



**CADET COLLEGE
HASANABDAL**

HORTICULTURE CLUB

THE ART OF GARDENING



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THE ART OF GARDENING

INTRODUCTION

The Horticulture Club at Cadet College Hasanabdal was started in 2019 to help students develop a love for gardening, plants, and nature. The club encourages students to understand the beauty of nature and the importance of keeping our environment green.

Mr. Muhammad Rizwan Maqbool was appointed as the Club In-charge, and students were selected to lead as the President and Vice President. From the very beginning, the club aimed to involve students in creative gardening activities and projects around the campus.

Unfortunately, soon after the club was formed, the COVID-19 pandemic made things difficult. The college's biggest annual event, Parents' Day, where clubs showcase their projects, was affected. Despite this challenge, the Horticulture Club did not stop working. The students continued planting, maintaining green spaces, and learning new gardening techniques with great dedication.

In 2021, the club finally got the chance to display its hard work and projects. Although the team showed great creativity and effort, they did not win any major prize that year. But they didn't lose motivation.

With strong leadership, teamwork, and a never-give-up attitude, the students kept improving. In 2022, their efforts paid off. The Horticulture Club won 1st position and was proudly named the Best Club for the Year 2022–2023.

This success is a reflection of the students' commitment, teamwork, and love for nature. The club continues to grow, inspiring younger cadets to care for the environment and contribute to a greener campus.

PURPOSE And AIMS

The Horticulture Club helps students to develop a love for plants and nature. It teaches them how to grow and care for flowers, fruits, and trees while learning the importance of a clean and green environment.

Purpose

- 1.** To create interest and awareness among cadets about the importance of plants in our daily lives.
- 2.** To make the college environment greener, cleaner, and more beautiful.
- 3.** To encourage teamwork, patience, and responsibility through hands-on gardening activities.

Aims

1. Practice Modern Growing Techniques

- This provides students with advanced scientific knowledge and practical exposure to horticulture beyond basic gardening. It enhances their understanding of plant biology, propagation methods, and biotechnology, making it highly educational and future-oriented.

2. Promote Innovation in Horticulture

- This pushes students to think creatively and develop sustainable, eco-friendly solutions using minimal resources. It promotes critical thinking, problem-solving, and innovation — essential skills for modern agriculture, environmental science, and responsible leadership.

Structure & Roles of the Horticulture Club

The Horticulture Club is a vibrant student-led platform where cadets from all grade levels come together to learn about plants, gardening, and the environment. The club is structured in a progressive way so that students grow in their knowledge and leadership roles as they move through the grades.

Mentor

Sardar Muhammad Ibsar-ul-Haq (37th Entry IW) guides and inspires the club with his vision and experience.

Club Incharge

Mr. Muhammad Rizwan Maqbool oversees all planning, learning, and activities of the club.

Grade 8 (Members)

Beginners – They learn basic gardening skills and support seniors.

Grade 9 (Participants)

Active learners – They join hands-on projects and gain more exposure.

Grade 10 (Contributors)

Junior leaders – They lead small groups and assist in planning plantation drives.

Grade 11 (Associates)

Senior helpers – They manage specific areas, tools, or tasks during projects.

Grade 12 (Fellows)

Club leaders – They mentor younger members, manage major events, and promote environmental awareness.

GRADE - WISE OBJECTIVES

Grade 8 – (Members)

Web Link:

<https://www.childrenandnature.org/resources/gardening-with-children-and-teens/>

1. Introduction to Horticulture:

Understand and become familiar with the basic concept of horticulture – what it means and how it relates to plant care, gardening, and the environment.

2. Appreciation of Gardening in Horticulture:

Learn about the significance of gardening as a vital component of horticulture and how it contributes to environmental sustainability and personal well-being.

3. Collaborative Project Support:

Actively assist senior club members in planning, preparing, and executing gardening projects – such as bed preparation, composting, and seasonal planting.

4. Tool Handling & Basic Plantation Techniques:

Gain hands-on experience with gardening tools and learn the fundamental techniques of planting, watering, soil preparation, and plant maintenance under supervision.

