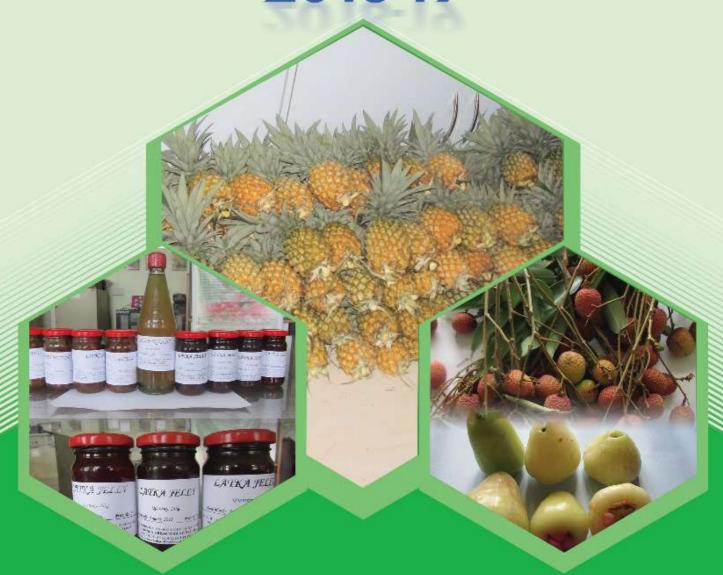


ANNUAL REPORT

2018-19



POMOLOGY AND POSTHARVEST TECHNOLOGY FACULTY OF HORTICULTURE

Uttar Banga Karishi Viswavidyalaya

Pundibari: Cooch Behar

ANNUAL REPORT 2018-2019



Pomology and Post-Harvest Technology Uttar Banga Krishi Viswavidyalaya Pundibari: Cooch Behar



PREFACE

I'm pleased to share the Annual Report for the year 2018-19 from the Pomology and Postharvest Technology Department. This report tells you about what we did in teaching, research, and other work. In West Bengal, especially in the northern part, we have great land and weather for growing subtropical fruits. But most fruits don't grow well because of problems like not enough nutrients, pests, diseases, and bad farming practices.

To fix these problems, our department is working hard. We want to help more farmers grow subtropical fruits by teaching them better ways to farm, using the right nutrients, trying new types of fruits, and making sure fruits stay fresh after they're picked.

Growing fruits and taking care of them after picking can give farmers more money for the land they have. Our department can help with food, jobs, and reducing poverty. In our seventeen years journey, we've become really good at teaching, researching, and helping farmers.

Making our department a great place for learning, research, and sharing new ideas is very important. It can be tough because we don't have all the resources we need right now, but I believe we can overcome these challenges together and make our department even better.

I want to thank our teachers, staffs and the students for working hard and making a difference. Their dedication and commitment are truly appreciated as we work together to achieve our goals.

(PRODYUT KR PAUL)

A. TEACHING AND NON-TEACHING STAFFS OF THE DEPARTMENT

1) TEACHING STAFF

a) Cadre Posts: Professor – 1, Associate Professor –2, Assistant Professor –3

b) Present Strength:

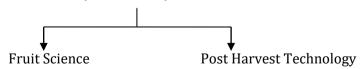
Sl. No.	Name	Designation	Date of joining	Contact number	Email ID	Remark
1.	Prof. P. K. Paul	Professor	10.12.2001	8016425515	prodyut24	-
		& Head			@yahoo.com	
2.	Dr. N. Bhowmick	Associate	27.11.2007	9433438982	nileshbhowmick	-
		Professor			@gmail.com	
3.	Dr. M. P. Devi	Assistant	07.07.2014	7063102366	preema.horti	-
		Professor			@ gmail.com	
		(Stage-2)				
4.	Dr. A.	Assistant	20.10.2014	9432842864	aditi.chatterjee1	-
	Chakraborty	Professor			0@gmail.com	
		(Stage-2)				
Guest T	'eacher					
1.	Mr. A. Chhetri	Guest	10.09.2018	7085857595	chhetriash@gma	-
		Lecturer			il.com	
		(Fruit				
		Science)				
2.	Ms. K. Dey	Guest	04.09.2018	9735800535	koyeldey02@gm	Resigned
		Lecturer	(Left on		ail.com	
		(Post Harvest	26.11.2018)			
		Technology)				

