

# Report of Botany Department (Session 2019-2020)



**Mehr Chand Mahajan**  
**DAV College For Women**  
Sector-36, Chandigarh  
[www.mcmdavcwchd.edu.in](http://www.mcmdavcwchd.edu.in)

Department Name: **Botany**

Session: **2019-2020**

**Name of Programmes/Courses/offered:**

- Under graduate Course - B.Sc. Medical Three Year Programme
- Diploma in Floriculture and Landscaping

**I. 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. Purnima Bhandari**

- Garg, N., **Bhandari P.**, Kashay L. and Singh, S. 2020. Silicon Nutrition and Arbuscular Mycorrhizal Fungi: Promising Strategies for Abiotic Stress Management in Crop Plants. *In: Metalloids in Plants: Advances and Future Prospects*, (eds.) Deshmukh, R., Tripathi D.K., Guerriero G. Pp.315-354. ISBN 978-1-119-48719-7.
- **Bhandari P.** and Garg, N. 2019. Plant-Microbe Communication: New Facets for Sustainable Agriculture. *In: Microbial Interventions in Agriculture and Environment* Volume 2: Rhizosphere, Microbiome and Agro-ecology, (eds.) Singh, D.P., Gupta, V.K. and Prabha, R., Springer Nature, Singapore, pp.547 – 573. ISBN 978-981-13-8382-3.

- **Awarded One Year Short-term Research Project** by Department of Science and Technology and Renewable energy, Chandigarh Administration sponsored short-term research project entitled “**Comparative influence of vermicompost fertilization and/or nitrogen fixing bacteria on plant growth attributes and nodulation efficiency of *Cicer arietinum* L.**” No.S&T&RE/RP/147(19-20)/Sanc/10/2019/1703-1710 dated 31.10.2019  
**Duration:** 1 year (2019-20)  
**Amount sanctioned:** Rs. 75,000/-
- **Awarded THIRD PRIZE** - in the form of ORAL PRESENTATION entitled “REGULATION OF PLANT DEFENSE RESPONSE BY EXOGENOUS APPLICATION OF GLUCOSE IN CICER ARIETINUM L. GENOTYPES UNDER SALINITY STRESS” in **National Online Conference’ (e-Conference | digital lectures | e-Competitions) on “Environment, Human Health and Sustainable Development Goals”** and World Environment Day Celebration on 5-6 June 2020 organized by Environment and Social Development Association (ESDA) Delhi.
- **Appointed as NSS Programme Officer** of Mehr Chand Mahajan DAV College For Women, Sector 36-A, Chandigarh.

### 3. Dr. Ruby Singh

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

### 4. 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

## II. 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. Purnima Bhandari

- Participated in six-day workshop – Statistics Made Easy: Virtual SPSS Workshop on Basics and Beyond. Organized by Integrated Association of Medical, basic and Social Scientist (IAMBSS) in association with Galgotia's University, Chandigarh University and National Institute of Nursing Education, PGIMER. From 26<sup>th</sup> October, 2020 to 31<sup>st</sup> October, 2020.
- One Day Swachhta Action Plan Online Workshop conducted in 19 June 2020 for Chandigarh organized by Mahatma Gandhi National Council of Rural Education (by MGNCRE) in collaboration with National Service Scheme.
- Participated in Leadership Talk with Mr. Shridhar Venkat, CEO (Akshay Patra Foundation) on 20.6.2020 by MHRD's Innovation Cell.