Grade 9 – (Participants)

Role: Building Foundations and Learning Through Observation and Practice

Web Link:

<https://www.gardenersworld.com/how-to/grow-plants/how-to-grow-petuniasthespruce.com/how-to-grow-petunias-1402893>

1. Environmental Awareness

Learn how gardening contributes to ecological balance, reduces carbon footprint, and improves air quality.

2. Observation & Participation

Observe senior students and assist in ongoing horticulture activities and seasonal plantation projects.

3. Hands-on Learning

Use basic gardening tools and develop skills in sowing, watering, weeding, and plant care under supervision.

4. Teamwork and Responsibility

Work in groups to learn teamwork, responsibility, and the discipline needed for maintaining a healthy garden.

5. Creative Expression

Participate in simple decoration and plantation drives, focusing on creativity and the visual aspect of green spaces.

6. Learning from Nature

Develop patience, attention to detail, and respect for nature through regular interaction with plants and soil.

Grade 10 – (Contributors)

Role: Taking Responsibility and Leading with Purpose

Web Link:

<https://www.gardenersworld.com/how-to/grow-plants/how-to-grow-petuniasthespruce.com/how-to-grow-petunias-1402893>

1. Advanced Horticulture Knowledge

Deepen understanding of plant biology, soil types, seasonal cycles, and sustainable gardening practices.

2. Leadership in Projects

Take initiative in planning and executing plantation drives, guiding junior students, and managing group tasks.

3. Skill Development with Tools

Gain expertise in using gardening tools safely and efficiently for pruning, transplanting, mulching, and composting.

4. Project Contribution

Contribute actively to the design, execution, and maintenance of club-led horticulture projects within the campus.

5. Environmental Advocacy

Understand and promote how green spaces improve mental well-being, support biodiversity, and enhance campus aesthetics.

6. Mentoring Juniors

Mentor Grade 9 students by demonstrating techniques, answering questions, and encouraging participation.

7. Sustainability and Innovation

Explore innovative gardening techniques (e.g., vertical gardening, composting) to improve sustainability on campus.

Grade 11 – (Associates)

Role: Intermediate Members – Skill Builders & Junior Mentors

Web Link:

<https://www.kr.pk.emb-japan.go.jp/images/JIBNov.pdf>

1. Advance Practical Horticulture Skills

Develop deeper understanding of plant care, seasonal gardening, and sustainable techniques through hands-on involvement in greenhouse management, vertical gardening, and composting projects.

2. Mentor Younger Members

Assist in training Grade 8–10 students in basic horticulture concepts, tool usage, plantation techniques, and greenhouse routines, promoting teamwork and mentorship.

3. Introduce Japanese Floral Art – Ikebana

Begin learning the fundamentals of Ikebana (Japanese flower arrangement) through guided sessions, YouTube tutorials, and practical workshops focusing on balance, harmony, and simplicity.

4. Exposure Visits for Learning & Exploration

Participate in field visits to local agricultural and botanical institutions such as Hazara Agriculture & Research Centre (Abbottabad) and Agriculture Department Haripur for exposure to real-world horticultural practices.

5. Initiate Bonsai Training

Understand the theory and basics of Bonsai cultivation, including types of plants used, pot selection, initial pruning techniques, and soil preparation.

6. Develop Leadership and Responsibility

Take responsibility for managing a section of the garden or greenhouse and contribute ideas to club planning, floral displays, and campus beautification projects.

Grade 12 - (Fellows)

Role: Senior Members – Project Leads & Horticulture Ambassadors

Web Link:

<https://www.kr.pk.emb-japan.go.jp/images/JIBNov.pdf>

1. Lead Club Initiatives and Projects

Plan, lead, and evaluate major horticulture projects such as seasonal flower exhibitions, vertical garden setups, and inter-house gardening competitions.

2. Master Ikebana and Floral Aesthetics

Demonstrate creativity and artistic expression through advanced-level Ikebana, creating at least three unique floral arrangements and displaying them during college events.

