# Final Report

## Training Programme

## on

## Recent Technological Advancements in Horticulture and Forest Crops

## from

## 23rd to 30th December, 2022

***organized by***

**Department of Biotechnology,**
**College of Horticulture, Dr YSPUHF Solan**

***in collaboration with***

**Sophisticated Analytical Instrumentation Facility, Panjab University, Chandigarh**

***under the aegis of***

**Synergistic Training Program Utilizing The Scientific and Technological Infrastructure (STUTI)**

**Course Director: Dr Rajnish Sharma**
**Course Coordinator: Dr Pankaj Kumar**

**Chief Patron**
Prof. Rajeshwar Singh Chandel
Hon'ble Vice Chancellor
Dr YSP UHF Solan (HP)

**STUTI Program Coordinator**
Prof. G.R. Chaudhary
Director SAIF/CIL, PU,Chandigarh (Punjab)

**Course Director**
Dr Rajnish Sharma
Associate Professor & Head
Dept. of Biotechnology
Dr YSP UHF Solan (HP)

**Course Coordinator**
Dr Pankaj Kumar
Assistant Professor
Dept. of Biotechnology
Dr YSP UHF Solan (HP)

**Advisors**

1. Dr Sanjeev Kumar, Director of Research, Dr YSPUHF,Solan
2. Dr Inder Dev, Director of Extension Education, Dr YSPUHF, Solan
3. Dr Manish Kumar, Dean, College of Horticulture, Dr YSPUHF, Solan
4. Dr C L Thakur, Dean, College of Forestry, Dr YSPUHF,Solan

**Course Co-Coordinators**

**1.** Dr Manisha Thakur
Associate Professor, Department of Biotechnology, Dr YSPUHF,Solan

**2.** Dr Sneh Sharma
Associate Professor, Department of Biotechnology, Dr YSPUHF,Solan

**3.** Dr Anupama Singh
Assistant Professor, Department of Biotechnology, Dr YSPUHF,Solan

**4.** Dr Parul Sharma
Assistant Professor, Department of Biotechnology, Dr YSPUHF,Solan

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

**Training Programme**
**on**
**"Recent Technological Advancements in Horticulture and Forest Crops"**
**From 23rd to 30th December, 2022**
**General overview of selected participants**

**Total application received = 182**
**Total selected participant = 30**

| **Male** | **Female** |
|---|---|
| Gen= 08 | Gen= 09 |
| SC=02 | SC= 02 |
| ST=01 | ST=03 |
| OBC=01 | OBC= 04 |
| **Total = 12** | **Total = 18** |

**Faculty = 03 (02M, 01F)**
**Project Fellow = 02 (01M, 01F)**
**Ph.D. scholar = 24 (08 M, 16F)**
**Entrepreneur = 01 (01M)**

**State Covered = 13**
**State wise participants**

1. Gujarat = 01
2. Haryana = 02
3. Himachal Pradesh = 07
4. Jammu and Kashmir = 02
5. Madhya Pradesh = 01
6. Maharashtra = 01
7. Mizoram = 02
8. Punjab = 01
9. Rajasthan = 04
10. Tamil Nadu= 01
11. Telangana = 01
12. Uttar Pradesh = 01
13. Uttarakhand = 06

**Total = 30**

**Streams Covered = 14**
**Stream wise participants**

1. Ag. (Forestry) = 04
2. Ag. (Horticulture) = 01
3. Agri Biotechnology = 02
4. Biochemistry = 03
5. Botany = 03
6. Environmental Science = 01
7. Entomology = 02
8. Fruit Science = 05
9. Forest Genetics = 01
10. Genetics and Plant Breeding = 02
11. Geology = 01
12. Microbiology =01
13. Silviculture and Agroforestry = 02
14. Vegetable Science = 02

**Total = 30**

## About Host Institute

Dr Yashwant Singh Parmar University of Horticulture and Forestry, Solan, was established on 1st December, 1985 with an objective to promote education, research and extension education in the fields of horticulture, forestry and allied disciplines. The University has four constituent colleges:

1. College of Horticulture, Nauni, Solan
2. College of Forestry, Nauni, Solan
3. College of Horticulture & Forestry, Neri, Hamirpur
4. College of Horticulture & Forestry, Thunag, Mandi

## Department of Biotechnology

- The department of Biotechnology was established in the year 1987 with the mandate of teaching, research and extension activities with respect to crop improvement through biotechnological tools.
- Department has well-equipped laboratories for plant biotechnology and molecular biology research work.
- Department of Biotechnology received Fund for Improvement of S&T Infrastructure (FIST) Support from DST, India in the year 2010.

