

B. Name of the Programme: M. Sc. (Hort) Plantation, Spices, Medicinal and Aromatic Crops

6.4.1. Brief History of the Programme:

Master's degree programme of the Department of Plantation, Spices, Medicinal and Aromatic Crops (erstwhile Department of Spices and Plantation Crops) was initiated in 1996 to cater the degree in M. Sc. (Horticulture) in Plantation, Spices, Medicinal and Aromatic Crops. This Department was established in the Faculty of Horticulture by State Government to strengthen the academic transactions including research works and extension activities in Horticulture as a whole and Plantation, Spices, Medicinal and Aromatic Crops in particular.

Objectives:

- To equip post graduate students with strong theoretical base and research acumen in different aspects of Plantation, Spices, Medicinal and Aromatic Crops.
- To equip the students with knowledge for modern technology production, protection and improvement of Plantation, Spices, Medicinal and Aromatic Crops.
- To equip the students with knowledge and skill for effective transfer of technology for farming and production of Plantation, Spices, Medicinal and Aromatic Crops.
- To upscale the perception and skill on research methodology on different important aspects of Plantation, Spices, Medicinal and Aromatic Crops.

Accomplishment:

- Thirty nine (39) students have successfully completed M. Sc. (Hort.) programme during last 5 years in the Department of Plantation, Spices, Medicinal and Aromatic Crops
- The pass out 10 (ten) PG students from the Dept., through clearing ICAR NET and SRF, have joined premier institutions/ Universities
- 16 (sixteen) PG students succeeded to earn prestigious fellowships at National Fellowship for Higher Education (NFHE) of SC and ST students, Maulana Azad National Fellowship for Minority Students, National Fellowship for students of OBC and Swami Vivekananda Single Girl Child Scholarship for Research.
- 9 (nine) students of PG programme have been placed in jobs like Assistant Director of Horticulture, Govt. of West Bengal, Food Safety Officer, Govt. of West Bengal, Agriculture Officer in Nationalized Bank etc.



- About 50 (fifty) research papers have been published from M. Sc. thesis in different scientific journals.

6.4.2. Faculty Strength

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

*Faculties from AICRP

6.4.3. Technical and Supporting staff

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

6.4.4. Classrooms and Laboratories:

6.4.4.1. Number of Classroom: 02

Room	Purpose (Class/Practical)	Area (square metre)
1.	Class room (PG & PhD)	26.4
2.	Class room (PG & PhD)	19.4

6.4.4.2. Number of Functional Laboratories: 02

Sl No.	Name of Laboratory/ Facility	Area (Square-metre)	No. of Supporting Staff Attached
1.	PG. laboratory - I	104.3	
2.	PG. laboratory - II	96.4	

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.	PG . laboratory -I & II	Moisture analyzer, UV- VIS Specto photometer, Microscope, Muffle Furnace, Flame photometer, Nitrogen estimation apparatus, Tensiometer, Steam bath set, Soil thermometer, Precision balance, Spice grinder, Digital pH meter, Digital slide calipers, Centrifuge, Oleoresin Estimation set, Water distillation set



6.4.4.3. Cont..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.	PG . laboratory -1& II	Leaf area meter, Clevenger Apparatus, Turmeric Polisher, Hair Hygrometer, Digital Lux meter, Digital, Hygrothermometer, Hot plate, Heating mantle, Magnetic stirrer, Soxlet Apprartus
2.	Farm facility	Permanent bed and field for growing different spice, plantation , medicinal and aromatic crops, Propagation chamber, Germplasm blocks of different crops, Hybridization blocks, Well arranged Research fields with irrigation and other facilities

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 work 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 M Sc: 01 batch,

6.4.4.6. Number of Practical Batches for the Degree Programme For M Sc: 01 batch

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

The requisite practical classes for the particular course are commonly scheduled and taken appropriately. The students are also satisfied in this academic curriculum.

6.4.6. Supervision of students in PG Programmes:

6.4.6.1. Total Number of Students pursuing the M. Sc. degree at present: 16

6.4.6.2. Total Number of faculties supervising the Students: 6

Status	2016-17	2017-18	2018-19	2019-20	2020-21
No. of Students pursuing the degree	14	15	15	16	16
No. of eligible Teachers	7	7	6	6	6



Eligible Criteria to become a PG Advisor:

(Clause 4.08 of the BCKV Regulations regarding Masters' Degree Programme, 2019)

4.08 Advisement:

A Chairperson shall be assigned to each student by the Head of the department in consultation with the Board of Studies (BOS) from amongst the internal member of BOS in which the student is registered. The chairperson must be associated with regular post graduate teaching program of the concerned department. The students should be allotted to the Chairpersons following the norm as a laid down below.

- (i) Head of the department, in consultation with the Board of Studies, will prepare a list of eligible teachers according to seniority, keeping continuity of the previous years.
- (ii) Student will not be allotted to the teachers having less than (2) two years of regular service in the Viswavidyalaya at the time of allotment of the student.
- (iii) Student will not be allotted to a teacher when he /she is on lien.

* Documentary evidence attached as annexure at the end

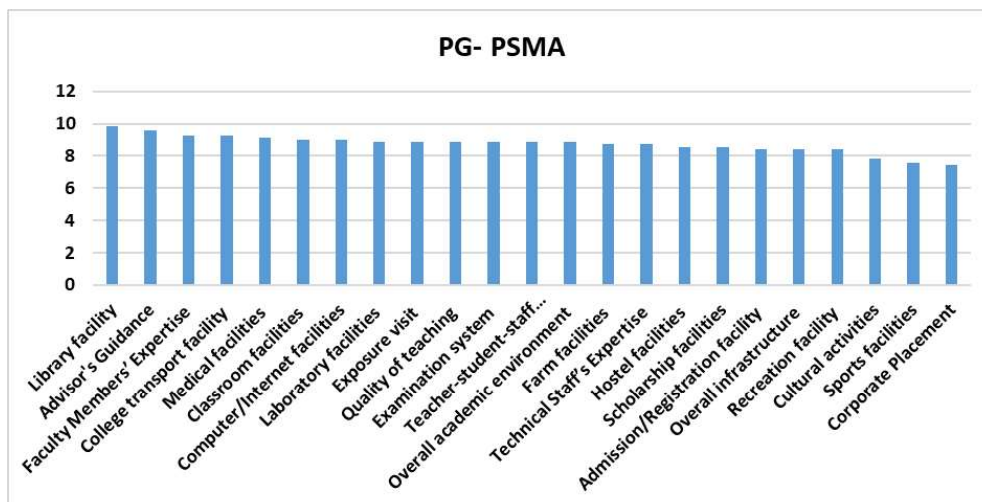
6.4.7. Feedback of stakeholders:

6.4.7.1. Mention the feedback mechanism.

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: Masters' degree students of Plantation Crops, Spices, Medicinal and Aromatic Plants are happy with nearly all the facilities provided by the University. Though, facilities like Corporate Placement and Sports Facilities have 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	8	8	0
2017-18	8	8	12.5*
2018-19	8	8	0
2019-20	8	8	0
2020-21	8	8	0

*One student left to join in bank

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, 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.

Place: Mohanpur

Date: 02-11-2021

Pallab Datta

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

