

Background

Forest Survey of India (FSI) is a premier national organization under the Ministry of Environment, Forest and Climate Change (MoEF&CC) and is responsible for periodic assessment of the Country's forest resources. The major activities of the organization are:

- Remote Sensing based biennial assessment of forest cover and publishing the findings in the India State of Forest Report (ISFR).
- Inventory of Forests & Trees Outside Forests (TOF) mainly for assessment of Growing Stock of wood within and outside forests.
- Capacity building of the State & Union Territories Forest Departments (SFDs/UTFDs) personnel in modern geomatics tools for assessment of forest resources.
- Monitoring of forest fire on near real time.
- Undertaking important assignments for Hon'ble Supreme Court of India, various High Courts, Central Ministries and the SFDs.

The first State of Forest Report was published by FSI in 1987. The latest report is the ISFR 2019, which is 16th in the series, was released in the month of December, 2019.

Training

Training is one of the mandates of FSI. The Training Division of FSI has been involved in imparting training to forestry personnel of the SFDs/UTFDs since 1981 in an endeavor to build their capacities to use modern techniques in forest resources assessment for efficient planning & management of forest resources.



Objectives of Training

Capacity building of human resources is recognized as one of the most important component to keep pace with the rapidly changing technologies in the modern era in which we live today. In the field of forest resources assessment, the standardized remote sensing & GIS based technologies, inventory techniques etc. cater to the specific needs of forest management, resource inventory and mapping. Training courses also provide a historical and progressive perspective to the advancement of scientific and technological knowledge by means of lectures, technical sessions, practical discussions and field visits.

So far, FSI has imparted training to more than 5,000 forestry personnel from various SFDs/UTFDs. FSI also conducts regular outreach training programmes in the states on the request of SFDs. In such programmes, the resource persons from FSI go to the state to train the frontline staff in the use of modern technology in forestry.



Facilities

FSI has the state of art modern infrastructure, computer workstations, hardware & software and skilled in-house and guest faculty from reputed institutions for its training courses. The advanced Digital Image Processing (DIP) and Geographic Information System (GIS) professional software are available for training purpose. In recent years, training on the open source software like Q-GIS is also being imparted. The Forest Geomatics Division (with Digital Cartographic System & advanced GIS facilities) and the Forest Inventory Unit, with their specialized activities also cater to the specific needs of imparting trainings on special themes. Training is aimed at thorough learning by way of

hands on sessions and field visits.

Faculty

Besides the experienced and knowledgeable in-house resource persons; eminent guest faculties from reputed national institutions and premier organizations are invited for lectures. Some such organizations are: Indian Institute of Remote Sensing (IIRS), Survey of India (SOI), Wildlife Institute of India (WII), ICFRE/FRI & experts from SFDs, IITs & National Remote Sensing Centre (NRSC). The training programmes include delivering the course contents, study material to all participants that is meticulously designed by the course coordinators and experts, field visits and yoga classes.



Eligibility

IFS officers, SFS officers and Forest Range Officers nominated by different State/UT Forest



Training Calendar for the Year 2020-2021

(* IFS Officers for these courses are nominated and sponsored by the Ministry of Environment, Forests and CC, New Delhi)

S. No.	Theme	No. of Courses	Level of Participants	Duration (Weeks)	April 2020	May 2020	June 2020	July 2020	Aug. 2020	Sept. 2020	Oct. 2020	Nov. 2020	Dec. 2020	Jan. 2021	Feb. 2021
1.	In-house Capacity building	2	FSI officials only	3 Days				22-24		2-4					
2.	Decision Support system (DSS) & e-Green Watch	1	For FSI & Regional offices of MoEF & CC officials only	2 Days			29-30								
3.	Decision Support system (DSS) & e-Green Watch & forest fire	2	ACF/DCF/CF	2 Days					17-18			23-24			
4.	Forest Resource /Carbon Inventory for Preparation of Working Plan	1	WPO/ACF/RFO	1 Week				6-10							
5.	Application of RS/GIS in Preparation of Working Plan	1	WPO/ACF/RFO	1 Week								2-6			
6.	Application of Drone/DGPS in Forest Survey & Demarcation	2	DCF/ACF/RFO/Forest Surveyors	1 Week							19-23			18-22	
7.	Application of RS, GIS & Inventory in Effective Forest Planning & Management	1	IFS* compulsory training course	1 Week						21-25					
8.	Forest Fire Monitoring & Damage Assessment	1	IFS* Workshop	2 Days											22-23
9.	Forest Carbon Assessment	2	ACF/DCF/CF	1 Week							5-9		7-11		
10.	Sensitization Course on Forest Resource Monitoring by FSI	1	Sr. IFS Officers Of the rank of APCCF/PCCF	2 Days									21-22		

Departments and the Government of India are eligible for participation in these courses. It is preferable that the candidate has some basic background knowledge of computer applications.

Accommodation

Accommodation is provided in the Training Hostel of FSI, generally on twin sharing basis. The hostel has 7 suites and 9 double bedded AC rooms with TV, lounge, conference hall, internet and dining facility. Facility for indoor games like table tennis, carrom etc. The campus has enough space for morning/evening walks.



Fee & Expenses

There is no course fee for the participants nominated by the States/UT Forest Departments. FSI also bears the boarding and lodging expenses of the participants attending the training courses. The traveling expenses etc. of the participants are required to be borne by the concerned State Forest Departments.

Certificate

A course completion certificate is awarded to the participants after satisfactory completion of training.



Regular Training Courses Scheduled for 2020-21

Apart from one course for the ISS Probationers & in house training courses for FSI officials, the following training courses are offered for the officials of SFDs & UTFDs.