2) NON-TEACHING STAFF

Sl.	Name	Designation	Date of	Contact	Remark
No.			joining	number	
1.	Mr. Nitish Ch. Saha	Technical	03.7.1989	7319555043	Continuing
		Assistant, Grade-I			
2.	Mr. Ananda Sarkar	Laboratory	01.09.2008	9064088820	Continuing
		Attendant			

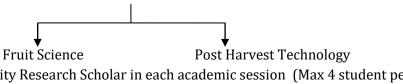
3) STUDENT STRENGTH

- a) B.Sc. (Hort.) Hons:-30 in each Academic Session under the Faculty of Horticulture
- b) M. Sc. Students: M. Sc. (Horticulture) in



• 2 per teacher/ each academic session

c) Ph.D. Students:



2 University Research Scholar in each academic session (Max 4 student per eligible teacher at a time)

4) DEPARTMENTAL ACTIVITIES

(i) Teaching Programme

(a) Courses Offered in UG level

Sl. No.	Course No.	Course Title	Credit	Course Leader	Associated teachers
1.	PPT 101	Fundamentals of Horticulture	1+1	Dr. N. Bhowmick	Mr.Ashok Chhetri Dr. S. Sikder (Dept. of VSC)
2.	PPT 102	Plant Propagation & Nursery Management	1+1	Dr. N. Bhowmick	Mr.Ashok Chhetri Ms. Koyel Dey
3.	PPT 151	Orchard & Estate Management	1+1	Dr. N. Bhowmick	Dr. A. Chakraborty
4.	PPT 152	Dry Land Horticulture	1+1	Dr. A. Chakraborty	Mr.Ashok Chhetri
5.	PPT 201	Temperate Fruit Crops	1+1	Dr. N. Bhowmick	Dr. S. Gurung
6.	PPT 251	Tropical & Sub-Tropical Fruits	3+1	Dr. N. Bhowmick	Dr. A. Chakraborty Mr.Ashok Chhetri
7.	PPT 252	Production Technology of Fruit & Plantation Crops	1+1	Dr. A. Chakraborty	Mr.Ashok Chhetri Dept. of PCP
8.	PPT 301	Post Harvest Management of Horticultural Crops	2+1	Dr. M. Preema Devi	Dr. P. K. Paul Prof. R.K.Pal Ms. Koyel Dey
9.	PPT 301	Post Harvest Management of Horticultural Crops (4th Deans' Committee)	2+1	Dr. P. K. Paul	Ms. Koyel Dey
10.	PPT 302	Post Harvest Management & Value Addition of Fruits & Vegetables (4th Deans' Committee)	1+1	Dr. P. K. Paul	Dr. M. Preema Devi Ms. Koyel Dey
11.	PPT 303	Fundamentals of Food Technology	1+1	Dr. P. K. Paul	Ms. Koyel Dey
12.	PPT 351	Breeding of fruits and Plantation Crops	2+1	Dr. A. Chakraborty	Dr. N. Bhowmick Dept. of PCP
13.	PPT 352	Principles of Food Science and Nutrition	2+0	Dr. P. K. Paul	Dr. M. Preema Devi
14.	PPT 353	Post Harvest Management & Value Addition of Fruits & Vegetables	1+1	Dr. P. K. Paul	Dr. M. Preema Devi
15.	ELC 352	Food Safety and Standards	2+1	Dr. M. Preema Devi	Dr. H. S. Konar (F/Tech) Dr. Ayon Roy (Plant Pathology)
16.	PCP 351	Processing of Horticultural Crops (Offered from Plantation Crops & Processing)	1+2	Teachers of PCP	Dr. M. Preema Devi
17.	PCP 151	Growth and development of Horticultural Crops	1+1	Teachers of PCP	Dr. A Chakraborty

		(Offered from Plantation Crops & Processing)			
18	3.	Principles of Horticultural Crops and Plant protection	1+1	Dr. J. C. Jana (Dean, F/Hort)	Dr. M. Preema Devi
		(Offered from Faculty of Technology)		(2 00.1., 1 / 11010)	

(b) Courses Offered for M.Sc.

