



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



**19<sup>th</sup> IIRS Outreach Programme**

Course Name		Duration	
		From	To
1	Remote Sensing and GIS Applications in Carbon Forestry	16.02.2017	10.03.2017

Date	Time	Lecture Topic	
16.02.2017	Lecture Session <b>1530-1630</b>	Global carbon cycle & climate change: An overview	
17.02.2017		Forest based strategies for mitigating climate change	
<b>18.02.2017</b>		<b>Break- Saturday</b>	
<b>19.02.2017</b>		<b>Break- Sunday</b>	
20.02.2017		Global Earth observation initiatives for carbon forestry	
21.02.2017		Spectral signature of vegetation and factors affecting spectral response	
22.02.2017		Application of satellite remote sensing in mapping and monitoring of forest cover and land use	
23.02.2017		Application of satellite remote sensing in mapping and monitoring of forest degradation	
<b>24.02.2017</b>		<b>Break- MahaShivratri</b>	
<b>25.02.2017</b>		<b>Break- Saturday</b>	
<b>26.02.2017</b>		<b>Break- Sunday</b>	
27.02.2017		Application of satellite data in forest sampling design for biomass/carbon quantification	
28.02.2017		Application of optical remote sensing in forest biomass/carbon estimation	
01.03.2017		Interactive Session <b>1630-1700</b>	Application of high resolution data for biomass/carbon inventory
02.03.2017			Application of LiDAR in mapping of forest structure and biomass/carbon estimation
03.03.2017			Application of microwave remote sensing in forest biomass/carbon estimation
<b>04.03.2017</b>			<b>Break- Saturday</b>
<b>05.03.2017</b>	<b>Break- Sunday</b>		
06.03.2017	Application of eddy covariance technique in carbon flux measurement and modelling		
07.03.2017	Application of satellite remote sensing in near-real time forest fire assessment and monitoring		
08.03.2017	Application of satellite remote sensing in forest biomass burning and carbon emission monitoring		
09.03.2017	Application of Geoweb portals and services in forestry studies		
10.03.2017	<b>Examination &amp; Interactive discussion</b>		