- Participated in National Webinar on Bloom's Taxonomy based Higher Order MCQs and Automatic Assessment Tools organized by Internal Quality Assurance Cell (IQAC) and Management Development Center (MDC), The Maharaja Sayajirao University of Baroda, Vadodara on 18 June 2020.
- Participated in National Webinar on "Nurturing Research Culture and Enhancing Teaching Learning through the Star College Scheme of DBT" on 17<sup>th</sup> and 18<sup>th</sup> June, 2020. Organized by The faculty of Science, Patna's Women's College, Autonomous, Patna University.
- Participated in Leadership Talk with Shri R Subrahmanyam, IAS (Secretary Ministry of Social Justice & Empowerment) held on 13.06.2020 by MHRD's Innovation Cell
- Participated in Leadership talk with Ms. Ashwini Deshpande (Co-Founder & Director Elephant Design) held on 06.06.2020 by MHRD's Innovation Cell.
- Presented research work in the form of ORAL PRESENTATION entitled "REGULATION OF PLANT DEFENSE RESPONSE BY EXOGENOUS APPLICATION OF GLUCOSE IN CICER ARIETINUM L. GENOTYPES UNDER SALINITY STRESS" in **National Online Conference' (e-Conference | digital lectures | e-Competitions) on "Environment, Human Health and Sustainable Development Goals"** and World Environment Day Celebration on 5-6 June 2020 organized by Environment and Social Development Association (ESDA) Delhi.
- Participated in National Webinar entitle 'Crosstalk between Ethnobotany and Immunology: A Fight against Covid-19" on 05.06.2020. Organized by Department of Botany and Department of Physiology in association with IQAC, Prabhat Kumar College, Contain West Bengal, INDIA
- Participated in one day international virtual conference entitled "Novel Corona and Novel Challenges Life Ahead with Covid-19" on 03.06.2020. Organized by UGC Cell, Sri Guru Gobind Singh College University School of Open learning Panjab University, Chandigarh and Maharishi Markendeshwar University, Sadopur, Ambala.

- Participated in a Webinar Entitled “ Navigating Challenges in Post COVID World: The role of technology in Education” on 25.05.2020. Organized by University School of Open learning Panjab University, Chandigarh and Maharishi Markendeshwar University, Sadopur, Ambala.
- Participated in the IIC Online Sessions conducted by Institution’s Innovation Council (IIC) of MHRD’s Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28<sup>th</sup> April to 22<sup>nd</sup> May 2020 during COVID-19 nationwide lockdown.
- Participated in Virtual National Seminar on Role of Biodiversity during COVID-19 on 22.05.2020. Organized by Department of Zoology, PG Government College For Girls, Sector 42, Chandigarh.
- Participated in Workshop on MOOCs, Online Courses & Open Educational Resources on the theme “ICT TOOLS for ONLINE TEACHING” scheduled to be held from May 23-29, 2020. Organized by Centre for Professional Development in Higher Education (CPDHE)University of Delhi
- Participated in TWO DAY ONLINE INTERNATIONAL SEMINAR/SYMPOSIUM ON ‘ROLE OF SCIENCE IN THE POST COVID 19 ERA on 28.05.2020 and 29.05.2020. Organized by faculty of Science Gujranwala Guru Nanak Khalsa College, Civil Lines, Ludhiana.
- Participated in Online Conference on “Environmental Pollutants and Health” on 20.05.2020 and 21.05.2020 organized by School of Life Sciences, Central University of Himachal Pradesh, Kangra.
- Participated in one-day online workshop on “One day online workshop on empowering effective scientific research by harnessing the power of ‘Web of Science’& managing references using ‘EndNote’ on 20.05.2020 at 10:30 AM – 4:00 PM. Organized by School of Education (SOE), PMMMMNMTT, MHRD at Guru Nanak Dev University, Amritsar in collaboration with Clarivate Analytics.
- Participated in One-day webinar topic: “DST National Seminar on Essential oils & Aroma Mission on 14.05.2020 at 1:00 PM -2:00 PM. Organized by P.G.

DEPARTMENT OF BIOTECHNOLOGY, under the aegis of DST Capacity Building Program, Lyallpur Khalsa College, Jalandhar, Punjab.

- **Attended 2-day IIC Innovation ambassador training series. Session Design thinking and Innovations.** From **16.01.2020 -17.01.2020**. Organized by Institution's Innovation Council, MHRD's Innovation Cell at Lovely Professional University, Punjab.

