











































List of Faculty










Name	Topic	E-mail	Photo
Dr. A. Senthil Kumar	<ul style="list-style-type: none"> Integrated watershed management- challenges & opportunities 	senthil@iirs.gov.in	
Dr. Sarnam Singh	<ul style="list-style-type: none"> Spectral vegetation indices Forest fire assessment and monitoring Growing stock, biomass and carbon assessment and modelling Biodiversity conservation planning 	sarnam@iirs.gov.in	
	<ul style="list-style-type: none"> 		
Dr. Champti ray	<ul style="list-style-type: none"> Geological disasters (landslides, earthquakes & volcanos) Mathematical geology 	champti_ray@iirs.gov.in	
Dr. S.K. Srivastava	<ul style="list-style-type: none"> Agent based modelling & applications DEM & its derivate 	sksrivastav@iirs.gov.in	
Dr. Pramod Kumar	<ul style="list-style-type: none"> Urban resource planning, urban landuse planning Urban area analysis 	pramod@iirs.gov.in	
Mrs. Shefali Agrawal	<ul style="list-style-type: none"> Remote Sensing Principles and applications of hyperspectral RS 	shefali_a@iirs.gov.in	
Dr. R.S Chatterjee	<ul style="list-style-type: none"> SAR interferometry and its applications Ground water geology 	rscharterjee@iirs.gov.in	






Dr. S.P Aggarwal	<ul style="list-style-type: none"> Hydrological Modelling, Watershed Hydrology Site Suitability for Water Resources Projects Climate Change Studies 	spa@iirs.gov.in	
Dr. Suresh Kumar	<ul style="list-style-type: none"> Soil resource mapping, Digital terrain analysis Land evaluation, Watershed Management Soil quality assessment, soil erosion modeling 	suresh_kumar@iirs.gov.in	
Dr. Hari Shanker Srivastav	<ul style="list-style-type: none"> LULC analysis, Microwave RS in agriculture Soil moisture estimation 	harishankar_srivastava@iirs.gov.in	
Dr. Debashish Mitra	<ul style="list-style-type: none"> Integrated Coastal zone management Coastal dynamics & processes Coastal geomorphology 	mitra@iirs.gov.in	
Dr. A.K Mishra	<ul style="list-style-type: none"> Ocean color monitor & its application Ocean remote sensing, satellite altimetry & scatterometry for ocean 	mishr@iirs.gov.in	
Dr. N.R Patel	<ul style="list-style-type: none"> Crop yield modeling, production forecasting Drought assessment and monitoring Land surface process, carbon cycle & climate change Retrieval of Agrometeorological Parameters Land surface process, carbon cycle & climate change 	nrpatel@iirs.gov.in	
Dr. Anil Kumar	<ul style="list-style-type: none"> Photogrammetry, Fuzzy, ANN Classification, Image segmentation 	anil@iirs.gov.in	
Mrs. Minaskhi Kumar	<ul style="list-style-type: none"> Image Enhancement, Classification, Segmentation Texture analysis 	minakshi@iirs.gov.in	
Dr. Randhir Singh Huda	<ul style="list-style-type: none"> Physics of atmosphere Meteorological satellite & instruments 	randhir@iirs.gov.in	

Dr. Arijit Roy	<ul style="list-style-type: none"> • Sampling techniques in forest inventory • Predictive modeling • Decision support systems • Climate change impacts on forests and biodiversity • Wetland monitoring and conservation planning 	arijitroy@iirs.gov.in	
Dr. Sandeep Maithani	<ul style="list-style-type: none"> • Settlement planning, geo-spatial Technologies for Urban Environmental studies • Urban hazard & risk assessment 	maithani@iirs.gov.in	
Dr. Sameer Saran	<ul style="list-style-type: none"> • Spatial information system, spatial data modelling infrastructure, • Spatial decision support system, MCDM • Distributed GIS, interoperability, metadata stds & cataloging 	sameer@iirs.gov.in	
Dr. Harish Karnataka	<ul style="list-style-type: none"> • Bhuvan overview, Geodata abstraction library, Iterations, functions & recursion • WebGIS services, cloud computing 	harish@iirs.gov.in	
Dr. Sadhna Jain	<ul style="list-style-type: none"> • Quantitative techniques for urban analysis, • Object based image analysis for urban areas 	sadhana@iirs.gov.in	
Dr. Hitendra Padalia	<ul style="list-style-type: none"> • Spectral properties of vegetation • Utility of hyperspectral remote sensing in forestry • Utility of microwave remote sensing in forestry • Forest growth and yield prediction • Forest degradation assessment 	hitendra@iirs.gov.in	
Mr. B.D Bharath	<ul style="list-style-type: none"> • Census operation & population, Urban Resources, Services and facilities • Traffic & transportation studies, urban information system 	bharath@iirs.gov.in	
Dr. Vandita Srivastava	<ul style="list-style-type: none"> • Spatial data analysis, vector & raster 	vandita@iirs.gov.in	
Dr. Poonam S. Tiwari	<ul style="list-style-type: none"> • Photogrammetry, • Feature Extraction, • DIP 	poonam@iirs.gov.in	

