

**Self Study Report
For
Accreditation
(2018-19 to 2022-23)**



College

**College of Horticulture and
Forestry
PAU, Ludhiana**



Accreditation of College of Horticulture & Forestry
Punjab Agricultural University
Ludhiana

Faculty Associated with Finalization of Accreditation Report of the COHF

Sr. No.	Name	Designation	Department
1	Dr. Trina Adhikary	Assistant Professor (Education)	College of Horticulture and Forestry
2	Dr. Gagandeep Kaur	Senior Fruit Scientist	Fruit Science
3	Dr. Rishu Sharma	Scientist	Floriculture & Landscaping
4	Dr. Ashok Kumar Dhakad	Tree Breeder	Forestry & Natural Resources
5	Dr. Madhu Sharma	Assistant Professor	Vegetable Science
6	Dr. Harminder Singh	Principal Fruit Scientist	Fruit Science
7	Dr. Kulbir Singh	Principal Olericulturist	Vegetable Science
8	Dr. Rakesh Garg	Professor	Forestry & Natural Resources
9	Dr H.S Rattanpal	Head	Fruit Science
10	Dr Tarsem Singh Dhillon	Head	Vegetable Science
11	Dr. Parminder Singh	Head	Floriculture & Landscaping
12	Dr G.P.S Dhillon	Head	Forestry & Natural Resources

Ms. Supriya, Computer Operator, O/o Dean COHF and Ms. Gaganpreet Kaur, Computer Operator, Department of EE & IT associated with the page setting of the report.

INDEX

Sr. No.	Topic	Page No
6.5	History & Development	1
6.5.1	College Administration	2
6.5.1.1	College Dean's Office Establishment	3
6.5.1.2	Monitoring Mechanism for Quality Education	6
6.5.1.3	College Committees/ Board of Studies	9
6.5.1.4	Anti-Ragging Cell	12
6.5.1.5	Biological Waste Disposal Facility	12
6.5.1.6	Institutional Ethics Committee for Experiment on Animals	12
6.5.1.7	Committee for Prevention of sexual harassment of Women at Work Places	13
6.5.2	Faculty	13
6.5.2.1	Faculty Strength	13
6.5.2.2	Faculty Profile	13
6.5.2.3	Credentials of the Faculty	32
6.5.2.4	Technical and Supporting Staff	33
6.5.3	Learning Resources	34
6.5.3.1	College Library	34
6.5.3.2	Laboratories, Instructional farm, Workshops, etc.	38
6.5.3.3	Student READY/ In-Plant Training/ Internship/ Experiential Learning Programmes	40
6.5.3.4	Curricula Delivery Through IT (Smart Classrooms / Interactive Board etc)	44
6.5.4	Student Development	45
6.5.4.1	Student Intake and Attrition	45
6.5.4.2	Average Number of Students in Theory and Practical Classes	46

6.5.4.3	Admission Process	46
6.5.4.4	Conduct of Practical and Hands on Training	48
6.5.4.5	Examination and Evaluation Process	52
6.5.4.6	NCC/NSS/NSO Units	55
6.5.4.7	Language Laboratory	57
6.5.4.8	Cultural Centre	57
6.5.4.9	Personality Development	59
6.5.5	Physical Facilities	71
6.5.5.1	Hostels	72
6.5.5.2	Examination Hall	74
6.5.5.3	Sports and Recreation Facilities	75
6.5.5.4	Auditorium	77
6.5.5.5	Exhibition Hall/ Museum	77
6.5.6	Research Facilities	77
6.5.6.1	Postgraduate Laboratories and Equipment	77
6.5.6.2	Research Contingency	80
6.5.7	Outcome/Output	81
6.5.7.1	Student Performance in National Examination	81
6.5.7.2	Students Placement Profile	82
6.5.7.3	Awards/Recognitions/ Certificate	84
6.5.7.4	Employability	110
6.5.8	Self Study Reports of all the Degree Programmes of the College are Included in this Document	119
6.5.9	Certificate	119

COLLEGE OF HORTICULTURE AND FORESTRY

6.5 History and Development

The College of Horticulture and Forestry is located at the main campus of Punjab Agricultural University at Ludhiana, Punjab. The College was established in 2018, with its formal approval in the 287th meeting of Board of Management held on 12th October 2018. This is the first and the only College in the state for imparting B.Sc. (Hons.) Horticulture. This College also imparts post graduate degrees i.e., M.Sc. in Horticulture in the discipline of Fruit Science, Vegetable Science, Floriculture & Landscaping and Forestry. The Ph.D. Horticulture in the disciplines of Fruit Science, Vegetable Science, Floriculture & Landscaping is also awarded. The major mandate of the College is to strengthen teaching and research in Horticulture crops, forestry and also to develop human resources with a wider scope of employability.

Dr. Manav Indra Singh Gill, then the Additional Director of Research (ADR), Horticulture and Food Science was given the additional charge of the new College as an Officer on Special Duty (OSD) in November 2018. The four departments namely Fruit Science, Vegetable Science, Floriculture & Landscaping and Forestry & Natural Resources erstwhile in College of Agriculture, PAU were transferred to this newly established college in April 2019. Dr. Gill was then appointed Founder Dean of the College of Horticulture and Forestry on 28th August 2019, after University selection process through an open advertisement of the post in newspapers and other fora followed by interview and presentation discussing the initiatives planned by the applicant for fulfilling the mandate of the post. The Dean is appointed for four years. The Dean of the College has the overall responsibility to implement the resident instruction programmes and to monitor the smooth operation of various departments. Distribution of funds allotted to the College by the University for executing the teaching programmes is also undertaken by the Dean in accordance with the needs of various departments. The utilization of these funds by the departments is monitored regularly to ensure that the funds are used for the purpose for which they are provided. However, at University level, the budget is controlled by the Comptroller. Next to the Dean in the administrative set-up is the Head of the Department. Dr. H.S Rattanpal, Dr. Tarsem Singh Dhillon, Dr. Parminder Singh and Dr. G.P.S Dhillon is Head, Department of Fruit Science, Vegetable Science, Floriculture & Landscaping and Forestry & Natural Resources.

The College undertakes teaching, research and extension activities in different disciplines of Horticulture. The overall goal of the College is to develop skilled human resources in Horticultural and allied fields, managing and using production resources to provide livelihood security to the rural people of Punjab and enhancing environmental security. Diversification in agriculture of Punjab is the key policy issue of state government and horticulture is one of the best options for enhancing farmers income per unit area and sustaining general agriculture in Punjab. This College aims to produce graduates, postgraduates having rich experience in horticulture.

The College offers an undergraduate, Masters, Doctorate and two Diploma courses at main campuses of PAU as per details below (Table 1).

Table 1: Teaching programmes offered by College of Horticulture and Forestry

S. No.	Name of Programme	Number of Seats
Undergraduate Programme		
1.	B.Sc. (Hons.) Horticulture 4year	60
Masters' Programme		
1.	M.Sc. Horticulture (Fruit Science)	16
2.	M.Sc. Horticulture (Vegetable Science)	16
3.	M.Sc. Horticulture (Floriculture & Landscaping)	10
4.	M.Sc. Forestry	10
Doctoral Programme		
1.	Ph.D. Horticulture (Fruit Science)	8
2.	Ph.D. Horticulture (Vegetable Science)	8
3.	Ph.D. Floriculture & Landscaping	4
Diploma Course		
1.	HSTC (Horticulture Supervisors Training Course)	25
2.	FLCC (Floriculture Landscaping Certificate Course)	30

6.5.1 College Administration

The administrative control of the College is with the Dean of the College. The Dean's post is sanctioned by the University Board of Management as defined in the

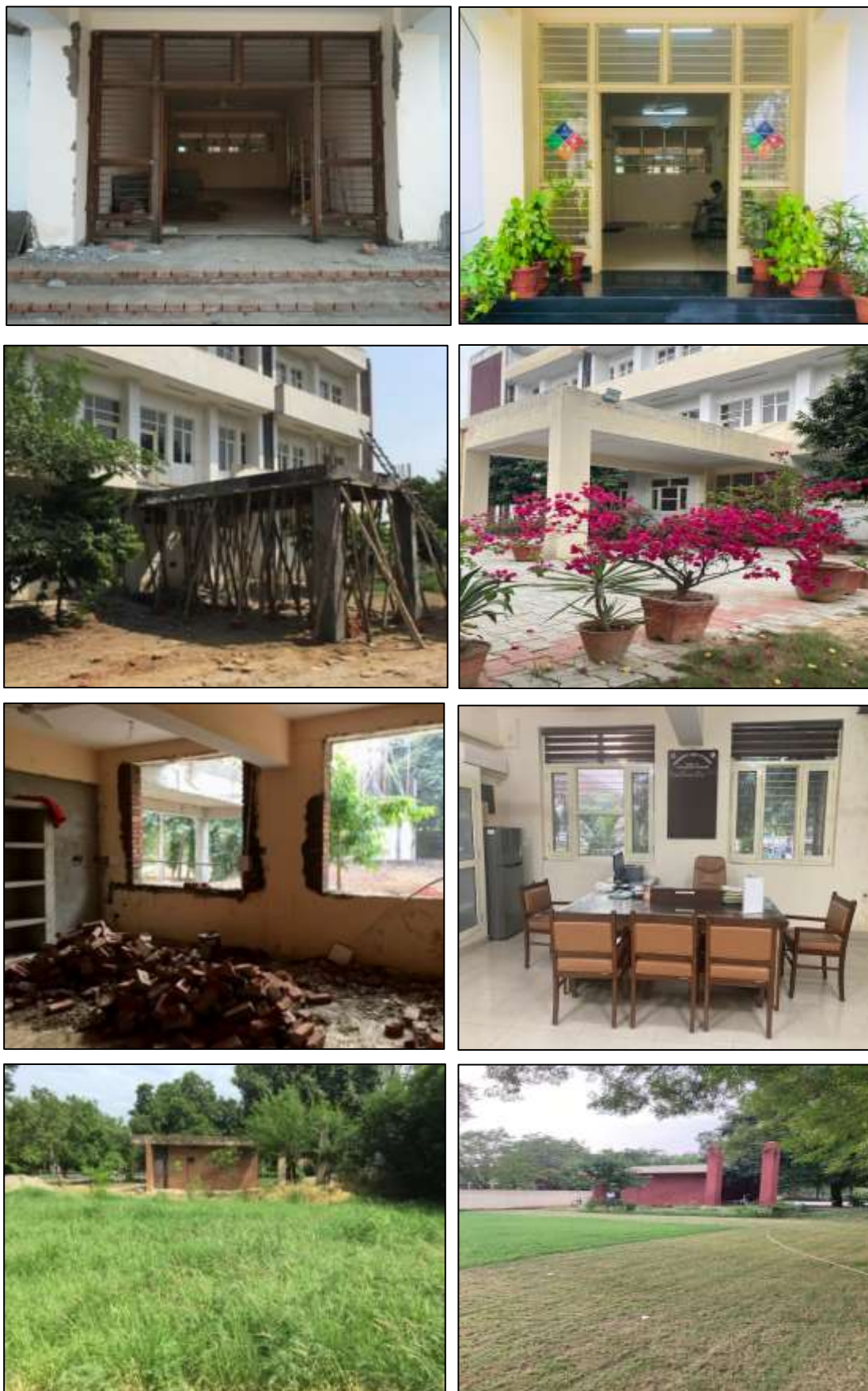
PAU Act & Statutes who in turn, reports to the Vice Chancellor of the University.

6.5.1.1 College Dean's Office Establishment

After BOM formal approval in October 2018 for establishment of College of Horticulture and Forestry, it was a big challenge to establish a new college. The first priority was to look for appropriate siting space, where Dean and its Office could be established in a make shift manner. As a follow up action of the same, 2 rooms on first floor of College of Agriculture, adjoining the room of University Placement Cell Coordinator- Dr. Sarbjeet Singh in College of Agriculture, PAU were allotted by University administration in August 2019. The minimal furniture required for Dean and its office was borrowed from the constituent departments of this college.

Meanwhile, the correspondence was initiated with PAU Administration for appointment of regular office staff as well as for identification of an appropriate site for establishment of regular Dean Office of this new college. At the same time the necessary formalities were initiated for start of B.Sc (Hons) Horticulture 4 year degree programme in this college. The site for construction of Dean office was finalized in 2019. A part of the existing building- Dr. K.S Aulakh Examination Hall cum Lecture Theatre complex, the ground floor was selected for construction of Dean office. Accordingly, the architectural design of the office was finalized in November 2019 with the help of in house PAU architect and the construction work was started in June 2020 with a total outlay of Rs 31.76 lacs. The boundary wall was approved by competent authority in October 2020 and constructed around the college premises for demarcation of its area and the front was demarcated with natural hedge. The basic office requirements such as furniture, photostat machine, computers, printers, scanners, LCD screen for display purposes in the committee room were purchased for the office and its staff. The Dean office after construction was handed over to the college in February 2021. The Assistant Professor, Education- Dr. Trina Adhikary joined this office in February 2021. Meanwhile, the office supporting staff also got appointed in the college

The surroundings of the Dean office were developed from a wild area into beautifully decorated lawns and partly into a parking area of the college, where students and teachers can park two wheelers and four wheelers, respectively. Off late in the Dean office complex, a knowledge hub has been established for the students of the college, so as to impart general awareness among the students. The details of the supporting staff in the office of Dean are presented in Table 2.



Dean Office College of Horticulture and Forestry (Before and After establishment)



Dean Office Surroundings-College of Horticulture and Forestry

Table2: Supporting Staff in the Office of the College of Horticulture and Forestry

S. No.	Name of the Post	Number
1.	Superintendent	1
2.	Senior Assistant	3
3.	Personal Assistant	1
4.	Senior Scale Steno	1
5.	Clerk	1
6.	Steno	1
7.	Messenger	1
8.	Graduate Assistant	1
9.	Data Entry Operator	1
10.	Driver	1
11.	Security Guard	1
12.	Sweeper	2
13.	Office Helper	2
14.	Mali	1

Infrastructure

The main building being used by the College has a floor area of 62.2 thousand m² which comprises lecture room complex (Ist Floor), Dean's office (Ground floor), Book Bank (Ground Floor), and of two Examination halls (Ground Floor and IIndFloor).

6.5.1.2 Monitoring Mechanisms for Quality Education

Following mechanism have been developed and exercised by the College for strictly monitoring the academic and other activities to ensure quality education.

- The concerned teachers submit the detailed course outline, books to be referred to students, in the beginning of the semester to the Dean and distribute among students.
- The first hourly and mid-term question papers are screened at Dean's level for their comprehensiveness and student's evaluation quality. Teachers are stressed upon to evaluate the conceptual clarity of the students and to devise hourly and mid-semester exams by using a mix of fill-ups, matching, multiple choice and subjective type questions.
- All teachers are instructed to show answer sheets and discuss the hourly and mid- term question papers with the students in the class. The external system of evaluation is being followed for end-of-term examinations.
- The mid-term results of all the students along with the attendance statement are submitted in the office of the Dean. The Dean in consultation with advisors remain in touch with students having poor academic results and attendance shortages to counsel the students for academic improvements.
- The Dean monitors the monthly attendance of the students in all the courses, based on which the concerned students are sensitized to maintain regularity in the classes.
- The College has adopted the system of teacher's evaluation by the students. The student's identity is not revealed for this evaluation to ensure fair evaluation. Based on this evaluation, the teachers are sensitized to improve upon their teaching skills and methodology. The teachers rated the best are motivated by giving appreciation certificate.
- The students are asked for the suggestions/feedback through a dedicated group of students named "Student-Ambassadors" so as to improve the teaching

system in the College. The suggestions/ feedback is also physically collected in suggestions/complaints box.

- To prevent any incidence of ragging and intimidation of the newly admitted students, an anti-ragging squad of the College has been formulated for strict monitoring in the College lecture rooms. The details of this squad are available on the University website.
- The closed-circuit cameras have been installed in all the lecture rooms of the College to monitor the regularity of classes and teaching discipline by the Dean.

Research Monitoring Mechanism

- At the department level, there is an Academic Affairs Committee and Research Committee which plans and evaluates research work done in all the constituent departments of this College. In addition, the research problems of M.Sc. and Ph.D. students are also discussed in this committee.
- There is a synopsis approval committee at the University level wherein the Dean, College of Horticulture and Forestry is member and Dean, Postgraduate Studies is Convener.
- The research at University level is coordinated by the Director of Research, the research proposals submitted by the faculty are reviewed at College level, before forwarding them to the Director of Research, by the Project Review Committee (PRC) with Dean of the College as its chairman.
- All the Heads of the departments of College of Horticulture and Forestry are members of PRC. The Additional Director of Research (Horticulture & Food Science) is the Member Secretary. The concerned teacher(s) who wish to submit new research projects are invited to the meetings of the committee for presenting their proposals.
- After reviewing these projects and getting the necessary changes incorporated therein, these projects are submitted to the financing agencies for funding through the Director of Research.
- All the research conducted in the department is presented for approval in the Research Evaluation Committee (REC) at the University level. Once approved by the committee the recommendation is published in the University publications, particularly as a package of practices, for the Farmers.

- There is a research council in the University where all the research activities conducted in the College are discussed and approved.

Extension Monitoring Mechanism

- Extension activities of the faculty are monitored at College and the University level.
- The extension activities of different departments are conducted under Farm Advisory Service centres, training units of the College and Krishi Vigyan Kendra's (KVK).
- Visits of subject Matter Specialist are conducted for monitoring of adaptive research trials being conducted at KVK and Farmer's fields.
- There is an extension council in the University where all extension activities conducted in the College are discussed and passed.
- Extension activities include extension workshops (Vegetable, Fruits, Floriculture Forestry) field days, Farmer- Scientist interface meetings, feedback from the Farmers, crop surveillance and Farmer's training camps.
- The Dean of the College is member of the committee for selection of farmers for various awards at the *kisan melas* organized by the University.

Administrative Monitoring Mechanism

For administrative decision making in the College, a fairly decentralized approach is followed. The entire faculty and non-teaching staff in the departments are under direct control of the Head of the Department. The Head gets inputs from various committees formulated at department level and, if required, may send the case to the Dean/ Director of Research/Director of Extension Education for final decision. Sometimes the nature of the case requires decision at the highest level, and in that case, the matter is referred to the Vice Chancellor, through the Registrar/Comptroller. The decision taken by the Vice Chancellor is final and is conveyed to the concerned accordingly.

Financial Monitoring Mechanism

For ensuring judicious use of University funds, the financial powers have been appropriately dispersed. These financial powers are subjected to regular review, for proper utilization of the funds to meet the projected goals. The sanctions for various purchases are accorded by the Head, Dean or Vice Chancellor depending upon the nature and cost of work being undertaken.

6.5.1.3 College Committees/ Board of Studies

College Level Committees

The College has constituted a number of committees to assist in the decision-making process in respect of various important matters, including academic affairs, maintenance of discipline, conduct of examinations, management of students' aid fund, sports, NSS, NCC, maintenance and upkeep of the College building and book bank. The Dance Drama and Music club (DDMC) president look after the dance drama and music activities, fine arts and literary events, etc. of the College. The students are motivated in these activities and they participate in annual youth festivals. These committees carry out activities in their respective spheres under the overall guidance of the Dean. At present 18 committees are functional in the College as detailed in Table 3.

Table 3: Committees in the College of Horticulture and Forestry

S. No.	Name of the Committee
1.	Academic Affairs Committee
2.	Anti-Ragging Flying Squad
3.	Computer Technology and Telecommunications Committee
4.	External Examination Committee
5.	Examination and Time-table Committee
6.	Faculty Hearing and Disciplinary Committee
7.	Parent-Teacher Association Committee
8.	Project Review Committee
9.	Reports Compilation and Publication Committee
10.	Sports Committee
11.	Students' Aid Fund Committee
12.	Sexual Harassment at Workplace Committee
13.	Maintenance of Dr. K.S Aulakh Examination Hall, Class room complex and Dean Office
14.	Student Grievance Redressal Committee
15.	Placement & Counselling Committees
16.	Literary Events Committee
17.	Committee to Improve Teaching Facilities, Aids and Maintenance of Lecture Rooms
18.	Resident Instruction Committee

Board of Studies

For regulating the academic programmes, development and revision of course curricula of undergraduate and postgraduate programmes, the College has a statutory body the Board of Studies with Dean, of the College as its chairman. The external member is nominated by the Vice Chancellor, on the recommendation of the Dean Dr. K.K. Jindal Ex ADG Horticulture (ICAR) is the external member of Board of Studies, COH & F. Other members of the committee are Dean, Post Graduate Studies, the constituent Heads of the departments in the College and the senior most Professor, Associate Professor and Assistant Professor. Secretaries of Boards of Studies of other constituent Colleges in the University are special invitees to the meetings of Board of Studies. This is the highest academic authority at the College level. The recommendations made by the Board of Studies are discussed by Resident Instruction Committee and the Academic Council at the University level. The details of the date of conduct of the meetings for the period 2019-2023 along with recommendations in tabular form are presented in Table 4.

