

**Whom will the course benefit:**

- Engineers
- Teachers working on/ teaching Mechanics/ Structural / Geotechnical Engineering

**Course Outline and Objectives:**

To introduce basic formulation of the finite element method with few computer applications.

**Course Contents:**

- Interpolation, Weighted residual, Galerkin projection
- Derivation of element stiffness matrices and nodal loads
- Assembling global stiffness matrix and loading vector
- Solution of Linear system
- Isoparametric elements, computer implementation (preferably Matlab)
- Application to structural and geotechnical engineering

**Course Organization:**

The course will consist of lectures by IISc faculty.

**Eligibility:**

The course is meant for faculty of AICTE – recognized engineering colleges. Selected teachers will be paid TA at actual subject to the limit of Three tier AC train/bus fare by the shortest route from the place of work to Bengaluru and back. **However, the maximum TA payable is Rs.3000/-.** They will be provided with a daily allowance of Rs.500/- per day (for 5 days only) towards boarding and lodging as per QIP rules, and will be supplied with the course materials. **The lodging charges will be Rs.300/- per day. Local participants will be paid DA @ Rs.150/- per day for 5 days.**

In addition, a few seats are available on payment basis for non-sponsored (self-support) teachers, scientists from R&D organisations, practicing engineers from industry and others interested in this course. **A course fee of Rs.10,000/- will be charged to these participants.** This will entitle them to participate in the course and receive the course material. Single room **accommodation** is available on the Institute campus at the **Hoysala Guest House.** The participants have to request in advance along with the registration form for such accommodation. The lodging charges will be **Rs.1000/- per day**, for self-sponsored college teachers and **Rs.1500/- per day** for other participants, subject to availability of accommodation.

**CENTRE FOR CONTINUING EDUCATION  
Indian Institute of Science  
Bengaluru – 560 012**

**QIP Short Term Course  
On  
“Introduction to Linear Finite  
Element Analysis”**

**9 -13 January, 2017**

**Registration Form**

**(Please mail to reach before 9<sup>th</sup> December, 2016 )**

1. Name.....

2. Age:..... Sex: Male/Female

3. Office  
address .....

.....

.....

.....

4. Landline No. with STD code:.....

5. Mobile No. ....

6. Email ID:.....

7. Academic Qualifications

Degree	subject	year	University
Diploma/B.Sc./B.A.....			
B.E/B.Tech/M.Sc. ....			
M.E/M.Tech./M.Phil.....			
Ph.D. Completed/Pursuing/Intend pursuing:.....			
Thesis title/Proposed Research Area:.....			
.....			
.....			

8. Teaching Experience.....(Years)  
 9. Industry Experience .....(Years)  
 10. Courses taught/professional responsibilities.....  
 .....  
 .....  
 .....  
 .....  
 .....  
 11. Accommodation required Yes / No  
 12. Self-support candidate : Rs. 10,000/-  
 Demand Draft No.....dated.....

**Please mail the filled-in application form to:**

The Officer-in-Charge,  
 Centre for Continuing Education  
 Indian Institute of Science  
 Bengaluru - 560 012  
 Telephone: 080-23600911, 22932055/2491  
 Email: so@cce.iisc.ernet.in/  
 office@cce.iisc.ernet.in

**To reach on or before: 9<sup>th</sup> December, 2016**

Intending participants may use the attached application form or a xerox copy of the same. Applicants from AICTE recognized colleges are required to submit their applications sponsored by their colleges.

Non-sponsored (self-support) teacher applicants /others should send their application along with a **DD for Rs.10,000/-** drawn in favour of **“Registrar, Indian Institute of Science, Bengaluru - 560012”** payable at Bengaluru.

**Deadlines:**

Receiving completed application: **9<sup>th</sup> December, 2016**

Intimation of selection:**14<sup>th</sup> December, 2016**

**QIP Short Term Course  
 On  
 “Introduction to Linear Finite  
 Element Analysis”**

**9 -13 January, 2017**

**Coordinators**

**Dr. Debraj Ghosh & Dr. Tejas Murthy  
 Dept. of Civil Engineering**

**Sponsored by  
 AICTE, NEW DELHI**



**Centre for Continuing Education  
 Indian Institute of Science  
 Bengaluru - 560 012  
 Website: cce.iisc.ernet.in**

I agree to abide by the rules of the QIP courses. If selected, I shall participate in the course for the entire duration.

Date: \_\_\_\_\_  
 Place: \_\_\_\_\_  
 Signature \_\_\_\_\_

The applicant Mr/Ms.....  
 .....  
 from our institution will be permitted to attend the QIP Short Term Course on **“Introduction to Linear Finite Element Analysis”** to be held during **9 -13 January, 2017** at the Indian Institute of Science, Bengaluru, if selected. He/she will be granted necessary leave of absence.

Place: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Signature of Head of the Department \_\_\_\_\_

Signature and Seal of the Principal of the Institution \_\_\_\_\_

**(Xerox copy of this form may also be used)**