#### **5. Dr. Jasleen Kaur**

- 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 22<sup>nd</sup> 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 10<sup>th</sup> June 2020 organized by the Department of Physics, Mehr Chand Mahajan College for Women, Sector 36, Chandigarh.

#### **6. Dr. Ruby Singh**

- 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 22<sup>nd</sup> May 2020 organized by PG Government College for Girls, Sector 42 Chandigarh.
- Participated in one day Webinar entitled " COVID 19: Insights from the mysterious Novel virus SARS- cov 2" held on 5<sup>th</sup> June 2020 Organized by Department of Biotechnology, DAV college Sector 10, Chandigarh .
- Participated in one day Webinar entitled "Applications of Multi-Modality Imaging in Nuclear Medicine" held on 10<sup>th</sup> June 2020 organized by the

Department of Physics, Mehr Chand Mahajan College for Women, Sector 36, Chandigarh.

#### **7. 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.

### **III. Faculty Activity**

#### **1. Dr. Gunjan Sud**

- Organizing member of the Plantation Cum Plant Distribution Drive to celebrate Van Mahotsav on 6.8.2019.
- Coordinator of the awareness drive organized by the Department of Botany in the college campus on 16.9.2019 to celebrate Ozone Day.
- Coordinator of the Seed Balls Preparation activity held on 17.9.2019 by the Department of Botany.
- Organizing member of the committee of National Workshop entitled DBT-CTEP Biotechnology Popularization Programme (Venturing into the hues of Biotechnology: Innovation to Applications) 18.9.2019.
- Coordinator for the RUSA sponsored Lecture cum Workshop entitled " Biofertilizers: Production and Application Technology" on 26.9.2019.
- Coordinator of RUSA sponsored 2 days Workshop cum Lecture series entitled “Aesthetics of Botany” on 24-25.1.2020.
- Coordinator of the Inter College Poster Making Competition held by the Department of Botany, sponsored by Department of Science and Technology and Renewable Energy, Chandigarh on the eve of Science Day celebrated on 17. 2.2020
- Coordinator of the one day trip organized by the Department of Botany 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.
- Co Coordinator of the “ Online Content and Caption Writing Competition “on the EARTH DAY, 22.4.2020
- 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. Purnima Bhandari

- **As Resource Person** - Delivered lecture cum demonstration on the functioning of composting in Government High School in Village Kajheri on 15.11.2019 under the flagship programme of Unnat Bharat Abhiyan.
- **As Resource Person** - Gave Hands-on demonstration on compost making from wet waste to residents of Village Badheri on 14.11.2019 under flagship programme of Unnar Bharat Abhiyan.
- Organizing member of **National Science Day celebration – Communicating Science for All**, sponsored by Punjab State Council for Science and technology, Chandigarh (25.02.2019)
- Organizing member of RUSA sponsored one day workshop ‘**Success in the Institutional Framework**’ (4.01.2019)
- **Organizing member** of RUSA Sponsored one day lecture cum workshop entitled “Biofertilizers: Production and Technology” on 26.09.2019.
- **Organizing member** of RUSA Sponsored two day lecture cum workshop entitled Aesthetics of Botany” on 24-25.01.2020.

### **3. Dr. Jasleen Kaur**

- **Organizing member** of RUSA Sponsored two day lecture cum workshop entitled "Aesthetics of Botany" on 24-25.01.2020
- **Organizing member** of the RUSA sponsored Lecture cum Workshop entitled " Biofertilizers: Production and Application Technology" on 26.9.2019.

### **4. Dr. Ruby Singh**

- **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.
- **Organizing member** of the Online Photo Quiz" on Immunity Boosting Plants held on 27.04.2020
- **Organizing member** of the 2 day Webinar entitled "Learning the Nuances of Rearing Ornamental and Organic Plants: An online workshop during Lockdown", 2-3 5.2020.

