

**CSIR - INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY,
PALAMPUR**

TRAINING MODULES (FY 2011-12)

Schedule of the trainings to be conducted during the financial year 2011-12 are given under this section. Training programmes are conducted at-campus and off-campus by the different divisions of the Institute under control of the designated coordinator/scientist. Therefore, contact detail is given at top of the each table containing the schedule pertaining to a particular division.

Hill Area Tea Science Division

Contact: Er. K.K. Singh, Scientist, Hill Area Tea Science Division

Table 1(a)

S. N.	Title of training	Venue of Training	Training date	No of participants	Name of training coordinator
1	Machine preparation safety features and tea leaf harvesting	Dharmshala area	April - October, 2011	20 visit (30 participants)	K.K. Singh & V.S Dhadwal
2	Machine preparation safety features and tea leaf harvesting	Palampur area	April - October, 2011	20 visit (30 participants)	K.K. Singh & V.S Dhadwal
3	Machine preparation safety features and tea leaf harvesting	Bir area	April - October, 2011	5 visit (10 participants)	K.K. Singh & Kushal Chand
4	Machine preparation safety features and tea leaf harvesting	Baijnath area	April - October, 2011	10 visit (15 participants)	K.K. Singh & Kushal Chand
5	Lane preparation, Safety precaution of machine and tea skiffing and LP, MP, DP and Rejuvenation pruning	Bir area	November, 2011 to March, 2012	10 visit (10 participants)	K.K. Singh & Kushal Chand
6	Lane preparation, Safety precautions of machine and tea skiffing and LP, MP, DP and Rejuvenation pruning	Baijnath area	November, 2011 to March, 2012	10 visit (20 participants)	K.K. Singh & Kushal Chand
7	Lane preparation, Safety precaution of machine and tea skiffing and LP, MP, DP and Rejuvenation pruning	Dharmshala area	November, 2011 to March, 2012	15 Visit (20 participants)	K.K. Singh & V.S Dhadwal
8	Lane preparation, Safety precaution of machine and tea skiffing and LP, MP, DP and	Palampur area	November, a 2011 to March, 2012	15 Visit (20participants)	K.K. Singh & V.S Dhadwal

Rejuvenation pruning				
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Division: Hill Area Tea Science Division

Contact: Dr. R.K. Sud, Scientist 01894-233340 & Dr Arvind Gulati, Head 01894-230454

Training Coordinator: Dr. R.K. Sud

Team members: Head, Scientists and staff of HATS Division

Table 1(b)

Title of training	Venue of Training	Training date
1. Tea plantation management strategies for the first flush quality tea production	Palampur & Dharmshala Zones Bajjnath & Bir Zones	April-May (1-days each)
2. Modern concepts in tea plantation management and processing (Partly funded by State Agri. Deptt.)	IHBT	April-May (2-days)
3. Training of staff of Technical Officer (Tea) on advances in tea plantation management practices (Partly funded by State Agri. Deptt.)	IHBT	April-May (3-days)
4. Training programme-cum-discussion on production of quality tea in monsoon flush	Palampur & Dharmshala Zones Bajjnath & Bir Zones	June-July (1-days each)
5. Efficient management of weeds and blister blight disease in tea plantation	Palampur & Dharmshala Zones Bajjnath & Bir Zones	July-August (1-days each)
6. Tea garden management practices for efficient management of back-end flush	Palampur & Dharmshala Zones Bajjnath & Bir Zones	September-October (1-days each)
7. Formulation of pruning cycles for higher production and better quality of tea	Palampur & Dharmshala Zones Bajjnath & Bir Zones	November-December (1-days each)
8. Nutritional management for improving productivity and quality of Kangra tea	Palampur & Dharmshala Zones Bajjnath & Bir Zones	February-March (1-days each)

Contact: Dr. H.P. Singh, Scientist, Hill Area Tea Science Division

Table 1(c)