Table 4: Details of the Meetings of Board of Studies during 2018-2023

S. No.	Meeting No.	Date	Agenda Items
1.	1 st	01.07.2019	Item No. I. To finalize the courses to be offered to B.Sc. (Hons) Horticulture 4- year programme during the semester 2019-20. Item No. II. To propose new Horticulture courses viz: Hort 101 and Flori 101.
2.	2 nd	19.11.2019	Item No. I. To finalize the courses to be offered to B.Sc. (Hons) Horticulture 4 - year programme
3.	3 rd	17.11.2020	Item No. I. To confirm the proceeding of Board of Studies, COH & F. To finalize the courses to be offered to B.Sc. (Hons) Horticulture 4 - year programme.
4.	4 th	17.11.2021	Item No. I. To finalize the Educational Tour to be offered to B.Sc. (Hons) Horticulture 4 - year programme.

S. No.	Meeting No.	Date	Agenda Items
5.	5 th	31.01.2022	Item No. I. Admission in Ph.D. Programme in Floriculture & Landscaping as In-service candidate after Superannuation from Govt. Service
6.	6 th	30.05.2022	Item No. 1. Finalization/Revision of course curriculum of the Post graduate courses of the College of Horticulture and Forestry as per the report of the BSMA Committee.
7.	7 th	29.09.2022	Item No. I. Approval/Revision of rules for award of Late Sh. Kashmir Singh Dhillon Memorial Medal for excellence in Academics in Ph.D. Horticulture (Vegetable Science).
8.	8 th	14.12.2022	<p>Item No. I. Approval/Revision of rules for award of Late Sh. Kashmir Singh Dhillon Memorial Medal for excellence in Academics in Ph.D. Horticulture (Vegetable Science).</p> <p>Item No. II. Approval/Revision of rules for award of Dr. APS Gill Gold Medal for excellence in Academics in M.Sc. Horticulture (Floriculture & Landscaping).</p> <p>Item No. III. Implementation of restructured and revised syllabi of Ph.D. programmes as per BSMA recommendations</p> <p>Item No. IV. Increase in the ICAR quota seats for PG and Ph.D. for admission in ICAR accredited SAU's through ICARs AIEEA 2022-23.</p>
9.	9 th	03.08.2023	Item No. I. Approval of Logo for College of Horticulture and Forestry, PAU.
10.	10 th	17.11.23	<p>Item No. I. Approval of rules for award of “Dr. Gagandeep Singh Uppal Memorial Fellowship” to a student pursuing. B.Sc. Horticulture (Hons.) Programme</p> <p>Item No. II. Approval of Educational tour 2023-24</p>

Students' Advisement and Involvement in Committees

In a number of College level committees, there are student representatives who are involved in the process of decision making. For each section of B.Sc. (Hons.) Horticulture class, Class Representative (CR) is appointed by consensus. For each group of 6-10 students of each class, there is a teacher, who is their group In-charge (Advisor). These groups are made on the day of registration for first semester of admission. The advisor remains the same till the completion of degree of the student.

The students are free to approach the Dean, directly, or through their class representatives, their advisors or in charge of their class, regarding academic matters or any other difficulties that they may be facing. The students also make their inputs through their participation in various College level committees.

Communication with the students is ensured at all levels. The Dean himself meets all the undergraduate students of the College in each semester in a group. Similarly, every class Incharge holds 3-4 meetings with the students every semester. The UG students meet their advisors once every week. The hostel wardens keep very informal liaison with the boarders so that their difficulties and grievances are addressed immediately at appropriate levels.

6.5.1.4 Anti-Ragging Cell

Every year Anti-Ragging committees/ Flying Squads are constituted to check the incidences relating to ragging of fresh students admitted to various degree programmes in the College. The names and contacts (mobile numbers) of the teachers who have been deputed to check ragging, are displayed on the University website (www.pau.edu). The committee members are advised to make frequent visits to the hostels during odd hours to make sure that newly admitted students are not subjected to any ragging/ ill-treatment in the hostels. They also keep check on the activities of the students during day time in the College premises. Strict and punitive disciplinary action is taken as per guidelines of UGC, if any ragging activity is noticed.

6.5.1.5 Biological Waste Disposal Facility

The various department of this College undertake stringent measures for handling and disposal of the harmful wastes originating from various laboratories.

6.5.1.6 Institutional ethics committee for experiment on animals

No experiments involving animals are conducted in the College. However, the college follows the guidelines of the University Ethics Committee for experiment on Animal constituted under the chairmanship of Director of Reserch.

6.5.1.7 Committee for Prevention of Sexual Harassment of Women at Work Places

The committee to deal with such cases also exist at the University as per UGC guidelines. The committee looks after time to time acquisition, if any, for prevention of sexual harassment of women at workplace.

6.5.2 Faculty

The college has well qualified competent faculty to accomplish the mission and goals of the college and to contribute towards effective teaching and student learning outcomes.

6.5.2.1 Faculty Strength

The College is headed by the Dean. Presently, Dr. M.I.S Gill, a highly decorated fruit scientist is the Dean of the College. The teachers perform threefold duties of teaching, research, and extension. The teaching cadre includes Professors, Associate Professors, and Assistant Professors and its equivalent cadres in research and extension education (Table 5).

- The faculty is further supported by Teaching Assistants in theory and practical classes.
- In addition to the faculty of departments in the College of Horticulture and Forestry, the faculty from various departments of Colleges of Agriculture, Colleges of Basic Sciences and Humanities, College of Agricultural Engineering & Technology and College of Community Science are also deputed to teach various additional courses in the College (Table 6 &7) to provide all encompassing knowledge.

6.5.2.2 Faculty Profile

Faculty employed in the teaching scheme devotes two third of his/her time in teaching which includes delivering lectures, conducting practicals, field visits, hands on training etc. They further help in counseling, guiding, and advising students in their research programmes. Similarly, the faculty employed in research and extension schemes devote two-thirds of their time in undertaking research and extension activities, respectively and one third to teaching assignments allotted to them. The faculty consists of a high number of well-trained dedicated and passionate teachers with designation of Professor and equivalent, Associate Professor and equivalent, Assistant Professor and equivalent and Teaching Assistants (Table 7).

Table 5: Regular Faculty

S. No.	Name of Department	Professor Level	Associate Professor Level	Assistant Professor Level	Total
1.	Fruit Science	11	05	07	23
2.	Vegetable Science	11	03	13	27
3.	Floriculture & Landscaping	03	00	07	10
4.	Forestry & Natural Resources	09	00	02	11
5.	College of Horticulture & Forestry	01	00	01	02
Total		35	08	30	73

Table 5.1: Regular Faculty Profile**1.1 Office of Dean, College of Horticulture & Forestry**

S. No	Name	Designation	Contact No.	Email-ID
1.	Dr. M.I.S. Gill	Dean, COH&F	9464878221	deancohf@pau.edu
2.	Dr. Trina Adhikary	Assistant Professor (Education)	9679041944	trina@pau.edu

1.2 Department of Fruit Science

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
1.	Dr. H.S. Rattanpal	Principal Horticulturist cum Head	Citrus breeding, Fig	7999777773	hsrattanpal@pau.Edu
2.	Dr. B.V.C. Mahajan	Principal Fruit Scientist cum Director, PHPTC	Post-harvest technology of horticultural crops	9417855105	bvc_mahajan@pau.edu

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
3.	Dr.Harmin der Singh	Principal Fruit Scientist	Peach, Nursery production	8146444554	harminder@pau.edu
4.	Dr.Parampal Singh Gill	Principal Fruit Scientist	Pear, Pomegranate	8360736046	parampalgill@pau.edu
5.	Dr. Jaswinder Singh Brar	Principal Fruit Scientist	Guava, Ber, Dragon fruit	9915833793	jsbrar74@pau.edu
6.	Dr. Navprem Singh	Professor (Fruit Science)	Litchi, Mango, Strawberry	8146100711	navpremsingh@pau.edu
7.	Dr.Sukhjot KaurJawandha	Principal Fruit Scientist	Plum, Lime, Lemon	8146197777	skjawandha@pau.edu
8.	Dr. N. K. Arora	Principal Fruit Scientist	Grapes, Guava	8146500221	nkarora@pau.edu
9.	Dr. Anirudh Thakur	Professor (Fruit Science)	Peach, virus free citrus nursery	8146269999	anirudhthakur@pau.edu
10.	Dr. Sandeep Singh	Principal Entomologist (Fruits)	Fruit Entomology	9815413046	sandeep_pau.1974@pau.edu
11.	Dr.Gurtej Singh Uppal	Senior Fruit Scientist	Citrus, Sapota	9815098883	gurteg-hort@pau.edu
12.	Dr. Karan Bir Singh Gill	Associate Professor (Fruit Science)	Ber, Jamun	8146361111	karanbirgill@pau.edu
13.	Dr. Gagandeep Kaur	Senior Fruit Scientist	Grapes, Guava	9872071306	gagandeep-kpr@pau.edu

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
14.	Dr. Mandeep Singh Gill	Senior Fruit Scientist	Pear, Papaya, Nursery production	9463405515	mandeepgill21@pau.edu
15.	Dr. Monika Gupta	Associate Professor (Fruit Science)	Citrus, Papaya	9501012586	monika-fzr@pau.edu
16.	Dr. Anita Arora	Senior Plant Pathologist (Fruits)	Fruit Pathology	9501030274	anitapau@pau.edu
17.	Dr. Harsimrat Kaur Bons	Senior Fruit Scientist	Loquat, Sapota	8146919997	harsimratpau@pau.edu
18.	Dr. Navtej Singh	District Extension Specialist (FASC SAS Nagar Mohali)	Extension	9872218677	navtejsingh@pau.edu
19.	Dr. Rachna Arora	Assistant Professor (Fruit Science)	Amla, Jamun	8146200510	rachnaarora@pau.edu
20.	Dr. Savreet Kaur Khaira	District Extension Specialist (FASC Tarn Taran)	Extension	8872383400	savreetkhehra@pau.edu
21.	Dr. Amandeep Mittal	Fruit Molecular Geneticist (SOAB)	Fruit Biotechnology	9646541009	amandeepmittal@pau.edu

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
22.	Dr. Kirandeep Kaur Kang	Fruit Scientist	Guava, Mango	9815804868	drkirankang@pau.edu
23.	Dr. Indira Devi	District Extension Specialist (MSR FRS Gangian)	Extension	8219661018	indu90@pau.edu
24.	Dr. Harpreet Singh	Plant Pathologist (Fruits)	Fruit Pathology	9780830137	harpreet-coapp@pau.edu
25.	Dr. Rajwinder Kaur Sandhu	Entomologist (Fruits)	Fruit Entomology	9779861180	kaurrajwinder6@pau.edu
26.	Dr. Rajbir Singh Boora	Principal Fruit Scientist (FRS Bahadurgarh)	Guava, Sapota, Bael, Jamun, Karonda	9257414777	rsboorapau@gmail.Com
27.	Dr. Tanjeet Singh Chahal	Fruit Scientist (FRS Jallowal)	Citrus	9814137547	tanjeetchahal@pau.Edu
28.	Dr. Sumanjit Kaur	Fruit Scientist (MSR FRS Gangian)	Mango, Litchi	8872428885	sumanjit@pau.edu
29.	Dr. Daljinder Singh	Fruit Scientist (FRS Bahadurgarh)	Guava, Sapota, Bael, Jamun, Karonda	8283803717	daljinderhorti@pau.edu
30.	Dr. Manveen Kaur	Extension Specialist (Fruits)	Mango, Banana, Strawberry	8146088233	manveenbatth@pau.edu
31.	Dr. Dimpy Raina	Assistant Professor (Fruit Science)	Citrus, Fig, Pomegranate	8427461118	dimpyraina2014@pau.edu

1.3 Department of Vegetable Science

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
1.	Dr. Tarsem Singh Dhillon	Principal vegetable Breeder cum Head	Carrot, French Bean	9464037325	hodvc@pau.edu
2.	Dr. Kulbir Singh	Principal Olericulturist	Vegetable Production and Kitchen Gardening	9463131081	kulbirpawar@pau.edu
3.	Dr. Neena Chawla	Principal Biochemist (Vegetables)	Biochemistry	9988500406	chawlaneena@pau.edu
4.	Dr. Rajinder Kumar Dhall	Principal Olericulturist	Pea, Beans, Cucumber, carrot, Cole crops, turnip and beet root	8283840078	rajinderkumar@pau.edu
5.	Dr. Mamta Pathak	Principal Olericulturist	Okra, Bitter Gourd and JharKarela	9463035028	mampathak@pau.edu
6.	Dr. Abhishek Sharma	Principal Virologist	Virology	9417538509	abhishek@pau.edu
7.	Dr. Satpal Sharma	Principal Vegetable Breeder	Potato, Muskmelon, Snapmelon, Cowpea	9915731974	sharmasp@pau.edu
8.	Dr. Deepak Arora	Principal Scientist Vegetables (Seeds)	Seed Production	8146300510	deepakarora@pau.edu

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
9.	Dr.Salesh Kumar Jindal	Senior Vegetable breeder	Tomato, Chilli, Capsicum	8968766600	saleshjindal@pau.Edu
10.	Dr.Sukheet Kaur	Senior Nematologist	Nematology	9815085014	sk-randhawa@pau.Edu
11.	Dr. Harpal Singh Bhullar	Entomologist	Entomology	9356662522	harpalsinghbhullar@pau.edu
12.	Dr. Mohinder Kaur Sidhu	Vegetable Breeder	Onion,Garlic, Brinjal,Pump kin and minor vegetables	9463664452	mksidhu@pau.edu
13.	Dr. Ruma Devi	Assistant Professor (Vegetables)	Pea, Beans, Cucumber, carrot, Cole crops, turnip and beet root	9878399555	rumadevi@pau.Edu
14.	Dr. Hira Singh	Assistant Professor	Palak, Methi	9501601144	hira@pau.edu
15.	Dr. Madhu Sharma	Assistant Professor (Vegetables)	Onion, Garlic, Brinjal, Pumpkin and minor vegetables	8437190641	madhusharma@pau.edu
16.	Dr. Sayeed A.H. Patel	Olericulturist	Tomato, Chilli, Capsicum	8528275885	Sayeed-coavc@pau.edu
17.	Dr. RupeetGill	Plant Pathologist	Plant Pathology	8872470676	rupeetgill@pau.Edu

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
18.	Dr. Om Prakash Meena	Vegetable breeder	Onion, Garlic, Brinjal, Pumpkin & minor vegetables	7087344214	opmeena@pau.Edu
19.	Dr.Jiffenvir Singh Khosa	Vegetable breeder	Onion, Garlic, Brinjal, Pumpkin and minor vegetables	9815430245	jiffenvir.pau@gmail.com
20.	Dr. Dilpreet Talwar	Extension Scientist (Vegetables)	Vegetable Production and Kitchen Gardening	9592772123	dilpreettalwar@pau.edu
21.	Dr. Barinder Kaur	Vegetable Breeder	Potato, Muskmelon, Snapmelon, Cowpea	9877501399	barinder-vs@pau.edu
22.	Dr. Buta Singh Romana	Principal Extension Scientist (Vegetables) FASC Sangrur	Extension	9417281311	Dr.butasinghromana@gmail.com
23.	Dr. Navdeep Singh Gill	Principal Ext Scientist (Vegetables) FASC, Barnala	Extension	8146100796	navkirngill@gmail.com
24.	Dr. Amarjit Singh	Principal Extension Scientist (Vegetables) FASC, Bathinda	Extension	8872200120	assandhu70@gmail.com
25.	Dr. Parvinder Singh	Senior Extension Scientist FASC, Shri Amritsar	Extension	8146322553	tungps1971-asr@pau.edu

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
26.	Dr. Navjot Singh	Vegetable Breeder	Potato, Muskmelon, Snapmelon, Cowpea	9466613412	navjotsbrar@pau.edu
27.	Dr. Parkash Mahala	Vegetable Scientist (FASC Fazila)	Extension and Bottle Gourd	9460045497	pmahala@pau.edu

1.4 Department of Floriculture & Landscaping

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	ContactNo.	Email-ID
1.	Dr. Parminder Singh	Professor (Floriculture & Landscaping) cum Head	Marigold, Protected cultivation, Orchids etc.	9779581523	parminder.flori@pau.edu
2.	Dr. K.K. Dhatt	Principal Scientist (Floriculture & Landscaping) cum Head	Gladiolus, Annuals, Dahlia, Turfgrasses	9463413742	kkdhattflori@pau.edu
3.	Dr. R. K. Dubey	Professor of landscaping	Nursery material of ornamental plants	9417460678	rkdebey.flori@pau.edu
4.	Dr. Ranjit Singh	Scientist (Floriculture & Landscaping)	Rose, Marigold, Protected cultivation, Bulbous crops	9463140872	ranjit_flori@pau.edu.
5.	Dr. Madhu Bala	Scientist (Floriculture & Landscaping)	Chrysanthemum and Tuberose	8727929902	madhu-flori@pau.Edu

6.	Dr. Aman Sharma	Plant Pathologist	Disease management of flower crops	9501824487	amansharma@pau.edu
7.	Dr. Shalini Jhanji	Plant Physiologist	Postharvest handling of flower crops	9872972256	Shalinijhanji@pau.edu
8.	Dr. Tanya Thakur	Scientist (Floriculture & Landscaping)	Annuals and Gladiolus	7710299077	tanyathakurflori@pau.edu
9.	Dr. Simrat Singh	Scientist (Floriculture & Landscaping)	Dahlia, Turfgrasses, Woody perennials and Bonsai	9815793196	simratflori@pau.edu
10.	Dr. Rishu Sharma	Scientist (Floriculture & Landscaping)	Turfgrasses, Protected cultivation and Bonsai	8872420997	rishusharma155@pau.edu

1.5 Department of Forestry & Natural Resources

S. No.	Name	Designation	Associated Crop/ Specialized Area of Research	Contact No.	Email-ID
1.	Dr. G.P.S. Dhillon	Principal Tree Breeder Cum Head	Tree Improvement	8146300636	Dhillongps1@pau.edu
2.	Dr. R.I.S. Gill	Principal Scientist (Agroforestry)	Agroforestry	8146600670	rishigill@pau.edu
3.	Dr. Sanjeev K. Chauhan	Professor (Forestry)	Silviculture and Agroforestry	9872970335	chauhanpau@pau.edu
4.	Dr. Baljit Singh	Principal Scientist (Soil Conservation)	Soil Science	8146500629	singh-baljit@pau.edu

5.	Dr. Kamaldeep Singh Sangha	Principal Entomologist	Forest Entomology	8146750055	kssangha@pau.Edu
6.	Dr. Harmeet Singh Saralch	Professor (Forestry)	Silviculture and Forest Mansuration	9878642096	harmeet@pau.edu
7.	Dr. Avtar Singh	Principal Scientist (Forestry)	Agroforestry	9417060676	Avtar-btipau.edu
8.	Dr. Rakesh K. Garg	Professor (Forestry)	Silviculture and Tree Improvement	9501020930	gargrk72@pau.Edu
9.	Dr. Navneet Kaur	Principal Agronomist	Agronomy Agroforestry	9779117117	navik20@pau.edu
10.	Dr. Ashok Kumar Dhakad	Tree Breeder	Tree improvement	9465330193	ashokdhakad@pau.edu
11.	Dr. Sapna Thakur	Assistant Professor (Forestry)	Tree Improvement	9418317414	sapnathakur@pau.edu

Table 5.2: In-position Faculty Strength of the Dean Office of College of Horticulture and Forestry

Designation	2018-19		2019-20		2020-21		2021-22		2022-23		Staff recommended by ICAR/UGC/VCI/ other regulatory bodies
	In place	Vacant	In place	Vacant	In place	Vacant	In place	Vacant	In place	Vacant	
Professor Level	1	-	1	-	1	-	1	-	1	-	All the posts are recommended
Associate Professor Level	-	-	-	-	-	-	-	-	-	-	
Assistant Professor Level	-	-	-	-	1	-	1	-	1	-	

Table 6: Part-Time Faculty Strength Deputed from the Other Departments for Teaching Courses in the College of Horticulture and Forestry

Department	Year		Year	
	2019-20	2020-21	2021-22	2022-23
Agronomy	2	4	6	6
Agricultural Journalism, Languages & Culture	1	4	3	2
Biochemistry	3	6	2	3
Botany	4	5	4	4
Climate Change & Agricultural Meteorology	3	3	2	
Economics & Sociology	-	3	2	2
Electrical Engineering & Information Technology	2	2	2	2
Entomology	-	-	5	6
Extension Education and Communication Management	-	2	1	3
Farm Machinery & Power Engineering	-	1	1	1
Food & Nutrition	-	2	1	2
Food Science & Technology	-	2	2	2
Human Development & Family Resource Management	2	2	2	3
Mathematics, Statistics & Physics	3	4	2	4
Microbiology	1	2	3	2
Plant Breeding & Genetics	3	6	5	6
Plant Pathology	3	3	5	4
School of Agricultural Biotechnology	1	3	7	3
Soil Science	3	7	-	14
Soil & Water Engineering	-	1	2	1
School of Business Studies	1	3	2	3

Table7: List of Part-time Faculty Deputed from the Other Departments for Teaching UG Courses in College of Horticulture and Forestry

