



# **Green Skill Development Programme (GSDP)** **on** **Forest Entomology and Pest Control** **Course Completion Report**



Organized from 22.02.2021 to 26.03.2021  
by

**ENVIS Resource Partner**  
**on**  
**Forest Genetic Resources and Tree Improvement**  
**Institute of Forest Genetics and Tree Breeding**  
(Indian Council of Forestry Research and Education)  
Coimbatore

## Course Completion Report

### Inaugural Session

A Green Skill Development Programme (GSDP) on “**Forest Entomology and Pest Control**” (level-6) was conducted by the ENVIS Resource Partner on Forest Genetic Resources and Tree Improvement at the Institute of Forest Genetics and Tree Breeding (IFGTB), Coimbatore from 22.02.2021 to 26.03.2021. The training module included theory, field visits, field exercises and assignments. Dr C. Kunhikannan, Director, IFGTB inaugurated the training programme.



## **Introductory Session**

An introductory session about the Institute was taken by Dr Kannan C.S. Warriar, Scientist F, Coordinator ENVIS, Nodal officer GSDP and Training in-charge. During his presentation Dr Kannan deliberated about IFGTB and various institutes with the Indian Council of Forestry Research & Education (ICFRE). He also briefed about the mandate and activities carried out by ENVIS RP at IFGTB.



## **Introduction to Forestry**

After the introductory session, a lecture on “Introduction to Forestry” was delivered by Dr Kannan C.S. Warriar, Scientist F, Coordinator ENVIS, Nodal officer GSDP and Training in-charge. In his lecture, Dr Warriar explained the need for quality planting stocks and covered the basic details on forestry. He also gave an idea about various techniques used in selecting Candidate Plus Trees (CPTs), Plus Trees and Elite Trees. He also detailed on techniques to induce juvenility and briefed the process of selection of tree cuttings and the procedures followed in the nursery for selection of cuttings. He also covered the basics of the clonal forestry, vegetative propagation and benefits & risks of using clones in forestry.



## **Introduction to Forest Entomology**

Dr J.P. Jacob, Scientist G and Training in-charge delivered a lecture on the “Introduction to Forest Entomology”. In his lecture he explained the role of insects in the forest ecosystem and highlighted that many insects play important roles in the forest ecosystem including pollination, nutrient cycling, eliminating sick or weakened trees from the forest, and are even an important food source for many animals, especially for birds. He briefed that it has long been recognized and documented that insects are the most diverse group of organisms, meaning that the numbers of species of insects are more than any other group.



## **Gass Museum Visit**

The trainees visited the Gass museum, which was established by Horace Archibald Gass, a British Forest Officer. Ms D. Sunita, Chief Technical Officer explained the history of the museum. The entomology section which has over 1,000 insects, with a significant part of the collection being butterflies attracts the trainees. The trainees also experienced the exhibits viz Timber, Non-Timber Forest Products, Wood Crafts, Wildlife, Entomology Mycology, Geology, Ethnology, Arms, Forest Engineering, Environment etc. This visit has enriched the candidate's knowledge and learning experience.





## **Introduction to Daily insect assessment**

Dr J.P. Jacob, Scientist G and Training in-charge delivered a lecture on the “Insect assessment”. Following topics were covered in his lecture:

- Pest Monitoring
- Pest Surveillance
- Basic components of pest surveillance
- level of incidence of the pest species
- loss caused by the incidence
- economic benefits



## **Visit to Nurseries**

The trainees were taken to various nurseries in the institute to give an exposure about trees. Shri K. Senthil, Senior Technical Assistant, Forest Protection Division and Training in-charge gave an overall idea about different forest nurseries and explained about the tree species, their importance, symptoms of pests and disease incidence by different insect pests.





Based on the lectures given in the morning sessions, the trainees were also encouraged to identify different species of insects in the field. They actively identified different species of the insects. The day ended with group discussion presented by trainees. They also shared their feedback about the day's activities.





## **Lecture on Useful Insects**

Dr. Ashrith, Scientist D delivered a lecture on useful insects. Following topics were covered in his lecture

- Beneficial insects like honey bees, silkworms and lac insects
- Details of Apiculture, sericulture

He also explained about various benefits of insects.





Trainees were taken to entomology lab, Ms Srijitha Ganguly, Technician taught insect pest classification. Later, they were taken to nursery to identify the pests.





## **Lecture on Biological Control**

Dr.S.Jeyaraj Nelson, Professor, Entomology, Tamil Nadu Agricultural University, Coimbatore delivered a lecture on Natural Enemies of Insect Pests and Biological Control. Following topics were covered in his lecture:

- Introduction to Biological Control.
- Mile-a-minute weed field trip.
- Predators as Biological Control Agents.
- Parasitoids as Biological Control Agents.
- Insect Pathogens.
- Augmentation & Conservation BC.
- Biological Control Successes and failures.





## **Lecture on Insect population Dynamics**

Dr. Natarajan, Professor, Tamil Nadu Agricultural University, Coimbatore delivered a lecture on Insect population dynamics. The following topics were covered in his lecture:

- Taxonomy of insects
- Insect adaptability
- Insect migration
- Insect lifecycle
- Advantages of insect metamorphosis
- Medicinal use of insects
- Population dynamics
- Bio-diversity and conservation of insects



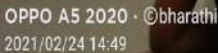




### **Visit to TNAU Bee Park**

The trainees were taken to Bee Park at Apiary wing of Tamilnadu Agricultural University, Coimbatore. Dr. Saravanan, Associate professor explained the following:

- Prospects of bee keeping
- Biology and management of stingless honey bee
- Behaviour of open air nesting honey bees
- Absconding and swarming behavior of Indian bees
- Impact of pesticides on honey bees
- Floral resources for honey bees









### **Lecture on Forest Tree Diseases**

A lecture on “Forest Tree Diseases” was delivered by Dr V. Mohan, Scientist G and Head, Forest Protection Division. 16 major forest nursery and plantation diseases and various diseases caused by fungi, bacteria and viruses were discussed in the lecture. Strategies for controlling the diseases are also dealt with. Pre-disposing factors, symptoms, causal organisms of the diseases and their control measures have been covered in his lecture. All the trainees were instructed to install the mobile App “Forest Tree Diseases” released by IFGTB ENVIS.