Sl. No.	Course No	Course Title	Credit	Course Leader	Associated teachers
1.	FSC 501	Tropical & Subtropical Fruit Production I	2+1	Dr. N. Bhowmick	Mr.Ashok Chhetri
2.	FSC 502	Tropical & Subtropical Fruit Production II	2+1	Dr. A. Chakraborty	Mr.Ashok Chhetri
3.	FSC 503	Temperate Fruit Production Technology	2+1	Dr. N. Bhowmick	Prof. S. K. Mitra (Adjunct Professor) Mr.Ashok Chhetri Ms. Koyel Dey
4.	FSC 504	Breeding of Fruit Crops	2+1	Dr. A. Chakraborty	Dr. N. Bhowmick Mr.Ashok Chhetri
5.	FSC 505	Propagation and Nursery management of Fruit Crops	2+1	Dr. N. Bhowmick	Mr.Ashok Chhetri Ms. Koyel Dey
6.	FSC 506	Growth & Development of Fruit Crops	2+1	Dr. A. Chakraborty	Mr.Ashok Chhetri Ms. Koyel Dey
7.	FSC 507	Canopy Management in Fruit Crops	1+1	Dr. N. Bhowmick	Prof. S. K. Mitra (Adjunct Professor) Mr.Ashok Chhetri Ms. Koyel Dey
8.	PHT 501	Post Harvest Physiology and Biochemistry of Fruits and Vegetables	2+1	Dr. P. K. Paul	Dr. M. P. Devi, Ms. Koyel Dey
9.	PHT 502	Post Harvest Management of Fruits & Vegetables	2+1	Dr. M. Preema Devi	Dr. P. K. Paul Ms. Koyel Dey Prof. R. K. Pal (Adjunct Professor)
10.	PHT 503	Principles and methods of Fruits and vegetable processing	2+1	Dr. P. K. Paul	Dr. M. Preema Devi
11.	PHT 504	Storage Systems & Operations	2+0	Dr. P. K. Paul	Dr. M. Preema Devi
12.	PHT 505	Packaging of fresh and processed Horticultural Produce.	1+1	Dr. P. K. Paul	Dr. M. Preema Devi Ms. Koyel Dey Prof. R. K. Pal (Adjunct Professor)

13.	PHT 506	Post Harvest Technology of ornamentals	1+1	Dr. M. Preema Devi	Dr. A. M. Khan (FLA)
14.	PHT 507	Processing of Plantation, Spices, Medicinal and Aromatic Plants	1+1	Dr. M. Preema Devi	Dr. P. K. Paul Ms. Koyel Dey Dr. S. Das (PSMA)
15.	PHT 508	Spoilage of fruits, vegetables and processed products	2+1	Dr. P. K. Paul	Dr. M. Preema Devi Ms. Koyel Dey
16.	FSC 591	Masters' Seminar-I	1+0	Dr. A. Chakraborty (Seminar Leader)	***
17.	PHT 591	Masters' Seminar-I	1+0	Dr. A. Chakraborty (Seminar Leader)	***
18.	FSC 592	Masters' Seminar-II	0	Dr. A. Chakraborty (Seminar Leader)	***
19.	PHT 592	Masters' Seminar-II	0	Dr. A. Chakraborty (Seminar Leader)	***

(c) Courses offered for Ph.D.

Sl. No.	Course No	Course Title	Credit	Course Leader	Associated teachers
1.	FSC 601	Breeding of Fruit Crops	2+1	Dr. N. Bhowmick	Dr. A. Chakraborty
2.	FSC 602	Advances in production of	2+1	Dr. N. Bhowmick	Dr. A. Chakraborty
		fruit crops - I			
3.	FSC 605	Commercial Fruit Nursery	2+1	Dr. N. Bhowmick	Dr. A. Chakraborty
4.	PHT 601	Advances in Postharvest	2+1	Dr. M. Preema	Dr. P. K. Paul
		handling of perishables		Devi	
5.	PHT 602	Advances in Postharvest physiology	2+0	Dr. P. K. Paul	Dr. M. P. Devi
6.	PHT 603	Advances in Food Preservation	2+0	Dr. P. K. Paul	Dr. M. P. Devi
7.	PHT 691	Doctoral Seminar-I	1+0	Dr. A.	***
				Chakraborty	
				(Seminar Leader)	
8.	FSC 691	Doctoral Seminar-I	1+0	Dr. A.	***
				Chakraborty	
				(Seminar Leader)	
9.	FSC 692	92 Doctoral Seminar-II		Dr. A.	***
				Chakraborty	
				(Seminar Leader)	