Department	Courses	Year			
		2019-20	2020-21	2021-22	2022-23
Botany	Bio 102, Bio_102	1. Dr. Gagandeep Kaur 2. Dr. Rajwinder Singh	1. Dr. Shilpa Panjgotra 2. Dr. Gagandeep Kaur 3. Dr. Rajwinder Singh	1. Dr. Prinka Goyal 2. Dr. Rajwinder Singh	1. Dr. Prinka Goyal 2. Dr. Rajwinder Singh
	Bot 104, Bot_104	1. Dr. Prinka Goyal 2. Dr. Shalini Jhanji	1. Dr. Navjyot Kaur 2. Dr. Namarta Gupta 3. Dr. Gagandeep Kaur	1. Dr. Navjyot Kaur 2. Dr. Norah Johal	1. Dr. Navjyot Kaur 2. Dr. Norah Johal
Biochemistry	Biochem 101, Biochem _101	1. Dr. BavitaAsthir 2. Dr. Gurpreet Kaur 3. Dr. Vikramjit Kaur Zhawar	1. Dr. Satvir Kaur Grewal 2. Dr. Anju Sharma 3. Dr. Sanjula Sharma 4. Dr. Surekha Bhatia 5. Dr. Gurpreet Kaur 6. Dr. Rachana Devi Bhardwaj	1. Dr. Anju Sharma 2. Dr. Sanjula Sharma 3. Dr. Vikramjit Kaur Zhawar	1. Dr. Anju Sharma 2. Dr. Sanjula Sharma 3. Dr. Vikramjit Kaur Zhawar
Agricultural JournalismLang uages & Culture	Eng 101, Eng_101	1. Dr. Rakhpreet Kaur Walia	1. Ms. Hina Goyal 2 Dr. Rakhpreet Kaur Walia	1. Ms. Hina Goyal	1. Ms. Hina Goyal
	Eng 201	-	1. Ms. Hina Goyal 2. Dr. Sumedha Bhandari	1. Dr. Rakhpreet Kaur Walia	2. Dr. RakhpreetKaurWalia

Department	Courses	Year			
		2019-20	2020-21	2021-22	2022-23
Human Development & Family	HDFS 106, HDFS_106	1. Dr. Mrs Ritu Mahal 2. Dr. Deepika Vig	1 Dr. Prachi Bisht 2 Dr. Asha Chawla 3 Dr. Tejpreet Kaur Kang	1. Dr. Asha Chawla 2. Dr. Prachi Bisht 3. Dr. Vandana Kanwar	1 Dr. Asha Chawla 2 Dr. Prachi Bisht 3 Dr. Vandana Kanwar
Mathematics, Statistics & Physics	Math 103, Math_103	1. Dr. Manpreet Kaur 2. Mr. Harmandeep Singh	1. Ms. Manpreet Kaur 2. Dr. Narinder Kaur	1. Dr. Narinder Kaur 2. Dr. Rupinderjit Kaur Dhanoa	1 Dr. Narinder Kaur 2 Dr. Rupinderjit Kaur Dhanoa
	Stat 206	1. Dr. Amrit Kaur	1. Dr. I.S. Grewal 2. Dr. Gurjeet Singh Walia	-	1. Dr. I.S. Grewal 2. Dr. Amrit Kaur
Microbiology	Micro 102, Micro_102	1. Dr. Jupinder Kaur	1. Dr. Jupinder Kaur 2. Dr. Suman Kumari	1. Dr. Ajit Kaur 2. Dr. Jaspreet Kaur	1. Dr. Jaspreet Kaur 2. Dr. Ajit Kaur
Plant Breeding & Genetics	PBG 102, PBG_102	1. Dr. Inderpreet Dhaliwal 2. Dr. Gurjit Kaur 3. Dr. Achla Sharma	1. Dr. Mehak Gupta 2. Dr. Gurjit Kaur 3. Mr. Ashutosh Kushwah	1. Dr. Mehak Gupta 2. Dr. Meenakshi Mittal	1. Dr. Mehak Gupta 2. Dr. Meenakshi Mittal
	PBG 201		1. Dr. Simarjeet Kaur 2. Dr. Indu Rialch 3. Dr. Satwinder Kaur Dhillon	1. Dr. Parul Sharma 2. Dr. Simarjeet Kaur 3. Dr. Indu Rialch 4. Dr. Gurjit Kaur	1. Dr. Parul Sharma 2. Dr. Simarjeet Kaur 3. Dr. Indu Rialch 4. Dr. Gurjit Kaur
Soil Science	Soils 101, Soils_101	1. Dr. Sumita Chandel 2. Dr. Satpal Saini	1. Dr. Meharban Singh Kahlon 2. Dr. Sumita Chandel	1. Dr. Hari Mohan Meena 2. Dr. Jeevanjot	1. Dr. Hari Mohan Meena 2. Dr. Jeevanjot 3. Dr. Naveen Gupta

Department	Courses	Year			
		2019-20	2020-21	2021-22	2022-23
			3. Dr. Satpal Saini	3. Dr. Naveen Gupta	
	Soils 301	-	-	1. Dr. Lovedeep Kaur 2. Ms. Neeraj Rani 3. Dr. Jagdeep Singh 4. Dr. Kuldeep Singh	1. Dr. Lovedeep Kaur 2. Ms. Neeraj Rani 3. Dr. Jagdeep Singh 4. Dr. Kuldeep Singh
	Soils 304	-	-	-	1. Dr. Lovedeep Kaur 2. Dr. Jagdeep Singh 3. Dr. Kuldeep Singh
	Env 101	1. Dr. Baljit Singh 2. Dr. Sarabjot Kaur Sandhu 3. Dr. Jagdeep Singh 4. Dr. Avtar Singh	1. Dr. Varinderpal Singh 2. Dr. Sarabjot Kaur Sandhu 3. Dr. Jagdeep Singh 4. Dr. R.I.S. Gill	-	1. Dr. Amanpreet Kaur 2. Dr. Ashok Kumar Dhakad 3. Dr. Lovedeep Kaur 4. Dr. SarabjotKaurSandhu
Climate Change & Agricultural Meteorology	Agromet102, Agromet_102	1. Dr. .L.K. Dhaliwal 2. Dr. Harleen Kaur 3. Dr. Sarabjot Kaur Sandhu	1. Dr. L.K. Dhaliwal 2. Dr. Harleen Kaur 3. Dr. Sarabjot Kaur Sandhu	1. Dr. Harleen Kaur 2. Dr. Sarabjot Kaur Sandhu 3. Dr. L.K. Dhaliwal	1. Dr. Harleen Kaur 2. Dr. SarabjotKaurSandhu 3. Dr. L.K. Dhaliwal
Agronomy	Agron 104 Agron_104	1. Dr. Amrit Paul Singh Brar 2. Dr. Buta Singh	1. Dr. Amandeep Singh Sidhu 2. Dr. Amrit Paul Singh Brar	1. Dr. Amrit Paul Singh Brar 2. Dr. Sukhpreet Singh	1. Dr. Amrit Paul Singh Brar 2. Mr. Sukhpreet Singh

Department	Courses	Year			
		2019-20	2020-21	2021-22	2022-23
	Agron206	-	1. Dr. Shelly Nayyar 2. Dr. Navneet Kaur	1. Dr. Navneet Kaur 2. Dr. Vinay Kumar Sindhu	1. Dr. Navneet Kaur 2. Dr. Vinay Kumar Sindhu
	Agron 307	-	-	1. Dr. Rajender Kumar 2. Ms. Paramjit Kaur Sraw	1. Dr. Rajender Kumar 2. Ms Paramjit Kaur Sraw
	Agron 304	-	-	1. Dr. Satpal Singh 2. Mr. Sukhpreet Singh 3. Dr. S S Walia	1. Dr. Rajender Kumar 2. Dr. Vinay Kumar Sindhu 3. Dr. S SWalia
School of Agricultural Biotechnology	Biotech 206	1. Dr. Yogesh Vikal	1. Dr. Pooja Manchanda 2. Dr. ChiragUppal 3. Dr. Kumari Neelam	1. Dr. Gurupkar Singh Sidhu 2. Dr. Nikita Sandhu 3. Dr. Pawan Kumar Malhotra 4. Dr. Pooja Manchanda 5. Dr. Priti Sharma 6. Dr. Satinder Kaur 7. Dr. Yogesh Vikal	1. Dr. Gurupkar Singh Sidhu 2. Dr. Naresh Kumar Manda 3. Dr. Satinder Kaur
Electrical	CSE 101	1. Dr. Gaganpreet Kaur	1. Dr. Manpreet Kaur	1. Dr. Manpreet Kaur	1. Dr.Manpreet Kaur

Department	Courses	Year			
		2019-20	2020-21	2021-22	2022-23
Engineering & Information Technology	CSE_101	2. Dr. Manpreet Kaur	2. Dr. Shaveta Rani	2. Dr. Priya Sharma	2. Dr. Priya Sharma
Food & Nutrition	FN 205	-	1. Ms. Dayadeep Kaur 2. Dr. Shruti Jain	1. Dr. Shruti Jain	1. Ms. Dayadeep Kaur 2. Dr. Shruti Jain
Food Science & Technology	FT 201	-	1. Dr. Swati Kapoor	1. Dr. Nisha 2. Dr. Swati Kapoor	1. Dr. Hanuman Bobade 2. Dr. Neha Babbar
School of Business Studies	Mgt 201	1. Dr. Mohit Gupta	1. Dr. Sandeep Kapur 2. Dr. Rakesh Rathore 3. Dr. SarishmaKaushik	1. Dr. Rakesh Rathore 2. Dr. Sarishma	1. Dr. Rakesh Rathore 2. Dr. Sarishma 3. Dr. Sandeep Kapur
Plant Pathology	Pl Path 104	1. Dr. Sukhjeet Kaur 2. Dr. Anita Arora 3. Dr. Harpreet Singh	1. Dr. Sukhjeet Kaur 2. Dr. Anita Arora 3. Dr. Harpreet Singh	-	1. Dr. Amrinder Kaur 2. Dr. Anita Arora 3. Dr. Harpreet Singh
	Pl Path 304	-	-	-	1. Dr. Amrinder Kaur 2. Dr. Harpreet Singh 3. Dr. Rupeet Gill
Soil & Water Engineering	SWE 205	-	1. Dr. Jugraj Singh	1. Dr. PravinDahiphale 2. Dr. Harpreet Singh	1. Dr. Mahesh Chand Singh
	SWE 305	-	-	1. Dr. Mahesh Chand Singh	1. Dr. Mahesh Chand Singh

Department	Courses	Year			
		2019-20	2020-21	2021-22	2022-23
Economics & Sociology	Econ 201	-	1. Dr. Manjeet Kaur 2. Dr. SangeetRanguwal 3. Dr. Jatinder Sachdeva	1. Dr. Harsimranjit Kaur Mavi 2. Dr. Jatinder Sachdeva	1. Dr. Harsimranjit Kaur Mavi 2. Dr. JatinderSachdeva
Extension Education and Communication Management	Ext 201	-	1. Dr. Manmeet Kaur 2. Dr. Pankaj Kumar	1. Dr. Davinder Singh 2. Dr. Pankaj Kumar 3. Dr. Manmeet Kaur	1 Dr. Davinder Singh 2 Dr. Pankaj Kumar 3 Dr. Manmeet Kaur
Farm Machinery & Power Engineering	FMP 205	-	1. Dr. Mahesh Kumar Narang	1. Dr. Rohinish Khurana	1. Dr. Rohinish Khurana
Entomology	Ent 303	-	-	1. Dr. Harpal Singh Bhullar 2. Dr. Rajwinder Kaur Sandhu 3. Dr. Sandeep Singh	1 Dr. Harpal Singh Bhullar 2 Dr. Rajwinder Kaur Sandhu 3 Dr. Sandeep Singh
	Ent 302	-	-	-	1. Dr. Kamaldeep Singh Sangha 2. Dr. Jaspal Singh 3. Dr. Yuvraj Singh Pandha

Table 8: Faculty Profile of College of Horticulture and Forestry

Name of the Department	Designation	2018-19		2019-20		2020-21		2021-22		2022-23	
		In place	Vacant	In place	Vacant	In place	Vacant	In place	Vacant	In place	Vacant
Dean's Office	Professor & Equivalent	1	0	1	0	1	0	1	0	1	0
	Associate Professor & Equivalent	0	0	0	0	0	0	0	0	0	0
	Asstt. Professor & Equivalent	0	0	0	0	1	0	1	0	1	0
Fruit Science	Professor & Equivalent	11	0	11	0	11	0	11	0	10	0
	Associate Professor & Equivalent	3	0	9	0	9	0	9	0	6	0
	Asstt. Professor & Equivalent	10	0	13	0	13	0	13	0	11	0
Vegetable Science	Professor & Equivalent	5	1	6	0	7	0	11	0	11	0
	Associate Professor & Equivalent	5	3	7	3	9	1	5	1	5	1
	Asstt. Professor & Equivalent	10	5	10	6	11	4	10	5	10	5
Floriculture & Landscaping	Professor & Equivalent	2	0	2	0	2	0	2	0	2	0
	Associate Professor & Equivalent	0	0	0	0	0	0	0	0	0	0
	Asstt. Professor & Equivalent	6	1	7	0	7	0	7	0	7	0
Forestry & Natural Resources	Professor & Equivalent	10	0	10	0	10	0	9	0	9	0
	Associate Professor & Equivalent	0	0	0	0	0	0	0	0	9	9
	Asstt. Professor & Equivalent	2	0	2	0	2	0	2	0	0	0

6.5.2.3 Credentials of the Faculty

The University has employed well qualified competent faculty to accomplish the mission and goals of the college and to contribute towards effective teaching and student learning outcomes. The qualification, specific Credentials of the Faculty in Constituent Departments of College of Horticulture and Forestry are given in table no 9.

Table 9: Credentials of the Faculty in Constituent Departments of College of Horticulture and Forestry

1. Fruit Science

Designation	Matriculation		10+2		Ph.D.		
	Punjab	Outside	Punjab	Outside	Punjab	Outside	Abroad
Professor	8	3	8	3	9	2	0
Associate Professor	6	1	7	0	6	1	0
Assistant Professor	10	1	10	1	10	0	1

2. Vegetable Science

Designation	Matriculation		10+2		Ph.D.		
	Punjab	Outside	Punjab	Outside	Punjab	Outside	Abroad
Professor	8	2	8	2	8	1	1
Associate Professor	4	0	4	0	4	0	0
Assistant Professor	7	4	7	4	8	2	1

3. Floriculture & Landscaping

Designation	Matriculation		10+2		Ph.D.		
	Punjab	Outside	Punjab	Outside	Punjab	Outside	Abroad
Professor	2	0	2	0	2	0	0
Associate Professor	0	0	0	0	0	0	0
Assistant Professor	4	3	4	3	5	2	0

4. Forestry & Natural Resources

Designation	Matriculation		10+2		Ph.D.		
	Punjab	Outside	Punjab	Outside	Punjab	Outside	Abroad
Professor	6	3	6	3	4	4	1
Associate Professor	0	0	0	0	0	0	0
Assistant Professor	1	3	1	3	0	4	0

In order to keep abreast with the latest developments in their respective areas of research and to discuss and deliberate their research findings with the outside scientific fraternity, the faculty of the College attended various symposia, seminars, refresher courses, workshops during the period under report (Table 10).

Table 10: Faculty Achievements During 2018-2023

Award/ Honors /Recognition	Total Number	Fruit Science	Vegetable Science	Floriculture & Landscaping	Forestry & Natural Resources
International	3	1	0	0	2
National	23	10	12	0	0
Regional/State level	5	4	0	1	0
University level	7	6	1	0	0
Fellow	4	4	0	0	8
Award by Professional societies	7	4	0	3	0
JLN Award for Best Ph.D. Research	1	0	0	0	1
Fellowships/International visits	6	6	0	0	0

6.5.2.4 Technical and Supporting Staff

The College has appointed sufficient technical/laboratory/farm staff to cater to laboratory practical, field experiments and secretarial needs of the students in the various degree programmes. The details at the College level staff are provided in the Table 11 and the detailed department-wise composition of technical staff has also been provided Table 12.

Table 11: Number of Conferences/ Symposia/ Seminars/ Workshops/ Trainings/ Meetings Participated by the Faculty During 2018-2023

Department	Conferences/Seminars/ symposia/Congress/ Conventions		Workshops/Trainings/group meetings	
	International	National	International	National
Fruit Science	1	7	1	15
Vegetable Science	3	15	0	55
Floriculture & Landscaping	2	19	-	37
Forestry & NR	2	4	-	6

6.5.3. Learning Resources

The college has sufficient learning resources for the students. Details are given as follows;

6.5.3.1 College Library/Book Bank

- The College has a Book Bank which is managed by Dr. Trina Adhikary, Assistant Professor (Education) O/o Dean College of Horticulture and Forestry, assisted by two staff of above said office.
- Apart from these, students are also provided with the books by University Library (Dr. Mohinder Singh Randhawa Library). National digital library facility is also availed by the students.
- The students are being provided with the periodicals and research journals and are also available in digital mode through the subscription of journals via Consortium for e-Resources in Agriculture (CeRA), CMIE Prowess IQ, Indiatat.com, ISO Standards on Food Products and Krishikosh (An Institutional Repository of Indian National Agricultural Research System), Dictionary, Encyclopedia and Motivational Lectures).
- The constituent departments of the College also have their separate departmental libraries having a sufficient sitting capacity of persons and books on different subjects are available. (Table13).
- The UG and PG students of College of Horticulture and Forestry are also entitled to be the members of the University library for availing the facilities of journals, text books, e-books, magazines, dailies etc.

Table 12: Technical and Supporting Staff in Constituent Departments of College of Horticulture and Forestry

Department Supporting Staff	Fruit Science					Vegetable Science					Floriculture & Landscaping					Forestry &NR				
	2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23	2018-19	2019-20	2020-21	2021-22	2022-23
AAO/Superintendent	1	1	1	1	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-
Lab Assistant /Instrumentation Technician	-	-	-	-	-	4	3	3	2	2	-	-	-	-	-		2	2	2	2
Field Assistant	5	5	5	5	3	2	2	2	2	2		-	-	-	-		-	-	-	-
Attendant/Messenger	6	6	6	6	6	4	2	2	2	2	1	1	1	1	1	2	2	2	1	1
Beldar/FW/Mali	9	9	9	9	9	16	4	3	2	2	-	-	-	-	-	3	3	3	2	2
Assistants/ Senior Assistant	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
Steno/ Sr. Scale Stenographer	1	1	1	1	1	3	1	1	1	-	1	1	1	1	1	-	-	1	1	1
Drivers	-	2	2	2	2	3	2	2	2	2	-	-	-	-	-	2	2	1	1	1
Storekeeper	-	-	-	-	-	2	-	-	-	-		-	-	-	-		-	-	-	-
Clerks	1	1	1	1	1	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1
Technical Assistant	-	-	-	-	-	3	3	3	3	3		-	-	-	-	1	1	1	1	1
Computer Operator/ Assistant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All the documents in the library are arranged according to the Library of Congress Classification system, which is subject-based in open access system.

- The photocopying facility is being provided to the users within library premises. This service is highly used as the timings of this service are parallel to those of the library for convenience of the users.
- ‘Student Knowledge Hub’ has been developed in the college premises, to provide an updated general knowledge to the students. The hub contains current newspapers, magazines and other books/ booklets which are useful for students. The students are encouraged to update and maintain the Knowledge hub.



Knowledge Hub on Premises of College of Horticulture and Forestry

Table 13:Facilities in Departmental Libraries of the College of Horticulture and Forestry

Particulars	Department			
	Fruit Science	Vegetable Science	Floriculture & Landscaping	Forestry & NR
Room	1	1	-	1
Seating Capacity	25	4	-	12
Books	766	1014	153	290
Thesis	442	584	166	116
Dissertation	103	-	14	-
Manuals	10	5	7	6
Magazines	-	17	5	33
Other books	-	39	-	2
Any other (Reports/dailies)	-	7	10	39



Department of Fruit Science



Department of Vegetable Science



Floriculture and Landscaping



Forestry and Natural Resources

Departmental Libraries of Constituent Departments of COHF

6.5.3.2 Laboratories, Instructional Farm, etc.

The College is provided with sufficient number of classrooms, teaching & research laboratories and seminar, committee rooms and computer laboratories (Tables 14& 154). In addition to well-furnished classrooms, there are sufficient number of state-of-the-art Smart Classrooms in each department equipped with multimedia projector, computer with power back-up and Wi-Fi connectivity.

Table 14: College Building and the Area of Constituent Departments

S. No.	Buildings	Area (m ²)
1.	COHF Dean office & K S Aulakh classroom and lecturer room complex	1935
2.	Fruit Science	1347
3.	Vegetable Science	1347
4.	Floriculture & Landscaping	900
5.	Forestry & Natural Resources	975

Table 15: Research Laboratories in the College of Horticulture and Forestry

S. No.	Department	Number
1.	Fruit Science	2
2.	Vegetable Science	4
3.	Floriculture & Landscaping	2
4.	Forestry & Natural Resources	2

Instructional Farms

- Different departments have infrastructural farms dedicated completely to the teaching of UG and PG programmes as detailed in Table no 16.
- The College of Horticulture and Forestry has revised and implemented the course curricula as per the recommendations of Fifth Deans Committee at undergraduate level and as per the recommendations of BSMA constituted by ICAR at the postgraduate level. The new curricula have laid more emphasis on practical therefore, the College has strengthened/ created instructional farms in the prioritized areas.