### **Lecture on Forest Tree seeds**

A lecture on “Forest Tree Seeds” was delivered by Dr R. Anandhalakshmi, Scientist F and Head FGRM Division. Following topics were discussed:

- What is seed?
- Kinds of seed.
- Seed Germination
- Pattern of seed germination
- Seed dormancy
- Methods to break dormancy
- Various sources of seeds
- How to delineate seed zone?
- Seed production
- Procedure in seed collection
- Seed maturity

She also gave an insight to various methods used to collect forest seeds and equipment used for collecting seeds.





## **Lecture on microbial bio-fertilizer**

A lecture on microbial bio-fertilizer technology was delivered by Dr.V.Mohan, Scientist G. The concept of how microorganisms in biofertilizers restores the soil's natural nutrient cycle and build soil organic matter were discussed. The use of Biofertilizers such as Rhizobium, Azotobacter, Azospirillum and blue green algae (BGA) were taught to the trainees.





### **Pest population assessment**

The trainees were taken to nursery, exercises to assess the pest populations were give to them. The entire session was monitored by Mr Senthil, Technical Officer Ms Srijitha, Technical Officer and Mr Natraj, JRF.





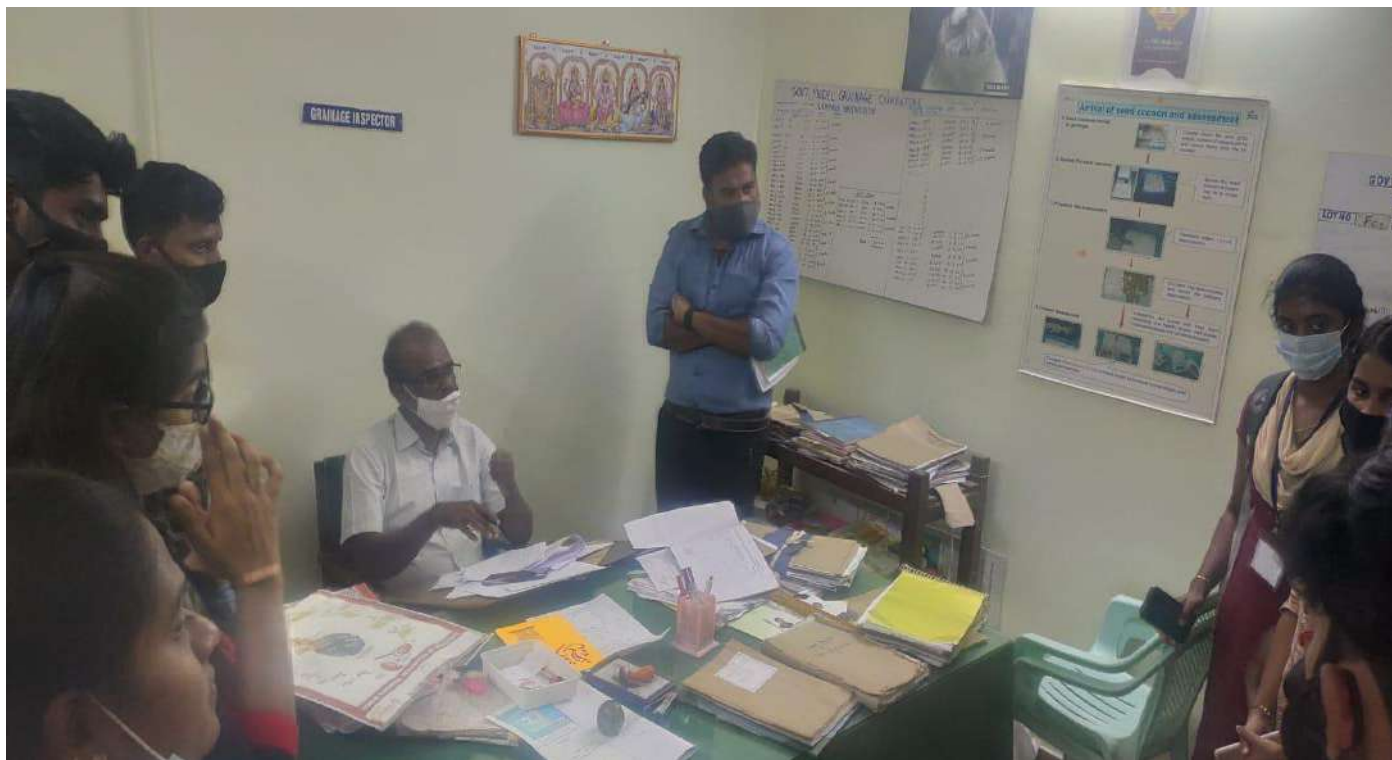
### **01.03.2021:- Trip to Sericulture Department**

A field trip to District Sericulture Centre, Coimbatore was organized to give an exposure about “Sericulture”- Cultivation of Silkworms to produce Silk. Shri Abdul Faruk, Assistant Director, Sericulture department explained the following about sericulture:

1. Exposition of agriculture field of Mulberry
2. Life cycle of *Bombyx mori*
3. Equipments used in rearing silkworms
4. Cost effective methods and material required to establish sericulture.
5. Application and Economic importance of Silk Culture



Mr. R. Soundarajan, Grainage Inspector explained the overall process of selection and storage of cocoons in sericulture. He also gave an insight to the Funding and Compensation provided to farmers/owners by Government to establish sericulture farm. The trainees visited the Government Coccon market in the centre. An exposure to the auction was also provided to the trainees.





### **02.03.2021:-Visit to Farmers field**

The trainees were taken to farmer's field at Kinathukadavu and Settupalayam to know, learn & visualize the following things about sericulture practices (especially Mulberry plantation):

- Planting techniques, spacing, Preparation of land & cuttings for mulberry cultivation
- Maintenance; Disease & pest management techniques
- Pruning & leaf harvesting
- Intercultural operation on the main field. Making optimum utilization of the space & practicing intercropping on the main field to grow crops.
- Methods like mulching to retain soil moisture
- Green manuring, Vermi-composting and its application & dosages
- Visualizing rearing appliances and their use.

