Course Title: Aerosol Science			
Course Code: NRC 133	No. of Credits: 3	L-T-P: 22.5-15-15	Learning Hours: 45
Pre-requisite Course Code and Title (if any): Basics of climate science or fundamental knowledge of chemistry and physics			
Department: Natural and Applied Sciences			
Course Coordinator: Cours		se Instructor:	
Contact Details:			
Course Type: Elective		urse Offered In: Semester 2	

Course Description

The aerosols affect visibility, climate, health, and quality of life. At the same time, their presence in the atmosphere assists in forming cloud condensation nuclei (CCN). In this context, the course will focus on understanding aerosols' physical and chemical properties, reflecting upon their functional traits affecting stated atmospheric processes. The course will also include the current understanding of carbonaceous aerosol particles as they are known to impact the atmospheric radiative balance directly, affecting the climate regime. An overview of all the global phenomena affected by or related to aerosols will be discussed in this course.

Course Objectives

Upon completion of the course, the student will be able to do the following:

- To explain the general properties of aerosols and related phenomena.
 To understand the optical properties and their role in climate issues.
- To explain the applied aspects of aerosols that are relevant to climate.