# List of selected participants

| Sr.no | Name | Designation | Qualifications | University | State/UT | Email |
|---|---|---|---|---|---|---|
| 1 | Deepti Padmanbhan | Ph.D Scholar | M.Sc. Biochemistry | SRM Institute of Science and Technology | Tamil Nadu | deepthipadmanabhan2010@gmail.com |
| 2 | Abishek Nongtri | Ph.D Scholar | M.Sc Enivironmental Science | Mizoram University, Aizawl | Mizoram | nongtriabi18@gmail.com |
| 3 | Nitin Satyapal Patil | Ph.D Scholar | M.Sc. Vegetable Science | Mahatma Phule Krishi Vidyapeeth Rahuri | Maharashtra | nitinpatil716@gmail.com |
| 4 | Dr Sukhjinder Singh | Research Associate | Ph.D Fruit Science | Punjab Agricultural University | Punjab | sukhjinder-fs@pau.edu |
| 5 | Hitesh Gupta | Ph.D Scholar | M.Sc. Agroforestry | College of Forestry Ranichauri, Garhwal | Uttrakhand | hitesh721998@gmail.com |
| 6 | Garima Thapliyal | Ph.D Scholar | M.Sc. Biotechnology | Forest Research Institute | Uttarakhand | gari6666thapliyal@gmail.com |
| 7 | Dr Suresh Kumar | Assistant Professor | Ph.D Forestry | Mizoram University, Aizawl | Mizoram | sureshuhf@gmail.com |
| 8 | Sonam Sihag | Ph.D Scholar | Msc. Biochemistry | CCS Haryana Agricultural University, Hisar | Haryana | sonamsihag0711@gmail.com |
| 9 | Pooja Devi Meena | Ph.D Scholar | M.Sc. Ag. (Horticulture) | Rajasthan Agricultural Research Institute | Rajasthan | poojameena480@gmail.com |
| 10 | Jyoti Sharma | Ph.D Scholar | M.Sc. Ag. (Entomology) | JAU, Junagarh | Gujarat | jyotisharmajs6608@gmail.com |
| 11 | Amnadeep Dogra | Ph.D Scholar | M.Sc. Botany | Central University of Himachal Pradesh | Himachal Pradesh | geetdogra.dogra@gmail.com |
| 12 | Rimpee Garg | Ph.D Scholar | M.Sc. (Forest Genetics) | Forest Research Institute | Uttrakhand | gargrimpee@gmail.com |
| 13 | Himani Panwar | Ph.D Scholar | M.Sc. Microbiology | Gurukul Kangri University | Uttarakhand | himanipanwar1012@gmail.com |
| 14 | Anita | Ph.D Scholar | M.Sc Ag. (Genetics and Plant Breeding) | Sri Karan Narendra Agriculture University, Jobner | Rajasthan | akhedar1993@gmail.com |
| 15 | Vinay Sharma | Ph.D Scholar | M.Sc. Agri | ICRISAT Hyderabad | Telangana | vinaysharma965@gmail.com |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | Biotechnology | | | |
| 16 | Mandeep Rawat | Ph.D Scholar | M.Sc. Horticulture (Fruit Science) | G.B. Pant University of Agriculture and Technology | Uttarakhand | mandeeprawat107@gmail.com |
| 17 | Subhasmita Partda | Ph.D Scholar | M.Sc. Forestry (Silviculture and Agroforestry) | JNKV, Jabalpur | Madhya Pradesh | luckybiswal19@gmail.com |
| 18 | Priyesh Verma | Ph.D Scholar | M.Sc. Ag. (PBG) | Rajasthan Agricultural Research Institute | Rajasthan | priyesh.verma93@gmail.com |
| 19 | Dr Anshul Kumar | Assistant Professor | Ph.D (Fruit Science) | Shoolini University | Himachal Pradesh | anshulmachhan41@gmail.com |
| 20 | Nitika Negi | Ph.D Scholar | M.Sc. Ag. (Entomology) | CSKHPKV | Himachal Pradesh | nitikanegi179@gmail.com |
| 21 | Varsha Singh | Ph.D Scholar | M.Sc. Botany | D.A.V College Civil Lines | Uttar Pradesh | singhvarsha1602@gmail.com |
| 22 | Sonali Chaudhary | Ph.D Scholar | M.Sc. Fruit Science | Sri Karan Narendra Agriculture University, Jobner | Rajasthan | sonalichaudhary894@gmail.com |
| 23 | Girish | Ph.D Scholar | M.Sc. Fruit Science | Dr YSPUHF, Nauni Solan HP | Himachal Pradesh | girishdangi3373@gmail.com |
| 24 | Surbhi Sahewalla | Ph.D Scholar | M.Sc Ag. (Biochemistry) | CCS Haryana Agriculture University | Haryana | surbhisahewalla04@gmail.com |
| 25 | Naresh Singh | Ph.D Scholar | M.Sc. Forestry | College of Forestry Ranichauri, Garhwal | Uttrakhand | tariyalson012@gmail.com |
| 26 | Dr Neena Kashyap | Assistant Professor | Ph.D Forestry | Dr YSPUHF, Nauni Solan HP | Himachal Pradesh | neenak.kashyap@gmail.com |
| 27 | Unshani Daryal | Ph.D Scholar | M.Sc. Forestry | S.K.U.A.S.T | Jammu and Kashmir | unshanidaryal@gmail.com |
| 28 | Dr Menisha Rani | Project Fellow | Ph.D Vegetable Science | S.K.U.A.S.T | Jammu and Kashmir | menisha-vs@pau.edu |
| 29 | Purnima Sharma | Ph.D Scholar | M.Phil. Botany | Central University, Himachal Pradesh | Himachal Pradesh | purusharma184@gmail.com |
| 30 | Ankit Shandil | Entrepreneur | M.Sc Geology | Shandil Plantech Pvt. Ltd | Himachal Pradesh | shandilankit999@gmail.com |