Mr. Prakateeswaran, Junior Inspector, Sericulture Department guided the trainees to gather knowledge on several technologies that are practiced in adopting mulberry plantation & silkworm rearing in the field level. The trainees interacted with farmers and experienced the Life cycle of silk moth. Hands on training to handle various equipment was also provided to the trainees to give a real time experience.





### **Visit to farmer's field**

The trainees were taken to silk rearing unit at Thondamuthur. Trainees experienced the following practically:

- Characteristics of Rearing House
- Selection of Site for establishing rearing house
- Design, Principles for Silkworm Rearing House
- Different Activities in Rearing
- How to protect from silkworm pest
- Various instruments used in the rearing house





### **03.03.2021:-Lecture on Collection, Preservation and Study of Insects**

A lecture on collection, preservation and study of insects was delivered by Dr. Vinod K. V, Associate Professor, Nirmala College, Muvattupuzha, , Kerala. The following topics were covered in his lecture:

- Classification of insects
- Orders of insects
- Morphology
- Various collecting methods
- Equipment used for insect collection
- Standard methods for dry preservation and mounting of insects







Some video clips on Cicada, Termites colonization and Looper caterpillar foraging patterns were also screened to make the subject more interesting for the trainees. In the interactive session trainees actively cleared their doubts about insects with the resource person.



### **Practical session**

During the field work in the afternoon session the trainees collected different insect species. The insect nets brought to lab, sorted into different groups and learned about killing, stretching and preserving of insect specimens.





**04.03.2021:-**

### **Insect Pests of Forest Nursery**

Dr J.P. Jacob, Scientist G and Training in-charge delivered a lecture on Insect Pests of Forest Nurseries. Following topics were covered in his lecture:

- Pest of forest nurseries
- Diagnosis of Pest Problems
- How to evaluate the damage
- Various diseases caused by the pests
- How to prevent them



### **Wood bio-deterioration in marine environment**

A lecture on Wood bio-deterioration in marine environment was delivered by Dr Anish V. Pachu, Chief Technical Officer, Forest Protection Division. Following topics were covered in his lecture:

- How bio-deterioration occurs?
- Different types of bio-deterioration
- Rot and its types
- How to detect rots
- How to prevent rots
- Borers and types
- Assessment of bio-deterioration



A group photo of the GSDP team was captured.





### **05.03.2021:- Visit to Chemistry & Bio-prospecting lab**

The trainees were taken to Forest protection lab at the institute, Ms R. Kalaiselvi, Senior Technical Assistant the various bio-prospecting practices carried out in the laboratory and gave an overall idea about the basics of bio-pesticides formation methods, pest control and instrumentation. Process of extracting oil from seeds of *simarouba glauca* for using it as a plant based pesticide was also taught to the trainees.





### **Pest population assessment**

The trainees were taken to nursery, exercises to assess the pest populations were give to them. They actively assessed various pests and sprayed the prepared pesticides. The entire session was monitored by Mr Senthil, Technical Officer Ms Srijitha, Technical Officer and Mr Natraj, JRF.

### **06.03.2021:- Integrated pest management**

A lecture on Insect pests and their management of tree species was delivered by Dr J.P. Jacob, Scientist G. The following topics were covered in his lecture:

- Preferred tree species under Agroforestry
- Types of insects
- Various Damage caused
- Effect of bark-and wood boring insects
- Management of defoliators, borers and bark feeders
- Botanical control mechanisms
- Use of Entomopathogenic fungus

Pictorial examples of insect pests on various species were shown to the trainees.



## **Lecture on Pheromones in pest management**

Dr Prasanth from National Bureau of Agricultural Insect Resources, Bangalore delivered a lecture on Pheromones in insect pest management. He explained about how plant volatiles are used by herbivorous insects to find their host plants and also by the natural enemies to find their prey.



### **Preparation of Pesticides**

The process of preparation of pesticides was taught by Dr.J.P Jacob, Scientist G & Training in-charge in the Entomology Lab. As a practical experiment one chemical pesticide 2 oil based formulation and one soap oil mixture was prepared by the trainees and field application was done on defoliator *Ailanthus* trees. Same experiment was also done in lab with field collected insects in the Petri plates.



### **08.03.2021:- Lecture on Biocontrol Agents**

A lecture on Biocontrol agents and fungicide was delivered by Dr A. Karthikeyan, Scientist F. He explained the methods of controlling pests such as insects, mites, weeds and plant diseases using other organisms.

### **Lecture on Disease Symptomatology**

Dr A. Karthikeyan, Scientist F delivered a lecture on Disease symptomatology. Significance of plant disease; injury vs disease; disease triangle; symptoms and signs were covered in his lecture. Pictorial examples of some diseases in various species were shown to the trainees.





### **Lecture on Chemical Pest Control**

A lecture on chemical pest control, assessment and application techniques was delivered by Dr B. Vinothkumar, Professor, TNAU, Coimbatore.





### **09.03.2021:- Visit to Nursery**

The trainees were taken to Silviculture and Forest Management Nursery. Ms K. Sushamani, Chief Technical Officer, Forest Protection Division, explained the process of identifying diseases in the plants. Mr Krishnamoorthy, Junior Research Fellow explained the process of identifying the affected plants. After the lecture, trainees actively identified various affected plants and the causes.





## **Lecture on Utilization of Microbes**

A Lecture on Utilization of Microbes in forestry was delivered by Dr. A. Karthikeyan, Scientist F. The following topics were covered in his lecture:

- Introduction to Microbes
- Contribution of Plant Growth Promoting Microorganisms
- Assimilative versus Dissimilative processes
- Impacts of Microbes on Ecosystems

He stressed that the microbes can do anything they want, wherever they want and without microbes, humans wouldn't be alive.

