



# UAV Remote Sensing and Its Applications

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**Overview:** Department of Applied Geology, NIT Raipur in Collaboration of Indian Institute of Remote Sensing, Indian Space Research Organization is organizing 20<sup>th</sup> IIRS Outreach Programme on "UAV Remote Sensing and its Applications" from July 03-07, 2017. This course is open for:

- Technical/ Scientific Staff of Central/ State Government Ministries/ Departments (Preferred ordinance)
- Faculty / Researchers at university / institutions
- Student of Postgraduate course (any year)

**Link to register online to the course:** [http://elearning.iirs.gov.in/edusat\\_lms/student\\_registration.php](http://elearning.iirs.gov.in/edusat_lms/student_registration.php)

Classes of this course will be run in the department of Applied Geology NIT Raipur. 70% attendance is compulsory for this course and end of the course e-certificate would be distributed.

Kindly register using the link given above and submit the registration form to the course coordinator.

**About the Course:** The increasing development in Unmanned Aerial Vehicle (UAV) platforms and associated sensing technologies, has brought new dimension to the field of remote sensing. The UAVs enable accurate, flexible and low-cost measurements of 3D, radiometric and temporal properties of land cover features with high quality cameras, GPS and precise processing. Availability in wide range of sizes, easier deployment and cost effectiveness of UAVs compared to conventional air borne/space borne systems make them attractive. With light weight systems, typically flying at altitudes ranging from 100 m to 300 m and the aerial strip extent ranging typically few kms, they have a great potential in applications like fire monitoring, natural resource and disaster management, 3D terrain mapping, precision agriculture, wildlife observation, vegetation measurements, etc. The huge amount of data provided by UAVs pose, a new challenge towards developing appropriate processing, storage and transmission techniques.

<b>Registration</b>	<ul style="list-style-type: none"> <li>Number of participants for the course will be limited to 25. It is mandatory to submit the registration copy to the course coordinator. Last date of registration is 30<sup>th</sup> June 2017.</li> </ul>
<b>You Should Attend If...</b>	<ul style="list-style-type: none"> <li>you are an executives, engineers and researchers from Geology, Civil Engineering, Mining engineering, Computer Science, Electrical, Mechanical, and other branches of engineering and sciences and belonging to governmental institutes, consultancy firms, research institutes, and industries</li> <li>research scholars</li> <li>faculty from academic institutions and technical institutions.</li> </ul>
<b>Fees</b>	<ul style="list-style-type: none"> <li>This course is free of cost.</li> </ul>
<b>Course</b>	<ul style="list-style-type: none"> <li>Online classes of this course can be attended in the Department of Applied Geology NIT Raipur. Schedule of the online classes is given below.</li> </ul>

Period  
03.07.2017 - 07.07.2017

Venue:  
Department of Applied  
Geology  
NIT Raipur



## Course Co-ordinator

**Dr. Himanshu Govil**  
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<http://www.nitrr.ac.in>  
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Registration Process:  
**Apply Online**



Department of Space  
Government of India  
Indian Space Research Organisation (ISRO)  
Indian Institute of Remote Sensing, Dehradun



22<sup>nd</sup> IIRS Outreach Programme

Course Name	Duration	
	From	To
UAV Remote Sensing and its applications	03.07.2017	07.07.2017

Date	Time	Days	Lecture Description	Faculty
03.07.2017	16:00 Hrs. To 17:30 Hrs.	Monday	Overview of UAV Remote Sensing	Mrs. Shefali Agrawal
04.07.2017		Tuesday	UAV System and technology	Mr. Chirag Gupta
05.07.2017		Wednesday	UAV Photogrammetry and its application	Mr. Raghavendra Sara
06.07.2017		Thursday	Image processing of ultra-high resolution UAV images	Ms. Minakshi Kumar
07.07.2017		Friday	UAV SAR Remote sensing	Mr. Shashi Kumar