^{*} i) Prof. S. K. Mitra, Chairman, Workgroup Jackfruit & Other Moraceae, International Society for Horticulture Sciences & Ex-Dean, Post Graduate Studies, BCKV as Adjunct Professor

ii) Dr. R. K. Pal, Ex-Director, ICAR-National Research Centre for Pomegranate, Sholapur, Maharashtra & Ex-Head, Division of Post-Harvest Technology, ICAR-Indian Agricultural Research Institute, New Delhi as Adjunct Professor

(ii) Students of the Department: a) <u>Master Degree</u>

Sl.	Name of the	Semester	Thesis title	Advisory committee
No.	students			
1.	Bijayanka Baidya (H-2016-1-M)	-	Effect of Pre-harvest spray on shelf life quality of Strawberry.	Dr. A. Chakraborty Dr. M. Preema Devi Mrs. Shrilekha Das
2.	Jannila Praveena (H-2016-6-M)	Completed	_	Dr. Aditi Chakraborty (Chairman) Dr. Nilesh Bhowmick Dr. A. N. Dey Dr. Arup Sarkar
3.	Sri Surya Venkatadevi Prasanna (H-2016-10- M)	Completed	paclobutrazol on flowering and fruiting characteristics of Pineapple (<i>Ananas comosus</i> L. Merr) cv. Mauritius.	Dr. A. Chakraborty
4.	Deep Ghosh (H-2018-006- M)	1 st and 2 nd Semester	Study in plant morphology, floral biology, fruiting behaviour of ber	Dr. A. Chakraborty (Chairman) Dr. Nilesh Bhowmick, Dr. A.N. Dey Dr. P.S. Medda Dr. Moumita Chakraborty
5.	Deepak S. Kore (H-2018-007- M)	1 st and 2 nd Semester	Effect of mutagen on seed germination and seedling growth behavior of acid <i>Citrus aurantifolia</i>	Dr. A. Chakraborty (Chairman) Dr. Nilesh Bhowmick Prof. P. K. Paul Dr. Avijit Kundu Dr. A. Ghosh
6.	R. Sumasree (H-2018-017- M)	1st and 2nd Semester	Effect of polyamines on postharvest quality of banana	Prof. P. K. Paul (Chairman) Dr. M. Preema Devi Dr. Nilesh Bhowmick Dr. Ranjit Chaterjee Dr. Sankalpa Ojha
7.	Saidiksha Subba (H-2018-020- M)	1 st and 2 nd Semester	Flowering, Fruiting characteristics and response of girdling on yield attributes of Litchi	(Chairman)
8.	Jinnamu Aresh (H-2017-02- M)	3 rd and 4 th Semester	Effect of microbial isolates in removing ethylene for delayed ripening.	Prof. P. K. Paul (Chairman) Prof. A. Choudhury Dr. M. Preema Devi Dr. Surajit Khalko
9.	Binita Baidya (H-2017-04- M)	3 rd and 4 th Semester	Quality assessment of dried chrysanthemum flower as affected by pre drying and storage condition.	Prof. P. K. Paul Dr. A. Mondal Khan Dr. S. Khalko
10.	Nim Tshering Sherpa (H-2017-08- M)	3 rd and 4 th Semester	Standardization of seed germination and stem cutting of <i>Baccaurea sapida</i> Muell. Arg.	Dr. A. Chakraborty (Chairman) Dr. Nilesh Bhowmick Dr. A. N. Dey Dr. Nandita Sahana