## **10.03.2021:- Lecture on Insect Pests**

Dr J.P. Jacob delivered a lecture on Insect/Plant Interaction and the following topics are covered in his lecture:

- Brief introduction: herbivory & arms race
- Arms / Weapons
  - Diversity of plant defenses
  - Diversity of insect offence / counter defense
- Signalling interactions:
  - Signals that plants received from herbivores
  - Signals that insects perceived from plants



### **Visit to Seed Technology Lab:**

Trainees were taken to the seed technology lab and Mr. C. Rajesh, Technical Officer explained about seed processing, testing standards, storage methods developed for plantation species and commercially important medicinal plants like *Tectona grandis*, *Casuarinas*, *Azadirachta indica*, *Aegle marmelos*, *Feronia elephantum*, *Emblica officinalis*, *Syzigium cuminii*, *Strychnos nux-vomica*, *Oroxylum indicum*, *Pterocarpus marsupium* and *Terminalia bellerica*. He also demonstrated various seed storage methods developed for RET (Rare, Endangered and Threatened) species like *Canarium strictum*, *Persea macrantha*, *Aristolochia tagala*, *Symplocos racemosa*, *Garcinia gummi-gatta*, *Myristica dactyloides* and *Emblica* spp. Trainees also had hands on training on handling of various seed processing equipment. Seeds of various tree species available in the lab were shown to them.



### **11.03.2021: Lecture on Microbial Bio-Fertilizer**

A lecture on microbial bio-fertilizer technology was delivered by Dr V. Mohan, Scientist G and Head, Forest Protection Division of IFGTB. The concept of how microorganisms in bio fertilizers restore the soil's natural nutrient cycle and build soil organic matter were discussed. The use of



Biofertilizers such as Rhizobium, Azotobacter, Azospirillum and Blue Green Algae (BGA) were taught to the trainees.



### **12.03.2021:-Visit to Teak Museum, Nilambur**

The trainees were taken to the Teak Museum in Nilambur, with the Kerala Forest Research Institute which is the world's first teak museum. The trainees gained knowledge on the teak plantation activities undertaken 160 years ago. The trainees also visited the butterfly park which provides natural habitat for beautiful flying insects that are getting endangered.





### **15.03.2021:- Lecture on Integrated Pest Management**

Dr. J.P. Jacob, Scientist G & Training in-charge gave a lecture on Integrated Pest Management. He explained pest management system in the context of associated environment and population dynamics which utilizes all the appropriate techniques to minimize the pest population at various levels.

The trainees were taken to nursery and exercises to assess the pest populations were given to them. They actively assessed various pests, prepared and sprayed the pesticides wherever required.

### **Lecture on Insect Pests**

A lecture on Insect pests and their management of tree species in Agroforestry was delivered by Dr. A. Balu, Scientist G (Retd.) and former Head, Forest Protection Division of IFGTB. In addition, a lecture on Insects pests of bamboos and their management. The diversity and characteristics of bamboo insect pests and diseases and their control measures were discussed in his lecture.





### **16.03.2021:- Visit to Chemistry & Bio-prospecting Lab**

The trainees were taken to Chemistry & Bio-prospecting lab at the institute, Dr. N. Senthil Kumar, Scientist E explained about the various bio-prospecting practices carried out in the laboratory. He also gave an overall idea about the basics of bio-pesticides formulation methods, pest control and instrumentation. Trainees were guided to extract oil from seeds of *Simarouba glauca* for using it as a plant based pesticide.





### **17.03.2021:- Visit to Various Nurseries**

The participants were taken to various nurseries of the Institute and were trained on assessing various pests in tree species. The process of recognition, interpretation and diagnosis of pest and disease problems in tree nurseries and plantations were taught to them. They assessed *Myloccerus* beetles in *Thespesia populnea* and *Syzygium cumini* in the model nursery and Silviculture and Forest Management nursery respectively.



### **18.03.2021:- Lecture on Soil Insects**

Dr P.J. Vineesh, S. Vinod Kumar, Professor, St. Josephs College Calicut delivered a lecture on Soil Insects. Following topics were covered in his lecture:

- How do insects shape and interact with soil environments?
- How do soil insects influence agriculture?
- How do can we protect soil-nesting bees for pollination services?

He also gave an insight to soil insect ecology and how insects shapes the environment.



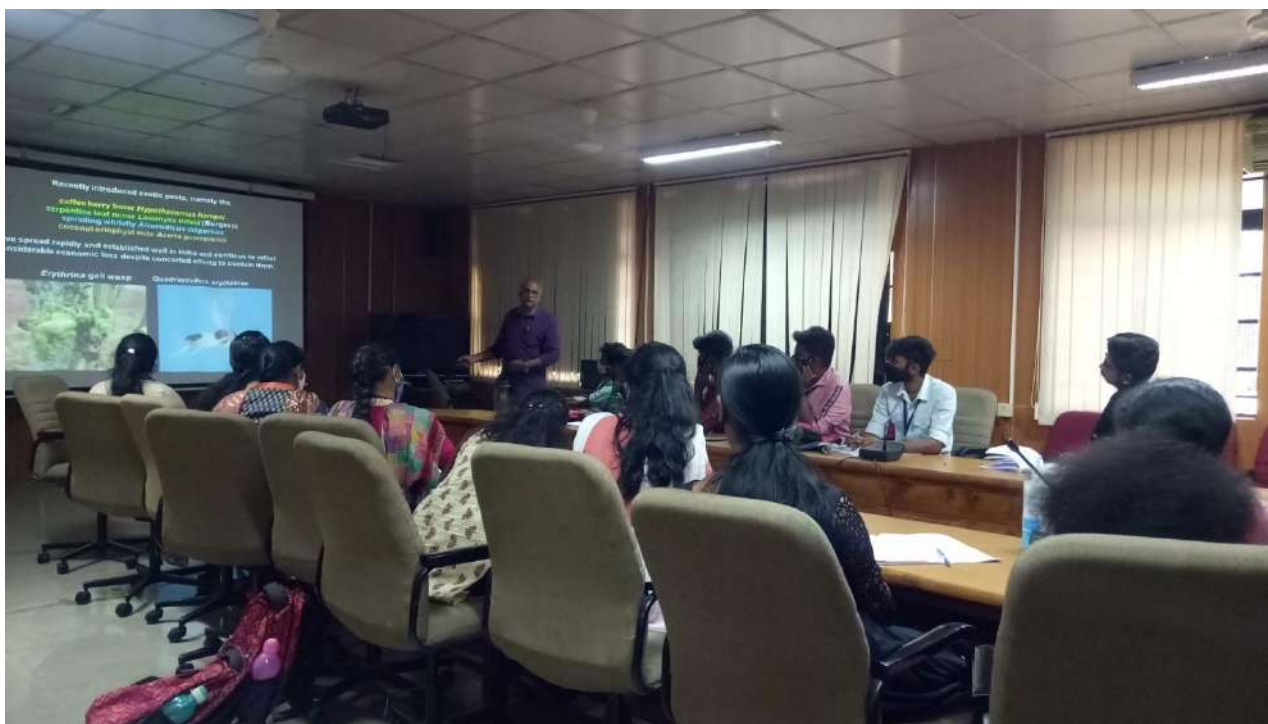
### **19.03.2021: Exotic Pests & Diseases**

