A Brief Description of IST

The Instructional School for Teachers (IST) is a programme of the National Centre for Mathematics (NCM), which sponsors international schools and workshops at several levels in various places across the country. It was realised that there is a need to have separate instructional schools for mathematics teachers in colleges and universities since their background and needs are somewhat different from those of research scholars. It is difficult for teachers to get leave for more than two weeks at a time. Hence these will be organised when teachers have vacation. These will cover advanced topics taught at M.Sc level in the first week and more advanced material will be covered in the second week.

Each IST is devoted to one subject. These schools are for teachers of age at most 35 years. Preference will be given to teachers who are pursuing a doctoral degree. Only NET/SET qualified teachers will be admitted into these schools.

About the Department

The Department of Mathematics was established in 1978 as the Department of Applied Mathematics in the erstwhile post Graduate Centre of University of Madras. Later in 1982 when the Bharathiar University was formed by the Government of Tamilnadu the Department became a part of Bharathiar University. In 2002, the Department was recognized by the UGC under its Special Assistance Programme (SAP). Recently it has been upgraded to the third stage of SAP - Centre for Differential Equations and Fluid Dynamics. The Department offers M. Sc., M. Phil and Ph.D. programmes in Mathematics with more emphasis on Applied Mathematics. Currently the Department has four faculty members in different cadres. The Department is getting a separate library grant of Rs. 6 lakhs every year from the NBHM and has a good collection of foreign books in its own library. The Department has published more than 800 research papers in international and national journals. Due to this contribution our full time Ph.D. research scholars have obtained Post Doctoral Fellowships in foreign countries.

Aim of the School

The objective of the proposed school is to highlight the essential basic theory for finding analytical solutions of important differential equations, some numerical methods to solve them and their applications in various other fields such as mechanics. Differential Equations form an integral part of curriculum in any postgraduate course in Mathematics. The topics to be covered in the school are arranged in such a way that the university and college teachers get exposed to a good mix of classical theory and modern approaches.