11.	Novin Chamling (H-2017-09- M)	3 rd and 4 th Semester	media on field performance of	Dr. Nilesh Bhowmick (Chairman) Dr. A. Chakraborty Dr. Soumen Maitra Dr. Hossain Ali Mondal Dr. Surajit Khalko
12.	Santosh Kumar G.M. (H-2017-14- M)	3 rd and 4 th Semester	growth, flowering and fruiting	Dr. Nilesh Bhowmick (Chairman) Dr. A. Chakraborty Dr. A. N. Dey Dr. Puspendu Dutta

b) <u>Doctoral Degree</u>

Sl.	Name of the	Semester	Thesis title	Advisory committee
No.	students			
1.	Bidyarani Devi	1st and 2nd	Studies on genetic variability and	Dr. Nilesh Bhowmick
	Senjam	Semester	standardization of propagation	(Chairman)
	(H-2018-04-D)		techniques in pummelo [Citrus	Dr. Prodyut Kr. Paul
			grandis (L). Osbeck.]	Dr. Sarad Gurung
				Dr. Hossain Ali Mondal
	_			Dr. Amarendra Nath Dey
2.	Polu	1st and 2nd	Impact of Rejuvenation, shoot	Dr.Nilesh Bhowmick
	Parameshwar	Semester	pruning on vegetative, flowering,	(Chairman)
	(H-2018-12-D)		fruiting characteristics and pest	Dr.Proydut Kr. Paul
			incidence of Mango	Prof. Partha Sarathi
				Medda
				Dr.Shyamul Kr Sahoo
				Dr. Surajit Khalko
3.	Md Shamsher	1st and 2nd	Process optimization for	Dr. Mutum Preema Devi
	Ahmed	Semester	preparation and evaluation of	(Chairman)
	(H-2018-11-D)		debittered juice from pummel	Dr.Proydut Kr.Paul
			fruit	Dr. Nilesh Bhowmick
				Dr. Manoj Kanti Debnath
				Dr. Nandita Sahana
4.	Srujana Eda	1st and 2nd	Evaluation of ambient	Dr.Proydut Kr.Paul
	(H-2018-17-D)	Semester	temperature dryer for	(Chairman)
			dehydration of perishables	Dr. Mutum Preema Devi
				Dr. Shrilekha Das
				Dr. Somnath Mandal
				Dr. Nandita Sahana
5.	Kondle Ravi	2 nd and 3 rd	Effect of pruning and nutrient	Dr. Sarad Gurung
	(H-2017-04-D)	Semester	management on the performance	(Chairman)
	of acid lime (Citrus aurantifolia		Dr. Nilesh Bhowmick	
			Swingle) cv. Balaji under Sub-	Prof. P. K. Paul
	2.1	4.0 1 5.0	Himalaya Terai Region of WB	Dr. D. Mukhopadyay
6.	Sukanya Misra	4 th and 5 th	Effect of plant population and	Dr. Sarad Gurung
	(H-2016-05-D)	Semester	mulching on strawberry	(Chairman)
			(Fragaria ananassa) cultivation	Prof. P. K. Paul
			under Terai Region of West	Dr. A. Chakraborty
			Bengal.	Dr. P. S. Medda
				Dr. M. K. Debnath

(iii) Research Programme

(a) Departmental Research programme:

Sl. No.	Title	Associated Teacher	Status
			0 1 1
1.	Pre-harvest spray on shelf life quality of Strawberry	Prof. P. K. Paul	Completed
2.	Role of pollen on fruit characteristics of guava genotype.	Dr. Aditi Chakraborty	Completed
3.	Effect of planting density and paclobutrazol on flowering and fruiting characteristics of Pineapple	Dr. Nilesh Bhowmick	Completed
4.	Study in plant morphology, floral biology, fruiting behavior of ber	Dr. A. Chakraborty Dr. Nilesh Bhowmick	Continuing
5.	Effect of mutagen on seed germination and seedling growth behavior of acid <i>Citrus aurantifolia</i>	Dr. A. Chakraborty Dr. Nilesh Bhowmick	Continuing
6.	Effect of polyamines on postharvest quality of banana	Prof. P. K. Paul Dr. M. Preema Devi	Continuing
7.	Flowering, Fruiting characteristics of litchi	Dr. Nilesh Bhowmick Dr. A. Chakraborty	Continuing
8.	Response of shoot pruning on growth, flowering and fruiting characteristics of guava	Dr. Nilesh Bhowmick Dr. A. Chakraborty	Continuing
9.	Standardization of stem cutting of Burmese grape	Dr. A. Chakraborty	Continuing
10.	Effect of hardening media on performance of banana	Dr. Nilesh Bhowmick	Continuing
11.	Efficacy of microbial isolates in removing ethylene	Prof. P. K. Paul	Continuing
12.	Quality assessment of dried chrysanthemum flower as affected by pre drying and storage condition.	Dr. M. Preema Devi Prof. P. K. Paul	Continuing
13.	Effect of plant population and mulching on strawberry cultivation under Terai Region of West Bengal.	J	Continuing
14.	Effect of pruning and nutrient management on the performance of acid lime	Dr. S. Gurung (RRS, Hill Zone)	Continuing
15.	Studies on mopho-genetic variability of pummelo	Dr. Nilesh Bhowmick	Continuing
16.	Rejuvenation, and shoot pruning of mango	Dr.Nilesh Bhowmick	Continuing
17.	Development of debittered juice from pummelo fruit	Dr. M. Preema Devi	Continuing
18.	Evaluation of ambient temperature dryer for dehydration of perishables	Prof. P. K. Paul	Continuing