Dr J.P. Jacob, Scientist G and Training in-charge delivered a lecture on the “Exotic Pests & Diseases”. Exotic pests are organisms that are introduced into an area beyond their natural range and become pests in the new environment. They are also referred to as alien, non-native, or introduced pests. Most introductions have been unintentional and accidental, he added.

### **Plant Quarantine and Phytosanitary Certification**

Dr J.P. Jacob, Scientist G and Training in-charge delivered a lecture on Plant Quarantine laws and Phytosanitary measures to be followed for the certification. An overall idea about the laws related for clearance of plants, laws associated with plant products, export/Import and other regulated articles were also discussed. Copies of certificates provided to various agencies were also shown to the trainees.





### **20.03.2021: Visit to Green Life Bio-tech Lab, Somanur**

The trainees were taken to Green Life Bio-tech Lab, Somanur, near Coimbatore. Dr S. Eswaramoorthy, the Founder, and former professor, Sugarcane Breeding Institute explained about the ill effects due to the excessive use of chemical fertilizers, pesticides and weedicides caused to the environment and how they cause adverse effects to all living beings on the earth. The trainees got acquainted with all the equipment in the lab and experienced the preparation of eco-friendly biofertilizers.







### **21.03.2021: Mass Tree Saplings Planting Drive**

A mass tree sapling planting programme was organized at Panampully Field Research Station of IFGTB near Palakkad in connection with International Day of Forests 2021. Participants of the three Green Skill Development Programmes planted over 300 saplings in Panampully Field Research Station.







### **22.03.2021: Visit to Forest College and Research Institute (FCRI), Mettupalayam**

A visit to Forest College and Research Institute, Mettupalayam was organized for the trainees and Dr P. Rajendren, Associate Professor, Agroforestry Department explained the following:

- Agriculture vs tree plantations
- Well-developed technologies in forestry plantations
- Sustainable forest management
- Current trends in forestry plantations
- The role of quality planting stocks in afforestation



### **23.03.2021: Visit to Horticulture Directorate, Ooty**

The trainees were taken to the tissue culture laboratory of the Horticulture Department in the Botanical Garden, the Nilgiris. Mr. Prabhu, Horticulture Officer explained that the after being dormant for over five years, the tissue culture laboratory was back to functioning at its full capacity, with hybrid banana plants, strawberries and orchids being developed at the facility over the last few months. He also gave an insight to the tissue culture practices followed in the Directorate. Trainees interacted and cleared their doubts.



### **Visit to Central Potato Research Station**

The trainees were taken to Central Potato Research Station, Ooty. Dr E.P. Venkatasalam, Head and Senior Scientist explained that the station is being doing Research for the development of agro-techniques for potato cultivation, development of varieties possessing combined resistance to late blight and cyst nematode and to develop control measures for late blight, cyst nematode, bacterial wilt and other soil and tuber borne diseases. He also explained the hardening procedures to the trainees and enlightened them on the importance of aeroponic techniques (a soilless technique for growing plants) used in potato cultivation. Later, the trainees were taken to potato field.





### **Visit to Rose Garden**

The trainees were taken to Rose garden, one of the most famous botanical gardens maintained by the Horticulture Department of Tamil Nadu. Ms Menaka, Horticulture Officer explained about appropriate basal medium and growth regulators used for culturing rose plants. She highlighted how the stock cultures are maintained explained about various budding methods. Hands-on Training on T-budding (also known as shield budding, a technique of grafting to change varieties of plants) were also given to the trainees.



### **24.03.2021:-Lecture on Cleaner Production and Waste Minimization**

Dr S. Vigneswaran, Senior Programme Officer, ENVIS RP, IFGTB delivered a lecture on Cleaner Production & Waste Minimization and Laboratory Waste Management. He also gave an insight on various tips for preventing the generation of wastes. In addition, 2 short films on waste management were screened to the trainees to provide an exposure on how wastes can be converted to useful products.





## **NABARD Initiatives**

Dr S. Vigneswaran, Senior Programme Officer delivered a lecture on NABARD and its functions. Initially he explained why NABARD has been established as an apex institution and deliberated about on farm schemes and off farm schemes. :

The annual report of the NABARD for the FY 2019-20 was shared to the trainees and various subsidies provided by NABARD were also discussed.



### **Banking Linkages –SBI, Coimbatore**

Ms S. Ramya, Farm Sector Technical Officer, State Bank of India, Coimbatore delivered a lecture on “Role of SBI in building an Entrepreneur”. She explained that State Bank of India grants financial assistance to technically qualified, trained and experienced entrepreneurs for setting up new viable industrial projects. Loans are also extended to technocrats who are unable to meet the normal margin requirements under the liberalized schemes. She also briefed that State Bank of India offers business loan to meet the varied needs of large business houses as well as Small and Medium Enterprises (SME).





### **25.03.2021:- Assessment of Trainees**

Trainees were assessed based on theory (35%) and practical (65%) with an in-house officer and an external examiner. Dr A. Balu, Retd.. Scientist evaluated the trainees as an external examiner and Dr J.P. Jacob, Scientist G F & Training in-charge functioned as the internal examiner. Practical assessment was carried out in the Entomology lab. Later written examination was conducted for theory assessment. All the trainees cleared the examinations both in theory and practical.