Dr. Yogesh Kant	<ul style="list-style-type: none"> • Impact of climate change • EO systems for climate change studies 	yogesh@iirs.gov.in	
Mr. Ashutosh Bhardwaj	<ul style="list-style-type: none"> • Photogrammetry, GPS 	ashutosh@iirs.gov.in	
Dr. Hina Pande	<ul style="list-style-type: none"> • Visual Interpretation, • Close Range Photogrammetry, 	hina@iirs.gov.in	
Dr. Praveen K. Thakur	<ul style="list-style-type: none"> • Quantification of Hydrological Element: Precipitation • Snow Cover mapping and Snow melt runoff modelling • DEM and its derivatives, Groundwater Modelling • Flood hydrology and flood damage assessment 	praveen@iirs.gov.in	
Mrs. Kshma Gupta	<ul style="list-style-type: none"> • Virtualizing 3D real world for urban design 	kshma@iirs.gov.in	
Dr. Bhaskar R. Nikam	<ul style="list-style-type: none"> • Quantification of Hydrological Element: Evapotranspiration and soil moisture • Soil erosion modelling, Irrigation water management • Performance Evaluation & Conjunctive Use Planning • Drought Monitoring & Assessment 	bhaskarnikam@iirs.gov.in	
Mr. Kapil Oberia	<ul style="list-style-type: none"> • GIS data creation, optimization, Conceptual models of non-spatial information, relation algebra • Spatial databases, SQL spatial querying, Python imaging, connectivity, location based services & KML 	kapil@iirs.gov.in	
Dr. Vaibhav Garg	<ul style="list-style-type: none"> • Quantification of Runoff and Hydrological Modelling • DEM applications in Water Resources • Reservoir Sedimentation • Integrated Water Resources Management • Modelling climate change and impact of climate change on water resources 	vaibhav@iirs.gov.in	
Mr. Ashutosh K Jha	<ul style="list-style-type: none"> • Agent based modelling, database connectivity, spatial variation models, dependence measures, Geo-visualization, files objects & classes, metrics & linear algebra, 	akjha@iirs.gov.in	

Dr. Subrata Nandy	<ul style="list-style-type: none"> • Visual interpretation methods for forest cover mapping • Utility of LiDAR in forestry • Landscape ecology: principles • Biodiversity assessment at Landscape Scale 	nandy@iirs.gov.in	
Mrs. Manu Mehta	<ul style="list-style-type: none"> • Remote Sensing • Atmospheric Corrections 	manu@iirs.gov.in	
Mr. Vinay Kumar	<ul style="list-style-type: none"> • Microwave • Hyperspectral Remote Sensing 	vinay@iirs.gov.in	
Dr. Suchita Srivastava	<ul style="list-style-type: none"> • Green house gasses & their atmospheric chemistry • Retrieval of temperature, trace gases & ozone 	shuchita@iirs.gov.in	
Dr. Shovan Lal Chatteraj	<ul style="list-style-type: none"> • Types of mineral deposits • RS application in engineering geology 	shovan@iirs.gov.in	
Dr. Stutee Gupta	<ul style="list-style-type: none"> • Digital methods for forest cover mapping • Geostatistics in forestry applications • Kyoto protocol, CDM and REDD+ • Environmental policy and strategy 	stutee@iirs.gov.in	
Mr. Prasun Kumar Gupta	<ul style="list-style-type: none"> • h/w, s/w requirements for GIS, , database design using UML, attribute & positional uncertainty, basic programming concepts, web programming 	prasun@iirs.gov.in	
Mrs. Charu Singh	<ul style="list-style-type: none"> • Rainfall retrieval & monsoon studies • Tropical dynamics ENSO etc 	charu@iirs.gov.in	
Mr. Kamal Pandey	<ul style="list-style-type: none"> • Strings, tuples, dictionaries, GDAL, customizing, open source GIS s/w, server side scripting, web mapping using open layers, data quality & sources of error in GIS 	kamal@iirs.gov.in	

