University and PG College MSc Teachers' Training Program in Mathematics

7th June to 27th June 2018 (21 days)



Center of Excellence in Science and Mathematics Education

Indian Institute of Science

at its Challakere Campus, Chitradurga under Pandit Madan Mohan Malaviya National Mission on Teachers and Training (PMMMNMTT, MHRD, Govt. of India)



The IISc at Challakere Campus offers a great opportunity for the university and PG college faculties teaching MSc mathematics. This is a three weeks (21 days) residential training program equivalent to UGC refresher courses approved by the MHRD, Govt. of India

Course Specialization: Analysis

The main purpose of this training programme is learning mathematical analysis through problem solving. Adequate theory will be developed, but the focus will be on solving problems related to analysis.

Contact hours of the program will be more than 180 hrs.

- ➢ 80 hrs of lectures.
- > 100 hrs of problem solving.

Lectures will be delivered by IISc and TIFR Faculty members. Probable faculty members:

- Prof. A K Nandakumaran, IISc.,
- Prof . Manjunath Krishnapur, IISc.,
- Prof. Harish Sheshadri, IISc.,
- Prof. P S Datti, (TIFRCAM)
- Prof. C R Pranesachar, (HBCSE, TIFR),
- Prof. B J Venkatachala, (HBCSE, TIFR),
- Prof. G V Anand, IISc.

Training program consists essentially three broad topics:

1. Real analysis

Real numbers, basic topology, sequences and series, continuity and differentiability, Riemann and Lebesgue integrals, functions of several variables.

2. Complex Analysis

Complex numbers and topology of complex plane, Complex functions, analytic functions,

Power series, complex integrals, Cauchy's theorem, residue calculus, conformal mappings, Laurent series and meromorphic functions.

3. Functional analysis

Linear algebra and finite dimensional spectral theorem, normed linear spaces and its topology, Banach spaces, Hilbert spaces, operators on Hilbert spaces, spectral theorem.

Applications are invited from any Indian who teaches M.Sc. Mathematics. Those who have attended two UGC refresher courses earlier can apply. **Contract** and guest lecturers can also apply.

No holiday/break in 21 days. Only one Sunday afternoon will be left free.

Send your application in the prescribed format available in the TDC website tdc.iisc.ac.in

Last date to receive application: May 20, 2018

Send your application to

Professor C. R. Praneshachar Coordinator, Mathematics TDC, IISc Kudapura – 577536 Phone No: 9740134731. E-mail: pran@alumni.iisc.ac.in and gajananaj@iisc.ac.in