from all major cities like Erode, Coimbatore and Mysore. The nearest railway stations are Erode (65 km) and Coimbatore (70 km). From Sathyamangalam bus stand, BIT is at 4 km distance on the way to Athony.

## LAST DATE FOR REGISTRATION

Completed application form along with the registration fee shall be sent to the organising secretary on or before 7<sup>th</sup> February 2010.

## ORGANISING COMMITTEE

### Chief Patrons

Dr. S. V. Balasubramaniam  
Chairman, BIT

Dr. S. K. Sundararaman  
Director, BIT

### Chairman

Dr. A. M. Natarajan  
Chief Executive, BIT

### Co- Chairman

Dr. A. Shanmugam  
Principal, BIT

### Convener

Dr. N. Arunachalam  
Dean of Civil Engineering

### Organising Secretary

Dr. J. Raja Murugadoss  
Asst. Prof. of Civil Engineering

### Other Members

- Dr. S. M. Suneeth Kumar
- Prof. M. Dhanabalakrishnan
- Dr. V. Subramania Bharathi
- Dr. S. S. Chandrasekaran
- Mr. T. Balasubramaniam
- Mrs. G. Anusha
- Mrs. K. S. Vijayalakshmi
- Mr. V. Senthil Kumar
- Mr. S. Ramakrishnan
- Mr. M. Saravanan
- Ms. K. Revathi
- Mr. M. Arun
- Mr. S. Elayaraja

### ADDRESS FOR CORRESPONDENCE

**DR. J. RAJA MURUGADOSS**  
ORGANISING SECRETARY

Asst. Professor of Civil Engineering  
Bannari Amman Institute of Technology  
Sathyamangalam 638 401 Erode District, TN  
Email: rajamurugadoss@gamil.com  
Voice: 91-4295 – 226113, Fax: 91-4295-223775

## National Workshop On Finite Element Method & Structural Optimization

5<sup>th</sup> – 6<sup>th</sup> March 2010



Organised by



**Department of Civil Engineering**  
**Bannari Amman Institute of Technology**  
(An Autonomous Institution Affiliated to Anna University  
Coimbatore, Approved by AICTE, Accredited by NBA New  
Delhi and NAAC with 'A' Grade)

**Sathyamangalam 638 401 Erode District**  
**Tamil Nadu India**