Table 16: Instructional Farms in College of Horticulture and Forestry

S. No.	Department	Area (Acres)
1	Fruit Science	100
2	Vegetable Science	25
3	Floriculture & Landscaping	13.5
4	Forestry & Natural Resources	5

Green House, Glass-house, Poly house, Net house and Irrigation Infrastructure

The College has created infrastructure in the form of green/glass/poly/net houses to provide hands on training to UG and PG students. The College has also created good amount of facilities in the form of farm power, machinery, equipment and irrigation infrastructure etc. to carry out field experiments of short- and long-term durations in the different departments/Schools (Table 17).

Table 17: Farm Machinery and Irrigation Infrastructure

S. No.	Infrastructure	Number
Farm Power		
1.	Tractor	4
2.	Rotavator	7
Farm Implements		
1.	Disc Harrow	4
2.	Cultivator	3
3.	Planter	7
4.	Grass Cutter	3
5.	Leveler	1
6.	MB Plough	7
7.	Disc Plough	2
8.	Bund Former	2
9.	Ridger	1
10.	Digger	1
11.	Bed maker & mover	1
12.	Fertilizer cum bed maker	1
Equipment		
13.	Tractor Trolleys	3
14.	Transport Box	1
15.	Deep Tube-well	8
16.	Shallow Tube-well	4
17.	Canal outlet	1

6.5.3.3 Student READY/ In-Plant Training/ Internship/ Experiential Learning Programmes

Student READY programme

The student READY Programme was launched by the Prime Minister of India and implemented as per the Fifth Dean's Committee recommendations in all the undergraduate programmes.

This student READY programme includes the Experiential Learning Programme (ELPs)/ Hands on Training, Skill Development Training, Rural Agricultural Work Experience, In-Plant Training / Industrial Attachments and Student Projects to inculcate the practical knowledge and skills in the students during their exposure visits and practical training in the parent institute as well as at other government, semi-government, co-operative agencies and private industries related to agricultural and allied sectors in the state.



Under graduate students performing nursery raising practical

Experiential Learning Programme

The experiential learning programme (ELP) was introduced for the final year students of the undergraduate programmes of the College of Horticulture and Forestry. The experiential learning programme is practical based and field oriented programme during which the students visit the demonstration units and trials at PAU and their regional research stations, Krishi Vigyan Kendras & Farm Advisory Services Centre in the state. Students also attend the trainings in the agricultural centres of the state Department of Horticulture and the private industries to attain knowledge and skills.

- There are four experiential learning programs offered to the final year students of B.Sc. (Hons.) Horticulture (Table 18).
- The experiential learning programme has equipped the students with competence, practical skills, knowledge about the recent and innovative research and transfer of technologies as well as the market situation of the horticultural research and extension.
- Ten Agro-Industrial Attachment offered by College of Horticulture and Forestry (Table 19).

Table 18: List of ELPs offered by College of Horticulture and Forestry

S. No.	Department	Name of ELP	Funding Agency
1.	Fruit Science	Experiential Learning in Commercial Horticulture	PAU
2.	Vegetable Science	Experiential Learning in Commercial Vegetable Production	PAU
3.	Floriculture & Landscaping	Experiential Learning in Commercial Floriculture & Landscaping	PAU
4.	Forestry & Natural Resources	Experiential Learning in Nursery Production of Agro-forestry Trees	PAU

Table 19: List of Agro-Industrial Attachment offered by College of Horticulture and Forestry

S. No.	Course No.	Course Title	Credit Hours	Modules
1.	Hort. 491	Agro-industrial Attachment	0+4	(i) Commercial Fruit nurseries (ii) Farms of Progressive Fruit growers (iii) Fruit Processing Plants
2.	Veg. 491	Agro-industrial Attachment	0+4	(i) Commercial Vegetable nurseries (ii) Farms of Progressive Vegetable growers (iii) Vegetable Processing Plants
3.	Flori. 491	Agro-industrial Attachment	0+4	(i) Commercial Flower nurseries (ii) Flower Seed Production and Landscaping Units
4.	Forst. 491	Agro-industrial Attachment	0+4	(i) Forest based Industry (ii) Forest High-tech nursery (Tree Planting Stock Production)

Different Activities of Students at RAWE Programme



Virus Free Citrus Plant Production



Cuttings of Bougainvillea for Mass Multiplication



Nursery Raising of Chilli (CH-27) on Beds



Forest Plant Nursery Raising



Preparation of Seedbed at RRS, Ladowal



Polybag Filling for Fruit Crop Nursery at RRS, Bhatinda



Demonstration of Potato Planter Machine



Online Programme for Awareness



Soil Sampling for Analysis



Discussion with Teachers Regarding Campaign "Social Evil"



Collection of Data Regarding Custom Hiring

Exposure of UG Students Under Agro-Industrial Attachment



Visit to Plywood Industry, Hambra Road, Ludhiana



Demonstration of Nursery Raising of Forest Plants, Forestry Research Farm, PAU,



Visit to Carrot Field to learn Different Agricultural Practices Adopted for Carrot Cultivation



Quality Seed Tuber Production in Potato

6.5.3.4 Curricula Delivery through IT (Smart Class Rooms)

- There are five UG smart class rooms for delivery of lectures by teachers. The interactive boards also used as standalone touch screen computers for performing various tasks and operations. Each device has a dedicated Wi-Fi connection that is being used by the students for presentations, class assignments and group discussions.
- The College is providing technology support to the students and faculty for rendering quality education through Multimedia Projector, installed in all the class rooms for presenting the lectures.
- Internet connectivity has been provided for the delivery of National Knowledge Network (NKN) based online lectures.
- The faculty and students are using open source-based IT tools for dissemination of the knowledge. Links for these knowledge portals have been provided on the PAU

website.

- Every faculty and student are facilitated with E-mail Internet user IDs for communicating with outer world for achieving academic excellence.
- Wi-Fi facility is available for the use of students.
- Well established computer laboratory providing facilities like xeroxing, printing and scanning of documents is available.
- PowerPoint presentations and panel discussions are arranged by the teachers in each course to improve communication skills of the students.



Undergraduate Class in a Smart Classroom of COHF

6.5.4. Student Development

The College of Horticulture and Forestry aims at the overall development of the students. In addition to the academic activities, the College provides stage for holding extra-curricular activities by the students in the shape of various clubs such as Fine Arts and Photography Club, Dance Drama and Music Club etc. These clubs organize various events on regular basis to provide a stage for students to express and further hone up their co-curricular skills.

6.5.4.1 Student Intake and Attrition

- The number of seats in B.Sc. (Hons.) Horticulture 4-year programme is 60.
- B.Sc. (Hons.) Horticulture 4-year programme, a flagship programme of the College and University, provides opportunity to students for undergraduate and higher studies in horticulture.
- A total of 241 students got admitted in the Bachelors's degree programme and

the attrition percent varied from 0.00 to 3.00 over the period under report. (Table 20).

Table 20: Number of Students Admitted and Attrition in B.Sc. (Hons.) Horticulture 4th Programme

Course	Gender	Actual Students Admitted					Attrition (%)				
		2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
B.Sc. (Hons) Horticulture 4 year	Male	27	32	30	27	31	8.3	11.4	1.6	0.0	0.0
	Female	29	29	31	36	29	1.6	1.6	4.9	0.0	0.0
Total		56	61	61	63	61	9.9	13.0	6.5	0.0	0.0

6.5.4.2 Average Number of Students in Theory and Practical Classes

The average number of students in theory and practical classes for undergraduate is 50-60 and 25-30, respectively. In M.Sc. and Ph.D. programmes the numbers of students are 15-20 and 5-8, respectively for both theory and practical batches (Table 21).

Table 21: Number of Students in Theory and Practical Classes in different Degree Programmes

S. No.	Name of the Degree Programme	Batch of Students in Theory Class	Batch of Students in Practical Class
Undergraduate Programmes			
1.	B.Sc. (Hons.) Horticulture 4-year	50-60	25-30
Post Graduate Programmes			
2.	Masters' Programme	15	15
3.	Doctoral programme	5	5

6.5.4.3. Admission Process

The College has excelled in imparting horticultural education through its competent faculty and sufficient infrastructure available in four departments.

Mechanism of Admission to Various Programmes

The University admits students as per eligibility through competitive tests i.e.,

Common Entrance Test (CET) of B.Sc. (Hons.) Horticulture 4-year programme.

- For admission to various M.Sc. and Ph.D. programmes, Masters Entrance Test (MET) and Ph.D. Entrance Test (PET) is conducted, respectively.
- As per the guidelines from ICAR 25 per cent students from outside the state are admitted based on the national level test conducted by ICAR for M.Sc. programmes.
- The foreign students are also admitted to various PG programmes of the University upon recommendations of ICAR and various other funding agencies after they meet the minimum prescribed requirements for admission in the University.
- Admission to all Bachelors and Masters programme is made in 1st semester while that to Doctoral programmes in 2nd semester of the academic year.

Fee Payment Mechanism

- An online fee collection portal has been developed (Fig. 1) and implemented for collection of fee from the students. The students/parents can pay their fee through online banking viz. Net Banking, Credit Card, Debit Card or NEFT/RTGS etc.
- The portal opens 10-15 days before the actual date of registration of semester.

PUNJAB AGRICULTURAL UNIVERSITY, LUDHIANA
FEES COLLECTION PORTAL (FCP)

Pay Semester Fees

Student Type: ☐ NEW Student (Fresh Admission 2023)/PAY FEE without late FEE
☒ Existing Student

Select College: [Dropdown]

Select Course: [Dropdown]

Admission Year: [Text]

Captcha Code: 53956

Enter Captcha: [Text]

[Find Students]

PRIVACY POLICY | DISCLAIMER | REFUND POLICY

Contact information: ic@pau.ac.in
©Punjab Agricultural University, Ludhiana, 2016

Fig 1:Fees Collection Portal (FCP)

Registration Mechanism

- The '**Student Academic Management System**' (SAMS) for online registration (<http://acad.pau-fcp.in>) has been developed and implemented for UG & PG programmes. This system provides online management of academic record of each student with their respective advisor, course instructor, Head of

the Department and Chairman, Academic Committee of College. Online registration system enables the advisors in selecting courses offered by different departments. The registration cards can be prepared and printed directly and courses can be registered easily by the respective course teacher. Addition and withdrawal of a particular course as per individual requirement of the student is also done through this system.

- Having obtained general guidance from the advisors for the courses, which a student has to study in that semester, he/she is asked to meet the respective teachers for registration who are to offer the courses during that particular semester.

Academic Schedule Publication

Before the start of each academic year, an academic schedule (academic calendar) is published by Registrar of the University which is followed by the College. It contains comprehensive and precise information regarding the schedule of registration, examinations, submission of grades, semester break, adding and dropping dates of the courses, etc. for both semesters of the academic year.

6.5.4.4 Conduct of Practical and Hands-on-Training

Conduct of Practical

- Field facilities and well-equipped laboratories in different departments with models, preserved specimens and slides for conduct of practical for various courses of the degree programme are available.
- The students are provided with Practical manuals/e-manuals and training manuals. The demonstrations are given with the help of charts, PowerPoint presentations, live specimens and field exposure, etc.



Conduct of Practical

Hands on Training

- **Must to do Practical**

Must to do practical are those practical which are identified for the B.Sc. Horticulture graduates for practical skill development in Horticulture sectors. The students of B.Sc. Horticulture and concerned teachers are provided with the list of “Must to do practicals” (Table 22) which they should practice during their ongoing degree programme. It was a new initiative by the College and was introduced because at the time of COVID situations students could not attend practical classes due to the online system of education.

Table 22: List of ‘Must to do Practical’ performed in various departments of COHF

Department of Fruit Science

S. No.	Practical Topic
1.	Identification of various garden tools and their working.
2.	Identification of different fruit crops/ commercial or recommended varieties.
3.	The layout of an orchard.
4.	Seed extraction, seed storage, breaking of seed dormancy by scarification and stratification and raising of primary nursery.
5.	Propagation of fruit plants by cuttings, layering, budding, grafting.
6.	Tissue culture techniques for fruit crops.
7.	Potting media/ mixtures and containers for nursery production.
8.	Physiological disorders in fruit crops.
9.	Nutritional disorders (nutrition deficiency symptoms in different fruit crops).
10.	Training and pruning of fruit crops (Evergreen, Deciduous).
11.	Irrigation methods for fruit crops with special reference to drip irrigation system.
12.	Manures and fertilizer application/fertigation.
13.	Identification of major insect pest and diseases in fruit crops.
14.	Preparation of Bordeaux mixture, Bordeaux paint, Bordeaux paste and whitewash mixture.
15.	Harvesting and handling of harvested fruits.

Department of Vegetable Science

S. No.	Practical Topic
1.	Identification and description of different tropical, sub-tropical and temperate vegetable crops.
2.	Identification of seeds of tropical, sub-tropical and temperate vegetable crops.
3.	Identification of different protected structures.
4.	Floral biology and pollination mechanism in self-pollinated vegetable crops.
5.	Floral biology and pollination mechanism in cross pollinated vegetable crops:
6.	Planning and layout of kitchen garden.
7.	Practices of vegetable nursery raising .
8.	Transplanting of vegetable seedlings and intercultural operations in vegetable crops.
9.	Method of fertilizer application and calculation of different fertilizer doses.
10.	Techniques of F ₁ hybrid seed production.
11.	Seed certification in vegetable crops.
12.	Harvest/Maturity indices and Harvesting, grading and packaging of vegetable crops.
13.	Seed extraction of cucurbit vegetables.
14.	Identification of nutrient deficiencies & Physiological disorders in tomato and cauliflower.
15.	Economics of vegetable cultivation.

Department of Floriculture & Landscaping

S. No.	Practical Topic
1.	Study of growth characters and identification of annuals.
2.	Raising of nursery of annuals.
3.	Study of growth characters and identification of trees.
4.	Study of growth characters and identification of shrubs.
5.	Study of growth characters and identification of climbers.
6.	Study of growth characters and identification of indoor plants.
7.	Potting and repotting of indoor plants.

8.	Study of growth characters and identification of cycads and palms.
9.	Study of growth characters and identification of ground covers.
10.	Propagation of ornamental plants.
11.	Making and maintenance of Bonsai.
12.	Site analysis and interpretation of site plan.
13.	Classification of chrysanthemum.
14.	Pinching, disbudding and staking in chrysanthemums.
15.	Classification of rose.
16.	Training and pruning of rose.
17.	Making and maintenance of lawn.
18.	Harvesting of gladiolus spikes, lifting and storage of corms.

Department of Forestry & NR

S. No.	Practical Topic
1.	Various Agroforestry models are demonstrated to the students in the main farm area of the department.
2.	Raising of nursery of forest plants
3.	Study of growth characters and identification of Trees

- **Experiential Learning Programme (ELP)**

The College offers Experiential learning programme (ELP) in all the disciplines of horticulture to the final year students of B.Sc. (Hons.) Horticulture. This Programme provides a platform to the students to interact with the entrepreneurs and other allied institutions in horticulture and get first-hand experience in serving the farmers and industry. In addition to this, students are given an opportunity to get practical training on various aspects of crop improvement, horticultural, vegetable and flower crops, apiculture, biocontrol, etc. in the practical classes.

- **Rural Awareness Work Experience (RAWE)**

The final year students of B.Sc. (Hons.) Horticulture is provided training in the form of Rural Awareness Work Experience (RAWE) programme. This programme gives the students an opportunity to apply theoretical knowledge in the actual farmer

situation as they are involved in organizing different extension activities for technology transfer among the farmers.

- **On Campus Training of UG Students for Skill Enhancement**

The On campus training of UG students for skill enhancement was introduced at University level with the initiative of Dean, College of Horticulture and Forestry. The interested UG students are imparted skills by pursuing trainings across the constituent Colleges of PAU. The training is on hourly basis (80-20 hours) in final year/semester break. Thus the students can enhance their practical skills during ongoing degree programme.

6.5.4.5 Examination and Evaluation Process

- The examination system in the College comprises of first hourly, mid-term, the end- of-semester and final practical examinations consisting of 10-15%, 15-20%, 35% and 35% marks of total marks, respectively.
- Apart from these examinations, teachers give written and practical assignments to the students.
- The first hourly examination is conducted in the class by the course teacher during 4th-5th week from the commencement of the semester.
- The mid-term and end of semester examinations are conducted as per the academic calendar.
- The date sheet for the end-of-semester examinations is announced by the Registrar and strict schedule is ensured in order to avoid clashes or two examinations on a given date.
- The evaluation of the end-of-semester examination of credit courses for undergraduate programmes is purely external.
- The final practical examinations are held in the 20th week of the semester in the regular period allocated for the practical and is conducted internally.
- The credit point sheets are prepared on the basis of cumulative marks of all the examinations obtained by a student in a given course. Marks for each examination are meticulously recorded. The office of the Dean keeps record of CP sheets in each student's file.
- Before the Head of the Department forwards the results to the Dean, he/she is expected to thoroughly scrutinize the credit points and also check some of the answer- sheets randomly to ensure fair marking.

- Following mechanisms have been developed and exercised by the College for strict monitoring and evaluation of the academic and other activities:

UG Programmes

- The first hourly and mid-term question papers are screened at Dean's level for their comprehensiveness and students evaluation quality. Teachers are stressed upon to evaluate the conceptual clarity of the students and to devise hourly and mid-semester examinations by using a mix of fill in the blanks, matching, multiple choice and subjective type questions.
- All teachers are instructed to show answer sheets and discuss the hourly and mid-term question papers with the students in the class within a week's time.
- The first hourly and mid-term results of all the students along with the attendance statement are submitted in the office of Dean, who after securitizing the same counsels the weaker students along with their parents.
- The College has adopted the system of teacher's evaluation by the students anonymously. Based on this evaluation, the teachers are sensitized to improve upon their teaching skills. The teachers who are rated the best by students are motivated by awarding appreciation certificate.
- The students are asked for the suggestions/feedback so as to improve the teaching system in the College in line with the modern day academic requirements of the students.

M.Sc. Programmes

- The examination system in the College is flexible comprising of first/ second hourly, mid-term, end-of-semester and final practical examinations consisting of 10-15%, 15- 20%, 35% and 35% marks of total marks, respectively.
- Apart from these examinations, teachers may give practical oriented assignments to the students.
- The teachers encourage the students to prepare and present the assigned topics as Power Point presentation.
- M.Sc. student have to deliver one credit seminar which is a part of the course curriculum for the scientific and overall development of the student.

Submission of Thesis and Final Examination

- A postgraduate student writes thesis as per the prescribed guidelines circulated by the Dean, Postgraduate Studies (Dean PGS) and also available on the

University website (www.pau.edu).

- Students need to present the results of his/her research and discuss in a seminar before the submission of the draft of thesis where members of the advisory committee and other faculty members and postgraduate students of the department are present.
- The suggestions and constructive criticism of the faculty are to be considered by the student for further improving the draft of the thesis.
- After including all suggestions in the seminar, student submits the rough draft of the thesis to the members of the advisory committee for their comments.
- After the suggestions are incorporated in the thesis to the satisfaction of the major advisor and the advisory committee; final copy of the thesis is submitted to the Dean PGS.
- One external examiner, who is a specialist in the student's major field of study, is appointed by the Dean PGS for evaluation of the thesis.
- The external examiner conveys his/her acceptance to evaluate the thesis after evaluation. Later, external examiner is called for viva voce of student and final evaluation to approve/disapprove the award of degree.

Ph.D. Programmes

- In addition to the first hourly, mid-term and the end of semester, final practical examinations for individual courses, there is a preliminary examination for Ph.D. students to be held on successful completion of at least 75 per cent of the course work.
- Student has to submit dissertation of their research work, which is evaluated in a similar way as M.Sc. thesis.
- The written comprehensive examination consists of two papers, one in the major field and the other in the minor field. The Major Advisor is responsible for conducting the written examination in the major field in consultation with the teachers who have offered various courses.
- The written examination in the minor field is conducted by the advisory committee member representing the minor field. The question papers are so designed that these test overall comprehension of the student in the major/minor field and are not restricted only to the courses studied.
- The process of written examination of both major and minor fields is

completed within a month after the start of first examination and the result is communicated to the Dean PGS within 10 days thereafter.

- The oral comprehensive examination is conducted by the student Advisory Committee with an additional external examiner that is chosen by the Dean PGS from a list of experts in the major field.
- If a student fails in the preliminary examination, he/she is allowed to re-appear in the examination not earlier than three months after the first examination.
- Apart from the thesis seminar, every Ph.D. student also delivers to credit seminars as a part of the course curriculum for the scientific and overall development of the student.

6.5.4.6 NCC/NSS/NSO Units

Every student enrolling for Bachelor's degree course in the College is required to participate in any one of the three-fold programmes i.e. NSO, NSS and NCC in the first and second year. Foreign nationals are exempted from these programmes.

The Dean/Director Students' Welfare completes the enrolment of students under the particular programme/scheme and forwards the same to the Registrar for completing the personal files of the students.

