



Advanced Training in Mathematics Schools

<http://www.math.iitb.ac.in/atm>

(Supported by National Board for Higher Mathematics, DAE, Govt. of India)

Advanced Training in Mathematics Schools are a joint effort of more than fifty active researchers across the country. The programmes are conducted in reputed mathematics departments during Summer and Winter each year. In all these Schools, the emphasis will be on problems solving and on highlighting inter-relations of basic subjects in mathematics. The schools are offered mainly for Ph.D. students and lecturers at four levels.

Annual Foundation Schools are primarily for research scholars during the first two years of their Ph.D. programme.

The objective of the Annual Foundation Schools, to be offered in Winter and Summer every year, is twofold: to bring students with diverse backgrounds to a desired common level and to identify those fit for further training.

Basic knowledge in algebra, analysis and topology forms the core of all Advanced Instructional Schools organized in this programme. Any student who wishes to attend the Advanced Instructional Schools is strongly encouraged to enroll in the Annual Foundation Schools first.

Advanced Instructional Schools build on the Annual Foundation Schools. After students gain basic knowledge in algebra, analysis and topology in the Annual Foundation Schools, they are ready for studying several subjects in mathematics at research level. In any AIS, lectures are delivered by experts in two closely related areas.

ATM Workshops are followup programmes of the Advanced Instructional Schools. A typical AIS is run like an advanced Ph.D. course. It is expected that enough material is covered in an AIS so that participants may be able to follow current research papers after the school. It is therefore natural to call the graduates of advanced instructional schools for workshops of one or two weeks duration.

ATM Schools for Lecturers are exclusively meant for young lecturers in colleges and universities. The objective of these is to impart training in basic subjects in mathematics at Master's level.

Further details such as downloadable application forms, eligibility, financial support, addresses of organizers, deadlines etc can be found on the web-site of the ATM Schools.

Schedule for 2008

Dates	School	Venue	Organizers
Annual Foundation Schools (AFS)			
5 - 31 May	Fourth AFS-Part II	Univ. of Hyderabad	Rajat Tandon
3 - 27 Dec	Fifth AFS-Part I	Panjab University	S. K. Khanduja & G. K. Bakshi
Advanced Instructional Schools (AIS)			
5 June - 2 July	AIS in Complex Analysis	BIM & Pune Univ.	D. Thakur & S. A. Katre
1 - 27 Dec	AIS in Combinatorics & Graph Theory	BIM, Pune	S. S. Sane, M. K. Srinivasan & S. A. Katre
15 Dec - 7 Jan	AIS in Partial Differential Equations	TIFR, Bangalore	D.G.V. Gowda & P. K. Srinivasan
ATM Workshops (ATMW)			
21 July - 2 Aug	Workshop on Elliptic Curves & Their Applications	IMSc, Chennai	R. Balasubramanian & D. S. Ramana
22 - 30 Sept	Workshop in Arithmetic Geometry	IIT Guwahati	R. Sujatha, A. Saikia & C. S. Dalawat
17 - 29 Nov	Workshop on compact Lie groups	HRI, Allahabad	Punita Batra
ATM Schools for Lecturers (ATML)			
2 - 21 June	ATML in Functional Analysis-I	ISI, Bangalore	T.S.S.R.K. Rao
3 - 15 Nov	ATML in Functional Analysis-II	BIM, Pune	V. M. Sholapurkar & A. Mangasuli

- **NBHM Advisory Committee:** Rajendra Bhatia (Convener) ISI, Delhi, S. Kumaresan, Univ. of Hyderabad, Shobha Madan, IIT Kanpur, R. L. Karandikar, Cranes Software, Bangalore, M. Vanninathan TIFR, Bangalore, I.B.S. Passi, PU, Chandigarh.
- **National Coordinating Committee:** R.S. Kulkarni (Director), J. K. Verma (Secretary), IIT, Bombay, S.D. Adhikari, Satya Deo, HRI, Allahabad, S. A. Katre, Univ. Pune, Shobha Madan, IIT Kanpur, R. A. Rao, TIFR, Mumbai.