## **Valedictory function**

The valedictory function of the Certificate Course was held on 26.03.2021. Dr C Kunhikannan, Director IFGTB awarded certificates from the Union Ministry of Environment, Forest and Climate Change (MoEFCC) to the successful trainees. 15 trainees from different parts of the country successfully completed the training. Dr Kannan C. S. Warriar, Scientist F, Coordinator ENVIS and Nodal Officer GSDP proposed the vote of thanks and thanked MOEFCC & ENVIS Secretariat for sanctioning the certificate course to IFGTB ENVIS.











# **LIST OF PARTICIPANTS**



## Green Skill Development Programme (GSDP)

### Forest Entomology and Pest Control

Organized by

**ENVIS Resource Partner on Forest Genetic Resources and Tree Improvement**

**Institute of Forest Genetics and Tree Breeding**

**(Indian Council of Forestry Research and Education)**

**Coimbatore**

### FINAL LIST OF CANDIDATES

S. No	Name	Application ID	Gender	Community	State	D.O.B	Qualification	Contact no	Mail Id
SELECTED CANDIDATES									
1.	Anjaly Paul	ANJA21091996	Female	Gen	Kerala	21-09-1996	M.Sc Zoology	9048948850	<a href="mailto:anjalypaul12345@gmail.com">anjalypaul12345@gmail.com</a>
2.	Jishnu Lal M	JISH24121996	Male	SC	Kerala	24/12/1996	MSc Zoology	9645496554	<a href="mailto:jishnulalm1996@gmail.com">jishnulalm1996@gmail.com</a>
3.	Kanaga Lakshmi V	Kana22111996	Female	Gen	TN	22.11.1996	BSc Microbiology	8015000471	<a href="mailto:lijashini@gmail.com">lijashini@gmail.com</a>
4.	Kavi Malar S	Kavi21011997	Female	BC	TN	21.01.1997	BSc Botany	9600442097	<a href="mailto:kavimalarsuren@gmail.com">kavimalarsuren@gmail.com</a>
5.	Laxmi Kiruthika M	Laxm04061997	Female	BC	TN	04.06.1997	BSc Botany	8300038569	<a href="mailto:Manosavi2708@gmail.com">Manosavi2708@gmail.com</a>
6.	Lingeshwaran PK	LING20091997	Male	OBC	Tamil Nadu	20-09-1997	Msc Botany	9585353277	<a href="mailto:Lingeshpk97@gmail.com">Lingeshpk97@gmail.com</a>
7.	Logamuthu A	LOGA12031998	Male	OBC	Tamil Nadu	12-03-1998	MSc Botany	9042623648	<a href="mailto:Logamuthu1998@gmail.com">Logamuthu1998@gmail.com</a>
8.	Muthukaruppan P	muth02061998	Male	SC	TN	02.06.1998	MSc Botany	7010474026	<a href="mailto:p.m.karuppan1205@gmail.com">p.m.karuppan1205@gmail.com</a>
9.	Prajwal MP	PRAJ08041995	Male	Gen	Karnataka	08-04-1995	M.Sc Applied Botany	8073187688	<a href="mailto:reachbotany.in@gmail.com">reachbotany.in@gmail.com</a>
10.	Princy R	Prin26071998	Female	OBC	Kerala	26.07.1998	BSc Microbiology	9526898106	<a href="mailto:Princygrasp26@gmail.com">Princygrasp26@gmail.com</a>
11.	Rahul H	RAHU04071997	Male	OBC	Kerala	04-07-1997	Bsc Botany	7306596214	<a href="mailto:Rahulhari437@gmail.com">Rahulhari437@gmail.com</a>
12.	Rethi Shaliya A	A_Re2311199	Female	BC	TN	23.11.1999	BSc Biochemistry	9500473287	<a href="mailto:Rethisaliya231199@gmail.com">Rethisaliya231199@gmail.com</a>
13.	Shruthi A	SHRU07071997	Female	Gen	Kerala	07-07-1997	M.Sc Zoology	8075332796	<a href="mailto:shruthisnair.a@gmail.com">shruthisnair.a@gmail.com</a>
14.	Vidya Vasudevan	VIDH09041998	Female	OBC	Kerala	09-04-1998	M.Sc Zoology	9544347455	<a href="mailto:vidhyamalu1998@gmail.com">vidhyamalu1998@gmail.com</a>
15.	Vinutha Bai	Vinu20081995	Female	OBC	Karnataka	20.08.1995	MSc Env Science	8050396395	<a href="mailto:Vinutha20anup@gmail.com">Vinutha20anup@gmail.com</a>



# **OVERALL FEEDBACK BY THE TRAINEES**



## Green Skill Development Programme (GSDP)

Organized by

**ENVIS Resource Partner on Forest Genetic Resources and Tree Improvement**  
**Institute of Forest Genetics and Tree Breeding**  
 (Indian Council of Forestry Research and Education)  
**Coimbatore**

### EVALUATION REPORT BY THE PARTICIPANTS

*[Note: Please fill-in all the items in the reports, your objectivity will help us to make improvements in the future course(s)]*

1. Name of the Institution: **ENVIS RP, IFGTB, Coimbatore**
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- |   |    |
|---|----|
| 5. Is the curriculum discussed is relevant to the course?                     | 10 |
| 6. How useful were the lab sessions during this course?                       | 10 |
| 7. Did you get enough opportunities to interact with the fellow participants? | 10 |
| 8. How far have you been benefited from the lab session?                      | 10 |
| 9. Relevant hands on training provided during this course?                    | 10 |
| 10. To what extent are you satisfied with the following?                      |    |
| a. Transport facilities availed:  | 10 |
| b. Accommodation Facilities availed:  | 10 |
| d. Food quality and service:  | 10 |



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

*Insect collection & Pinning, Pheromones Techniques,*

12. Which parts of the course did you find least helpful?

*All parts of the course were very helpful to us.*

13. Your overall impression about the course?

*The course was very useful to us.*

14. What were the weaknesses of the course?

*No*

15. Any suggestions for how to improve the course?

16. Any other comments/observations/suggestions:

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

*Angaly Paul*  
*Angaly*  
(Name & signature of the participant)



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5. Is the curriculum discussed is relevant to the course? 10
6. How useful were the lab sessions during this course? 10
7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 10
9. Relevant hands on training provided during this course? 10
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 10



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

Practicals and field visits were very useful.

12. Which parts of the course did you find least helpful?

All the parts was very helpful. All were ~~for~~ provided lot of new informations.