National Cadet Corps (NCC)

- In each semester, 40 hours of parade are held and every student who has opted NCC must participate in minimum of 75% parades.
- The students undergoing compulsory NCC training are required to attend one annual training camp.

National Service Scheme (NSS)

NSS programme aims to inculcate the idea of social welfare in students, and to provide service to society without bias. In this programme, students work to help needy people to enhance their standard of living. Details of activities carried out by NSS group are given in Table 23.

Table 23: Details of Activities Carried Out by NSS Students

NAC-National Adventure Camp, Pre-RD - Pre-Republic Day Parade Camp, RD Parade Camp- Republic Day Parade Camp, BCS – Bharatiya Chhatra Sansad, NYF - National Youth Festival.

Year	Total volunteers enrolled	One day Regular Activity Camps	Seven days Special Camps	Extra Camps Under NSS as special events
2019-20	36	15	1	1-Swachh Bharat 4-Awareness rallies
2020-21	61	7 online	1 online	-
2021-22	106	8 online	-	-
2022-23	83	2	-	2-Indian Swachhta league , Swachh Bharat Camp 1-National level special clean India campaign



Various Activities Conducted by NSS Volunteers



Heath Awareness Camp



India Swachh Campaign

National Sports Organisation (NSO)

- NSO is meant to impart intensive training and skill drills in the students in various games.
- A coaching camp is organized in the second semester of each academic session. During the camp, the trainees are acquainted with the latest skills, drills, games,

techniques to make them physically fit.

- The trainees are provided with a wholesome nutritive diet and other facilities to make their stay in the camp more comfortable and enjoyable.
- This scheme served as a sports nursery for the formation of University team that participates in All India Intervarsity Tournaments (Table 22).

6.5.4.7 Language Laboratory

- A state-of-the-art language laboratory is available in the College of Basic Sciences and Humanities, PAU, Ludhiana. It has an audio-visual aid facility for modern language teaching. The students of College of Horticulture and forestry use this laboratory for improving their English skills.
- The laboratory comprises of master console which is connected to a number of student consoles having a headset and with microphones.
- The language laboratory motivates students to shed inhibitions and speak unhesitatingly.
- The laboratory is useful in enhancing communication skills, especially listening and speaking. Correct phonetic sounds are played which help students to improve their pronunciation.
- The set-up fosters more interactive sessions between a teacher and the students in a conducive atmosphere.
- The progress of the students is monitored; recorded and processed that helps the teacher to provide feedback.

6.5.4.8 Cultural Centre

- The University level cultural Center (Student Home) consists of a large glazed reading room with comfortable sofas and tables to having seating capacity of 50 students.
- The latest magazines and newspapers in English, Punjabi and Hindi are displayed on racks for perusal by the students.
- The center has an auditorium with sitting capacity of 150 persons where functions, seminars and parties of students and staff members are organized.
- Art exhibitions are also being arranged for students and staff from time to time.
- Two canteens cater to the needs of the students, staff members and their guests by providing them hot and cold drinks, sweets and snacks at reasonable rates.
- Stationary outlet and xerox facility are available within the complex.

- Five major clubs viz. University Dance, Drama and Music Club (DDMC), University Fine Arts and Photography Club, University Speaker' Forum, Young Writers" Association and Guru Gobind Singh Study Circle, organize student activities at central level.
- The College has appointed its President, Secretary and Executive Committee members in each of these clubs.
- Three rooms (~20x30 ft.) and two state-of-the-art auditoriums (PAL auditorium and Dr. Manmohan Singh Auditorium) at University level are dedicated for the smooth conduct of student activities Every club plans its activities at its own level during each academic session.
- Every year prestigious PAU Inter-College Youth Festival is held on the campus in which students participate in various events such as debate, quiz, painting, clay modeling, rangoli making, singing, play, skits, folk dances, etc. COHF students participated in 2019-20, 2021-22 & 2022 23 youth festivals. Despite of being the youngest College, the College of Horticulture & Forestry students excelled in several events.
- Individual participants and teams selected from this festival represent PAU in the Punjab State Inter-University Youth Festival, North Zone Inter-University Youth Festival, All India Inter-Agricultural Universities Youth Festival and National Youth Festival held every year.
- The PAU students are regularly winning prizes in various events in these State, Zonal and National level Youth Festivals (details in Table 35).



Student Home- A University Level Facility for Students

6.5.4.9 Personality Development

- College strives to bring new ideas and adopt best practices for improving overall personality of the students.
- College has a strong advisory system for all UG students of the different degree programmes.
- Being a founder degree programme at PAU, 5-10 freshly admitted students are allotted to one teacher (advisor) immediately after the completion of admission process for guiding and grooming of students throughout the degree programme (Table 24).
- College has a noble culture of holding weekly advisory meetings of the advisors with their advisees every Wednesday to discuss the progress and problems of students and other academic affairs
- These meetings are meticulously planned at three levels i.e., individual advisor, class in-charge and Dean level, in which students are encouraged to discuss the study- related issues and share their experiences.
- Career oriented and motivational lectures are arranged from time to time for the students (Table 25).
- Students are guided and encouraged to participate in speeches, debates, elocution, presentation of burning issues of the social concerns, etc. at various state and national platforms.
- In M.Sc. and Ph.D. programmes, the concerned Head of the Department assigns student to one major advisor.
- The major Advisor guides and trains the student in research project as well as provides him/her opportunities to participate and present the research work in various national and international conferences.

Table 24: Ratio of students to mentors for guiding and grooming of students

Academic Year	Number of Mentors (Advisors)	Total number of Students (Advisees)	Average number of Advisees per advisor
2019-20	10	52	1: 5.2
2020-21	10	55	1: 5.5
2021-22	6	55	1: 9:1
2022-23	6	60	1: 10
2023-24	6	59	1: 9.8

Table 25: Guest lecture organized during 2019-2023.

S. No.	Date	Topic of celebration	Guest speaker
College of Horticulture & Forestry			
1.	27.04.2022	Career Opportunities for Horticulture Graduates	Ms. Amandeep Kaur (Horticulture Development Officer) Mrs. Ramandeep (Agriculture Development Officer) Mr. Pankaj (Sub Divisional Engineer, Horticulture) Mr. Sahil (Technical Assistant Punjab State warehouse Cooperation Limited) Ms. Jeevanjyoti (Junior Horticulture Engineer)
2.	29.06.2022	Entrepreneurship in Horticulture	Ms. Anukshka Neyol, First generation entrepreneur and progressive horticulturist from Abohar.
3.	06.07.2022	Orientation about Placement Cell	Dr. Sarbjit Singh Director, Placement Cell, P.A.U, Ludhiana
4.	02.12.2022	Communication Skills and Personality Development	Dr. Dr. Sumedha Bhandari, Assistant Professor of English, PAU, Ludhiana
5.	27.09.2022	Horti Business Management	Dr. Ramandeep Singh, Director School of Business Studies, PAU, Ludhiana
Fruit Science			
6.	16.03.2021	Covid pandemic situation and its management	Dr. Anurag Chaudhary, DMC, Ludhiana
7.	16.03.2021	Awareness regarding Covid vaccination as immunity booster	Dr. Anurag Chaudhary, DMC, Ludhiana
8.	22.03.2021	Canopy management and tree architectural engineering in temperate fruit crops	Dr.Desh Beer Singh, CITH, Srinagar

9.	22.03.2021	Advances in grape cultivation	Dr. Ajay Sharma, NRC, Nagpur
10.	23.03.2021	Nutritional management in Citrus fruit crops	Dr. A.K. Srivastava, CCRI, Nagpur
11.	23.03.2021	Canopy management and tree architectural engineering in Litchi	Dr. Vishal Nath, ICAR-IARI Jharkhand
12.	30.03.2021	Advances and prospects of Mango Breeding	Dr. Manish Srivastava, IARI, New Delhi
13.	14.03.2022	1.Processing and value addition of fruits and vegetables 2. Dehydration of fruits and vegetables	Dr. Dev Raj, Navsari Agricultural University, Navsari
14.	16.03.2022	1. Advances in production of walnut and hazelnut 2. Advances in temperate fruit nursery management	Dr. Ajay Kumar Banyal, YSPUHF, Neri, Hamirpur, HP
15.	17.03.2022	1. Advances in production technology of almond and chestnut 2. Advances in production technology of apple crop	Dr. Sanjeev Kumar Banyal, YSPUHF, Neri, Hamirpur, Himachal Pradesh
16.	23.03.2022	1. Canopy management and high density planting in subtropical fruits 2. Nutrient management and fertilizer scheduling in fruit crops	Dr. Som Dev Sharma, YSPUHF, Neri, Hamirpur, Himachal Pradesh
17.	26.03.2022	1.Organic Horticulture for sustainable livelihood 2.Protected cultivation technologies for higher productivity and quality of horticultural crops	Dr. Debashis Mandal Mizoram University, Aizawal

18.	16.03.2023	1.Methods of sorting and Grading of fruits and vegetables 2. Entrepreneurship development through on farm processing of Horticultural produce	Dr. Sandeep Mann, CIPHET, Ludhiana
19.	20.03.2023	1. Health immunity and sanitization 2. Technologies for refining of edible oils and fats	Dr. S K Tyagi, CIPHET, Ludhiana
20.	21.03.2023	1.Postharvest management of horticultural crops 2. Prospects of fruit cultivation in India	Dr. W S Dhillon, ADG (Retd)
21.	17.10.2023	1. New interventions in fruit Breeding 2. Scenario of mango cultivation in the world	Dr. Manish Srivastava, IARI, Pusa-New Delhi
22.	17.10.2023	1. Genetic resource management of horticultural crops 2. Role of NBPGR in exploration, collection and conservation of horticultural crops	Dr. P K Singh, NBPGR, New Delhi
23.	25.10.2023	1. Varietal wealth and advances in production technology of temperate fruits in India 2. Biometrical aids in fruit breeding	Dr. Nirmal Sharma, SKUAST, Jammu
24.	25.10.2023	1. Insights from ICAR attracting and retaining youth in Agriculture principal reasons for successful versus failed entrepreneurship 2. Myths and realities of natural farming	Dr. Rajesh Rana, ICAR-ATARI, Ludhiana

Vegetable Science			
16.	17.02.2022	1. Genomic selection in Potato Breeding 2. Application & implementation of Genome wide selection in Potato breeding program	Dr. Salej Sood, Senior Scientist, Plant Breeding and Genetics, ICAR-CPRI, Shimla, HP
17.	23.02.2022	1. Basics in Seed Production of Temperate Vegetables 2. Advances in Seed Production of Temperate Vegetables	Dr. Chander Parkash, Principal Scientist & Head (Acting), ICAR-IARI, Regional Station, Katrain, HP
18.	24.02.2022	1. Breeding and Genetics of Cucumber 2. Molecular tagging of important traits in Cucumber	Dr. Yiqun Weng, University of Wisconsin-Madison, USA
19.	25.02.2022	1. Career Building in the open world 2. Ways for Vegetable graduates in entrepreneur's world	Mr. Satinder Taggar, Taggar Associates
20.	02.03.2022	1. Genetics of Cucumber traits 2. Advances in Cucumber Breeding	Dr. S.S. Dey, Senior Scientist, Division of Vegetable Science, ICAR-IARI, New Delhi
21.	05.03.2022	1. Protected Cultivation: Boon/Bane for Punjab 2. Schemes for promotion of protected cultivation in Punjab	Dr. Daljit Singh Gill, Assistant Director (Horticulture), Department of Horticulture, Government of Punjab
22.	07.03.2022	1. Identification and maintenance of male sterile lines in <i>Capsicum sp.</i> 2. Development of male sterile lines in <i>Capsicum sp.</i>	Dr. A.K. Joshi, Professor & Head, Department of Vegetable Science, UHF, Solan
23.	09.03.2022	1. Molecular Breeding in Cucumber 2. Molecular Breeding in Bitter Gourd	Dr. T.K. Behera, Director, ICAR-Indian Institute of Vegetable Research, Varanasi

24.	09.03.2022	1.Career Opportunities in Vegetable Sciences 2.Scope of Entrepreneurship for Vegetable Graduates	Dr. A.K. Mehta, Ex-ADG (ICAR), New Delhi
25.	11.03.2022	Advances in Breeding of Garden Pea Guidance / Counselling for JRF/SRF	Dr. Akhilesh Sharma, Professor, Department of Vegetable Science & Floriculture, CSK HPKV Palampur, HP
26.	12.03.2022	1.Nutraceutical Breeding in Vegetable Crops 2.Breeding methodology for biofortification of vegetable crops	Dr. Pritam Kalia, Former ICAR Emeritus Scientist & Former Head & Professor, Division of Vegetable Science, IARI, New Delhi.
27.	15.03.2022	1.Electronic Reference Management 2.Hand-on different online tools as per Journal requirements	Dr. Rajinder Chawla, Director-cum-CEO Accuscript Consultancy, Ludhiana (India) and Reading (UK) and Ex-Professor Department of Biochemistry, Christian Medical College & Hospital, Ludhiana
28.	15.03.2022	1.Polyhouse Cultivation: A boon for North India 2.Prospects of Polyhouse Vegetable Breeding in India	Dr. D.K. Singh, Professor-cum-Head, Department of Vegetable Science, G B Pant University of Agriculture & Technology, Pantnagar
29.	17.03.2022	1.Government Schemes for Promotion of Horticulture in Punjab 2.Application procedure for availing Government Scheme for Horticulture Crops	Dr.Harmail Singh, Additional Director Horticulture, Mohali.
30.	21.03.2022	1.A preview of soil physical conditions with specific reference to vegetable cultivation 2.Management of Soil Properties for Vegetable Cultivation	Dr. Anshuman Kohli Associate Prof, Dept of Soil Science & Agric Chemistry, BAU, Sabour

31.	26.03.2022	1.Vegetable nursery production 2.Hightech nursery for early crop cultivation of high value crops 3.Management of vegetable crops after transplant	Dr. Davinder Singh Assistant Scientist, Department of Vegetable Science, HAU, Hisar
32.	26.03.2022	1.Protected Cultivation and Hydroponics in Vegetable Crops 2.Hydroponics in Vegetable Crops	Dr. Parveen Sharma, CSK HPKV, Palampur
33.	27.03.2022	1.Mendeley as reference manager 2.Comparison of various reference managers 3.Hands-on session on Mendeley	Dr. Amit Kishore, Consultant, Accuscript
34.	27.03.2022	Protected Cultivation for employment to young generation	Dr. Praveen Singh, ICAR-IARI, New Delhi
Floriculture & Landscaping			
35.	21.12.2021	Cultivation of Tuberose	Dr.Jagreeti Gupta, Asstt. Prof. Dpt. Floriculture and Landscape Architecture, Dr. YSP, UHF, Neri-Hamirpur
36.	28.12.2021	Management of diseases in ornamental flowers	Dr. Pankaj Kumar, Asstt. Prof. Pathology, Maharana Pratap Horticulture University, Haryana
37.	03.01.2022	Advances in bulbous flower production (Tulip and Lilium)	Dr. Mir Imtiaz Tahir Nazki, Professor Division of Floriculture and Landscape Architecture, SKUAST, Shalimar, J and K.
38.	11.02.22	Turf management	Dr. S.L. Chawla Associate Professor, NAU, Navsari, Gujrat

39.	21.02.22	Value addition in marigold and rose	Dr. Arvind Kumar Scientist, Horticulture, NRCSS, Ajmer, Rajasthan
40.	22.02.22	Breeding techniques of marigold	Dr. Tejaswani Prakash Principal Scientist Division of Floriculture and Medicinal plants, ICAR-IIHR, Bengaluru
41.	22.02.22	Crop improvement in rose	Dr. Namita Sr. Scientist, Division of Floriculture and Landscaping, IARI, New Delhi
42.	23.02.22	Double haploids in improvement of floricultural crops	Dr. Rita Bhatia Sr. Scientist, Division of Floriculture and Landscaping, IARI, New Delhi
43.	23.02.22	Commercial landscaping	Mr. Seelam Mehashwar Landscape architect, New Delhi
44.	24.02.22	Research trends in floriculture-present and future	Dr. K. V. Prasad Director, ICAR-DFR, Pune, Maharashtra
45.	02.03.22	Management of diseases in ornamental flowers	Dr. Pankaj Kumar Assistant Professor, Pathology, MPHU, Karnal, Haryana.
46.	22.03.22	1. Landfill and landscaping 2. Floriculture opportunities in corporate sector	Dr. Anuradha Mohapatra landscape consultant, Tata Steel Limited
Forestry & Natural Resources			
47.	12.01.2022	Overseas higher educational opportunities in forestry discipline	Dr. S.S. Gill, Retired Prof. & Head Dept. of Forestry & NR, PAU
48.	12.01.2022	Mindset to succeed in Life	Mr. Anshuman Khullar, The Art of Living Branch- Ludhiana
49.	12.01.2022	The art of being better	Mr. Anshuman Khullar, The Art of Living Branch- Ludhiana
50.	13.01.2022	Communication skills, resume and technical writing	Ms. Alka Thakur, Asst. Prof. DD Jain MC for Women, Ludhiana

51.	14.01.2022	Social responsibilities of youths	Mr. Akhashdeep Singh, Block Programme Manager, PRDAM
52.	14.01.2022	Role of youths in nation building vis-vis personality development	Dr. K.S. Verma, Retired Professor PAU Ludhiana
53.	18.01.2022	Stress management	Dr. T.K. Gill, Retired Professor PAU Ludhiana
54.	18.01.2022	Attitude for excellence and art of compliment	Dr. T.K. Gill, Retired Professor PAU Ludhiana
55.	19.01.2022	Awareness programmes of women education in rural India	Ms. Sona Thakur, Asst. Prof. (Edu.) GHG Khalsa College, G. Sadhar, Ludhiana
56.	19.01.2022	How to achieve goals and be successful in life?	Dr. V.S. Verma, Retired Professor, SKUAST, Jammu
57.	19.02.2022	Micro-forest-concept and its importance	Mr. Parveen, NGO Representative Ecosikh
58.	19.02.2022	Visit to micro-forest at Sahnewal	Mr. Satnam Singh, NGO Representative, Ecosikh
59.	21.02.2022	Policy initiatives and schemes for promotion of agroforestry	Dr. A.K. Handa, CAFRI, Jhansi
60.	21.02.2022	Status of agroforestry research in India	Dr. A.K. Handa, CAFRI, Jhansi
61.	23.02.2022	Farmers' Participatory Research: Paradigm Shift for Technological Advancements in Agriculture	Dr.ParvenderSheoran, Pr. Sci., ICAR-CSSRI Karnal, Haryana
62.	23.02.2022	Alternate land use systems in salt affected soils	Dr.ParvenderSheoran, Pr. Sci., ICAR-CSSRI Karnal, Haryana
63.	23.02.2022	Bio-herbicides	Dr. Komal Arora, Head, Botany DAV College, Jalandhar
64.	24.02.2022	Ecological and economical analysis of agroforestry systems	Dr. Asha Ram, Sr. Scientist ICAR-CAFRI, Jhansi,
65.	24.02.2022	Techniques of canopy manipulation in agroforestry	Dr. Asha Ram, Sr. Scientist ICAR-CAFRI, Jhansi,

66.	26.02.2022	Vehicle emission control standards for environmental security	Mr. Sparsh Singh, Instructor (MMV), Industrial Training Institute, Himachal Pradesh
67.	26.02.2022	Gene mapping and genetic markers	Dr. Komal Arora, Head, Botany DAV College, Jalandhar
68.	28.02.2022	Socio-economic assessment of agricultural technologies- tools and applications	Dr.Subhasis Mandal, Pr. Scientist ICAR-CAFRI, Jhansi
69.	28.02.2022	Climate smart agroforestry for ecological and food security	Dr.Subhasis Mandal, Pr. Scientist ICAR-CAFRI, Jhansi
70.	02.03.2022	Forest protection- an overview	Dr. P. Raja, Assoc. Professor CoHFPassighat, Arunachal Pradesh
71.	02.03.2022	Diseases of common agroforestry tree species	Dr. P. Raja, Asso. Professor CoHFPassighat, Arunachal Pradesh
72.	02.03.2022	Capital investment subsidy schemes for forestry projects	Ms. Prachi, Research Scholar, MBA Department, CU Dharamshala
73.	03.03.2022	Silvicultural systems of India	Dr. Bikram Singh, Assoc. Professor CoHFPassighat, Arunachal Pradesh
74.	03.03.2022	Measurement of different tree parameters	Dr. Bikram Singh, Assoc. Professor CoHFPassighat, Arunachal Pradesh
75.	04.03.2022	Bio-energy feedstock and environmental payments	Dr. Naresh Kumar, Pr. Scientist ICAR-CAFRI, Jhansi
76.	04.03.2022	Institutes involved in agroforestry research and education	Dr. Naresh Kumar, Pr. Scientist ICAR-CAFRI, Jhansi
77.	05.03.2022	Deforestation inviting natural hazards	Dr. Sumit Chakravarty, Prof & Head, UBKV Cooch Behar, West Bengal