Title of training	Category of participants	Venue of Training	Training date
A one day training on tea wine making	Retired defence staff, women and unemployed youth	IHBT Palampur	Around mid June, 2011

Biodiversity-Division**Contact: Dr. R.D. Singh, Scientist & Head, Biodiversity Division****Table 2**

Title of training programme	Date(s) and place of the training	Types of trainees	No. of trainees	Training duration (days)
Cultivation of <i>Curcuma</i> and <i>Hedychium</i> in forestry/agro-forestry system Coordinator: Dr. R.D. Singh	October, 2011 at IHBT, Palampur	Farmers and forest personnel from Chamba and Kangra districts	20	2 days
Harvesting and replanting of <i>Hedychium</i> in forestry system Coordinator: Dr. R.D. Singh	December, 2011 at the Demonstration Plot at Dhargala, Salooni, Chamba	Farmers and forest personnel from Chamba	20	1 day

Division of Natural Plant Product**Contact: Concerned Coordinator/ Head, Natural Plant Product****Table 3**

Course title	Category of participants	No. of participants	Courses duration (date & days)	Course fee (Rs./ participants)
Off-campus training on cultivation of medicinal and aromatic plants Coordinator: Dr. Virendra Singh	Local growers and entrepreneurs interested in cultivation in H.P.	35-50 (3 trainings each of 1 day as per need in different places)	Feb, 2012, June, 2011 and Nov, 2011	Free for registered growers with IHBT from Himachal Pradesh
Open Damask rose field day at IHBT Palampur Coordinator: Dr. Virendra Singh	Local area farmers, Jakhani and Gopalpur Farmers' Aromatic Plant Cluster	Open to all	April 27-28, 2011	Open access through pre-registration
Cultivation & distillation of aromatic crops and Stevia farming (relevant quality control is integral part of the course) Coordinator: Dr. Virendra Singh	Training for growers and entrepreneurs	20-25	May 2-4, 2011	5000/- (Self financed)

Extraction, fractionation, isolation and quality evaluation of bio-active constituents in medicinal, aromatic and dye plants Coordinator: Dr. A.K.Sinha	Training for academia, professional, technicians, industries and entrepreneurs	10-15	January 2012 (6 days)	10,000/- (Self financed)
Propagation and plantation establishment of medicinal, aromatic and dye plants in fields and forests/cold desert of Himalayan region and their processing Coordinator: Dr. Virendra Singh	Progressive growers, extension workers, trainers, foresters and representative of NGO's involved in sustainable utilization of biodiversity	20-22	February 2012 (6 days)	8,000/- (Self financed) Sponsors are welcome along with budget provision
Propagation, cultivation, processing, quality control and market linkages of medicinal, aromatic and dye plants Coordinator: Dr. Virendra Singh	Training for progressive growers, extension workers, trainers and entrepreneurs	20-22	March 2012 (6 days)	8,000/- (Self financed)
Medicinal & Aromatic Plants (Cultivation, processing, post harvest management, quality controls, storage of materials and MAP Crop waste management) Coordinator: Dr. Virendra Singh	Growers, producers, beneficiaries and field staff of various line departments (Centre & State govt. funded projects)	20-25	November 2011 (5 days)	Expression of interest is sought along with budget provision
Green-house cultivation, plant propagation and plantation establishment of medicinal, aromatic and new crops Coordinator: Dr. Virendra Singh	Farmers, foresters and representative of NGO's involved in sustainable utilization of biodiversity	20-25	October/ November 2011 (5 days)	Expression of interest is sought along with budget provision from interested agencies

Division of Floriculture**Contact: Concerned Coordinator/ Head, Floriculture Division****Table 4**

