



**Civil Engineering Department**  
**Indian Institute of Technology Roorkee**



*ATAL Faculty Development Program on*

# Introduction to Geospatial Tools and Technology

July 26-30, 2021

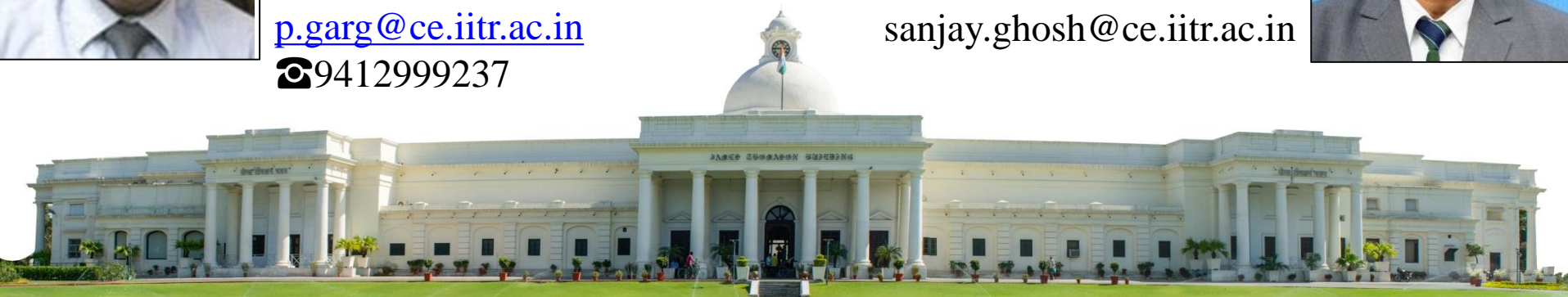


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# Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee-247667, Uttarakhand, India.



Course Contents	Course Objectives
Geospatial Data, Geospatial Big Data, Various Remote Sensing Data and their analysis, GPS data collection and their analysis, UAV (Drone) data collection and analysis, LiDAR Data, Laser based data collection methods and analysis. GIS based analysis of geospatial data. Geospatial markets and future trends.	To plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.

**Indian Institute of Technology - Roorkee** is among the foremost of institutes of national importance in higher technological education and in engineering, basic and applied research. Since its establishment, the Institute has played a vital role in providing the technical manpower and know-how to the country and in pursuit of research.

The **Department of Civil Engineering** at the Indian Institute of Technology, Roorkee is the oldest and the largest in the country. It was established on November 25, 1847 as Roorkee Civil Engineering College and renamed as Thomason College of Civil Engineering in 1854. The department has produced several eminent engineers who have made significant contributions in the planning and execution of Civil Engineering projects in India as well as abroad.

Course Eligibility requirements
<ol style="list-style-type: none"> <li><b>For Institutions</b> (Both Technical &amp; Non-Technical) (a) The government funded institutions like IITs, IIMs, NITs, IITs, Central Universities, State Universities/Institutions, other government organizations and private organization /institutions having NIRF up to 100 or NAAC grade “A+ and higher” or Departments of institutions having NBA accredited. (b) Coordinator must be a full time regular faculty/instructor/trainer etc. &amp; having knowledge and experience to conduct online FDP through any available software.</li> <li><b>For Participants</b> (a) The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.)and staff of host institutions. (b) Not more than 30% from Host Institution. (c) Preference will be given to new participants. (d) Maximum 200 participants may be allowed to attend online FDP on a first come first serve basis however AICTE officials may be allowed to attend over and above 200 number. Coordinators are free to admit less no depending on the feasibility.</li> </ol>



Resource Persons
<p><b>From IIT Roorkee</b>            Prof. P. K. Garg            Prof. S. K. Ghosh            Prof. R. D. Garg            Prof. Alok Bhardwaj            Prof. Saurabh Vijay</p> <p><b>From IIT Kanpur</b>            Prof. Bharat Lohani</p> <p><b>From Industry</b>            Kambill Systems Pvt. Ltd.            Hexagon Ltd.</p>

AICTE TRAINING  
AND LEARNING  
(ATAL) ACADEMY



**Important  
Dates**  
 FDP date: July  
 26-30, 2021