### **5. 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.

IV. Students Publications/Awards/Achievements/Activities:

**Projects/ Awards/Positions bagged by students:**

<b>Name (Roll No. and class of the Student)</b>	<b>Name of the Award/Project/Position</b>	<b>Name of the event and the organizing Agency/University</b>	<b>Month/Year</b>
Parima Jaswal (Roll. No. 647) (B.Sc. II Med.) Parmjeet Kaur (Roll. No. 662)	1st in Poster making 1st in Essay writing	Inter-college event on "Akshay Urja Diwas" organized by PG Govt. College, Sector-11, Chandigarh	21.08.2019
Isha Kundu (Roll. No. 660) (B.Sc. II Med.) Parima Jaswal (Roll. No. 647) (B.Sc. II Med.)	1st in Slogan Writing 3rd in Slogan Writing Theme: Forest conservation	Swachhta Pakhwada organized by Mehr Chand Mahajan DAV College for Women, Chandigarh	24.01.2020
Prabhjeet Kaur (Roll. No 178) (B.Sc. III Med.) Guneetinder Kaur (Roll. No. 247) (B.Sc. III Med.)	2nd in Power point presentation 3rd in Power point presentation Theme: Wildlife Tourism	Science fest organized by Mehr Chand Mahajan DAV College for Women, Chandigarh	17.02.2020

Adishya Gupta (Roll. No. 1217) (B.Sc. I Med.)	3rd in Essay writing	Inter college competition on "National Science Day" sponsored by CREST, U.T., Chandigarh, organized by Dev Samaj College of Education, Sector 36-B, Chandigarh	28.02.2020
Parima Jaswal (Roll. No. 647) (B.Sc. II Med.)	2nd in Poster making	Inter-college event on "Earth Day" organized by Government College of Commerce and Business Administration, Sector 50-Chandigarh.	22.04.2020
Annanya Mahajan (Roll. No. 1198) (B.Sc. I Med.)	1st in Online Photography Competition	Swachhta Committee (Arts), Mehr Chand Mahajan DAV College for Women, Chandigarh to celebrate Earth day	22.04.2020
Annanya Mahajan (Roll. No. 1198) (B.Sc. I Med.)	Consolation prize in Picture Perfect Competition	Skill Development Committee, Mehr Chand Mahajan DAV College for Women, Chandigarh	04.05.2020

Annanya Mahajan (Roll. No. 1198) (B.Sc. I Med.)	2nd in Online Activity- Happiness Journal	Geetanjali Helpline, Mehr Chand Mahajan DAV College for Women, Chandigarh	07.05.2020- 08.05.2020
Parikha Banga (Roll. No. 186) (B.Sc. III Med.)  Bhuvi (Roll. No. 1169) (B.Sc. I Med.)  Annanya Mahajan (Roll. No. 1198) (B.Sc. I Med.)  Aarya Sharma (Roll. No. 1134) (B.Sc. I Med.)	Consolation prize in Caption Contest  Consolation prize in Caption Contest  Consolation prize in Caption Contest  Consolation prize in Essay writing	Swachhta Committee (Sciences), Mehr Chand Mahajan DAV College for Women, Chandigarh to celebrate International day for Biological Diversity	22.05.2020
Aarya Sharma (Roll. No. 1134) (B.Sc. I Med.)	1st in Just a minute	Inter-college event on “Environment day” organized by PG Govt. College for Girls, Sector- 42, Chandigarh	05.06.2020
Ananaya Tangri (Roll. No. 1232) (B.Sc. I Med.)	1st in Declamation contest	Inter-college event on “Environment day” organized by PG Govt. College for Girls, Sector-11, Chandigarh	05.06.2020

