

6.4. Self-Study Report for the Doctoral Programme

Faculty of Horticulture, Mohanpur, BCKV

A. Name of the Programme: Ph. D. Floriculture and Landscaping

6.4.1. Brief History of the Programme:

The doctoral degree programme was initiated in 1996 to cater the degrees in Ph D (Hort) in Floriculture & Landscaping whenever the Faculty of Horticulture was established to cater the education in to the students including researches in Floriculture and landscaping. The doctoral programme's nomenclature was subsequently changed to Floriculture & Landscape Architecture in the year 2018 to cater the degree Ph D (Hort) in Floriculture & Landscape Architecture. The department were created by the State Government to fulfil the thrust of horticulture especially floriculture production and business in the state of West Bengal. The Department of Floriculture & Landscaping is running with its full of reputation in national and global level. This department is contributing to both research and education to strengthen the farming community of floriculture with technical extension support on the latest technologies to be West Bengal as one of the top floriculture producing states in the country. Besides, this department creates linkages with academics, scientists, producers and farmers by conducting training, projects as well organizing seminars and symposiums.

Specific Objectives:

- This doctoral program aims to teach students the advancements through course curricula and light the innovative capacity of the students to discover the new aiming to solve the problems in different area of floricultural science and landscape architecture.
- To train the students on overall development for bringing out new ideas in floricultural sciences and landscaping for the society and students' personal development to be much useful to the farming community as well as the society.

Accomplishment:

- Seven (7) student have been awarded PhD and one (1) have submitted thesis in last five years
- Our five (5) Doctoral degree students have joined Assistant Professor in different Universities like Dr. YSR Horticultural University, UBKV, Sikkim University and two (2) students in private university



- One (1) student have joined in KVK as Extension specialists
- Four (4)PhD students have been placed in state govt. job as Assistant Director of Horticulture, Govt. of West Bengal
- One (1) Ph D student have been placed in Coconut Development Board, Kolkata and one (1) Ph D student also joined in PRADAN
- One (1) doctoral student joined as landscapist VECC, Salt Lake, Kolkata
- Two (2) Ph D students do research works under projects funded by DST, Govt. of West Bengal on Floricultural Science.
- By the significant contribution of the Doctoral students developed new drying technologies through vacuum and glycerine drying, more than 200 F₁ in tuberose under trial, colour extraction methods from flowers, fabric dyeing, greenhouse production of Gerbera, Rose and Dendrobium.
- Our doctoral students have published 11 number research papers in NAAS rated journals
- Doctoral students have presented 14 papers in national symposium, seminars and conferences
- Students have awarded two (2) best paper presented in national symposia

6.4.2. Faculty Strength

SL. No.	Type of Faculty	Sanctioned Faculty	Faculty in place	Vacant position	Faculty recommended by ICAR
1.	Professor	1	0	1	1
2.	Associate Professor	3	2	1	1
3.	Assistant Professor	4	3+1*	0	2

*Faculties associated in AICRP

6.4.3. Technical and Supporting staff

SL.No.	Type of Staff	Sanctioned Staff	Staff in place	Vacant position	No. of Staff recommended by the ICAR
1.	Technical Assistant	1	0	1	1
2.	Laboratory Attendant/Assistant	2	1	1	2
3.	Office Assistant	1	1	0	1
4.	Field Assistant	2	0	2	2



6.4.4. Classrooms and Laboratories:

6.4.4.1. Number of Classroom: 1 (one) Post Graduate class room

Room	Purpose (Class/Practical)	Area (sq. m)
1.	Class room (PG & PhD)	40

6.4.4.2. Number of Functional Laboratories:

Sl No.	Name of Laboratory/ Facility	Area (Square-metre)	No. of Supporting Staff Attached
1.	Post Graduate Lab-I	37.16	2
2.	Post Graduate Lab-II	64.32	2
3.	Post Graduate Lab-III	37.16	0