Course title	Category of participants	No. of participants	Courses duration (date & days)	Course fee (Rs./ participants)
Demonstration - cum-training programme on cut flower production technology of commercially important floricultural crops Coordinator: Dr. Markandey Singh	Farmer/flower growers and flower traders	30-35	3 days training; one in December 2011 and another in February 2012	Free for registered flower growers with IHBT from Himachal and Rs. 4000/- for others
Demonstration - cum-training programme on cut flower production technology of commercially important floricultural crops Coordinator: Dr. Markandey Singh	Growers, producers, beneficiaries and field staff of various line departments (Centre & State govt. funded projects)	30-35	3 days training on mutually agreeing dates	Expression of interest is sought along with budget provision from interested agencies
Viral diseases management in apple orchards Coordinator: Dr. Vipin Hallan	Apple orchardists, nurserymen, staff from state horticulture department	18-20	2 days training during June, 2011	Free for registered fruit growers with IHBT from Himachal and Rs. 3000/- for others
Training on Virus tested planting material production technology for apple, plum and cherry Coordinator: Dr. Vipin Hallan	Orchardists, nurserymen, staff from state horticulture department	18-20	October, 2011 (2 days)	Free for registered fruit growers with IHBT from Himachal and Rs. 3000/- for others

Division of Biotechnology**Contact: Concerned Coordinator/ Head, Biotechnology Division****Table 5**

Course title	Category of participants	No. of participants	Courses duration (date & days)	Course fee (Rs./ per head)
Methods in gene expression analysis Coordinator: Dr. Sanjay Kumar	Scientists/ Technical officers/ Students of Biotechnology	5	2 weeks November	Rs. 35,000/-
Proteomics – A tool for protein characterization Coordinator: Dr. Sanjay Kumar	Scientists/ Technical officers/ Students of Biotechnology	5	3 days December	Rs. 32,500/-
<i>Agrobacterium</i> mediated genetic transformation Coordinator: Dr. Sanjay Kumar	Students/ scholars of Biotechnology	10	1 week August	Rs. 10,000/-
DNA fingerprinting Coordinator: Dr. R.K. Sharma	Industry/ students of Biotechnology	2	3 weeks January	Rs. 15,000/-
Plant Tissue Culture Coordinator: Dr. Anil Sood	Young entrepreneurs, students, officials of Horticulture/ Forest department	20-25	2 weeks Sept. 2 nd Week	Rs. 10,000/-
Protein analysis by PAGE Coordinator: Dr. Sudesh Yadav	Scientists/ Technical officers/ Students of Biotechnology	5	1 week August	Rs. 20,000/-
Production of secondary metabolites through plant cell culture Coordinator: Dr. Madhu Sharma	Scientists/Technician/ Scholars from Industry & Academia	10	2 weeks January	Rs. 10,000/-
Confocal microscopy Coordinator: Dr. Y. Sreenivasulu	Students	5	1 week October	Rs. 5,000/-
Methods of bamboo propagation Coordinator: Dr. Anil Sood	Forest officials/ farmers	20-25	3 days April	Rs. 5000/-
Growing Orchids Coordinator: Dr. Madhu Sharma	Students/ hobbyists/ nursery people	10-15	2 weeks June / July	Rs. 10,000/-
Bamboo charcoal manufacture Coordinator: Dr. Anil Sood	Farmers/ foresters	15-20	3 days November	Rs. 5,000/-

Division of PPME

Contact: Concerned Coordinator/ Head, PPME Division

Table 7

Course title	Category of participants	No. of participants	Courses duration (date & days)	Course fee (Rs./ participants)
IPR and Innovation management Coordinator: Dr. Anil Sood	Innovators, academicians, students, managers and hobbyists	30-35	November, 2011 (2 days)	Rs. 2,000/-

Please note: At least 50% enrollment for participation in a particular batch is essential to conduct any of the training. Terms and conditions are applied.

For any further information, please contact concerned Coordinator/ Head of Division or Dr. Virendra Singh, Scientist F & Coordinator, Rural Development, Phone: 01894-231039, FAX No.: 01894-230433, 230428; Email: virendrasingh@ihbt.res.in