

**Report of
Floriculture & Landscaping
Department
(2019-20)**



**Mehr Chand Mahajan
DAV College for Women
Sector-36, Chandigarh**

www.mcmdavcwchd.edu.in

Department Name: Botany

Session: 2019-20

Names of Programmes/Courses/offered:

Name: Add on course in Floriculture and Landscaping

Faculty Publications/Awards/Achievements/Activities:

1. Dr. Gunjan Sud:

- **Principal Investigator** in Research Project entitled "Comparative evaluation of Rutaceae leaf extracts and synthetic herbicide on common food crops". Amount: Rs. 24,800/-.

2. Dr. Jaya Thakur

- **Thakur, J.** and Shinde, B.P. 2019. Biodiversity of AM fungi associated with pea (*Pisum sativum* L.) from Purander Tehsil. *International journal of research and analytical reviews*. Vol.6 (2): 395-403.
- **Thakur, J.** and Sagar, A. 2020. Endophytic fungal associations and VAM infections in the roots of *Murraya koenigii* (L.) Spreng. From Hamirpur District of Himachal Pradesh. *International journal of Botany studies*. Vol.5 (1): 28-91.
- **Thakur, J.** and Sagar, A. 2020. Diversity of rhizosphere fungi and VAM fungal spores associated with *Murraya koenigii* (L.) Spreng. From Hamirpur district of Himachal Pradesh. *International journal of Agriculture innovations and research*. Vol 8(4):318-325
- **Thakur, J.** and Shinde, B.P. 2020. Effect of salt stress and AM fungi on the growth performance of pea plant. *International journal of life sciences*. Vol.8 (1):135-139

Faculty Workshop attended/participated:

1. Dr. Gunjan Sud

- Participated in the 2 days Workshop on Planning, Preparation and Execution of a Massive Open Online Course (MOOC) organized by the IQAC on 11-12.10.2019, Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh.

2. Dr Jaya Thakur

- A 30 hours workshop on “Apache open office” conducted by Department of Computer Science and Applications from 03/01/2020-09/01/2020.
- Participated in one day Webinar entitled “Role of Biodiversity during COVID 19” on the eve of International Day of Biological Diversity on 22nd May 2020 organized by PG Government College for Girls, Sector 42 Chandigarh.
- Participated in one day Webinar entitled “Applications of Multi-Modality Imaging in Nuclear Medicine “held on 10th June 2020 organized by the Department of Physics, Mehr Chand Mahajan College for Women, Sector 36, Chandigarh.

Faculty activity

1. Dr Gunjan Sud

- Coordinator of RUSA sponsored 2 days Workshop cum Lecture series entitled “Aesthetics of Botany” on 24-25.1.2020.
- Coordinator of the one day trip organized for the students of Add on course in Floriculture and Landscaping to the Botanical Garden, Sarangpur on 18.02.2020.
- Coordinator of the one day field trip to the Durga nursery organized by the Department of Botany and Add on Course in Floriculture and Landscaping, Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh on 25.2.2020.
- Coordinator of the Online Photo Quiz” on Immunity Boosting Plants held on 27.04.2020
- Coordinator of the 2 day Webinar entitled “Learning the Nuances of Rearing Ornamental and Organic Plants: An online workshop during Lockdown”, 2-3.5.2020.

2. Dr. Jaya Thakur

- **Organizing member** of the RUSA sponsored Lecture cum Workshop entitled " Biofertilizers: Production and Application Technology" on 26.9.2019.

- **Organizing member** of RUSA sponsored 2 days Workshop cum Lecture series entitled “Aesthetics of Botany” on 24-25.1.2020.

Activities of Add on course in Floriculture and Landscaping:

Activity 1: Rusa sponsored 2 days lecture cum workshop series on “Aesthetics of Botany”

A two day RUSA sponsored workshop cum lecture series on Aesthetics of Botany was organized by the Department of Botany, Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh on 24-25th January, 2020. The complete workshop was divided into six sessions, attended by Add on Course in Floriculture and Landscaping and 5 faculty members of the Department. On the first day of the event Dr. Bharati Thakur and Dr. Puja Sharma, Scientists cum Assistant Professors from Dr. Y. S. Parmar University of Horticulture and Forestry, Nauni, Solan, not only delivered intrusive lectures on aesthetic aspects of Botany but also imparted hands on training on the same which left the participants spell bound after these creative and innovative sessions for the day. The various aspects covered on day one included Lawn establishment and management, Terrariums, Bonsais, Dry flower making, their preservation and uses, Adding Colour to Landscapes and Identification of Landscape Plants. On the concluding day Professor cum Scientist Dr. J.S. Wazir from Regional Horticultural Research and Training Station, Mashobra, Shimla, Dr. YSPUHF, Nauni, Solan, gave a practical insight into the concepts of Container Gardening, Plant propagation and House Plants and their care during the three comprehensive hands on learning sessions including a field session.



Worthy Principal Dr. Nisha Bhargava welcoming the Resource Persons Dr. Bharti Thakur and Dr. Puja Sharma with Planters on day one i.e. 24.1.2020



The team exhibiting their work including Bonsais, terrariums and dry flower basket on the conclusion of day one.



The resource person Professor Dr. J. S. Wazir being Received by the Principal Dr. Nisha Bhargava on the Second day of the workshop i.e. 25.1.2020

Activity 2: One Day trip to the Botanical Garden, Sarangpur

A one day visit to the Botanical garden, Sarangpur was conducted for the students of Add on course in Floriculture and Landscaping in which 11 students had participated and they were accompanied by two teachers, one lab attendant and one gardener. The visit was a part of the syllabus and aimed at familiarizing the students about the different plant families and the ornamental and medicinal relevance of the members of these families. Also, they were made aware of the various herbarium techniques and methodology.