6.4.4.3. List of major equipments, laboratories, farm facilities, workshops and other instructional units

SL. No.	Name of Laboratory/ Facility	List of major equipments and facilities
1.	Post Graduate Lab-I	1. Distillation unit 2. Hot air oven 3. Hot plate 4. Water bath 5. Soxhlet apparatus 6. Weighing machine
2.	Post Graduate Lab-II	1. Single beam Spectrophotometer 2. Centrifuge 3. Precision balances 4. Microwave oven 5. Mixer and grinder 6. Titration unit 7. EC meter 8. Refrigerator
3.	Post Graduate Lab-III	1. Cabinet dryer 2. Vacuum dryer 3. Water bath 4. Cold centrifuge 5. UV-Vis Spectrophotometer 6. Autoclave 7. Microwave oven 8. pH meter 9. Precision balance 10. Refrigerator 11. Microscope with photography attachment 12. Lamination unit 13. Sealing machine
4.	Farm facilities	Well-equipped poly houses facilities for growing gerbera, roses and orchid. Germplasm blocks for annuals, shrubs, hedges, etc. Hybridization blocks for tube rose



		Well-arranged Research fields with irrigation and machinery facilities
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6.4.4.4. Justify whether these facilities are sufficient to meet the course curricula requirement

The present infrastructure facilities in the farm and laboratories are sufficient to meet the course curricula requirement. Expenditure required for different research programme leading to thesis for the fulfilment of the degree programme is incurred from the monthly contingent grant of the University. However, separate financial grant for persuasion of research programme for the thesis would be beneficial for the student.

6.4.4.5. Number of theory batches for the Degree Programme: 01

6.4.4.6. Number of Practical Batches for the Degree Programme: 01

6.4.5. Conduct of Practical and Hands-on-Training:

Students in practical classes are catered focusing on hands on works at PhD level with the available facilities according to the practical syllabi. The field practical are done Horticulture Research Station, Mondouri and Horticulture Experiential Learning block, Mohanpur for taking practical and research works for Ph.D. thesis work. The laboratory practicals are catered mainly in PG Lab –I & II and research works of doctoral programmes are done in PG Lab-I, II & III.

6.4.6. Supervision of students in Ph D Programmes

6.4.6.1. Total Number of Students pursuing the Degree at Present: Fifteen (15)

6.4.6.2. Total Number of faculties supervising the Students: 6

	2016-17	2017-18	2018-19	2019-20	2020-21
No. of Students	19	8	7	11	15
No. of Teachers	6	6	6	6	6

Eligible Criteria to become a PhD Advisor:

(Clause 6.03 of the BCKV Regulations regarding Doctoral Degree Programme, 2019)

6.03. Recognition of chairperson / Member of Advisory Committee

- (i) A teacher of the Viswavidyalaya as defined in the Act having at least three (3) years of research and/ or teaching experience after a doctoral degree and at least seven (7) publications after the doctoral degree or joining in service as applicable in the NAAS/



UGC rated journals and /or peer reviewed journals with impact factor as approved by the Board of Studies of the concerned department and subsequently by the PG-UG Council of the respective Faculty, if required, may be recognised as chairperson / member of the Advisory Committee of a student under doctoral degree program.

- (ii) A teacher of the Viswavidyalaya without Doctorate degree but having at least 10 years research / teaching experience and at least seven (7) publications in the NAAS/ UGC rated journals and /or peer reviewed journals with impact factor as approved by the Board of Studies of the concerned department and subsequently by the PG-UG Council of the respective Faculty, if required, may be recognised as chairperson /member of Advisory committee of a student under doctoral degree program.
- (iii)The teachers of the Viswavidyalaya who have registered themselves for the doctoral degree programme shall not be eligible as the Chairman / Member of the Advisory committee of a student.

