Whom will the course benefit?
The course would be useful to faculty members in the areas of chemistry, bio-medical engineering and bio-technology.

Course outline and objectives:
To teach interpretive NMR Spectroscopy

Course contents:
- Basic theory of NMR spectroscopy
- Chemical shifts
- Coupling constants
- Relaxation,
- Proton, Carbon, Fluorine NMR
- Spectral identification of compounds
- Spectral editing
- Multi-dimensional NMR spectroscopy

Course organization:
The course will consist of lectures by IISc faculty and also visit to the NMR facility.

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.800/- 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 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-support college teachers and Rs.1500/- per day for industry participants, subject to availability of accommodation.

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<th>1. Name…………………………………………………</th>
<th>2. Age:………………..            Sex: Male/Female</th>
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<td>3. Office address .....................................</td>
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<td>8. Teaching Experience……………………(Years)</td>
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**CENTRE FOR CONTINUING EDUCATION**
Indian Institute of Science
Bengaluru – 560 012

**QIP Short Term Course**
**On**
**Applications of NMR Spectroscopy in Structural and Conformational Analysis**
21 – 25 November, 2016

**Registration Form**
(Please mail to reach before 28th October, 2016)
9. Industry Experience ……………………(Years)

10. Courses taught/professional responsibilities………..
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11. Accommodation required Yes / No

12. Self-support candidate : Rs. 10,000/-
Demand Draft No…………………………

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

Place: 
Date: 
Signature 

The applicant Mr/Ms………………………………………………
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from our institution will be permitted to attend the QIP Short Term Course on “Applications of NMR spectroscopy in Structural and Conformational Analysis” to be held during 21st – 25th November, 2016 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 from may also be used)

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 28th October, 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, Bangalore-560012” payable at Bengaluru.

Deadlines:

Receiving completed application: 28th October, 2016
Intimation of selection: 2nd November, 2016

QIP Short Term Course
On

Applications of NMR Spectroscopy in Structural and Conformational Analysis


Coordinator
Prof. Siddhartha P Sarma
Molecular Biophysics Unit

Sponsored by
AICTE, NEW DELHI

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