78.	05.03.2022	Cultivation practices of <i>Melia dubia</i>	Dr. Sumit Chakravarty, Prof & Head, UBKV Cooch Behar, West Bengal
79.	05.03.2022	Biodiversity threats and conservation	Dr. Gopal Shukla, Prof. Forestry UBKV Cooch Behar, West Bengal
80.	05.03.2022	Medicinal shrubs and their traditional uses	Dr. Gopal Shukla, Prof. Forestry UBKV Cooch Behar, West Bengal
81.	06.03.2022	Hybrid seed production techniques for higher profitability	Dr. S.C. Rana, Pr. Scientist IARI Regional Station Karnal, Haryana
Tutorial classes for SC Students by Experts			
82.	4.01.2022	Basics of Remote Sensing and GIS	Dr. Anil Sood, Punjab Remote Sensing Centre, Ludhiana (Punjab)
83.	24.01.2022	Geospatial technologies for Forest Resource Management	Dr. Anil Sood, Punjab Remote Sensing Centre, Ludhiana (Punjab)
84.	25.01.2022	Essentials of good planting stock in agroforestry	Dr. S.S. Gill, Retired Prof. & Head Dept. of Forestry & NR, PAU
85.	27.01.2022	SWOT analysis of agroforestry for Industrial use	Dr. K.K. Sood, Professor SKUAST Chattha Jammu
86.	27.01.2022	Deforestation, Agroforestry and its role	Dr. K.K. Sood, Professor SKUAST Chattha Jammu
87.	28.01.2022	Strategies of carbon sequestration on degraded Lands	Dr. Thiru Selvan, Asst. Professor Tripura University, Tripura
88.	28.01.2022	Potential of bamboos as a sustainable and economically viable resource in agroforestry	Dr. Thiru Selvan, Tripura University Agartala (Tripura)
89.	01.02.2022	Growth and yield prediction models - their preparation and applications.	Dr. Dinesh Gupta, Asst. Professor BUAT-Banda

90.	01.02.2022	Bio-energy feedstock and environmental payments	Dr. Dinesh Gupta, Asst. Professor BUAT-Banda
91.	03.02.2022	Classical approaches to yield regulation in forest management, salient features and strategies.	Dr. Sandeep Sehgal, Asso. Professor SKUAST Chattha Jammu
92.	03.02.2022	Medicinal plants in agroforestry	Dr. Sandeep Sehgal, Asso. Professor SKUAST Chattha Jammu
93.	05.02.2022	Assessing state of forest and their productivity	Dr. Kamini Gautam, IGFRJ Jhansi
94.	05.02.2022	Agroforestry for enhancing soil fertility	Dr. Kamini Gautam, IGFRJ Jhansi
95.	07.02.2022	Potential of medicinal and aromatic plant for livelihood security	Dr. L.M. Gupta, Prof & Head SKUAST Chatha Jammu
96.	07.02.2022	Role of industry in agroforestry development	Dr. Minakshi Gupta, Asst. Prof SKUAST Chatha, Jammu
97.	09.02.2022	JRF/SRF/NET examination preparation tips	Dr. W.S. Dhillon, Retired ADG ICAR, New Delhi
98.	09.02.2022	Horticultural based agroforestry systems	Dr. W.S. Dhillon, Retired ADG ICAR New Delhi
99.	12.02.2022	Insights of bio-drainage technology in managing waterlogged saline landscapes	Dr. R. Banyal, ICAR CSSRI Karnal, Haryana
100.	12.02.2022	Agroforestry practices in managing salt affected soils	Dr. R. Banyal, ICAR CSSRI Karnal, Haryana
101.	14.02.2022	Diseases of forest trees and their control	Dr. K.S. Verma, Retired Professor, PAU Ludhiana



Guest lecture at Department of Fruit Sc.

Guest Lecture at Pal Auditorium

6.5.5 Physical Facilities

College Building Area and Farm Land

The College of Horticulture and Forestry consists of 4 Departments. It is well equipped with modern facilities like ICT enabled lecture rooms (38), laboratories with state-of-the-art equipment green/ glass/ poly-houses, etc. All the lecture rooms and laboratories are connected with secured internet/ wi-fi connectivity. Separate hostels for boys and girls are available for the College students in the University. Other facilities like Faculty Club, Staff Club, Guest houses, Working-women hostel, Hospital, Shopping arcade, Banks and a Post office are available in the main campus, as a University level facility for College students.

The main building of college has a floor area of 6,74,890 sq. ft. and houses the office of Dean, K.S Aulakh lecture room and examination hall complex, Book Bank. The offices of other constituent departments and their establishments are located in the respective buildings. The detail plinth area of the various buildings is given in Table 26.

Table 26: Plinths Area of Various Buildings in College of Horticulture and Forestry

Sr. No.	Name of the Building	Plinth area (m ²)
1	Dean's Office	335
2	Dr. K.S. Aulakh lecture room cum examination hall complex	1600
3	Horticulture Post harvest and processing Centre	632
4	Department of Vegetable crops and fruit science	1347
5	Department of Floriculture & Landscaping	900
6	Department of Forestry & Natural Resources	975

Classrooms and Laboratories

The College has a sufficient number of classrooms, teaching and research laboratories, seminar, committee and computer rooms. In addition to well- furnished classrooms, there are sufficient number of state-of-art Smart Classrooms equipped with multimedia projector computer with power back-up, internet connectivity. Each classroom can accommodate 60-70 students. The UG laboratories are usually 24" x 36" or 24" x 48", thus there is sufficient space for each student to carry out the practicals.

6.5.5.1. Hostels

At present, about 300 students of the College are staying in hostels. There are four hostels for boys and five hostels for girls (Table 27) at University level. One hostel is exclusively meant for international students with all the modern facilities. All the hostels have secured wi-fi internet connectivity.



Hostel Campus For Horticulture Students At PAU

- Mess facility is available in all the hostels along with water purifiers (RO systems).
- Students are provided warm water for bathing through solar and electric geysers.
- Indoor games (table tennis, carom, badminton etc.) are available in each hostel.

- Each hostel has a common room with an LED television (Local cable TV) and magazines. Each hostel has news stands where the students can read the newspapers. In general, Indian express, The Tribune and one vernacular language newspaper is subscribed in each hostel.
- There are dedicated sweepers deputed in each hostel, who are responsible for daily cleaning of the rooms, common areas and premises.
- For movement from the gates to hostel, University has provided buses which commute between various sites throughout the day. In addition, e-rickshaws also ply in the University from one location to other.
- Emergency medical facilities are available to the students in the University Health Centre. The Health Centre is a 24 bed hospital situated in the Campus. Hospital has experienced and dedicated staff in the field of medical science, which promptly provides any medical facility to the students, 24x7. There are 3 qualified doctors and 13 other paramedic staff, who cater to the students and employees. The Health Centre provides various facilities such as OPD, Biochemistry tests (Sugar, Urea, Creatinine, LFT, Uric Acid, Cholesterol, Lipid Profile), X-Ray and ambulance. The biomedical waste such as Syringes, gauzes, bandages and IV sets are disposed of scientifically. PAU Health Centre has an agreement with Medicare Environmental Management Pvt. Ltd. (regional office at: Behind Satluj Action Water Treatment Plant opp. Central jail, Tajpur Road Ludhiana) for the disposal of bio- medical waste.

Table 27: Details of the Students' Hostel- A Common Facility for all PAU Students

S. No.	Name of Hostel	Capacity (Accommodation)	Area (sq.ft.)	Number			
				Cubicle	Two-seater dormitory	Three seater dormitory	Four-seater dormitory
Boys Hostel							
1	Hostel No. 1 (UG)	204	48400	84	-	-	30
2	Hostel No. 2 (UG)	204	48400	84	-	-	30

3	Hostel No. 7 (PG)	155	47229	155			-
4	Hostel No.15 (PG)	111	4200	-	-	37	-
Girls Hostel							
5	Hostel No. 5 (UG)	138	48400	74	-	-	32
6	Hostel No. 6 (PG)	218	45000	-	13	64	-
7	Girls Hostels (UG) (A, B, C, D, E, F and G Block)	457	72244	31	4	117	-
8	Hostel No.13 (PG)	156	4000	-	50	-	-
9	Hostel No.16 (PG)	108	4000	-	-	36	-
Boys and Girls Hostel							
10	International Hostel	60	10658	12 suit es	-	-	-
TOTAL		1811	3,32,531	440	67	254	92

6.5.5.2 Examination Hall

There are two Examination Halls in the College of Horticulture and Forestry. The ground floor examination hall can accommodate 120 students. The second examination hall has been constructed on second floor with the capacity of 120 student. The facility is open for all the students of PAU, across the 5 Colleges (Table 28).



Table 28: Examination Halls of College of Horticulture and Forestry

Examination Halls	Capacity	Area
Dr. K.S. Aulkah Examination Hall	120	1600 sq m

6.5.5.3 Sports and Recreation Facilities

- The University has excellent facilities for sports and games which are also utilized by the students of College of Horticulture and Forestry.
- Amongst the sports infrastructure available, there is Synthetic Hockey surface (Astroturf), Cycling Velodrome and Swimming Pool (2000 sq. ft.) which conforms to international specifications. There are outdoor athletics track, Lawn Tennis, Badminton, Volley Ball, Hand Ball and Basket Ball courts. There are dedicated Cricket and Soccer grounds. Modern gymnasium (3623 sq. m) facility with seating capacity of 2000 has indoor badminton courts, table tennis tables, body building and weight lifting facilities etc.

Day to Day Management Activities of Sports

- The University has a large sports complex and play grounds spread over an area of 35 acres. Facilities are available for indoor and outdoor games. The timing of all indoor and outdoor games is 6.00-9.00 AM and 5.30-8.00 PM. The list of sports infrastructure available to students along with plinth area is given in Table 29&30.

- The facilities are being used daily by the students.
- Under the National Sports Organization programme run by the College, the students attend camps of respective games (10 days camp/year) and are also coached by qualified coaches for 2 hours on all working days.

Table 29: List of Sports Infrastructure Available for Students

S. No.	Game	Available Infrastructure
1.	Athletics	Athletic Track of International Standard
2.	Basketball	Two cemented hard courts
3.	Badminton	Three Wooden Indoor courts
4.	Cricket	Turf pitch of International standard & four net practice pitches
5.	Cycling	Cycling Velodrome of International standards
6.	Football	Two grassy grounds
7.	Hand Ball	Three mud courts
8.	Hockey	Three grassy grounds and one Astro turf
9.	Kabaddi	One court
10.	Indoorgymnasium	Equipped with all health machines

Table 30: Plinth Area of Sports and Recreational Facilities

S. No.	Name of the Building	Plinth Area (m ²)
1.	DSW Office	669
2.	Gymnasium	1858
3.	Swimming Pool	4645
4.	Shooting Range	511
5.	Cycle Velodrome	9290
6.	Stadium	1698
7.	Student Home	604

6.5.5.4 Auditorium

The College generally use two well-furnished auditoria of different capacities suited for holding various cultural and recreational activities at the College level (Table 31). Each auditorium has air- conditioner and equipped with latest audio-visual equipment, comfortable seating, lighting and sound arrangement.

Table 31: Capacity of the Auditorium in the University- A Common Facility of all PAU Students & Faculties

Auditorium	Location	Capacity
Pal Auditorium	College of Agriculture	630
Dr. Manmohan Singh Auditorium	Near Kisan Service Centre	1250



Dr. Manmohan Singh Auditorium



Pal Auditorium

6.5.5.5 Exhibition Hall/Museum

The Department of Forestry & Natural Resources has exhibition hall-cum-museum in the aid in the enhancement of knowledge of the students for identifying various wood species.

6.5.6 Research Facilities

6.5.6.1 Postgraduate Laboratories and Equipment

The practical classes for various courses offered by different departments are conducted either in the laboratories or in the fields of the respective departments. There are well equipped laboratories separately for UG and PG classes in each department offering particular courses.

- For the field related practical, the departments have all the facilities required

for the conduct of practical classes through instruction farm facilities.

- The department-wise detail of the number of laboratories, major equipment, and farm facilities available for the conduct of practical classes is given in Table 32.

Table 32: Post Graduate Laboratories & List of Equipment in the Various Departments of the College

Department	Laboratories (No.)	Major Equipment	Farm area (acres)	Farm Facilities
Fruit Science	5	HPLC, Hunter lab color meter, Atomic absorption Spectrophotometer, Wood microtome, Gamma Chamber, Laminar air flow cabinets, Photosynthesis system, Elisa reader, UV-Visible Spectrophotometer, Centrifuge non refrigerated, Refrigerated Centrifuge, Flame photometer, Binocular Microscope, BOD incubators, Trinocular microscope with CCD camera, Lux meter, Semi-automatic N analyzer, Leaf area meter, Chlorophyll Meter, Fruit ripening chamber, Albidopyranometer, Cold chamber.	100	College Orchard, Fruit Research Farm, Poly house, Net house, Research field stores, Virus free nursery unit, Shade net House, Green House, Gamma Chamber, Screen House, Poly Carbonate House.
Vegetable Science	4	Oven, Refrigerator, Muffle Furnace, Electronic Balance, Spectrophotometer (Visible), Spectrophotometer (UV-	28	Research Farm, Demonstration Farm, Teaching Farm, Poly net

		Visible), Atomic Absorption Spectrophotometer, Water Distillation Units, Hot Plate, Cooling Centrifuge, pH Meter, Digital Refractometer, Hand Refractometer, Shaker, Water bath, Chlorophyll meter, Kjeldahl Distillation Unit, Leaf area meter, Pan Balance, Ice Flaking Machine, Laminar Air Flow Hood, Autoclave, Stereo-zoom microscope, Thermocycler (384 well), Thermocycler (96 well), Orbital shaker, Ultra-low deep freezer (-80 °C), qPCR, Microwave oven, Electrophoresis unit		House, Hitech Nursery, Field Store
Floriculture & Landscaping	2	Spectrophotometer, hot air oven, Autoclave, incubator, Laminar air flow cabinet	13.5	Polyhouses, net houses, Mist chamber, Cold store, Arboretum, Research fields
Forestry & Natural Resources	2	Plant Canopy Analyser, Double ring soil infiltrometer, Chlorophyll content meter, Single beam Spectrophotometer, Data logger and sensor, Muffle Furnace, Silica Crucible, Kjeldhal instrument, Flame photometer.	5	Mist chamber, greenhouse, demonstration area



PG Students Working in Laboratory

6.5.6.2 Research Contingency

The College of Horticulture and Forestry has four departments which receive funds from the University, Punjab Government (Plan/ Non-plan schemes) and Indian Council of Agricultural Research (AICRP) to facilitate basic and strategic research in different departments of the College (Table 33). Each department emphasizes need-based research in horticulture.

Several scholarships/ fellowships are awarded by the Punjab Agricultural University at both the undergraduate and postgraduate levels to encourage students so that excel in academics. Some of the PG students were also awarded ICAR JRF and SRF scholarships (Table 34).

Table 33: Research Contingency of Constituent Departments of College of Horticulture and Forestry.

Departments	Research Contingency (Lakh)					
	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Fruit Science	1,56,17,062	1,62,98,176	2,30,87,724	2,31,17,103	2,44,58,547	10,25,78,612
Vegetable Science	1,25,42,675	1,70,27,000	1,84,89,000	1,69,51,893	1,90,63,129	8,40,73,697
Floriculture & Landscaping	16,50,693	4,69,679	5,43,726	1,26,455	24,26,113	52,16,666
Forestry & Natural Resources	31,60,250	20,55,000	10,34,416	11,71,834	64,13,867	1,38,35,367

Table 34: Number of students got JRF and SRF scholarship

Year	JRF	SRF
2019-20	6	4
2020-21	1	1
2021-22	4	1
2022-23	5	1

6.5.7 Outcome /Output

6.5.7.1 Students' Performance in National Examinations

- Students of the College are encouraged to sit for national level examinations such as Junior Research fellow (JRF), Senior Research Fellow (SRF), National Eligibility test (NET) and Agricultural Research Service (ARS).
- A total of 5 students have cleared JRF, 21 students have cleared SRF, 48 students cleared NET and 2 have been selected in ARS under different subjects. The year wise details are given in Table 35.

Table 35: Number of Students Who Cleared SRF and ARS Examination
Fruit Science

Year	SRF	NET	ARS
2019-20	03	16	-
2020-21	04	11	-
2021-22	03	11	-
2022-23	03	-	01

Vegetable Science

Year	SRF	NET	ARS
2019-20	-	04	-
2020-21	02	-	-
2021-22	01	03	-
2022-23	-	-	-

Forestry and Natural Resources

Year	SRF	NET	ARS
2019-20	01	-	-
2020-21	01	-	-
2021-22	-	-	-
2022-23	-	-	-

Floriculture and Landscaping

Year	SRF	NET	ARS
2019-20	-	-	-
2020-21	02	-	-
2021-22	01	-	-
2022-23	-	03	01

6.5.7.2 Students Placement Profile

During the last five years, the following accomplishments have been achieved under the student placement profile (Table 36).

- 25 students were selected for higher studies India and Abroad in respective subjects.
- 214 students were placed in different government sectors, 2 students were placed in banks and 20 students are placed in different private sectors in this tenure.
- 17 students won the different national awards and fellowships (Table 37).

Table 36: Student Placements and Higher Studies 2018-19 to 2022-23

Year	Central & State Govt. Departments	Private Sectors/ Self Employed	Banks	Higher Studies in India /Abroad
2018-19	24	2	2	5
2019-20	11	3	—	7
2020-21	15	6	—	5
2021-22	9	5	—	4
2022-23	17	4	—	4
Total	214	20	2	25

Table 37: National/Awards/Fellowships

S. No.	Name of Student	Admission No.	Name of Award	Awarding Agency
1.	Prerna Thakur	L-2012-A-26-D	Dwarika Nath Memorial Best Thesis Award	Indian Society of Vegetable Science, Varanasi
2.	Neha Verma	L-2017-A-34-D	DST Inspire Fellowship	SERB-DST
3.	Karamveer Singh	L-2017-A-36-D	PM Fellowship	SERB-DST
4.	Shreedhari Hedge	L-2017-A-165-M	ICAR-SRF	ICAR
5.	Jyoti Verma	L-2017-A-29-D	ICAR-SRF	ICAR
6.	Suprava Biswal	L-2017-A-169-M	ICAR-SRF	ICAR
7.	Tejpal Singh	L-2018-A-41-D	PM Fellowship	SERB-DST
8.	Tejpal Singh	L-2018-A-41-D	Dwarika Nath Memorial Best Thesis Award	Indian Society of Vegetable Science, Varanasi
9.	Kamal Kishore	L-2018-A-34-D	Best oral presentation of paper entitled 'Planting techniques used for salt affected lands'	Bidhan Chandra Krishi Viswavidyalaya, West Bengal
10.	Kamal Kishore Nagar	L-2018-A-34-D	ICAR-SRF	ICAR
11.	Ulli Murali Krishna	L-2019-H-80-D	ICAR-SRF	ICAR
12.	Nimrat Kaur Sekhon	L-2019-H-211-M	Lata Mahajan Sports Scholarship	PAU
13.	Dixit Chaudhary	L-2020-H-78-D	PM Fellowship	SERB, DST-CII
14.	Mrinalini Sood	L-2020-H-80-D	Inspire Fellowship	DST
15.	Anushka Sood	L-2021-H-219-M	Indira Gandhi Post Matric Scholarship for PG studies	Govt of India
16.	Dhawan Shweta Macchindra	L-2021-H-93-D	CSHM SARTHI fellowship	Govt. of Maharashtra
17. a	Vamsi Maddirala	L-2021-H-181-M	ICAR, JRF	ICAR

6.5.7.3 Awards/Recognitions/Certificate

A. Students

- Achievements of students in Inter-College sports events are given in Table 38A.
- Achievements of students in Inter-College cultural events are given in Table 38B.
- Extraordinary Achievements of Students in Inter College Youth Festival enlisted in Table 39.
- Achievements of Students in Co-Curricular Activities in State and National Level enlisted in Table 40.