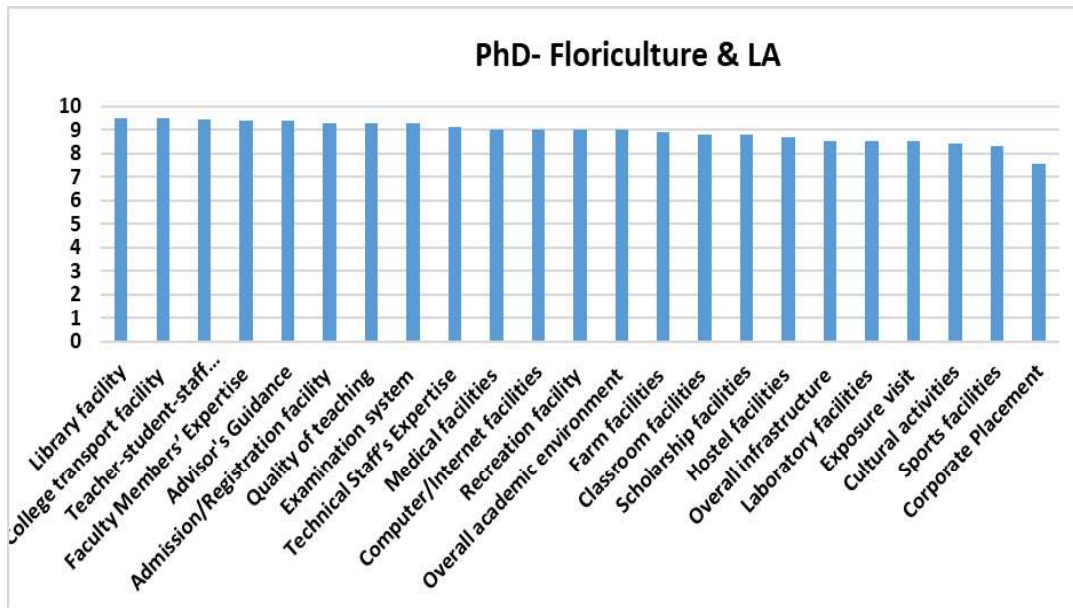
* Documentary evidence attached as annexure at the end

6.4.7. Feedback of stakeholders:

6.4.7.1. Mention the feedback mechanism

Feedback from the students was conducted in Google Forms using standard questionnaire (24 questions) developed on the basis of comprehensive dimension of Agricultural Education in BCKV campus. The dimension covered all the physical and academic facilities provided by the University. The responses were collected on a 10-point scale (1 denotes poorest facility and 10 denotes excellent facility) from the students of this programme. Individual responses were analyzed statistically (by computation of weighted average of every facility as perceived by the students) for the programme and the result was graphically presented in the SSR. As a documentary evidence, individual responses collected from the students' email ID through Google Forms have been stored in our computer (Google Drive). On demand, of ICAR Peer Review Team, the link for the individual responses can be shared.





Comment: Doctoral students of PhD- Floriculture and Landscape Architecture Programme are extremely happy with nearly all the facilities provided by the University. Though, Corporate Placement has some scope for improvement.

6.4.7.2. What action the University has taken to address the issues raised in the feedback?

Action taken

The feedback reports were shared with concerned sections of the university. Students responded very positively with regards to majority of the facilities provided by the university. However, with respect to timely publication of results and corporate placement, there are ample scopes of improvement. Considering this feedback, the university has taken administrative actions for publication of results within stipulated period as reflected in the circulars of the concerned authorities. As corporate placement, to a great extent, is beyond the purview of the university itself, the Placement Cell continuously in touch with the potential employers to utilize the vacancies in favour of BCKV.

Impact

We are expecting very positive impacts in near future on these issues as some steps have already been taken in recent times as mentioned above.



6.4.8. Student intake and attrition in the programme for last five years:

Academic Year	Sanctioned strength	Actual intake	Attrition (%)
2016-17	3	3	66.67
2017-18	3	3	33.33
2018-19	4	4	0
2019-20	5	5	0
2020-21	6	6	0

Comment: The attrition in the year 2016-17 and 2017-18 is due to getting job in the nationalized bank and landscapist in central govt., respectively, during the doctoral studies.

6.4.9. Information Communication Technology Application in Curricula Delivery:

The systematic use of ICT tools in classroom instruction makes the teaching learning process more effective and highly interactive. Generally, in the pre-pandemic condition the use of ICT was limited to classroom lecture through power point presentation using LCD projector. The use of ICT tools became more dominant as the pandemic situation started. The University has to run the teaching and learning process completely in distance mode *via* electronic networks. The ICT tools used for the curriculum delivery for different theory and practical classes at regular basis are Google meet, Zoom and Microsoft Team. E-mail, Whatsapp etc. has been used for delivering lecture notes to the students.

I, the **Dean, Prof. Pallab Datta**, hereby certify that the information contained in the Section 6.4.1 to 6.4.9 are furnished as per the records available in the college, and degree awarding university.

Pallab Datta

Place: Mohanpur

Date: 02-11-2021

DEAN
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(Signature of Dean of the Faculty with Date & Seal)