| **Training Schedule** | | |
|---|---|---|
| **Day 1 (23.12.2022) Friday** | | |
| **Time** | **Schedule** | **Resource person** |
| 10.00 AM-10.30 AM | Registration | |
| 10:30 AM-10.45 AM | Welcome and Inauguration | **Dr Rajnish Sharma** |
| 10:45 AM -11:00 AM | VC inaugural address | **Hon'ble VC** |
| 11:00 AM-11:30 AM | Address regarding STUTI and Vote of Thanks | **Prof. GR Chaudhary** |
| **High Tea** | | |
| 12:00 PM-1:00 PM | Germplasm characterization and conservation in horticultural and forest crops through biotechnological approaches | **Dr Rajnish Sharma** |
| 2:00 PM-5.00 PM | Hands on training on molecular diversity analysis | **Dr Rajnish Sharma/ Dr Pankaj Kumar** |
| **Day 2 (24.12.2022) Saturday** | | |
| 10:00 AM-11:30 AM | Innovative techniques for increasing temperate fruit crop production | **Dr DP Sharma** |
| 11:30 AM- 1:00 PM | Micropropagation of commercially important horticulture crops | **Dr Sneh Sharma** |
| 2:00 PM- 5:00 PM | Exposure visit to high density plantation apple orchards and model farm | **Dr DP Sharma** |
| **Sunday (25.12.2022) – Holiday** | | |
| **Day 3 (26.12.2022) Monday** | | |
| 10:00 AM-11:30AM | *In vitro* mutagenesis: applications in crop improvement | **Dr Manisha Thakur** |
| 11:30 AM-1:00 PM | Genome editing applications in horticulture and forest crop improvement | **Dr Parul Sharma** |
| 2:00 PM-5: 00 PM | Hands on training on plant tissue culture/micropropagation of horticulture and forest crops | **Dr Manisha Thakur/ Dr Parul Sharma** |
| **Day 4 (27.12.2022) Tuesday, RHRTS, Mashobra** | | |
| 10:30 AM-12:30 AM | Impact on horticultural crop production *vis-a-vis* diversification of fruit crop species and varieties in relation to climate change | **Dr DS Thakur** |
| 2:00 PM-5:00 PM | Exposure visit to different research technologies of Regional Horticultural Research & Training Station (RHRTS) | **Dr DS Thakur** |
| **Day 5 (28.12.2022) Wednesday** | | |
| 10:00 AM-11:30 AM | Post-harvest management and value addition of medicinal and aromatic plants | **Dr YP Sharma** |
| 11:30 AM-1:00 PM | Recent advancement in analytical techniques in medicinal and aromatic plants | **Dr Rohit Sharma** |
| 2:00 PM-5: 00 PM | Exposure visit to agri-incubation center cum fields of medicinal and aromatic plants | **Dr YP Sharma/ Dr Rohit Sharma** |
| **Day 6 (29.12.2022) Thursday** | | |
| 10:00 AM-11:30 AM | Genome wide association studies and genomic selection for genetic improvement of horticulture crops | **Dr Salej Sood** |
| 11:30 AM-1:00 PM | Genetic engineering strategies for stress | **Dr Anupama Singh** |