Activity 3: One day field trip to Durga Nursery

A one day field trip to the Durga nursery was organized by the Department of Botany and Add on Course in Floriculture and Landscaping, Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh on 25th February, 2020. The field trip was attended by the 10 students of Add on course in Floriculture and Landscaping along with two faculty members, Dr. Gunjan Sud and Dr. Jaya Thakur and gardener Mr. Ram Kumar. The students were introduced to the various aspects of Nursery establishment starting from the infrastructure and manpower required, to the selection of ornamentals for indoor and outdoor purposes, different methods used for plant propagation on a large scale for commercial purposes, their protection and final plantation in bags and pots for sale.



One day field trip to Durga Nursery



Different varieties of succulents like Cacti, *Haworthia*, *Aloe vera*, *Bryophyllum* and Jade plants.

Activity 4: 2 day Webinar entitled “Learning the Nuances of Rearing Ornamental and Organic Plants: An online workshop during Lockdown”

A Webinar entitled “Learning the Nuances of Rearing Ornamental and Organic Plants: An online workshop during Lockdown” was organized by the Department of Botany on May 2nd-3rd, 2020. This workshop was open to all B.Sc. (Med.) and Add on Floriculture and Landscaping students. Desirous students got themselves registered through the link provided for the purpose on the Botany Webinar Group. The resource persons who are the masters of their respective fields had live online interactions with the participants through WEBEX. The complete workshop was divided into six sessions of one hour each, attended by 39 students of B.Sc.(Medical) and Add on Course in Floriculture and Landscaping and 2 faculty members of the Department. The experts made use of the PPTS and gave live demonstrations to the participants to provide them a deep insight into the topics which kept the students completely engrossed. Each session was followed by a short discussion where the students took up their queries with the experts who went over to satisfy the inquisitive minds.

On the first day of the seminar Prof. Y.C. Gupta, Dean, College of Horticulture and Centre of Excellence For Horticulture Research and Extension, Thunag, Distt. Mandi, H.P. delivered on the potential opportunities which floriculture and landscaping industry provides and the large profits it yields. Due to last minute unavoidable emergency Dr. Rajesh Kaushal, Director Research, UUHF, Bharsar, Pauri Gharwal, Uttarakhand, could not deliver his lectures due to an emergency and at his place Dr. Niranjan Singh, Department of Fruit Science, Dr. YSPUHF, Nauni, Solan, was good enough to accept our last minute request. He updated the participants on the cultivation practices involved in the rearing, storing and marketing of Apple, the most important temperate fruit. Dr. Puja Sharma, Scientist, Department of Floriculture and Landscape Architecture, Dr. YSPUHF, Nauni, Solan, explained the entire concept of creating a “Miniature Gardens” giving a live online demonstration which left the students spellbound.

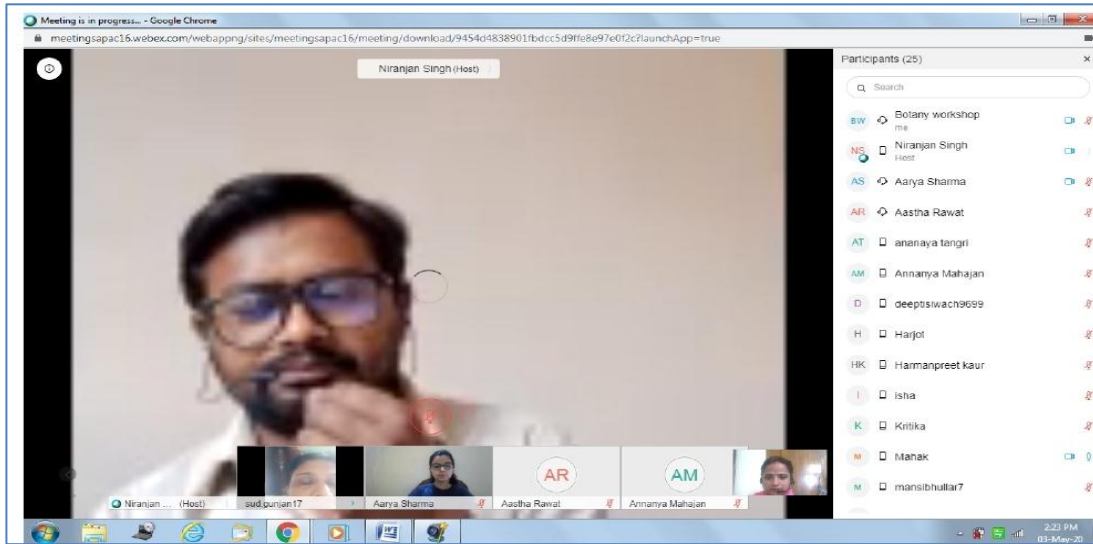
On the second day during the first session Prof. Gupta talked about the green house technology and the techniques involved in the protected cultivation of much demanded flowers including Roses, Liliums, Carnations, Gerberas, Anthuriums, etc. in the second session Dr. Niranjan discussed and demonstrated the technological advancements in vegetative and sexual methods for speedy and better multiplication of plants. In the concluding session of the online workshop Dr. Aruna Mehta, Scientist, Medicinal and Aromatic Plants, College of Horticulture and Centre of Excellence For Horticulture Research and Extension, Thunag, Distt. Mandi, H.P. gave a vivid account of the plants with medicinal and aromatic relevance including their characterization, cultivation, utility and conservation strategy.



Dr. Y.C. Gupta delivering lecture on Business opportunities in Floriculture and landscaping



Dr. Puja Sharma giving her demonstration on Miniature Gardens



Dr. Niranjan Singh delivering lecture on Propagation techniques for fruit crops during Webinar