Aarya Sharma (Roll. No. 1134) (B.Sc. I Med.)	Consolation prize in Declamation contest	Inter-college event on "Environment day" organized by PG Govt. College for Girls, Sector-11, Chandigarh	05.06.2020
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**Students who have cleared national and state competitive examinations such as NET, SLET, GATE, UPSC, CDS, etc?**

**1. TIFR-JGEEBILS-03 IIT-JAM-04**

- Deepti of B.Sc. III (Medical) qualified JGEEBILS (Jan., 2020), IIT-JAM (BT) (March, 2020)
- Jhanvi Singla of B.Sc. III (Medical) qualified IIT-JAM (CHM) (Feb., 2020)
- Parikha Banga of B.Sc. III (Medical) qualified IIT-JAM (BT) (March, 2020)
- Divya Khasa of B.Sc. III (Medical) qualified IIT-JAM (BT) (March, 2020)
- Sanchi Sharma of B.Sc. III (Medical) qualified JGEEBILS (Jan., 2020)
- Payal of B.Sc. III (Medical) qualified JGEEBILS (Jan., 2020)

2. Aarya Sharma of BSc.II (Medical) participated in the **TCS iON Edge young Professional Course** .Duration of the course was from 02 May-13 June, 2020.
3. Aarya Sharma of BSc.II (Medical) participated in the **CIBiOD Online Attachment Programme**. Duration of the course was from 20 June-19 July, 2020.
4. Ananya Mahajan of BSc.II (Medical) participated in the **CIBiOD Online Attachment Programme**. Duration of the course was from 06June-06 July, 2020.
- 5.

## Departmental Activities

### 1. Activity: Plantation Cum Plant Distribution Drive

Clean and green environment is the dire need of the hour. Keeping in mind our commitment to contribute towards this noble goal of building a sustainable environment, a plantation cum plant distribution drive was conducted by Department of Botany in collaboration with Environment committee to celebrate Van Mahotsav on 6.8.2019 in the college campus. Saplings of medicinal plants including *Hibiscus rosa-sinensis* L., *Plumbago zeylanica* L., *Stevia rebaudiana* (Bertoni) Bertoni, *Bacopa monnieri* (L.) Wettst., *Ocimum sanctum* Linn., *Aegle marmelos* (L.) Corrêa, *Psidium guajava* L. were not only planted in the campus but were also distributed amongst the faculty members, non teaching staff and the students. The drive was an initiative towards creating awareness about the significance of the plant wealth for a clean, green and healthy environment.



Principal Madam initiating the Plantation Drive





Plants distribution among the staff and students

## **2. Activity: Ozone Day Celebrations**

An awareness drive was organized in the college campus on September 16 2019, celebrated as Ozone Day every year. The aim of the drive was to create awareness about ozone layer of atmosphere. During the drive, the students carried self made posters on the theme and interacted with other students of the college to spread awareness about the relevance of this important component of the Stratosphere. Around 11 students of B.Sc.III (Med.) participated in the event. They not only imparted information regarding the protection provided by Ozone layer but also discussed about the harmful effects its depletion is having on mother earth. They further urged the fellow students to spread the message amongst their family and friends and convince them to control the emission of harmful chemicals especially chlorofluorocarbons that are directly involved in the depletion of the valuable ozone layer.





Students exhibiting and explaining about the relevance of Ozone in the celebration ground.



Students Preparing Posters for the Event

### 3. Activity: Seed Balls Preparation

Keeping in mind the importance of flora in maintaining the ecological balance of the earth, the students of the Department of Botany prepared seed balls. These balls were then distributed amongst the students and guests to disperse them in barren areas. The little mud balls containing the viable seeds will serve as propagules in barren lands and help in process of land reclamation and wasteland development as the seeds inside them will germinate at the onset of the favourable conditions. Dissemination of seeds in the form of seed balls can play a significant role in conservation of biodiversity as they can be carried to far of places with ease and can be preserved. 17 students of B.sc I. (Med.) were involved in the activity held on 17.9.2019 in the Botany Lab.