| | | |
|---|---|---|
| | tolerance in horticulture and forest crops | |
| 2:00 PM-5: 00 PM | Primer design, standalone blast and GWAS analysis in R | **Dr Salej Sood/ Dr Anupama Singh** |
| **Day 7 (30.12.2022) Friday** | | |
| **10:00 AM-10:45 AM** | Conservation of endangered medicinal plants of north- western himalayan region using biotechnological approaches | **Dr Pankaj Kumar** |
| **10:45 AM-11:30 PM** | Natural farming as sustainable solution for food and nutritional security | **Dr Subhash Verma** |
| **12:00 PM-1: 00 PM** | Handling and use of electron microscope | **Dr Moondeep Chauhan SAIF/CIL, PU, Chandigarh** |
| **2:00 PM-5:00 PM Valedictory function and certificate distribution** | | |
| ***Lunch Break (23.12.2022-30.12.2022): 1.00 PM – 2.00 PM** | | |

# Topics Covered

## Lectures

1. **Germplasm characterization and conservation in horticultural and forest crops through biotechnological approaches**
2. **Innovative techniques for increasing temperate fruit crop production**
3. **Micropropagation of commercially important horticulture crops**
4. ***In vitro* mutagenesis: applications in crop improvement**
5. **Genome editing applications in horticulture and forest crop improvement**
6. **Natural farming as sustainable solution for food and nutritional security**
7. **Impact on horticultural crop production visa-vis diversification of fruit crop species and varieties in relation to climate change**
8. **Recent advancement in analytical techniques in medicinal and aromatic plants**
9. **Genome wide association studies and genomic selection for genetic improvement of horticulture crops**
10. **Genetic engineering strategies for stress tolerance in horticulture and forest crops**
11. **Conservation of endangered medicinal plants of north- western Himalayan region using biotechnological approaches**
12. **Handling and use of electron microscope**

# Topics Covered

## Lab./ Field visits

1. **Exposure visits to high-density plantation apple orchards and hands-on practical training on training and pruning system.**
2. **Exposure visit to the university SPNF field**
3. **Exposure visits to different research technologies of Regional Horticultural Research & Training Station (RHRTS), Mashobra**
4. **Hands-on training on plant tissue culture/micropropagation of horticulture and forest crops**
5. **Hands-on training on primer design, standalone blast and GWAS analysis in R**
6. **Exposure visits to Agri-incubation center cum fields of medicinal and aromatic plants**
7. **Exposure visits to advance molecular virology diagnostics lab and Electron microscope facility**
8. **Exposure visits to university Hi-Tech Soil Health Lab**
9. **Exposure visits to university Hi-Tech Pesticide Residue Laboratory**
10. **Exposure visits to university Floriculture field and Floral Craft Laboratory**
11. **Exposure visits to Agri-incubation center of Fruit & Vegetable Processing and *Bakery* Products**
12. **Hands-on training on molecular diversity analysis**

# Media Coverage

दैनिक जनकाल संदेश

आस

## बागवानी और वन फसलों में उन्नति पर प्रशिक्षण कार्यक्रम

जनकाल संदेश

**सोलन।** डॉ. यशवंत सिंह परमार औद्यानिकी एवं वानिकी विश्वविद्यालय, नौणी में बागवानी और वन फसलों में हालिया तकनीकी प्रगति पर सात दिवसीय प्रशिक्षण कार्यक्रम संपन्न हुआ। प्रशिक्षण का आयोजन विश्वविद्यालय के बायोटेक्नोलॉजी विभाग द्वारा परिष्कृत विश्लेषणात्मक उपकरण सुविधा, पंजाब विश्वविद्यालय, चंडीगढ़ के सहयोग से स्तुति कार्यक्रम के तत्वावधान में किया गया।