13. Your overall impression about the course?

excellent

14. What were the weaknesses of the course?

No

15. Any suggestions for how to improve the course?

Increasing number of working days will be ~~more~~ more effective.

16. Any other comments/observations/suggestions:

No

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

JISHNU LAL M



(Name & signature of the participant)



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5. Is the curriculum discussed is relevant to the course? 9
6. How useful were the lab sessions during this course? 9
7. Did you get enough opportunities to interact with the fellow participants? 8
8. How far have you been benefited from the lab session? 10
9. Relevant hands on training provided during this course? 9
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 10



e. Lecture hall facilities:

9

f. Interaction with the faculty:

9

g. Lab facilities:

9

11. Which part of the course did you find most useful?

Biofertilizer / Biocontrol agents which I learned after coming to GSDP was very useful.

12. Which parts of the course did you find least helpful?

13. Your overall impression about the course?

I am highly satisfied with the course.

14. What were the weaknesses of the course?

you need training could have given about  
As, are it was GSDP - FEPC programme was too good.  
But if there was plant tissue culture techniques taught was less.

15. Any suggestions for how to improve the course?

GSDP can give training about PTE and QPMP  
near to FEPC student also. But I don't need it in  
too deep, at least you can cover those topics slightly.

16. Any other comments/observations/suggestions:

17. Your overall rating about ENVIS Resource Partner?

9

18. Your overall rating about IFGTB?

9

N. Kanaga lakshmi  
N. Kanaga lakshmi  
(Name & signature of the participant)



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6. How useful were the lab sessions during this course? 10
7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 10
9. Relevant hands on training provided during this course? 10
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 10



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

Plant quarantine and its fumigation

12. Which parts of the course did you find least helpful?

13. Your overall impression about the course?

The overall impression were very useful to become the pest analyst.

14. What were the weaknesses of the course?

15. Any suggestions for how to improve the course?

16. Any other comments/observations/suggestions:

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

S. Kulkarni  
(Name & signature of the participant)



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| 8. How far have you been benefited from the lab session?                      | 10 |
| 9. Relevant hands on training provided during this course?                    | 10 |
| 10. To what extent are you satisfied with the following?                      |    |
| a. Transport facilities availed:  | 10 |
| b. Accommodation Facilities availed:  | 10 |
| d. Food quality and service:  | 10 |



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

All the modules were pre planned & well scheduled to be very useful.

12. Which parts of the course did you find least helpful?

13. Your overall impression about the course?

This course is very relevant & i learnt a lot. Each & every faculties were teaching us on research level which was

14. What were the weaknesses of the course? very useful & helpful.

15. Any suggestions for how to improve the course?

16. Any other comments/observations/suggestions:

All our faculties, scholars, JRFs were very friendly & free to ask our doubts. They were focusing to give a lots & lots of information about the

17. Your overall rating about ENVIS Resource Partner?

10

course, which was very useful.

18. Your overall rating about IFGTB?

10

D. Laxmi Thiruthika.



(Name & signature of the participant)



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6. How useful were the lab sessions during this course? 9
7. Did you get enough opportunities to interact with the fellow participants? 9
8. How far have you been benefited from the lab session? 9
9. Relevant hands on training provided during this course? 9
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 9
  - b. Accommodation Facilities availed: 9
  - d. Food quality and service: 9



e. Lecture hall facilities:

9

f. Interaction with the faculty:

9

g. Lab facilities:

9

11. Which part of the course did you find most useful?

week are ~~I have~~ Find all the courses in this most useful.

12. Which parts of the course did you find least helpful?

I did not feel any course as least helpful.

13. Your overall impression about the course?

I have thoroughly enjoyed the course and learnt many new things and enhanced my skills

14. What were the weaknesses of the course?

I didn't find any weakness of the course.

15. Any suggestions for how to improve the course?

trips Instead of having the continuous trips, the have been arranged in weekly once it will be feel comfortable.

16. Any other comments/observations/suggestions:

No

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

P. K. Lingam  
(Name & signature of the participant)



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7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 10
9. Relevant hands on training provided during this course? 10
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 10



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

field trips

12. Which parts of the course did you find least helpful?

nothing

13. Your overall impression about the course?

good

14. What were the weaknesses of the course?

nothing . overall good.

15. Any suggestions for how to improve the course?

16. Any other comments/observations/suggestions:


NO

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

Alogamuthu   
(Name & signature of the participant)



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5. Is the curriculum discussed is relevant to the course? 10
6. How useful were the lab sessions during this course? 10
7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 09
9. Relevant hands on training provided during this course? 10
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 09



e. Lecture hall facilities:

10

f. Interaction with the faculty:

09

g. Lab facilities:

09

11. Which part of the course did you find most useful?

All sessions are very useful to all of us.

12. Which parts of the course did you find least helpful?

no comments.

13. Your overall impression about the course?

I am very much impressed by this course and I gain lot of knowledge from this course.

14. What were the weaknesses of the course?

No weakness but I expect viva at theory and practical session.

15. Any suggestions for how to improve the course?

No

16. Any other comments/observations/suggestions:

No

17. Your overall rating about ENVIS Resource Partner?

10

No

18. Your overall rating about IFGTB?

10

(Name & signature of the participant)

P. Muthukaruppu.



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6. How useful were the lab sessions during this course? 10
7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 10
9. Relevant hands on training provided during this course? 10
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 10



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

Phytochemistry

12. Which parts of the course did you find least helpful?

-

13. Your overall impression about the course?

Very Good

14. What were the weaknesses of the course?

-

15. Any suggestions for how to improve the course?

Everything was handled smoothly.

16. Any other comments/observations/suggestions:

No comments / observations / suggestions

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

Prajwal  
(Name & signature of the participant)  
Prajwal



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5. Is the curriculum discussed is relevant to the course?