3. Specialization in Bonsai Art

Lead the Bonsai development initiative by mastering techniques like pruning, wiring, defoliation, and root care—serving as a mentor for junior members exploring the art.

4. Contribute to Research & Documentation

Maintain detailed horticulture journals documenting growth progress, pest control measures, seasonal plant schedules, and artistic designs for floral arrangements.

5. Promote Environmental Awareness

Conduct awareness sessions on sustainability, organic farming, and conservation practices among peers and juniors, linking horticulture with global environmental goals.

6. Represent The Institution in External Collaborations

Serve as ambassadors in outreach programs or horticulture-related competitions, and coordinate with external organizations or institutions for collaborative activities.

Project-Based Learning (PBL) approach in the Horticulture Club

1. Hands-on Learning through Real-Life Projects

Students actively participate in practical horticulture projects like bonsai shaping, terrarium building, and plant propagation, making learning deeply engaging and experiential.

2. Skill Development through the Bonsai Project

The Bonsai Project teaches Students patience, precision, and responsibility by using specialized techniques such as pruning, wiring, and root care — blending artistic expression with scientific practice.

3. Creativity and System Design via the Terrarium Project

Through designing and maintaining terrariums, Students learn self-sustaining ecosystem principles, encouraging innovation, planning, and long-term thinking in environmental design.

4. Scientific Exploration of Propagation Techniques

By practicing methods like grafting and air layering, students gain insights into plant reproduction and multiplication, enhancing their botanical knowledge and practical gardening skills.

5. Development of Core Life Skills

All PBL activities foster teamwork, critical thinking, problem-solving, time management, and a sense of ownership, essential for personal and academic growth.

6. Promotion of Environmental Awareness and Responsibility

Students develop a deeper appreciation for nature and understand their role in sustainable practices, nurturing a lifelong commitment to environmental stewardship

7. Species-Specific Micro Projects

Students engaged in detailed, hands-on cultivation of seven flowering species, learning plant biology through real-time observation and care. Each species served as an individual micro-project requiring customized care plans and data collection.

8. Collaborative Greenhouse Management

With mentorship from college gardeners, students applied scientific inquiry to monitor and adjust variables such as soil quality, irrigation, temperature, and light exposure—developing analytical and problem-solving skills through team-based experimentation.

9. Integration of Cultural & Aesthetic Learning (Ikebana Project)

The Ikebana flower arrangement project fostered interdisciplinary learning by combining cultural understanding, design principles, and hands-on artistic expression, allowing students to explore beauty, balance, and symbolism in plant-based art.

10. Skill-Intensive Long-Term Project (Bonsai Cultivation)

Students practiced the Japanese art of Bonsai, involving intricate techniques like pruning and wiring. This cultivated patience, precision, and a deeper sense of responsibility for long-term botanical care.

11. Documentation & Reflective Presentations

Each project was supported by visual documentation and group presentations, reinforcing communication, collaboration, and critical reflection—key elements of effective project-based learning.

12. Real-World Environmental Engagement

All projects contributed to broader educational goals—promoting sustainability, environmental stewardship, and a scientific appreciation of nature—making the learning process both meaningful and socially relevant.

AFFILIATIONS

The Horticulture Club is proudly connected with two well-known national organizations that work in the fields of gardening, plant care, and agriculture. These partnerships help students learn from experts, take part in useful projects, and stay updated with the latest techniques in horticulture.

1. **Horticulture Society of Pakistan**
2. **Hazara Agriculture Research Station, Abbottabad**

The club also work for the **Round Square IDEAL of Environmentalism** by encouraging students to care for nature, grow plants, and contribute to a greener and healthier environment.





CADET COLLEGE HASANABDAL

HORTICULTURE CLUB



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Affiliations

CCH Horticulture Club <https://cchhorticulture.com/>

Horticulture Society of Pakistan <http://www.hsp48.org/>

Hazara Agriculture Research Station, Abbottabad

<https://agrires.kp.gov.pk/page/hazaraagricultureresearchstation>