प्रशिक्षण में मिजोरम, तेलंगाना, तमिलनाडु, महाराष्ट्र, गुजरात, मध्य प्रदेश, राजस्थान, हरियाणा, पंजाब, उत्तर प्रदेश, उत्तराखंड और हिमाचल प्रदेश के फैकल्टी, प्रोजेक्ट फेलो, पीएचडी स्कॉलर्स और उद्यमियों सहित 30 प्रतिभागियों ने हिस्सा लिया। प्रतिभागी वानिकी, बागवानी, जैव रसायन, वनस्पति विज्ञान, पर्यावरण विज्ञान, कीट विज्ञान, फल विज्ञान, वन आनुवंशिकी, आनुवंशिकी और पादप प्रजनन, भूविज्ञान, सूक्ष्म जीव विज्ञान, पादप रोग विज्ञान, वनस्पति विज्ञान, सिल्वीकल्चर और कृषि वानिकी और जैव प्रौद्योगिकी जैसे विभिन्न विषयों से थे।


समापन सत्र में कुलपति प्रो. राजेश्वर सिंह चंदेल ने प्रशिक्षुओं से कहा कि वे अपने शोध को उत्पादक मुद्दों से जोड़ने की दिशा में काम करें। उन्होंने कहा कि हमें कई प्रजातियों को लुप्तप्राय सूची से बाहर लाने में मदद करने के लिए विश्लेषणात्मक तकनीकों का उपयोग करने के प्रयास करने चाहिए। प्रो. चंदेल ने विश्वविद्यालयों के बुनियादी अनुसंधान ढांचे के आधुनिकीकरण में डीएसटी की भूमिका की भी सराहना की।

बायोटेक्नोलॉजी विभाग के विभागाध्यक्ष डॉ. रजनीश शर्मा ने बताया कि प्रशिक्षुओं के लिए 14 विशेषज्ञ व्याख्यान के माध्यम से जननद्रव्य लक्षण वर्णन, पौधों के आनुवंशिक संसाधनों के संरक्षण और उपयोग और व्यावहारिक प्रशिक्षण आयोजित किया गया। इस अवसर पर अनुसंधान निदेशक डॉ. संजीव चौहान ने भारतीय कृषि की प्रगति और इसकी वर्तमान चुनौतियों पर भी बात की।

यह प्रशिक्षण कार्यक्रम विभिन्न हालिया दृष्टिकोणों पर केंद्रित था जिनका उपयोग बागवानी और वन फसलों में किया जा रहा है। इस अवसर पर उद्यानिकी महाविद्यालय के अधिष्ठाता डॉ. मनीष शर्मा, वानिकी महाविद्यालय के अधिष्ठाता डॉ. सीएल ठाकुर, जैव प्रौद्योगिकी विभाग और स्तुति के संकाय सदस्य भी उपस्थित थे। प्रशिक्षण के दौरान एक संग्रह का विमोचन भी किया गया। प्रोफेसर चंदेल ने प्रतिभागियों को प्रमाण पत्र भी वितरित किए।

हिमाचल न्यूज

देश राज्य हिमाचल राजनीति इन्टरव्यू पर्यटन मेरा गांव मेरी पंचायत मैं भी रिपोर्टर देवलोक करियर संस्कृति ज्ञानकोश ज्योतिष अन्य ई पेपर

देश |

## नौणी में बागवानी और वन फसलों में उन्नति पर प्रशिक्षण कार्यक्रम, 13 राज्यों के प्रतिभागी हुए शामिल

हिमाचल न्यूज : सोलन | December 31, 2022 05:46 PM

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**हिमाचल न्यूज** | डॉ. यशवंत सिंह परमार औद्यानिकी एवं वानिकी विश्वविद्यालय, नौणी में बागवानी और वन फसलों में हालिया तकनीकी प्रगति पर सात दिवसीय प्रशिक्षण कार्यक्रम शुक्रवार शाम को संपन्न हुआ। प्रशिक्षण का आयोजन विश्वविद्यालय के बायोटेक्नोलॉजी विभाग द्वारा परिष्कृत विश्लेषणात्मक उपकरण सुविधा, पंजाब विश्वविद्यालय, चंडीगढ़ के सहयोग से स्तुति कार्यक्रम के तत्वावधान में किया गया।

प्रशिक्षण में मिजोरम, तेलंगाना, तमिलनाडु, महाराष्ट्र, गुजरात, मध्य प्रदेश, राजस्थान, हरियाणा, पंजाब, उत्तर प्रदेश, उत्तराखंड और हिमाचल प्रदेश के फैकल्टी, प्रोजेक्ट फेलो, पीएचडी स्कॉलर्स और उद्यमियों सहित 30 प्रतिभागियों ने हिस्सा लिया। प्रतिभागी वानिकी, बागवानी, जैव रसायन, वनस्पति विज्ञान, पर्यावरण विज्ञान, कीट विज्ञान, फल विज्ञान, वन आनुवंशिकी, आनुवंशिकी और पादप प्रजनन, भूविज्ञान, सूक्ष्म जीव विज्ञान, पादप रोग विज्ञान, वनस्पति विज्ञान, सिल्वीकल्चर और कृषि वानिकी और जैव प्रौद्योगिकी जैसे विभिन्न विषयों से थे।