Students preparing seed balls

#### 4. Activity: RUSA Sponsored one day workshop entitled 'Biofertilizers: Production and Application Technology'

In the present scenario where use of chemical fertilizers is being discouraged in Agricultural sphere because of the hazardous effects they have on our health and environment, biofertilizers can play a vital role in controlling the damage which has already been caused to our fragile ecosystems. It becomes important for us to understand the concepts of ecofriendly biofertilizers which can replenish the soil without any further damages. A RUSA sponsored one day hands on workshop entitled 'Biofertilizers: Production and Application Technology' was held on 26 September, 2019 in which all aspects related to the biofertilizer production were discussed. Forty students of B.Sc. Med. were introduced to different instruments used in biofertilizer production by Dr. Rajesh Kaushal, Principal Scientist, Department of Soil Science and Water Management, College of Forestry, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan. They were made aware of methods of isolation, characterization and authentication / identification of microbes and their mass culturing for liquid and carrier based biofertilizers.



Dr. Rajesh Kaushal, Principal Scientist, Department of Soil Science and Water Management, College of Forestry,UHF, Nauni, Solan , being accorded a warm welcome





Dr. Rajesh Kaushal delivering the lecture during the workshop

#### **5. Activity: 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 24-25<sup>th</sup> January, 2020. The complete workshop was divided into six sessions, attended by 40 students of B.Sc.(Medical) and 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.



Dr. Puja Sharma demonstrating the technique of Terrarium making to the participants





Dr. Bharti and Dr. Puja demonstrating the art of Bonsai making to the participants



Last session of the workshop on day two

## **6. Activity: Inter College Poster Making Competition held by the Department of Botany, sponsored by Department of Science and Technology and Renewable Energy, Chandigarh**

With an aim of enhancing the scientific temperament of young minds and introducing them to the latest trends in the present day field of Science the Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh celebrated its Annual Science Day on 17. 2.2020. The fest was based on the concept “Emerging Trends in Science and Technology”. On this occasion the various Science Departments of the college organized a number of exciting competitions including the Inter College Scientific Poster Making Competition with the theme “Innovation and Sustainability” held by the Department of Botany. 21 participants from 7 colleges of Chandigarh took part in the event. The judgement was given by Dr. Kawalpreet Kaur, Assistant Professor, SGGS Khalsa College Sector 26, Chandigarh, on basis of the concept, idea and presentation. The first prize was bagged by Rashmita (B.Sc. III) of Government Home Science College, Sector 10, Harmanpreet Singh (B. Com. II) of G.G.D.S.D college got the Second prize, Riya Kapoor (B.A. III) of Mehr Chand Mahajan DAV college for Women got the Third Prize and the Consolation Prize went to Namrata (B.Sc. III) of Post Graduate Government College for Girls, Sector 42.





### **7. Activity: One Day trip to the Botanical Garden, Sarangpur (18.02.2020)**

With an aim of familiarizing the students about the different plant families and the ornamental and medicinal relevance of the members of these families a trip to Botanical Garden, Sarangpur was organized on 18.02.2020. 2 teachers along with one lab attendant and one gardener accompanied 46 students. During the visit the students were made aware about the various herbarium techniques and methodology. Nature visit is the only way out by which students can be made aware of the biodiversity in its natural environment. The students were given a practical knowledge of the Bentham and Hooker system of classification and also about the identification methods by which they are able to identify a particular species growing in its natural habitat. They were also given a firsthand knowledge of how to collect and preserve the plant specimens in the herbarium.





One day visit to the Botanical Garden, Sarangpur by the teaching staff and the students of the Department of Botany, MCM DAV College



The students observing the plants being propagated in the nursery beds



### **8. Activity: One day field trip to Durga Nursery by the students of Botany and Add on course in Floriculture and Landscaping on 25<sup>th</sup> February, 2020**

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 25<sup>th</sup> 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.