(b) Project Handled

Sl.	Project Title	Sponsoring Authority	Associate
No.			Teacher
1.	Quality Control Laboratory	MoFPI, GOI	Prof. P. K. Paul-
			Principal
			Investigator (PI)
2.	Survey, Documentation, Collection and	Institutional Project	Dr. N. Bhowmick-
	Maintenance of Jackfruit (Artocarpus	(UBKV)	PI
	heterophyllus Lam.) Germplasm Grown	(01.4.16-31.3.19) Rs. 2,54	
	Under the Northern Parts of West Bengal	lacs	
3.	Performance of Intercropping for	Dept. of Science &	Dr. N. Bhowmick-

Profitability in Juvenile	Orchard &	Technology and PI	
Standardization of	Vegetative	Biotechnology, GoWB	
Propagation Methods of	Jackfruit for	[Memo no. 163 (Sanc)	
Quality Planting Materials		/ST/P/S&T/1 G-8/2018	
		dt 14.02.2019]	

(c) Research findings

Strawberry (from Thesis)

An experiment was conducted to evaluate the effect of pre harvests spray on shelf life of fruit and to study the shelf life and quality of the fruit as influenced by pre-harvest spray. CaCl2 spray showed the best result with respect to minimum loss in physiological weight, maximum total soluble solid, reducing sugar and total sugar. Fruits from T_5 also found to retain its texture after 3 days of storage and the fruit were less acidity.

Guava (from Thesis)

One Red Fleshed pollen donor plant and five white fleshed genotypes as female parent were pre-selected for guava improvement programme by making three types of crosses viz., restricted crossing, restricted selfing and open pollination. Result revealed that peak time of anthesis varied with the cultivars and majority of flowers opened during 5.45-6.30 am. Viability of the pollen was observed to be 99.5%. It was concluded that the fruit setting percentage is highest in case of open pollination. In case of self-pollination and cross pollination the fruit setting percentage was less as compare to open pollination. Among the five guava genotypes L-49 × Red Fleshed thrive best results. The effects of cross-pollination on physiochemical characters, such as total soluble solids (TSS), vitamin C and total sugar were statistically significant. Red Fleshed genotype as polliniser in a mixed guava orchard may be utilized for better polliniser and donor of different improved horticultural traits.

Pineapple

Findings from Research paper

Paclobutrazol concentrations ranging from 100ppm to 300ppm were used for comparing the yield, fruit quality and flowering characteristics of pineapple. Highest yield including crown (42.73t/ha) was recorded in Paclobutrazol @ 100 ppm at 8 months after planting +9 months after planting compared with the control (36.78t/ha). Paclobutrazol application also resulted in increase of crop availability period by 41days with 100 ppm at 8 months after planting +9 months after planting. Paclobutrazol @100ppm applied 8 months after planting showed lowest duration (55.32 days) for red heart initiation and for 50 per cent flowering (67.26 days)

To standardise spacing for pineapple cv. Mauritius in Terai zone of West Bengal, the present experiment was conducted at the Instructional Farm of Pomology and Postharvest Technology, UBKV, Pundibari. Results revealed that different spacing (ranging from 64000 plants/ha to 29,630 plants/ha) had significant effect for yield and quality. Highest fruit yield with crown (52.59t/ha) was observed in the treatment with higher spacing of 64,000 plants/ha and highest fruit weight with crown (1290g) was observed in the treatment with lower spacing of 29,630 plants/ha. But to compromise with the spacing and fruit size with aim for better intercultural operations recommended spacing for

pineapple cv Mauritius for Terai region of West Bengal may be in between the highest and lowest density i.e., 45714 plants/ha where both the fruit yield and fruit size were satisfactory.

