

Background
Forest Survey of India, Dehradun is a premier national organization under the Ministry of Environment, Forests and Climate Change (MoEF & CC) dedicated to forest resource assessment of the country on a regular basis. The four major activities of the organization are assessment of forest cover of the country using satellite data on a biennial basis, inventory of Forest / Trees Outside Forests (TOF), imparting training to personnel of State Forest Departments (SFDs) in modern geomatic tools and undertaking important national and sub-national projects on the request of central ministries and SFDs. India State of Forest Report (ISFR) is an important biennial publication of FSI. So far 15 ISFRs have been published by FSI. The latest published report is ISFR 2015.

Training
FSI always strives to keep pace with rapidly changing technologies. With the advancement in Information Technology, Remote Sensing, GIS and GPS technologies, the requirement of trained personnel in these fields in the State Forest Departments (SFDs) has grown. Accordingly, FSI has designed its training courses in such a way so as to fulfill the training needs of the SFDs in modern tools and techniques. So far FSI has imparted training to around 4000 forestry personnel.



Training Lab

Facilities
Forest Survey of India is equipped with necessary infrastructure, state of art hardware & software and skilled professionals to organize the training programmes. The Training Unit has advanced **Digital Image Processing (DIP) software** like **ERDAS Imagine 13** and **GIS software** like **ArcGIS 14**. The National Forest Data Management Centre (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 in special spheres. The Training unit has handheld GPS (76Cxs, GPS 72 and E-Trex) & differential GPS (Geo explorer 3 of Trimble) units in sufficient number so that trainees can have sufficient hands-on practice on these items. Lectures, practical, discussions and field visits are organized in the training modules.

Faculty
Besides in-house resource persons, training staff also includes resource persons from Indian Institute of Remote Sensing (IIRS), Regional Remote Sensing Service Centre, Survey of India, Wildlife Institute of India (WII), ICFRE/FRI & experts from SFDs and other premier national

institutions like IITs & National Remote Sensing Centre (NRSC) Hyderabad.

Eligibility
IFS officers, SFS officers and Forest Range Officers sponsored by different State/UT Forest 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. The Training Hostel is equipped with suites and double bedded AC rooms with TV, lounge, conference hall, internet and dining facility. Facility for indoor games like table tennis, carrom and chess are also available.



Training Accommodation

Fee & Expenses
There is no course fee for the participants sponsored 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 Forest Departments.

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

Customized Training Courses

Forest Survey of India, on the request of SFDs/Institutes/Organizations organizes specialized training courses on a project basis. In addition to customized training course, outreach training courses on ‘GPS Applications in Forest Survey and Demarcation’ have been organized in many States/UTs.

Regular Training Courses Scheduled for 2016-17

1. New NFI design

Duration : One week
Number of course : Two
Level of participants : Field staff of zonal offices of FSI
Dates : 11th – 15th July & 25th - 29th July, 2016

Contents: 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.



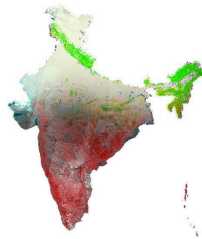
Programme for the Year 2016- 2017

Theme	No. of Courses	Level of Participants	Durati on (Week s)	May 2016	June 2016	July 2016	Aug. 2016	Sept. 2016	Oct. 2016	Nov. 2016	Dec. 2016	Jan. 2017	Feb. 2017
* New NFI design	2	For FSI staff of zonal offices	1			11-15 & 25-29							
* Forest cover mapping for 15 th cycle	1	For FSI staff of headquarters and zonal offices	2 days	12-13									
Decision Support System (DSS) and e-Green watch	1	For FSI staff of zonal offices and Regional offices of MoEF & CC	3 days		13-14								
	2	ACF/DCF/CF	1				8-12			7-11			
Forest resource/ carbon inventory for preparation of working plan	2	WPO/ACF/RFO	1					5-9	24-28				
Application of RS/GIS in preparation of working plan	2	WPO/ACF/RFO	1							5-9		16-20	
GPS/DGPS in Forest Surveys and Demarcation	1	ACF/DCF/RFO/Forest Surveyors	1										6-10
New Tools and Techniques for preparation of working plan for integrated forest & bio-diversity management & its implementation using DSS decision supporting system*	1	IFS compulsory training course	1					26-30					
Forest Fire Monitoring and damage assessment*	1	IFS compulsory workshop	2 days										23-24
Sensitization course on forest resource monitoring by FSI	2	Senior IFS officers of the rank of APCCF or PCCFs	2 days						19-20				