### **9. Activity: Online “Content and Caption Writing Competition” on the EARTH DAY, April 22, 2020**

On the eve of the Earth Day which falls on April 22<sup>nd</sup>, the Environment Committee of MehChand Mahajan DAV College in association with the Department of Botany organized an online “Content and Caption Writing Competition”. It was based on screening of an award winning short film ‘Albatross’, by Chris Jordan shot at Midway Islands in the Pacific Ocean and is related to environmental issue. The activity coordinators Dr. Zeenat Khan and Dr. Gunjan Sud invited online entries from undergraduate students and forwarded the link to the film to the participants via WhatsApp group on April 22<sup>nd</sup>, 2020. The participants watched the movie via the link provided to them on April 22<sup>nd</sup> and after watching the movie, sent their write up of 500 words along with the caption till 23<sup>rd</sup> April, 5pm. In all 31 students finally submitted their reviews or judgment. The content was judged on the basis of understanding of the subject, expression and language.

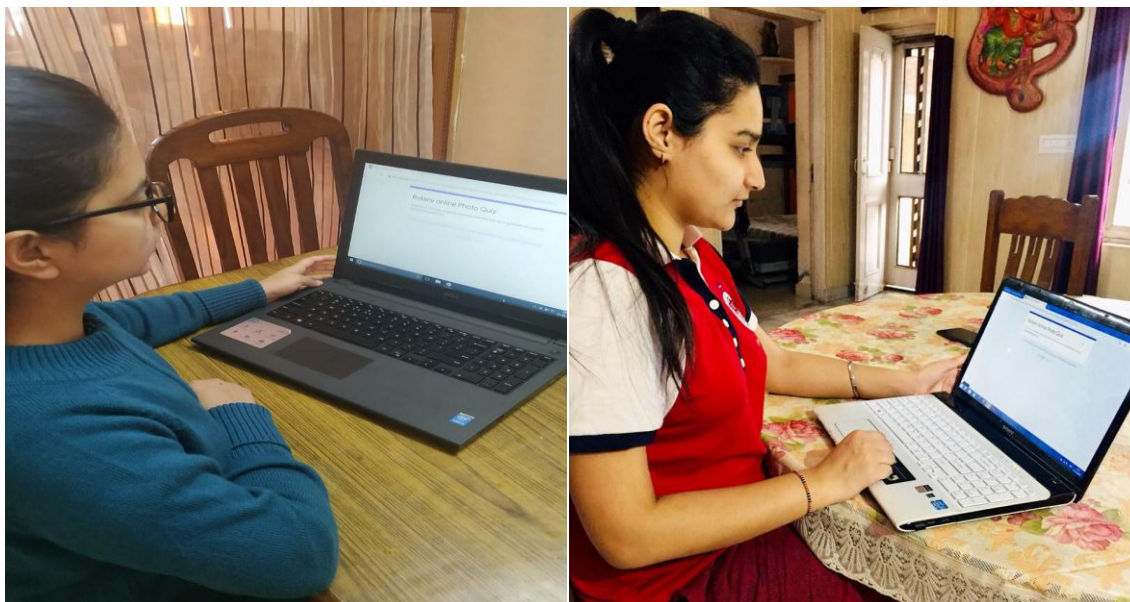


Results were declared on April 30<sup>th</sup> in which Chandini Jaswal of B.A. 1 was declared 1<sup>st</sup>, Harneet Kaur of B.Sc. (Non Med.) 3 was declared 2<sup>nd</sup> and Deeksha Shukla of B.Com. 2 was declared 3<sup>rd</sup>. Besides this the other top 5 entries included Aastha Rawat B.Sc.(Med.)2, Shreiya Sharma B.Sc. (Med.) 2, Shagun Choudhury B. A. 1, Promila Sahni B. Com. 3 and Meghna Goel (Med.) B. Sc. 2.