(iv) Developmental Programme:

Sl. No.	Title	Associated Teacher	Status
1.	Collection and maintenance of different	Dr. N. Bhowmick	Completed
	strawberry cultivar	Dr. A. Chakraborty	
2.	Establishment of litchi orchard var Bedana	Dr. N. Bhowmick	Completed
		Dr. M. Preema Devi	
3.	Maintenance of Fruit Nursery for production	Dr. N. Bhowmick	Continuing
	of quality planting materials		
4.	Development and maintenance of different	Dr. N. Bhowmick	Continuing
	pineapple varietal block		
5.	Maintenance of Assam Lemon block and	Dr. N. Bhowmick	Continuing
	propagation practices for raising of saplings		
6.	Maintenance of Litchi Varietal block and	Dr. N. Bhowmick	Continuing
	propagation practices for raising of saplings		
7.	Collection of different banana germplasm	Dr. N. Bhowmick	Continuing
	and establishment of banana block		
8.	Maintenance of guava varietal block and	Dr. N. Bhowmick	Continuing
	propagation practices for raising of saplings		
9.	Maintenance of mango mother block	Dr. N. Bhowmick	Continuing
10.	Maintenance of mango varietal block	Dr. N. Bhowmick	Continuing
		Dr. A. Chakraborty	
11.	Maintenance of mother block of litchi and	Dr. N. Bhowmick	Continuing
	guava for raising of saplings	Dr. A. Chakraborty	
12.	Maintenance of citrus rootstock, water apple	Dr. M. Preema Devi	Continuing
	orchard		
13.	Development and maintenance of jackfruit	Dr. N. Bhowmick	Completed
	genotypes block	Dr. A. Chakraborty	
		Dr. M. Preema Devi	

5) PUBLICATIONS

A. Book Published

i. Bhowmick, N., Bauri, F. K., Mani, A., Thakur., P. K., Sharma, S. (2018). Advances in Post Harvest Management, Processing and Value Addition of Horticultural Crops Part 1: Fruits and Flower Crops, Today & Tomorrow's Printers and Publishers, New Delhi-110002, ISBN-81-7019-618-6, pp.1-455 (Edited book)

B. Research Paper

- Dey, K., Ghosh, A., Bauri, F. K., Bhowmick, N., Dey, A. N., Mishra, D. K. and Das., B. C. (2018). Barbados cherry: Agriculture, breeding, utilization and role in nutritional and economical security-A review. *Agricultural Reviews*, 39(2):144-150, Print ISSN:0253-1496 / Online ISSN:0976-0539, NAAS Rating-4.37
- ii) Prasanna, V. S. S. V., Bhowmick, N., Chakraborty, A., Debnath, M.K. (2018). Effect of paclobutrazol on flowering characteristics and leaf chlorophyll content of pineapple

[Ananas comosus (L.) Merr.] cv. Mauritius. International Journal of Current Microbiology and Applied Sciences, 7(11):2125-2129, NAAS Rating-5.38

- iii) Prasanna, V. S. S. V., Bhowmick, N., Debnath, M.K., Chakraborty, A. (2018). Effect of planting densities on vegetative growth characteristics and flowering percentage in pineapple [*Ananas comosus* (L.) Merr.] cv. Mauritius. *International Journal of Current Microbiology and Applied Sciences*, 7(12):162-168, NAAS Rating-5.38
- iv) Prasanna, V. S. S. V., Bhowmick, N. (2018). Effect of planting densities on fruiting characteristics of Pineapple [*Ananas comosus* (L.) Merr.] cv. Mauritius. International Journal of Chemical Studies, 6(6): 1773-1776, ISSN: 2349-8528, NAAS Rating-5.31
- v) Prasanna, V. S. S. V., Bhowmick, N., Chakraborty, A., Debnath, M.K. (2018). Effect of paclobutrazol on fruiting characteristics of pineapple [*Ananas comosus* (L.) Merr.] cv. Mauritius. International Journal of Chemical Studies, **6**(6): 1013-1017, ISSN: 2349-8528, [NAAS Rating-5.31]

