

Science Academies' Refresher Course in Theoretical and Computational Fluid Dynamics

Sponsored by



Indian Academy of Sciences, Bangalore
Indian National Science Academy, Delhi
The National Academy of Sciences India, Allahabad

Organized by

PSGR Krishnammal College for Women, Coimbatore 641 004, Tamil Nadu

27 August to 8 September 2012

PSGR Krishnammal College for Women, Coimbatore 641 004 will organize a two-week Refresher Course on Theoretical and Computational Fluid Dynamics for college and university teachers with the main objective of providing value-added quality teaching to the student community.

Objectives: To refresh the knowledge of faculty members in theoretical and computational fluid dynamics; To provide a forum for interaction between scientists and college teachers; To explore ways to explain the subject better to the students to enable them to carry out research in this field.

Target audience: Mathematics teachers working in colleges/universities.

Topics to be covered: Kinematics of fluids; dynamics of flow fields; exact solutions of flow problems; approximations in fluid mechanics; plane flows in polar co-ordinates; boundary layer theory; bio fluid mechanics; lubrication theory; thermodynamics; stability; gas dynamics and two-phase flows; atmospheric waves and water waves.

Resource persons: Professors P. Kandaswamy (Bharathiar University; **Course Director**); N Rudraiah, M. Venkatachalappa, I. S. Shivakumara (all of Bangalore University); Maithili Sharan (IIT Delhi); V. D. Sharma (IIT Mumbai); Peeyush Chandra (IIT Kanpur); T. Amaranath (University of Hyderabad); N. M. Bujurke (Karnatak University); R. Usha (IIT, Chennai); K. Sumathi (PSGR Krishnammal College); S. Saravanan (Bharathiar University).

Participation: Those who wish to participate in the course should apply in the stipulated format which can be downloaded from the website: <http://www.psgkrc.com/academyrefresher> and sent by e-mail to: arc@psgkrc.com. For further details contact: **Dr K. Sumathi**, Co-ordinator, Department of Mathematics, PSGR Krishnammal College for Women, Coimbatore 641 004 (e-mail: sumathiarun_math@yahoo.co.in; mobile: 098422 04621). Selection will be based purely on academic record. Selected teachers will be provided local hospitality and round trip shortest train fare (3-tier AC).

Last date for receipt of applications	:	15 June 2012
Last date of intimation to selected participants	:	21 June 2012
Last date of acceptance by selected participants	:	26 June 2012