

**Whom will the course benefit:**

1. Teachers handling numerical methods as part of mathematics or engineering subjects
2. Engineers and practitioners who employ numerical methods in their work.

**Course Outline and Objectives:**

Understanding and analyzing numerical methods, which will help in solving practical problems of interest

**Course Contents:**

- Basic linear algebra, Interpolation.
- Numerical differentiation
- Numerical Integration
- Numerical Solution of ODE's
- Numerical Solution of PDE's

**Course Organization:**

The course will consist of lectures and practical/Lab sessions.

**Faculty:**

IISc faculty will deliver the lectures.

**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.**

**A few seats** are available for non-sponsored (self-support) teachers, scientists from R&D organizations, 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 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  
Numerical Methods for Engineers & Scientists**

**19 – 23 December, 2016**

**Registration Form**

**(Please mail to reach before 18<sup>th</sup> November, 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 Section Officer  
 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 18<sup>th</sup> November, 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: **18<sup>th</sup> November, 2016**

Intimation of selection: **21<sup>st</sup> November, 2016**

**QIP Short Term Course  
 On  
 Numerical Methods for Engineers  
 & Scientists**

**19<sup>th</sup> to 23<sup>rd</sup> December, 2016**

**Coordinator**

**Dr. Sivaram Ambikasaran  
 Dept. of Computational & Data Sciences**

**Sponsored by  
 AICTE, NEW DELHI**



**Centre for Continuing Education  
 Indian Institute of Science  
 Bengaluru – 560 012**

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 **“Numerical Methods for Engineers & Scientists** to be held during **19<sup>th</sup> to 23<sup>rd</sup> Dec., 2016** at the Indian Institute of Science, Bengaluru, if selected. He/she will be granted necessary leave of absence.

Place: Signature of Head of the Department  
 Date:

Signature and Seal of the Principal of the Institution

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