समापन सत्र में कुलपति प्रो. राजेश्वर सिंह चंदेल ने प्रशिक्षुओं से कहा कि वे अपने शोध को उत्पादक मुद्दों से जोड़ने की दिशा में काम करें। उन्होंने कहा कि हमें कई प्रजातियों को लुप्तप्राय सूची से बाहर लाने में मदद करने के लिए विश्लेषणात्मक तकनीकों का उपयोग करने के प्रयास करने चाहिए। प्रो. चंदेल ने विश्वविद्यालयों के बुनियादी अनुसंधान ढांचे के आधुनिकीकरण में डीएसटी की भूमिका की भी सराहना की।

बायोटेक्नोलॉजी विभाग के विभागाध्यक्ष डॉ. रजनीश शर्मा ने बताया कि प्रशिक्षुओं के लिए 14 विशेषज्ञ व्याख्यान के माध्यम से जननद्रव्य लक्षण वर्णन, पौधों के आनुवंशिक संसाधनों के संरक्षण और उपयोग और व्यावहारिक प्रशिक्षण आयोजित किया गया। इस अवसर पर अनुसंधान निदेशक डॉ. संजीव चौहान ने भारतीय कृषि की प्रगति और इसकी वर्तमान चुनौतियों पर भी बात की।

यह प्रशिक्षण कार्यक्रम विभिन्न हालिया दृष्टिकोणों पर केंद्रित था जिनका उपयोग बागवानी और वन फसलों में किया जा रहा है। इस अवसर पर उद्यानिकी महाविद्यालय के अधिष्ठाता डॉ. मनीष शर्मा, वानिकी महाविद्यालय के अधिष्ठाता डॉ. सीएल ठाकुर, जैव प्रौद्योगिकी विभाग और स्तुति के संकाय सदस्य भी उपस्थित थे। प्रशिक्षण के दौरान एक संग्रह का विमोचन भी किया गया। प्रोफेसर चंदेल ने प्रतिभागियों को प्रमाण पत्र भी वितरित किए।

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Education

## Training programme on advancements in Horticulture and Forest crops

A seven-day training programme on Recent Technological Advancements in Horticulture and Forest Crops concluded at the Dr. YS Parmar University of Horticulture and Forestry, Nauni.

IANS Dec 31, 2022 05:41


A seven-day training programme on Recent Technological Advancements in Horticulture and Forest Crops concluded at the Dr. YS Parmar University of Horticulture and Forestry, Nauni.

The training was organised by the Department of Biotechnology of the university in collaboration with the Sophisticated Analytical Instrumentation Facility, Panjab University, Chandigarh under the aegis of Synergistic Training Program Utilizing the Scientific and Technological Infrastructure(STUTI).

Thirty participants from Mizoram, Telangana, Tamil Nadu, Maharashtra, Gujarat, Madhya Pradesh, Rajasthan, Haryana, Punjab, Uttar Pradesh, Uttarakhand, and Himachal Pradesh including faculty, project fellows, PhD scholars and entrepreneurs took part in the training. The participants were from different disciplines such as Forestry, Horticulture, Biochemistry, Botany, Environmental Science, Entomology, Fruit Science, Forest Genetics, Genetics and Plant Breeding, Geology, Microbiology, Plant Pathology, Vegetable Science, Silviculture and Agroforestry and Biotechnology.

Speaking at the valedictory session, Vice-Chancellor Prof. Rajeshwar Singh Chandel asked the trainees to work towards linking their research to productive issues. He added that we must make efforts to utilize analytical technologies to help bring many species out of the endangered list. Prof. Chandel also lauded the role of DST in the modernization of the research infrastructure of the universities.

Earlier Dr. Rajnish Sharma, HOD Department of Biotechnology informed that 14 expert lectures and hands-on training on germplasm characterization, conservation and utilization of plant genetic resources were held for the trainees. Dr. Sanjeev Chauhan, Director of Research also spoke on the progress of Indian agriculture and its present challenges.

The training programme focused on various recent approaches which are being used in horticultural and forest crops with expert lectures and hands-on sessions including exposure visits to farms and fields.

# Glimpses of Training Sessions

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