**10. Activity: “Online Photo Quiz” on Immunity Boosting Plants held on 27.04.2020**

Besides providing the students an opportunity to channelize their time in a constructive manner, the aim of this activity was to disseminate knowledge about the plants having potential immunity boosting properties and can be easily incorporated in our daily diet in some form or the other. In the present scenario it becomes essential to lay off the stress by following healthy regime which essentially includes healthy diet. This activity will also convey a community message on the importance of healthy food ingredients as the students are back home and can share this knowledge with all their near and dear ones.

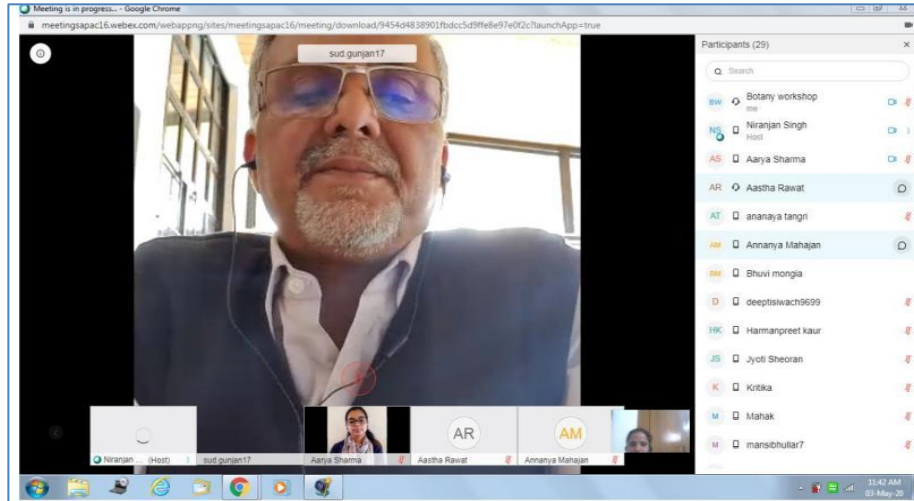


**11. Activity: Two day Webinar entitled “Learning the Nuances of Rearing Ornamental and Organic Plants: An online workshop during Lockdown”, May 2<sup>nd</sup>-3<sup>rd</sup>, 2020.**

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 2<sup>nd</sup>-3<sup>rd</sup>, 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, Uttrakhand, could not deliver his lectures due to an emergency and at his place Dr. Niranjn Singh, Department of Fruit Science, Dr. YSPUHF, Nauri, 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, Nauri, Solan, explained the entire concept of creating a "Miniature Gardens" giving a live online demonstration which left the students spellbound.

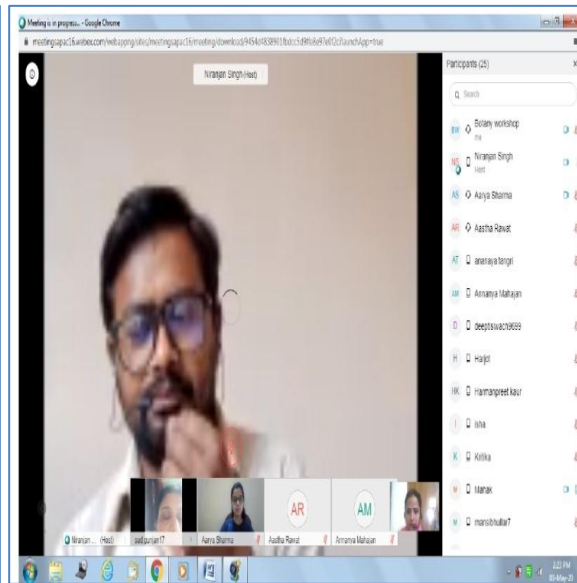
On the second day during the first session Prof. Gupta talked about the green house technology and the techniques involved in the protected cultivation of much demanded flowers including Roses, Liliams, Carnations, Gerberas, Anthuriums, etc. in the second session Dr. Niranjn discussed and demonstrated 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