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

2. Forest cover mapping for 15th cycle

Duration : Two Days
Number of workshop : One
Level of participants : FSI staff of headquarters and zonal offices involved in FCM
Dates : 12th – 13th May, 2016



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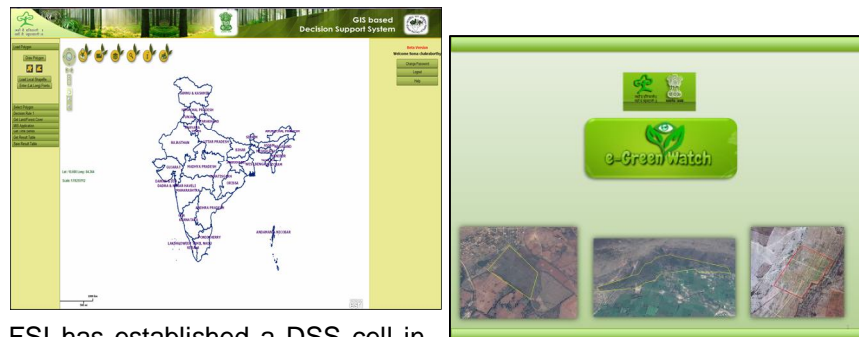
The work of Forest Cover Mapping for 15th cycle is schedule to commence shortly as the satellite data for the entire country has been received. Before commencement of the FCM work, a two days training programme will be organized for elucidating different concepts of FCM.

3. DSS and e-green watch

Duration : Three days
Number of courses : One
Level of participants : Staff of zonal offices of FSI and Regional offices of MoEF & CC
Dates: : 20th – 22th June, 2016
Duration : One week
Number of courses : Two
Level of participants : ACF/DCF/CF

Dates : 8th - 12th August, 2016
: 7th -11th November, 2016

Contents: On the request 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 application 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

Duration : One weeks.
Number of courses : Two
Level of participants : WPO/ACF/RFO
Dates : 5th–9thSeptember 2016
: 24th-28th October, 2016

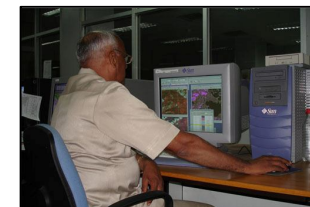
Contents: The sampling design for forest resource assessment under the new working plan code 2014 has been modified and many new parameters have been added. as most SFDs are facing difficulties in new assessment method, the training course will help the participants to understand different concepts and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



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

Duration : One week
No. of courses : Five
Level of participants : WPO/ACF/RFO
Dates : 5th – 9th December 2016
: 16th – 20th January, 2017

Contents: Under the New Working Plan Code 2014, a lots of maps are to be prepared and analyzed using GIS tools. As FSI is having long expertise is application 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.



7. GPS/DGPS in Forest Surveys and Demarcation

Duration : One weeks.
Number of courses : Two
Level of participants : ACF/DCF/RFO/Forest Surveyors
Dates : 6th– 10th February, 2017

Contents: 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.



8. New Tools and Techniques for preparation of working plan -fo-r integrated forest & bio-diversity management & its implementation using decision supporting system

Duration : One weeks.
Number of courses : One
Level of participants : IFS officers
Dates : 26th – 30th September, 2016
(officers this course is nominated by the MoEF & CC)

Contents: 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.



9. Forest Fire Monitoring and damage assessment

Duration : 2 Days.
Number of courses : One
Level of participants : IFS compulsory workshop
Dates : 23th – 24th February, 2017
(officers this course is nominated by the MoEF & CC)

Contents: This will be a two day 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.



10. Sensitization course on forest resource monitoring by FSI

Duration : 2 Days.
Number of courses : One
Level of participants : Senior IFS officers of the rank of APCCF or PCCFs
Dates : 19th – 20th October, 2016

Contents: 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.

TRAINING CALENDAR

2016-2017



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