1. New NFI design (For FSI officials only)

This course is designed for field staff of FSI who are involved in carrying out inventory of forests and TOF. As the new NFI design has been launched and several new parameters have been introduced, training programme will help the participants to have a clear comprehension about new NFI design. The field staff of FSI will be invited in two groups from all the zones.



2. Forest cover mapping for 16th cycle (For FSI officials only)

The work of Forest Cover Mapping for 16th cycle has started with the procurement of the satellite data for the entire country. Before commencement of the FCM work, a two days training programme has been organized for elucidating different concepts of ortho-rectified data in place of geo-rectified data for the 16th Cycle assessment.



3. DSS and e-green watch

On the directions of the MoEF & CC, FSI has devolved two web based GIS applications. The e- green watch programme is meant for monitoring of plantations and other assets created under the CAMPA programme. The role of FSI in e-Green watch programme is to monitor the polygons uploaded by SFDs on plantations, pre- planting works and assets created under CAMPA.

Under DSS, FSI has integrated several GIS layers to facilitate quick decisions. FSI has established a DSS cell in all its zonal offices and also placed one technical person at each office of FSI zonal office and Regional Office of MoEF & CC for dealing with matters related to DSS and e- Green watch. The three days training programme for staff of FSI and MoEF & CC will be conducted to update them about these two applications and resolve their technical queries.

For Staff of FSI and MoEF & CC, the duration of the training is three days as they conversant with the applications. For officers of SFDs, the duration of training is kept as one week to provide hands on training on these applications as well as on handheld GPS.

4. Forest resource/carbon inventory for preparation of working plan

The sampling design for forest resource assessment under the new working plan code 2014 has been modified and many new parameters have been added. As most SFDs are facing difficulties in new assessment method, the training course will help the participants to understand different concepts and methodology to be used for resource assessment as per the new code.

5. Application of RS/GIS in preparation of working plan

Under the new National working Plan Code 2014, lots of maps are to be prepared and analysed using GIS tools. As FSI is having long expertise in applications of RS/GIS for different forestry purposes, the participants will be given sufficient hands on training on RS/GIS and their applications in new working plan code.

6. Application of Drone & GPS/DGPS in Forest Surveys and Demarcation

Handheld GPS and DGPS are being widely used in the SFDs for different applications. The course aims to provide basic overview of GPS technology and hands



on training to the participants for different applications in forestry. The participants will also be informed about DGPS and its applications. DGPS are being widely used in the SFDs for different applications. Recently, Drone has assumed importance in different applications of forestry. To promote the conceptualization and operationalization of drone in forestry application, FSI as a leading organization in India striving to impart the training on Application of Drone/UAV, DGPS in Forest Resource Surveys. The course aims to provide overview of DGPS and



Drone technology and their applications in forestry along with practical demonstrations.

7. Application of RS, GIS & Inventory in Effective Forest Planning & Management (officers for this course are nominated by the MoEF & CC)

This a short duration course meant for IFS officers to familiarized them about new tools and techniques for preparation of working plan as per the new working plan code and to address issues related to assessment of new parameters in the New Working Plan Code. During the training programme case studies will be discussed with the participants.

8. Forest Fire Monitoring and damage assessment

This will be a two-day's workshop training for IFS officers on Forest Fire Monitoring. FSI is working on three aspects of forest fire viz. sending pre-fire warning, fire alerts and burnt area assessment. The participants will be exposed to these aspects of forest fire and the technology being used for forest fire monitoring.



9. Forest Carbon Assessment

Large-scale carbon mapping is needed to support the UNFCCC program to reduce deforestation and forest degradation (REDD), etc. The Training module provides a means to estimate forest carbon density over large areas, which greatly assists in the development of practical baselines.



10. Sensitization course on Forest Resource Monitoring by FSI

This is a sensitization programme for senior level officers of SFDs. The programme aims to expose the senior officers

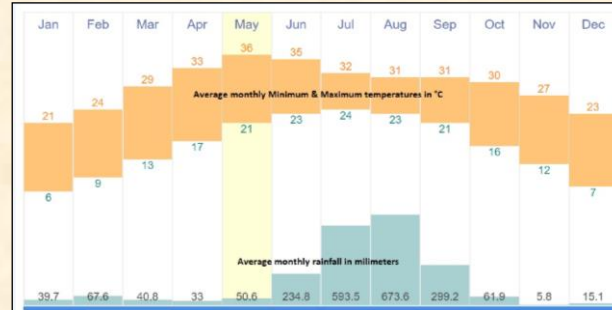
about new tools and techniques used for monitoring of forest resources. They will also be informed about DSS, e-Green watch, forest fire monitoring etc.

11. Customized Training courses

On the request of SFDS, customized training course will be conducted on application of RS/GIS, handheld GPS, Inventory techniques etc. The expenditure on such courses will be borne by concerned SFDs.

Time to visit

Dehradun is known for its splendid beauty and pleasant weather. Every season brings along a different charm with itself. The city can be visited anytime throughout the year.



Average Monthly Minimum, Maximum Temperature and Average Monthly Rainfall recorded in Dehradun

For any information, please contact:

Sr. Deputy Director (Training)
+91-135-2755042 (O)
email: sr.ddtrg@gmail.com

FAX: +91-135-2754507
Website: www.fsi.nic.in

Training Calendar 2020-21

Right information at the right time & for the right people can give right results...



FOREST SURVEY OF INDIA
Ministry of Environment, Forest & Climate Change
भारतीय वन सर्वेक्षण