College of Horticulture and Forestry Students in Athletic Track of PAU during Annual Sports Meet

Table 38: Students' Awards During 2019-2023

A. Achievements of College of Horticulture and Forestry in Sports Events

S. No.	Name	Admission No	Name of Game/Activity	Inter College	North Zone (NZ) Inter varsity/All India/Inter Agri	State/National	Position
2019-2020							
1.	Team	-	Handball (M)	Inter College Handball tournament	-	-	1 st Position
2.	Team	-	Hockey (M)	Inter College Hockey tournament	-	-	2 nd Position
3.	Arshdeep Singh	L-2019-H-177-M	Handball	-	NZ Inter Varsity Handball Championship	Punjab State U-15 Handball Championship	1 st Position
4.	Parteek Kaur Sandhu	L-2019-H-35-BIV	Athletic	Inter College Athletic 800 M tournament	-	-	3 rd Position
5.	Karthik KP	L-2018-A-99-M	Aquatic	Inter College Aquatic (M&W) tournament	-	-	3 rd Position
6.	Karthik KP	L-2018-A-99-M	Aquatic	-	All India Inter Varsity Aquatic Championship	-	Participation
7.	Amarpreet Singh	L-2019-H-175-M	Handball	-	NZ Inter varsity & Inter Agri Championship	-	Participation

S. No.	Name	Admission No	Name of Game/Activity	Inter College	North Zone (NZ) Inter varsity/All India/Inter Agri	State/National	Position
8.	Tushaan Singh Randhawa	L-2019-H-56-BIV	Shooting	-	-	54 th Punjab State Shooting Championship	Participation
9.	Gurnoor Singh	L-2019-H-14-BIV	Shooting	-	-	54 th Punjab State Shooting Championship	Participation
10.	Nimrat Kaur Sekhon	L-2019-H-211-M	Shooting	-	All India Inter Varsity Shooting Championship	-	Participation
11.	Ravinder Singh Mann	L-2019-H-184-M	Handball	-	NZ Inter Varsity Handball Championship	-	Participation
12.	Harpinder Singh	L-2019-H-166-M	Handball	-	NZ Inter Varsity Handball Championship	-	Participation
13.	Rajwinder Singh	L-2019-H-198-M	Volleyball	-	NZ Inter varsity Volleyball Championship	-	Participation
14.	Varun B H	L-2019-H-219-M	Kabaddi	-	NZ Inter varsity Kabaddi Championship	-	Participation
15.	Manpreet Kaur	L-2019-H-195-M	Volleyball	-	NZ Inter varsity Volleyball Championship	-	Participation
2020-2021							
Nil due to COVID Pandemic							
2021-2022							
1.	Gurnoor Singh	L-2019-H-14-BIV	Shooting	-	NZ Inter varsity Shooting (Tournament)	-	Participation

S. No.	Name	Admission No	Name of Game/Activity	Inter College	North Zone (NZ) Inter varsity/All India/Inter Agri	State/National	Position
2.	Simranjeet Singh Gharu	L-2020-H-58-BIV	Cricket	-	NZ Inter varsity Cricket (Tournament)	-	Participation
3.	Rohit Kamboj	L-2020-H-183-M	Cricket	-	NZ Inter varsity Cricket (Tournament)	-	Participation
4.	Harsimran Singh	L-2020-H-203-M	Cricket	-	NZ Inter varsity Cricket (Tournament)	-	Participation
5.	Karan Pratap Singh	L-2020-H-221-M	Shooting	-	All India Inter Varsity Shooting Championship	-	Participation
6.	Tushar	L-2021-H-61-BIV	Cricket	-	NZ Inter varsity Cricket (Tournament)	-	Participation
7.	Amit Kumar	L-2020-H-198-M	Handball	-	NZ Inter varsity Handball (Tournament)	-	Participation
8.	Harsimran Singh	L-2020-H-203-M	Hockey	-	NZ Inter varsity Hockey (Tournament)	-	Participation
9.	Ankush	L-2019-H-03-BIV	Hockey	-	NZ Inter varsity Hockey (Tournament)	-	Participation
10.	Gurnam Singh Bhullar	L-2019-H-11-BIV	Basketball	-	NZ Inter varsity Basketball (Tournament)	-	Participation
11.	Asmi	L-2020-H-11-BIV	Basketball	-	NZ Inter varsity Basketball (Tournament)	-	Participation
12.	Gurek Singh	L-2020-H-23-BIV	Basketball	-	NZ Inter varsity Basketball (Tournament)	-	Participation

S. No.	Name	Admission No	Name of Game/Activity	Inter College	North Zone (NZ) Inter varsity/All India/Inter Agri	State/National	Position
13.	Rajveer Kaur	L-2020-H-193-BIV	Basketball	-	NZ Inter varsity Basketball (Tournament)	-	Participation
14.	Arushi Vashisht	L-2021-H-203-M	Basketball	-	NZ Inter varsity Basketball (Tournament)	-	Participation
15.	Harshdeep Kaur	L-2021-42-BIV	Basketball	-	NZ Inter varsity Basketball (Tournament)	-	Participation
16.	Shagun	L-2021-H-197-M	Hockey	-	NZ Inter varsity Hockey (Tournament)	-	Participation
17.	Ajaypal Singh	L-2021-H-63-BIV	Volleyball	-	Inter-Agri Volleyball (Tournament)	-	Participation
18.	Sukhpreet	L-2019-H-53-BIV	Athletic	Inter College Broad Jump	-	-	2 nd Position
19.	Sandeep Kaur	L-2020-H-214-M	Athletic	Inter College 100,200 Mts Mts,400 Mts,1500 Mts	-	-	2 nd & 3 rd Position (3 rd University Best Athlete)
2022-2023							
1.	Team	-	Inter College Basketball tournament	-	-	-	2 nd Position
2.	Team	-	Inter College Basketball tournament	-	-	-	1 st Position

S. No.	Name	Admission No	Name of Game/Activity	Inter College	North Zone (NZ) Inter varsity/All India/Inter Agri	State/National	Position
3.	Team	-	Inter College Hockey tournament	-	-	-	2 nd Position
4.	Team	-	Inter College Handball (M)tournament	-	-	-	2 nd Position
5.	Team	-	Inter College Handball (W) tournament	-	-	-	2 nd Position
6.	Team	-	Inter College Cricket (M) tournament	-	-	-	2 nd Position
7.	Team	-	Inter College Badminton(M) tournament	-	-	-	3 rd Position
8.	Ajay veer Singh Sohi	L-2021-H-02-BIV	Inter College 50 & 100 Mts Back Stroke ,100 Mts Free Style & 50 Mts Butterfly	-	-	-	1 st ,3 rd ,2 nd & 2 nd Position
9.	Jasmanpreet Singh	L-2020-H-033-BIV	Inter College 73 KG tournament	-	-	-	1 st Position

S. No.	Name	Admission No	Name of Game/Activity	Inter College	North Zone (NZ) Inter varsity/All India/Inter Agri	State/National	Position
10.	Gurnoor Singh	L-2022-H-14-BIV	-	-	SR. Punjab khedaVatanDiyan	-	2 nd Position
11.	Harshaan Singh Mashiana	L-2022-H-35-BIV	-	-	Junior National Competition 4×400 mts Relay	-	3 rd Position
12.	Ajaypal Singh	L-2021-H-63-BIV	-	NZ Inter varsity Volleyball (Tournament)	-	-	Participation
13.	Gurek Singh	L-2020-H-23-BIV	-	NZ Inter varsity Basketball (Tournament)	-	-	Participation
14.	Taranpreet Kaur	L-2022-H-30-BIV	-	NZ Inter varsity Hockey (Tournament)	-	-	Participation
15.	Mahavir Singh	L-2021-H-81-BIV	-	(NZ Inter varsity Hockey (Tournament)	-	-	Participation
16.	Ankush	L-2019-H-03-BIV	-	NZ Inter varsity Hockey (Tournament)	-	-	Participation
17.	Aasmi	L-2020-H-11-BIV	-	NZ Inter varsity Basketball (Tournament)	-	-	Participation

S. No.	Name	Admission No	Name of Game/Activity	Inter College	North Zone (NZ) Inter varsity/All India/Inter Agri	State/National	Position
18.	Simranpreet Kaur Mahal	L-2020-H-69-BIV	-	NZ Inter varsity Basketball (Tournament)	-	-	Participation
19.	Ajayveer Singh Kohli	L-2021-H-02-BIV	-	(NZ Inter varsity Aquatic (Tournament)	-	-	Participation
20.	Chetas	L-2021-H-51-BIV	-	NZ Inter varsity Football (Tournament)	-	-	Participation
21.	Jasreet Kaur	L-2019-H-022-BIV	-	Inter varsity Volleyball	-	-	Participated
22.	Arshveer Kaur	L-2019-H-5-BIV	Inter College Basketball	-	-	-	1 st Position
23.	Harleen Kaur	L-2019-H-17-BIV	Inter College Basketball	-	-	-	1 st Position
24.	Harshdeep Kaur	L-2021-H-42-BIV	PAU Inter College Basketball Tournament, Inter College Handball	-	-	-	1 st position 2 nd Position
25.	Harmandeep Singh	L-2021-H-72-BIV	Inter College Hockey	-	-	-	2 nd Position
26.	Sneha Juyal	L-2019-H-50-BIV	-	State Inter varsity	-	-	3 rd Position

B. Achievements of students of College of Horticulture & Forestry in Inter-College Youth Festival

S. No	Name of Student & Admission No/ Group	Name of Activity	Position
2019-20			
1.	Group	Folk Dance (Female) <i>Giddha</i>	2 nd Prize
2.	Anshul (L-2019-H-4-BIV)	Light Vocal	1 st Prize
3.	Anshul (L-2019-H-4-BIV)	Folk solo	2 nd Prize
4.	Anshul (L-2019-H-4-BIV)	Western Song	3 rd Prize
5.	Anshul (L-2019-H-4-BIV)	<i>Shabad Gayan</i>	1 st Prize
2020-21 COVID Pandemic			
2021-22 COVID Pandemic			
7.	Scampy Chhabra (L-2019-H-45-BIV)	Cartooning	3 rd Prize
8.	Partik Sharma (L-2019-H-35-BIV)	Mimicry	2 nd Prize
2022-23			
9.	Group	<i>Shabad Gayan</i>	1 st Prize
10.	Group	Folk Dance (Female) <i>Giddha</i>	2 nd Prize
11.	Group	Folk Dance (Male) <i>Bhangra</i>	3 rd Prize
12.	Group	Skit	3 rd prize
13.	Group	Indian Group Song	1 st Prize
14.	Group	One Act Play	3 rd Prize
15.	Group	Mime	3 rd Prize
16.	Vishavjit Singh (L-2020-H-232-M)	Folk Song	1 st Prize

17.	Harrleen Kaur (L-2019-H-17-BIV)	Folk Song	2 nd Prize
18.	Chuniya Goyal (L-2021-H-052-BIV)	<i>Rangoli</i>	2 nd Prize
19.	Kshitiz (L-2020-H-040-BIV)	On The Spot Photography	3 rd Prize
20.	Usman Ahmed (L-2020-H-062-BIV)	Debate	3 rd Prize
21.	Partik Sharma (L-2019-H-35-BIV)	<i>Haas Ras</i>	1 st Prize
22.	Anshul (L-2019-H-4-BIV)	Western Song	3 rd Prize
23.	Anshul (L-2019-H-4-BIV)	<i>Shabad Gayan</i>	3 rd Prize
24.	Partik Sharma (L-2019-H-35-BIV)	Mimicry	3 rd Prize
25.	Meenakshi (L-2021-H-167-M)	Mono Acting	3 rd Prize
26.	Navpreet Kaur (L-2021- H-047-BIV)	Solo Dance	2 nd Prize
27.	Puneet Kaur (L-2019-H-37-BIV)	<i>Enu making</i>	2 nd Prize
28.	Amanjot Kaur (L-2020-H-03-BIV)	<i>Piri Making</i>	3 rd prize
29.	Jaspreet Kaur (L-2019-H-21-BIV)	<i>Chikku Making</i>	3 rd Prize
30.	Riya (L-2021-H-029-BIV)	<i>Nale Bunna</i>	3 rd Prize
31.	Shruti Bansal (L-2021-H-057-BIV)	Mehandi	2 nd Prize

Table 39. Extraordinary Achievements of Students in Inter College Youth Festival

S.No.	Name	Admission No	Name of Activity	Prize
2019-20				
1.	Rohit Singh	L-2019-H-199-M	Music	Best Singer
2022-2023				
1.	Partik Sharma	L-2019-H-35-BIV	Theatre	Best Actor
2.	Harkirat Kaur Mashiana	L-209-H-16-BIV	Folk Dance (Female)	Best Dancer
3.	Vishavjeet Singh	L-2020-H-232-M	Music	Best Singer

Table 40. Achievements of Students in Co-Curricular Activities at State and National Level

Year	Awards
2020-21	<ol style="list-style-type: none"> 1. Navjeet Kaur (L-2020-H-080-BIV) 1st position in Landscape Gardening in State level Skill Development competition. 2. Jagjit Singh (L-2019-H-20-BIV) 2nd position in Landscape Gardening in State level Skill Development competition. 3. Gazal Rani (L-2020-H-021-BIV) 1st position in Floristry in State level Skill Development competition. 4. Harkirat Kaur Mashiana (L-2019-H-16-BIV) 2nd position in Floristry State level Skill Development competition.
2021-22	<ol style="list-style-type: none"> 1. Navpreet Kaur (L-2021-H-047-BIV) got 1st position in Paranda Gundna (ਪਰਾਂਦਾਗੁੰਦਣਾ) PAU Talent – Harvest – Heritage Festival.
2022-23	<ol style="list-style-type: none"> 1. Aarzo (L-2022-H-128-M) 2nd position in Group Song Indian in Punjab khedmela held at Sangrur. 2. Sangampreet Singh (L-2019-H-44-BIV) 2nd position in Group Folk Dance in Punjab khedmela held at Sangrur.



Bhangra Team of the College of Horticulture & Forestry- 1st Prize 2023



Folk Dance; *Gidha* Team of the College of Horticulture & Forestry





Prize Winners in the University Youth Festivals with Dean COHF

B. Faculty

For the period under report, the faculty of the College has been bestowed with various awards and honours. The details of faculty bestowed with international award, national awards, fellowships and international collaborations (Table 41&42, 43) are detailed.

Table 41: Awards and Honours Won by the Faculty of the College.

Year	National	International	Fellowships
2018-19	5	1	2
2019-20	11	1	2
2020-21	7	3	-
2021-22	6	8	2
2022-23	13	1	2

Table 42: Faculty Awards and Honors during 2018-2022.

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
1.	Dr. Jaswinder Singh Brar	Fruit Science	University Appreciation Award	2018	PAU, Ludhiana

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
2.	Dr. S.K. Jindal	Vegetable Science	Dr. R. K. Arora Best Paper Award	2018	Indian Society of Plant Genetic Resources, New Delhi
3.	Dr. N.K. Arora	Fruit Science	1st Swaran Singh Virk Memorial Award	2018	Baag Parivar ,Kotakpura
4.	Dr. Sukhjeet Kaur	Vegetable Science	Best Poster Award	2018	Indian Society of Plant Pathologists
5.	Dr. Sukhjeet Kaur S.S. Kang A. Sharma S. K. Jindal M.S. Dhaliwal	Vegetable Science	Best Paper Award	2018	Indian Society of Plant Genetic Resources, New Delhi
6.	Dr. R.K. Dubey	Floriculture & Landscaping	Fellow of Indian Society of Ornamental Horticulture	2018	Indian society of Ornamental Horticulture
7.	Dr. R.I.S. Gill	Forestry & Natural Resources	Sponsored Scientist	2018	World Agroforestry Centre (ICRAF)
8.	Dr. Ashok Kumar Dhakad	Forestry & Natural Resources	Best Ph.D. Thesis Award	2018	Society for Scientific Development in Agriculture and Technology
9.	Dr. Navneet Kaur	Forestry & Natural Resources	Fellowship	2018	Swedish International Development Agency
10.	Dr. Sandeep Singh	Fruit Science	Outstanding Achievers Award-2019	2019	The Society of Tropical Agriculture, New Delhi.

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
11.	Dr. P.P.S. Gill	Fruit Science	Fellow	2019	Indian Academy of Horticultural Sciences, New Delhi
12.	Dr. Sandeep Singh	Fruit Science	Fellow	2019	Association for Advancement of Pest Management in Horticultural Ecosystem, ICAR-IIHR, Bengaluru
13.	Dr. Sandeep Singh	Fruit Science	Best Innovation Award for Developing “PAU Fruit Fly Traps”	2019	Pear Growers Association, District Tarn Taran, Punjab on October 14, 2019
14.	Drs. Trina Adhikary P.P.S. Gill S.K. Jawandha	Fruit Science	Best Poster Award	2019	Progressive Horticulture conclave -2019 held at ICAR-CISR, Lucknow, UP. December 8-10, 2019
15.	Dr. R.K. Dhall	Vegetable Science	Hans Raj Pahwa Memorial Award for 2016-17	2019	PAU, Ludhiana
16.	Dr. S.K. Jindal	Vegetable Science	Facilitation from PAU (Cash reward for CH-27)	2019	PAU, Ludhiana
17.	Dr. M.K.Sidhu A.S. Dhatt	Vegetable Science	Second Award for Poster Pesentation during First Vegetable Science Congress	2019	Indian Society Vegetable Science

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
18.	Drs. A.S. Dhatt M.K. Sidhu	Vegetable Science	Third Award for Poster Presentation First Vegetable Science Congress	2019	Indian Society Vegetable Science
19.	Drs. A.S. Dhatt M.K. Sidhu	Vegetable Science	Dr. Harbhajan Singh Memorial Award for Best Publication in ' <i>Vegetable Science</i> ' for year 2017	2019	Indian Society Vegetable Science
20.	Dr. Navneet Kaur	Forestry & Natural Resources	International Travel Fellowship	2019	Punjab Agricultural University, Ludhiana
21.	Dr. S.K. Chauhan	Forestry & Natural Resources	Dr. Fakkrudin Ali Ahmed Award	2019	ICAR, New Delhi
22.	Dr. Ashok Kumar Dhakad	Forestry & Natural Resources	Member of Executive Committee	2019	National Environmental Science Academy, New Delhi
23.	Dr. Ashok Kumar Dhakad	Forestry & Natural Resources	Adarsh Vidya Saraswati Rashtriya Puraskar	2019	Global Management Council, Ahmadabad, Gujarat
24.	Dr. Sandeep Singh	Fruit Science	Fellow	2020	The Society for Horticultural Research and Development, Ghaziabad (UP)

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
25.	Dr. Sandeep Singh	Fruit Science	Second Best Oral Paper Award	2020	Indian Horticulture Summit-2020. MGCGV, Chitrakoot, Madhya Pradesh. February 14, 2020
26.	Dr. Sandeep Singh	Fruit Science	Best Lead Presenter Award	2020	ICAR-AICRP on Fruits
27.	Drs. M.K. Sidhu A.S. Dhatt S. Kaur J. Kaur	Vegetable Science	Best Poster Award	2020	Biotechnology and Crop Improvement, College of Horticulture UHS Campus, Bengaluru Karnataka
28.	Drs. Sukhjeet Kaur Mohinder Kaur A. S. Dhatt	Vegetable Science	Best Poster Award	2020	7th International Conference on Phyto pathology in Achieving UN Sustainable Development Goals, ICAR-IARI, New Delhi, India.
29.	Drs. Mamta Pathak Sukhjeet Kaur	Vegetable Science	Best Oral Presentation	2020	7th International Conference on Phytopathology in Achieving UN Sustainable Development Goals ICAR-IARI, New Delhi, India.

