



# National Centre for Mathematics

[www.ncmath.org](http://www.ncmath.org)

(A joint centre of TIFR and IIT Bombay)

## Advanced Training in Mathematics Schools

[www.atmschools.org](http://www.atmschools.org)

(Supported by National Board for Higher Mathematics)



### Instructional School for Teachers

#### A Course in Topology

Venue : CEMS, SSJ Campus, Kumaun University, Almora.

30<sup>th</sup> September to 12<sup>th</sup> October 2013

Organisers : Anant R Shastri, H S Dhami, Sanjay K Pant

#### Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of a large number of mathematicians across the country, with support from the National Board for Higher Mathematics. The programmes are conducted in reputed mathematics departments in Summer and Winter every year. The emphasis in these Schools is on solving problems, and on the relations between basic areas of mathematics. The schools are intended mainly for Ph.D. students and lecturers. Applications are now invited for participation in the following school.

#### Advanced Instructional School for Teachers

This course in Topology will be evolved as a study of convergence and continuity from analysis, through metric spaces. The emphasis will be on examples and exercises. Apart from covering standard materials such as countability axioms, separation axioms, covering axioms (and several notions of compactness), partition of unity, embeddability and metrization etc. The course will cover connectivity and path connectivity, quotient spaces, induced and coinduced topologies compactly generated topology and function spaces. It is desirable if the participants had already studied most of these concepts in some form or other. The CEMS, Kumaun University, Almora, where the programme is to be hosted, was created for the purpose of fostering activities in advance mathematics in the region around Uttarakhand.

#### Eligibility for participation

The school is meant for 30 teachers of mathematics at the college level, though exception will be made for a small number of research scholars.

#### Financial Support

Selected participants will be paid AC 3-Tier return fare from their place of work to the venue by the shortest route and will be provided with accommodation and local hospitality.

#### How to apply

Application form and other information about the programme are available on the following website :

<http://www.atmschools.org/2013>

Completed application forms should reach :

**Professor H S Dhami**

Coordinator, CEMS

Department of Mathematics

SSJ Campus, Kumaun University, Almora

Almora, Uttarakhand -263601

Email: [drhsdhami@gmail.com](mailto:drhsdhami@gmail.com)

Last date for receiving completed application is:

**18<sup>th</sup> May, 2013**

List of selected candidates will be posted on the

above mentioned website on :

**27<sup>th</sup> May, 2013**

#### Resource Persons

Sanjay K Pant, DU & CEMS

B V Rao , CMI , Chennai

H Sarbadhikari, ISI, Kolkata

Anant R Shastri, IIT Bombay

S M Srivastava, ISI, Kolkata

#### Special Lectures

**M S Raghunathan, NCM and IITB**

**Ravi S Kulkarni, BIM and Pune University**