Mr. S. Raghavendra	<ul style="list-style-type: none"> • Statistics, GPS, • LiDAR 	raghav@iirs.gov.in	
Mr. Shashi Kumar	<ul style="list-style-type: none"> • Microwave • Thermal Remote Sensing 	sashi@iirs.gov.in	
Mr. Hari Shanker	<ul style="list-style-type: none"> • Network analysis, spatial data quality • Spatial variation models & dependence measures 	harisankar@iirs.gov.in	
Mrs. Richa Sharma	<ul style="list-style-type: none"> • Spectroscopy of minerals, hyperspectral RS mineral exploration • RS for geology, DIP 	richa@iirs.gov.in	
Ms. Pooja Jindal	<ul style="list-style-type: none"> • Meteorological satellites & sensors • Assessment of cyclones, atmospheric humidity • Atmospheric remote sensing, wind retrieval 	pooja@iirs.gov.in	
Mr. Aprit Chouksey	<ul style="list-style-type: none"> • Hydrograph Analysis • Water balance studies • Soil erosion types and its physical process • Waterlogging and salinity • Basics of drought 	arpit@iirs.gov.in	
Mr. K. Shiva Reddy	<ul style="list-style-type: none"> • GIS data models, conceptual model of spatial information • Internet technology & WebGIS, Web GIS services 	shivareddy@iirs.gov.in	
Dr. Pratima Pandey	<ul style="list-style-type: none"> • Glaciology, climate tectonic relationship • Landform dynamics 	pratima@iirs.gov.in	
Ms. Asfa Siddiqui	<ul style="list-style-type: none"> • Base and cadastral maps for urban areas, 	asfa@iirs.gov.in	

Mr. Suresh Kannaujiya	<ul style="list-style-type: none"> • Geophysics, geophysical methods for exploration & integration with RS data fusion for geological applications 	skannaujiya@iirs.gov.in	
Mr. Prabhakar Alok Verma	<ul style="list-style-type: none"> • Interpolation methods, attribute & positional uncertainty, error & uncertainty propagation, Taylor series, spatial sampling & modelling 		
Mr. Justin George	<ul style="list-style-type: none"> • Fundamentals of soils & pedogenesis • Land evaluation • land degradation • Hyperspectral RS in degradation mapping 	justin@iirs.gov.in	
Mr. Yateesh Ketholia	<ul style="list-style-type: none"> • Geomorphic process costal & kart • Hydrocarbon resources & mode of occurance 	yateesh@iirs.gov.in	
Mr. Abhishek Danodia	<ul style="list-style-type: none"> • Fundamentals and Importance of Agrometeorology • Precision agriculture • Cropping System analysis • ICT Applications in Agriculture: Basics of DBMS, Yield gap analysis, Decision support systems, SDSS 	abhidanodia@iirs.gov.in	

Invited Guest Lecturers

Name	Topic	Organization/Institute	E-mail	Photo
Dr. S.K. Saha	<ul style="list-style-type: none"> • Sustainable development, Ari-informatics, • crop identification & acreage estimation, soil biogeochemical cycle 	Eremites Professor CSSTEAP, Dehradun	sksaha@iirs.gov.in	
Dr. S. P. S. Kushwaha	<ul style="list-style-type: none"> • Natural vegetation and its classification schemes • Forest ecosystems principles and concepts • Wildlife habitat suitability analysis • Carbon flux monitoring and modelling 	Ex-Scientist, IIRS Dehradun	spskushwaha@iirs.gov.in	
Dr. George Philip	<ul style="list-style-type: none"> • Geospatial techniques for active tectonic studies 	Scientist, Wadia Institute of Himalayan Geology, Dehradun	gphilip@wihg.res.in	
Dr. Ruchi Badola	People participation in ecosystem conservation; Approaches and challenges	Wild Life Institute of India, Dehradun	ruchi@wii.gov.in	
Dr. Asha Rajvanshi,	Environmental impact assessment	Wild Life Institute of India, Dehradun	ar@wii.gov.in	
Dr. P.K Mishra	Problems in watershed, concepts of watershed prioritisation, objectives of watershed management and conservation planning	Soil & Water Conservation Research & Training Centre, Dehradun	director.iiswc@icar.gov.in	

Dr. S.K. Jain	Modelling of climate change scenarios and impact of climate change on water resources	National Institute of Hydrology, Roorkee	sanjay.nih@gmail.com	
Dr. Ambrish Tiwari	Watershed hydrology for conservation planning	Soil & Water Conservation Research & Training Centre, Dehradun	aktswc@yahoo.com 09411393779	
Dr. Charan Singh	Soil conservation measures for watershed management	Soil & Water Conservation Research & Training Centre, Dehradun	charan_forest@rediffmail.com 09411140824	
Dr. K. K. Das	Forest information extraction from aerial photographs	Former Scientist IIRS	kk_das1952@yahoo.com	
Dr. Rajeev Kumar Srivastava	Geodesy: An overview	Survey of India, Dehradun		
Mr. Prakash Lakhchaura	<ul style="list-style-type: none"> - National forest inventory sampling design - Case studies on forest carbon and NTFP assessment 	Forest Survey of India, Dehradun		