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
30.	Dr. Satesh Jindal	Vegetable Science	Award of Best Poster	2020	7th International conference on Phyto pathology in achieving unsustainable development goals, Indian Phytopathological society, New Delhi
31.	Dr. Satesh Jindal	Vegetable Science	Award of Honor for “Development of Outstanding Technologies” by PAU Ludhiana	2020	57th Alumini Meet of college of Agriculture, PAU, Ludhiana
32.	Dr. S.K. Chauhan	Forestry & Natural Resources	Gold Medal	2020	Indian Society of Agroforestry, Jhansi
33.	Dr. S.K. Chauhan	Forestry & Natural Resources	Agriculture Today Award	2020	Agriculture Today Magazine
34.	Dr. Harminder Singh	Fruit Science	Fellowship of the Indian Academy of Horticultural Sciences	2021	Indian Academy of Horticultural Sciences, New Delhi
35.	AICRP Team Award	Vegetable Science	Best AICRP Center award 2021	2021	ICAR, New Delhi
36.	Drs. S.A.H Patel Kulbir Singh M.K. Sidhu	Vegetable Science	Best Poster Award	2021	International Horticulture Conference 2021- Next Generation Horticulture at TNAU, Coimbatore TN

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
37.	Drs. A.S. Dhatt Kulbir Singh S.A.H Patel	Vegetable Science	Best Poster Award	2021	International Conference on Vegetable Research and Innovation for Nutrition, Entrepreneurship and Environment at IIVR Varanasi
38.	Drs. M.K. Sidhu A.S. Dhatt Sukhjeet Kaur	Vegetable Science	Best Poster Award	2021	International Conference on Vegetable Research and Innovation for Nutrition, Entrepreneurship and Environment at IIVR Varanasi
39.	Drs. Neha Verma K.S. Garcha A.S. Dhatt Abhishek Sharma Madhu Sharma Jiffinvir Singh	Vegetable Science	Best Poster Award	2021	International Conference on Vegetable Research and Innovation for Nutrition, Entrepreneurship and Environment at IIVR Varanasi
40.	Drs. Kunal Farwan Ruma Devi Tarsem Singh Dhillon	Vegetable Science	Best Poster Award	2021	International Conference on Vegetable Research and Innovation for Nutrition, Entrepreneurship and Environment at IIVR Varanasi

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
41.	All Faculty	Vegetable Science	Best AICRP Center Award 2021	2021	39th Group Meeting of AICRP(VC), ICAR-IIVR, Varanasi
42.	Drs. S.A.H. Patel Kulbir Singh M.K. Sidhu	Vegetable Science	Best Poster Presentation Award India	2021	TNAU, Coimbatore
43.	Drs. M.K.Sidhu Dhatt A.S. S Kaur J Kaur	Vegetable Science	Best Poster Presentation Award	2021	International Hybrid Conference, ICAR-IIVR, Varanasi
44.	Drs. Asha Devi P Sukhjeet Kaur A Sharma N. K. Dhillon S.K. Jindal	Vegetable Science	Best Poster Presentation Award	2021	National symposium on Strategic Plant Disease Management For Food Security, ICAR-CPRI, Shimla, H.P.
45.	Drs. Madhu Sharma J.S. Khosa A Sharma A. S. Dhatt	Vegetable Science	Best Poster Award	2021	International Horticulture Conference- Next Generation Horticulture, TNAU, Coimbatore
46.	Dr. Hira Singh	Vegetable Science	Young Scientist Award - 2021	2021	International Conference (GIAFAS-2021) Jointly Organized by the Agricultural & Environmental Technology, AETDS, Uttarakhand

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
47.	Dr. A.K. Dhakad	Forestry & Natural Resources	1 st Prize for Oral Presentation	2021	Tamil Nadu Agricultural University
48.	Dr. R.I.S. Gill	Forestry & Natural Resources	Commendation Certificate	2021	ICAR-CAFRI, Jhansi
49.	Dr. R.I.S. Gill	Forestry & Natural Resources		2021	Indian Society of Agroforestry, Jhansi
50.	Dr. Sandeep Singh	Fruit Science	Member, Editorial Committee of Tephritid Workers of Asia, Australia and Oceania (TAAO)	2022	Tephritid Workers of Asia, Australia and Oceania (TAAO), Australia
51.	Dr. P.P.S. Gill	Fruit Science	Fellow	2022	Society for Promotion of Horticulture (SPH), ICAR-IIHR, Bangalore
52.	Dr. H.S. Rattanpal	Fruit Science	Councillor	2022	Indian Society of Citriculture, Nagpur
53.	Drs. H.S. Rattanpal Monika Gupta	Fruit Science	4 th Swaran Singh Virk Memorial Award	2022	Citrus growers Association, Faridkot
54.	Dr. Anita Arora	Fruit Science	Best oral presentation award	2022	Central Horticultural Experiment Station (ICAR-IIHR), Bhubaneswar, SPH, ICAR-IIHR, Bengaluru
55.	Drs. Anjali Jain S. Dhall R.K. Rani R	Vegetable Science	Best Poster Award	2022	SKNAU, Jobner-Jaipur, Rajasthan

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
56.	Dr. Hira Singh	Vegetable Science	RashtriaNirman Rattan Award-2022	2022	Nirman Campus of Education Research and Training, IGNOU Centre, Sunam
57.	Drs. Barinder Kaur Jiffinvir Singh Khosa Madhu Sharma Dharminder Bhatia Aman Mittal A. S. Dhatt	Vegetable Science	Best Poster Award	2022	PAU, Ludhiana
58.	Dr. R.K. Dubey	Floriculture & Landscaping	Certificate of Appreciation	2022	MGSIPA complex, Chandigarh
59.	Dr. Madhu Bala	Floriculture & Landscaping	Second Prize in an Oral Presentation	2022	AGMET-2021, National conference on Managing weather and climate risks in agriculture held at SKUAST-K
60.	Dr. Madhu Bala	Floriculture & Landscaping	First prize in Oral presentation	2022	4 th Global Meet on Science and Technology (GMST- 2020)
61.	Dr. Gagandeep Kaur	Fruit Science	Appreciation Letter for excellence in teaching	2022	College of Horticulture & Forestry, PAU, Ludhiana
62.	Dr. Madhu Bala	Floriculture & Landscaping	Appreciation Award for excellence in teaching	2022	College of Horticulture & Forestry, PAU, Ludhiana

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
63.	Dr. Simrat Singh	Floriculture & Landscaping	Appreciation Award for Excellence in Teaching	2022	College of Horticulture & Forestry, PAU, Ludhiana
64.	Dr. Ashok Kumar Dhakad	Forestry & Natural Resources	Member of Executive Committee	2022	Fellowship of Indian Society of Ornamental Horticulture
65.	Dr. Trina Adhikary	Dean, COHF	Appreciation Award for Excellence in Teaching	2022	College of Horticulture & Forestry, PAU, Ludhiana
66.	Dr. R.K. Dubey	Forestry & Natural Resources	Certificate of Appreciation	2022	Certificate of appreciation awarded in mapping floral diversity of MGSIPA complex, Chandigarh, organized by Punjab State Council for Science & Technology (PSCST) & Consulate General of Canada
67.	Dr. Madhu Bala	Forestry & Natural Resources	Second Prize	2022	AGMET-2021, National conference on Managing weather and climate risks in agriculture held at SKUAST-K

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
68.	Dr. Trina Adhikary	COHF	Young Scientist Award in VIIIth International Conference on Global Research Initiatives for Sustainable Agriculture and Allied Sciences (GRISAAS-2022)	2022	Birsa Agricultural University, Ranchi, Zharkhand
69.	Dr. Sandeep Singh	Fruit Science	Award of Honour from Alumni Association	2023	PAU, Ludhiana
70.	Dr. Anirudh Thakur	Fruit Science	Fellowship of Indian Academy of Horticultural Sciences, New Delhi	2023	Indian Academy of Horticultural Sciences, New Delhi
71.	Dr. R.K. Dhall	Vegetable Science	Fellow of Indian Society of Vegetable Science for the year 2021	2023	SKUAST, Srinagar
72.	Dr. Hira Singh	Vegetable Science	Awarded DST-AWSAR-2022 Award	2023	Department of Science & Technology
73.	Drs. Jiffinvir Singh Khosa O P Meena Madhu Sharma A. S. Dhatt	Vegetable Science	Best Poster Award	2023	ICAR-DOGR, Pune, Maharashtra
74.	Drs. G. Verma O.P. Meena M. Sharma J.S. Khosa A.S. Dhatt	Vegetable Science	Best Poster Presentation Award	2023	ICAR-DOGR, Pune, Maharashtra

S. No.	Name of the Teacher	Department	Name of Award	Year of Award	Awarding Institution
75.	Drs. Arman Thakur S.A.H. Patel S.K. Jindal Rupeet Gill	Vegetable Science	Best Poster Award	2023	University of Horticulture & Forestry, Solan, H.P.
76.	Dr. R. K. Dubey	Floriculture & Landscaping	Best Poster Presentation Award	2023	Progressive Horticulture Conclave- Transforming Horticulture Science into Technology held on February 3-5,2023, Organized by G.B.P.U.A.&T., Pantnagar& ISHRD, Uttarakhand
77.	Dr. R. K. Dubey	Floriculture & Landscaping	Best Poster Presentation Award	2023	Progressive Horticulture Conclave – Transforming Horticulture Science into Technology held on February 3-5,2023, Organized by G.B.P.U.A.&T., Pantnagar& ISHRD, Uttarakhand,

All India Coordinated Research Project (AICRP) Awards

- Department of Fruit Science AICRP centre was conferred the “**Award of Excellence: Linking Technology Development and Transfer**” by ICAR-AICRP on Fruits on January 16, 2020.

Coveted Position Held by PAU Faculty

- Dr. P. S. Aulakh, Professor of Horticulture served as Director, Horticulture, Government of Punjab 2017- 2018.
- Dr. W S Dhillon: Assistant Director General (Horticulture), ICAR from 1st August 2016 to 30th June 2020.

Table 43: International Visits of the Faculty

Year	Name of the Faculty	Department	Visit / Dates	Purpose
2018	Dr. Navneet Kaur	Forestry & Natural Resources	21-27 January 2018	Training on Agriculture food security research policy linkages- Thailand
2018	Dr. Kamaldeep Singh Sangha	Forestry & Natural Resources	27-29 April 2018	International Agroforestry Conference- Nepal
2018	Dr. Sandeep Singh	Fruit Science	6 June – 5 September 2018	Advance training on “Spotted wing drosophila trapping and attract and kill technology” at Michigan State University, East Lansing, USA
2019	Dr. Ranjit Singh	Floriculture & Landscaping	11- 20 November 2019	Exposure visit to The Netherlands along with 1 farmer under PUM- Netherlands business link programme
2019	Dr. R.I.S Gill	Forestry & Natural Resources	19-23 May 2019	To attend 4 th World Congress on Agroforestry- France
2019	Dr. Navneet Kaur	Forestry & Natural Resources	01-04 April, 2019	Training on Resilient and sustainability food systems for a food secure future- Netherland

2022	Dr. Hira Singh	Vegetable Science	14 - 20 August 2022	To attend 31 st International Horticulture Congress organized by the International Society of Horticultural Sciences at Angers, France
2022	Dr. Abhishek Sharma	Vegetable Science	17-19 August 2022.	To attend International Conference on 5th Rencontres de Quy Nhon: International Biology Conference in Vietnam from
2022	Dr. Ashok Kumar Dhakad	Forestry & Natural Resources	22-24 June 2022	International Conference on Biodiversity and Bioprospecting, Nepal
	Dr. Sandeep Singh	Fruit Science	13 November - 18 November 2022	11th International Symposium on “Fruit Flies of Economic Importance” at Macquarie University, Sydney, Australia
	Dr. Sandeep Singh	Fruit Science	28 July-6 August 2023	Visiting Professor and participation in “Southern Agriculture Fair”, at Prince of Songkhla University, Thailand

6.5.7.4. Employability

- The College has two diploma courses for imparting hands on training and practical knowledge to students which help them to acquire skills and expertise beneficial for their successful future induction in the job sector.
- The students in final year of their degree programme attend specialized classes designed principally for various competitive examinations like Junior Research Fellowship (JRF), Senior Research Fellowship (SRF) etc.
- The students are provided exposure to interview panels through mock interviews

and group discussion sessions.

- Strong emphasis on improving the understanding skills of the students through practical learning and understanding field problems of crop plants.
- The details of placements of the students (Table 44) from 2018 to 2023 are as follows;

Table 44: Placement of Students of College of Horticulture and Forestry

Fruit Science				
S. No.	Name of the Student	Admin No.	Year of Passing	Present Placement
1.	Priyanka	L-2016-A-91-M	2018	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
2.	Bachiter Singh	L-2016-A-86-M	2018	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
3.	Varinder Singh	L-2016-A-94-M	2018	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
4.	Vikrant Singh	L-2016-A-95-M	2018	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
5.	Pankaj Kumar	L-2017-A-98-M	2018	Sub Divisional Engineer, PWD
6.	Sunaiana	L-2015-A-94-M	2018	Assistant Professor, GNDU
7.	Manjeet Rani	L-2016-A-90-M	2018	Horticulture Development Officer, Department of Horticulture, Punjab
8.	Navpreet Singh	L-2015-A-99-M	2018	Horticulture Development Officer, Department of Horticulture, Punjab

9.	Swapnil Pandey	L-2014-A-38-D	2018	Assistant Professor, PAU, Ludhiana
10.	Sukhchain Singh	L-2014-A-4-D	2018	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
11.	Sarvpriya Singh	L-2014-A-42-D	2018	Assistant Professor, PAU, Ludhiana
12.	Shilpa	L-2015-A-20-D	2018	Assistant Professor, YSP-UHF, COHF, Thunag
13.	Veerpartap Singh	L-2015-A-29-D	2018	Assistant Professor, PAU Ludhiana
14.	Sukhsagar Gill	L-2015-A-27-D	2019	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
15.	Jaspreet Singh	L-2018-A-97-M	2020	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
16.	Amandeep Dhillon	L-2018-A-91-M	2020	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
17.	Harmanjot Singh	L-2018-A-95-M	2020	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
18.	Jeevan Jyoti	L-2018-A-98-M	2020	JE/SO, MC, Chandigarh
19.	Gagandeep Kaur	L-2018-A-93-M	2021	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
20.	Sunpreet Kaur	L-2019-H-201-M	2021	Technical Assistant, (Warehouse Corporation) PWD

21.	Manpreet Kaur	L-2019-H-195-M	2021	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
22.	Karamjit Singh	L-2019-H-193-M	2021	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
23.	Aeshna Sinha	L-2018-A-36-D	2021	Assistant Professor, RIMT Univ, Mandi Gobindgarh, Punjab
24.	Himanshu Nagpal	L-2019-H-93-D	2021	Assistant Professor, Govt Brijindra College, Faridkot
25.	Pardeep Singh	L-2020-H-212-M	2022	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
26.	Azad Singh Brar	L-2020-H-200-M	2022	Technical Assistant, (Warehouse Corporation) PWD
27.	Amandeep Kaur Aulakh	L-2018-A-37-D	2022	Horticulture Development Officer, Department of Horticulture, Punjab
28.	Kunzang Lamo	L-2017-A-31-D	2022	Young Professional, HMAARI, SKUAST-K, Ladakh
29.	Naveena Kumara K T	L-2018-A-39-D	2022	Assistant Horticulture Officer, KSHD, Bengaluru
30.	Eslvath Khamdar Naik	L-2018-A-38-D	2023	Scientist, Citrus Research station, YSR Horticultural University, Petlur, Andhra Pradesh
31.	Anil Sharma	L-2019-A-89-D	2023	Research Fellow, SKUAST,Jammu
32.	Devi Darshan	L-2019-A-91-D	2023	Assistant Professor, School of Agricultural

				Sciences, Career Point University, Kota
33.	Komalpreet Kaur	L-2019-A-94-D	2023	Young Professional, ICAR-ATARI, Ludhiana
34.	Pooja Devi	L-2019-A-96-D	2023	Agriculture Development Officer, Govt. of Himachal Pradesh
Vegetable Science				
S. No.	Student Name	Admission No.	Year of passing	Present Placement
1	Barinderpal Singh	L-2015-A-153-M	2018	Horticulture Development Officer, Department of Horticulture, Punjab
2	Ramandeep Kaur Sidhu	L-2016-A-160-M	2018	Horticulture Development Officer, Department of Horticulture, Punjab
3	Ramandeep Kaur	L-2016-A-167-M	2018	Horticulture Development Officer, Department of Horticulture, Punjab
4	Ashish Kumar	L-2016-A-154-M	2018	Assistant Manager, Punjab National Bank
5	Manpreet Kaur	L-2016-A-166-M	2018	Research Fellow, PAU, Ludhiana
6	Rimaljeet Kaur	L-2016-A-161-M	2018	Job in Canada
7	Diksha Tinna	L-2016-A-164-M	2018	Assistant Professor, Private College
8	Didar Singh	L-2015-A-155-M	2018	Assistant Professor, Private College
9	Davinder Singh	L-2014-A-45-D	2018	Assistant Professor, Hissar Agricultural University, Haryana
10	Hemant Thakur	L-2014-A-44-D	2018	Assistant Professor, PAU, Ludhiana
11	Kosna Shrikar	L-2016-A-158-M	2019	Junior Research Fellow, PAU, Ludhiana

12	Sukhdeep Kaur	L-2015-A-168-M	2019	Agriculture Sub Inspector, State Government
13	Tanveer Kaur	L-2016-A-162-M	2019	Junior Engineer, GLADA, State Government
14	Simrandeep Kaur	L-2017-A-166-M	2020	Research Fellow, PAU, Ludhiana
15	Anupama Sarangal	L-2017-A-160-M	2020	Private Company
16	Dilpreet Talwar	L-2015-A-33-D	2020	Assistant Professor, PAU, Ludhiana
17	Barinder Kaur	L-2015-A-32-D	2020	Assistant Professor, PAU, Ludhiana
18	Menisha Rani	L-2016-A-45-D	2020	Research Associate at CSK HPKV Palampur
19	Bipanpreet Kaur	L-2018-A-156-M	2021	Agriculture Field Officer in Markfed, State Government
20	Sahil	L-2018-A-163-M	2021	Field Officer in Punjab Warehouse Corporation, State Government
21	Ramandeep Singh	L-2017-A-164-M	2021	Private Company
22	Gagandeep Singh	L-2015-A-34-D	2021	Assistant Professor, Khalsa College, Amritsar
23	Kunal Farwan	L-2019-H-210-M	2022	Private Company
24	Sangram Singh Sandhu	L-2020-H-227-M	2022	Agriculture Field Officer in Markfed, State Government
25	Tejpal Singh	L-2018-A-41-D	2022	Research Fellow, PAU, Ludhiana
26	Jasmeen Kaur	L-2016-A-46-D	2022	Research Fellow, PAU, Ludhiana
27	Neha Verma	L-2017-A-34-D	2022	Research Fellow, PAU, Ludhiana

28	Karamveer Singh	L-2017-A-36-D	2022	Research Fellow, PAU, Ludhiana
29	DechenAngmo	L-2016-A-43-D	2022	Project Associate at SKUAST, Kashmir
Floriculture & Landscaping				
S. No.	Name of the student	Admission no.	Year of passing	Present placement
1.	Monika Patel	L-2014-A-34-D	2018	Assistant Professor, Birsa Agricultural Univeristy, Ranchi
2.	Ali Khyber	L-2016-A-79-M	2018	Horticulture Officer, Afganistan
3.	Lakhbir	L-2015-A-65-M	2019	Horticulture Development Officer, Department of Horticulture, Punjab
4.	Jobanpreet Singh	L-2016-A-66-M	2019	Landscape Manager, Rajgarh Estate, Ludhiana
5.	Anish Chander	L-2017-A-69-M	2019	Horticulture Development Officer, Department of Horticulture, Punjab
6.	Malkit Singh	L-2017-A-75-M	2019	Junior Engineer, PUDA
7.	Teju Kumar B.K.	L-2017-A-79-M	2019	Junior Engineer, Jal Nigam, Delhi
8.	Amrinder Singh	L-2016-A-62-M	2019	Landscape Consultant
9.	Vishu Kumar	L-2015-A-72-M	2020	Sectional Officer, DDA, New Delhi
10.	Navjot Bhatia	L-2017-A-76-M	2020	Horticulture Supervisor, PUDA
11.	Mr. Geoffrey Joel Poteza	L-2017-A-361-M	2020	Teaching Assistant, University of Dar Es Salaam, Tanzania
12.	Mohit	L-2018-A-74 - M	2020	Agriculture officer at Bank of India

13.	Gurpinder Singh	L-2018-A-69 - M	2020	Agriculture Development Officer, Department of Agriculture & farmers welfare, Punjab
14.	Navkaranjot Singh	L-2018-A-75-M	2020	Junior Engineer, Municipal Corporation, Jalandhar, Punjab
15.	Suriti	L-2018-A-77-M	2020	Horticulture Supervisor, PUDA
16.	Arzoo	L-2018-A-66-M	2020	Horticulture Supervisor, PUDA
17.	Santesh Kamath	L-2018-A-76-M	2020	ICAR-ARS
18.	Anuradha	L-2016-A-37-D	2020	Teaching assistant, COA, BallawalSankhri, PAU, Ludhiana
19.	Abhishek	L-2017-68-M	2020	Landscape Consultant
20.	Arshdeep Singh	L-2019-H-177-M	2021	Agriculture Development Officer, Department of Agriculture & Farmers Welfare, Punjab
21.	Gurinder Singh	L-2019-H-395-M	2021	Landscape Manager, Rajgarh Estate, Ludhiana
22.	Inderjeet Singh	L-2020-H-192-M	2022	Field Assistant, Mansa, PRANA project under RGR cell
23.	Manmohan Singh	L-2019-H-182 – M	2023	Agriculture Development Officer, Department of Agriculture & farmers welfare, Punjab
24.	Ravinderpal Singh Mann	L-2019-H-184 – M	2023	Agriculture Development Officer, Department of Agriculture & farmers welfare, Punjab

Forestry & Natural Resources				
S . No.	Name of the Student	Admission No.	Year of passing	Present Placement
1.	Mr. Harmandeep Singh	L-2015-A-75-M	2018	Agriculture (Kheti) Teacher
2.	Ms. Deepanjli	L-2016-A-74-M	2018	Agriculture Field Officer in Bank
3.	Mr. Jasveer Singh	L-2014-A-75-M	2018	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
4.	Mr. Arjun Singh	L-2016-A-73-M	2019	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
5.	Mr. Akashdeep Singh	L-2017-A-80-M	2019	Block Programme Manager, Dept of Rural Ministry, GOI
6.	Mr. Hardeep Singh	L-2017-A-84-M	2019	Excise & Customs Inspector, Dept of Revenue, GOI
7.	Mr. Sanjay Kumar Bijakal	L-2017-A-88-M	2019	Deputy Range Officer, Karnataka
8.	Mr. Yadwinder Singh	L-2017-A-91-M	2019	Agriculture Field Officer in Bank
9.	Mr. Navjeet Singh	L-2018-A-84-M	2020	Agriculture Development Officer, Department of Agriculture and Farmer Welfare, Punjab
10.	Mr. Rishabh Sodhi	L-2018-A-87-M	2020	Selected as DSP, Haryana
11.	Mr. Ebadullah Sultani	L-2019-H-165-M	2021	Forest Officer at Afghanistan (Foreign National Student)
12.	Karanpreet Kaur	L-2019-H-392-M	2021	Manager, PUNSUP
13.	Divyanshu Sharma	L-2020-H-176-M	2022	Technical Assistant in FCI, Punjab

6.5.8 Self Study Reports of all the Degree Programmes of the College are included in this document

Certificate

I, **Dr. Manav Indra Singh Gill**, Dean, College of Horticulture and Forestry hereby certify that the information contained in Sections 6.4 and Sections 6.5 are furnished as per the records available in the College and degree awarding University.

Signature of the Dean of the College with date and seal