



**Divecha Centre for Climate Change
Indian Institute of Science, Bengaluru**



**Training Program on
AEROSOLS AND CLIMATE**

Background: Human activity has had a profound impact on our climate. In recent years, there has been a substantial increase in interest in the climate impact of aerosols. Of special significance is black carbon (BC) aerosol, the dark light-absorbing microscopic particles in air, which greatly influence the energy balance of the Earth-atmosphere system. Despite the general consensus among climate scientists on the significant role of aerosols on regional and global climate, various studies and impact assessments provide widely differing and contrasting inferences and projections. Viewed in the above global backdrop, the South Asian region and India assume special significance due to the diverse geographical features, high population density, rapid urbanization and industrialization, leading to a highly complex aerosol system. Aerosols and their climate impacts are the topics of this training program.

About the program: The training program include lectures by eminent scientists/experts and practical/tutorial sessions on scattering models, radiative transfer models, instruments and satellite remote sensing. The topics include: Basics of Aerosols; Atmospheric Scattering due to Aerosols; Scattering models; Radiative Transfer Through the Atmosphere (with emphasis on the effect of aerosols); Simple Radiative Transfer Models; Training on Advanced aerosol instrumentation and so on.

Dates: 11 to 22 December 2023. Accommodation and local logistics will be provided.

Eligibility: Post Graduate (M.Sc, M. Tech, M.E) and PhD students from recognized Institutes/Universities.

How to Apply: Students can send their CV and interest as email to: office.dccc@iisc.ac.in. There is no registration fee.

Deadline: Last date for submission of applications: **31 October 2023** ; The selected candidates will be intimated in couple of days after the deadline.