10

6. How useful were the lab sessions during this course?

10

7. Did you get enough opportunities to interact with the fellow participants?

10

8. How far have you been benefited from the lab session?

10

9. Relevant hands on training provided during this course?

10

10. To what extent are you satisfied with the following?

a. Transport facilities availed:

10

b. Accommodation Facilities availed:

10

d. Food quality and service:

8



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

Entomo-pathology lab sessions and VAM fungi sections was good and many lectures was good

12. Which parts of the course did you find least helpful?

13. Your overall impression about the course?

It was good. Faculties were tried their hard to make the whole section useful for the participants and they took utmost care to comfort us all. Apart from that all the staffs

14. What were the weaknesses of the course?

of IFGTB, from security to the head of the institution were had a nice conversation and comforted us.

15. Any suggestions for how to improve the course?

16. Any other comments/observations/suggestions:

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10



(Name & signature of the participant)



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5. Is the curriculum discussed is relevant to the course? 09
6. How useful were the lab sessions during this course? 09
7. Did you get enough opportunities to interact with the fellow participants? 09
8. How far have you been benefited from the lab session? 08
9. Relevant hands on training provided during this course? 09
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 09
  - b. Accommodation Facilities availed: 08
  - d. Food quality and service: 08



e. Lecture hall facilities:

10

f. Interaction with the faculty:

09

g. Lab facilities:

09

11. Which part of the course did you find most useful?

Field practicals.

12. Which parts of the course did you find least helpful?

Nothing like that

13. Your overall impression about the course?

The course was so good

14. What were the weaknesses of the course?

I don't think so. No weaknesses in this course.

15. Any suggestions for how to improve the course?

include more forest visit

16. Any other comments/observations/suggestions:

No

17. Your overall rating about ENVIS Resource Partner?

09

18. Your overall rating about IFGTB?

10

Rahul. H

Rahul H

(Name & signature of the participant)



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5. Is the curriculum discussed is relevant to the course? 9
6. How useful were the lab sessions during this course? 9
7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 8
9. Relevant hands on training provided during this course? 9
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 9
  - d. Food quality and service: 8



e. Lecture hall facilities:

9

f. Interaction with the faculty:

8

g. Lab facilities:

9

11. Which part of the course did you find most useful?

Jacob sir classes, Bioprospecting class, useful Insect, TNPL visit, Phosamone class, Hands on training.

12. Which parts of the course did you find least helpful?

Visit to forest college, Trip along with QPMP & TS,

13. Your overall impression about the course?

It was very good.

14. What were the weaknesses of the course?

Didn't give schedule earlier, Way of treating (one or two staff), Food.

15. Any suggestions for how to improve the course?

might give information of schedule before.  
give some rest after trip.

16. Any other comments/observations/suggestions:


\* Treat equal as your staff.  
\* Try not to be rude & partial.

17. Your overall rating about ENVIS Resource Partner?

8

18. Your overall rating about IFGTB?

10

  
Rethi Shalika A.  
(Name & signature of the participant)



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7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 10
9. Relevant hands on training provided during this course? 10
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 10



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

Insect collection & pinning, pheromone techniques, Microbial control of pest.

12. Which parts of the course did you find least helpful?

13. Your overall impression about the course?

It was so useful, the hands on training was so good and it was a new experience.

14. What were the weaknesses of the course?

15. Any suggestions for how to improve the course?

Up to forests

16. Any other comments/observations/suggestions:

No

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

SHRUTHI.A 

(Name & signature of the participant)



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6. How useful were the lab sessions during this course? 10
7. Did you get enough opportunities to interact with the fellow participants? 10
8. How far have you been benefited from the lab session? 10
9. Relevant hands on training provided during this course? 10
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 10
  - b. Accommodation Facilities availed: 10
  - d. Food quality and service: 10



e. Lecture hall facilities:

10

f. Interaction with the faculty:

10

g. Lab facilities:

10

11. Which part of the course did you find most useful?

*Insect Collection pinning and preservation, Pheromone ~~assays~~, technique.*

12. Which parts of the course did you find least helpful?

*No.*

13. Your overall impression about the course?

*The Course was very useful, it helps me to understand more about entomology.*

14. What were the weaknesses of the course?

*No.*

15. Any suggestions for how to improve the course?

*No.*

16. Any other comments/observations/suggestions:

*No.*

17. Your overall rating about ENVIS Resource Partner?

10

18. Your overall rating about IFGTB?

10

*Vidhya Varadachari Vidhya*  
(Name & signature of the participant)



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Coimbatore

### EVALUATION REPORT BY THE PARTICIPANTS

[Note: Please fill-in all the items in the reports, your objectivity will help us to make improvements in the future course(s)]

1. Name of the Institution: **ENVIS RP, IFGTB, Coimbatore**
2. Title of the Course: **'Forest Entomology and Pest Control'**
3. Duration & Period of the course: **27 days (22.02.2021 to 26.03.2021)**

**Points : 10 for very well structured to 00 for very unstructured [10 (highest) to 00 (lowest)]**

5. Is the curriculum discussed is relevant to the course? 9
6. How useful were the lab sessions during this course? 9
7. Did you get enough opportunities to interact with the fellow participants? 9
8. How far have you been benefited from the lab session? 9
9. Relevant hands on training provided during this course? 9
10. To what extent are you satisfied with the following?
  - a. Transport facilities availed: 9
  - b. Accommodation Facilities availed: 9
  - d. Food quality and service: 9



e. Lecture hall facilities:

9

f. Interaction with the faculty:

9

g. Lab facilities:

9

11. Which part of the course did you find most useful?

- Field trip to Potato research institute, ooty
- Insect collect, field trip, Pheromone clan, Apiculture Sericulture field trip
- Green tech, TNAU field trip, museum, Teak museum

12. Which parts of the course did you find least helpful?

the banking and ~~loan~~ loan was least helpful. as the teacher was repeating the same concept again and again without explaining schemes properly.

13. Your overall impression about the course?

very informative, eye opener, gave showed me the importance of insects and role in environment.

14. What were the weaknesses of the course?

Continuous trip has at the end of the course has made it too packed schedule and unstable.

15. Any suggestions for how to improve the course?

There has to be more hands on training in managing the bees and silkworm.

16. Any other comments/observations/suggestions:

- The Banking schemes for rural areas should ~~be~~ have been given more time.
- More practical skills should be provided.

17. Your overall rating about ENVIS Resource Partner?

8

18. Your overall rating about IFGTB?

8

  
Vinutha Bai

(Name & signature of the participant)