6) EXTENSION PROGRAMME

(a) Radio Talk

Sl.	Topic	Resource Person
No.		
1.	New dimension on pineapple cultivation (Anaras chase notun dik) Live-Phone in on All India Radio, Siliguri, broadcasted on 19.04.2018	Dr. Nilesh Bhowmick
2.	Mixed farming-Interview in Grame Ganje (recorded on 17.12.18 and b'cast on 28.12.18)	Dr. Aditi Chakraborty
3.	Establishment of Fruit Orchards ("Unnata Paddhatite Phal bagantairai") (Ref No. nil dt 28.01.2019) Date of recording: 13.02.2019, Date of broadcasting: 18.02.2019	Dr. Nilesh Bhowmick

(b) Farmers Advisory Services Regarding Agricultural Tips

Sl.	Name and address of the farmers	Problem	Date	Associated
No.		addressed		Teacher
1.	Sanjib Dey Sarkar, Mara Nadir Kuthi,	Guava	03.10.2018	Dr. N. Bhowmick
	Vill+PO- Debir Hat, Cooch Behar-	cultivation		
	736165, Mob-6294874266 (Ref No.			
	UBKV/ Hort/ PPHT/235 dt			
	12.02.2019)			
2.	Sushil Sarkar, Pundibari Hoglabari, PS-	Shoot borer of	28.08.2018	Dr. N. Bhowmick
	Pundibari, Dist-Cooch Behar,	Assam Lemon		
	9083714435 (Ref No.			
	UBKV/Hort/PPHT/235 dt 12.02.2019)			

3.	Azizul Haque Pramanik, Vill-Uttar	Guava fruit fly	13.06.2018	Dr. N. Bhowmick
	Kalarayer Kuthi, PO-East Shakunibala,			
	Cooch Behar (Ref No.			
	UBKV/Hort/PPHT/235 dt 12.02.2019)			
4.	Bibhas Chandra Ghosh, Vill+PO-	Mango fruit fly	19.06.2018	Dr. N. Bhowmick
	Kamarkundu, Dist-Hooghly, Mob-	and jackfruit rot		
	8420800678 (Ref No.			
	UBKV/Hort/PPHT/235 dt 12.02.2019)			
5.	Fazlur Rahman Shah, Vill+PO-	Banana nutrient	20.06.2018	Dr. N. Bhowmick
	Patlakhawa, Vill-Khagribari, Dist-	management		
	Cooch Behar-736165, Mob-	and bunchy top		
	9932307203 (Ref No.	disease		
	UBKV/Hort/PPHT/235 dt 12.02.2019)			
6.	Nazrul Islam, Vill-Panishala East, PO-		27.06.2018	Dr. N. Bhowmick
	Chhat boro chouki, Natabari GP, Dist-	-		
	Cooch Behar, Mob-9593361106 (Ref	of acid lime		
	No. UBKV/Hort/PPHT/235 dt			
	12.02.2019)			
7.	Uttam Ghosh, Mob:6297566516	Strawberry and	02.01.2019	Dr. Aditi
		banana		Chakraborty
8.	Sushen Talukdar, Sajerpar, Kathal bari,	Strawberry and	29.01.2019	Dr. Aditi
	Cooch Behar,Mob-8343970663, dt.	Papaya		Chakraborty
	29.01.19			

7) OTHER ACTIVITIES:

(a) Members of different committee, Assignment, Additional responsibility

Sl.	Committee/Assignment	Teacher associated
No.		
1.	Member, Faculty Council, Faculty of Horticulture	Dr. P. K. Paul
	(Ref No. 1126/UBKV/Est(F.CHort.)/31 dt 20.11.2015)	Dr. N. Bhowmick
2.	Provost, M. N. Saha Hall	Dr. N. Bhowmick
	(Ref No. 2129/UBKV/Est. (Trans.)/T/NT-40 dt 30.3.17)	
3.	Convenor, Faculty Curriculum Committee (Ref No. 2161 dt	Dr. N. Bhowmick
	18.01.2018)	
4.	Member, Accreditation Committee of the University (Convener,	Dr. N. Bhowmick
	College of Horticulture, Information of Individual Colleges) [vide	
	Ref No. 656/UBKV/Est. (Acre.)-170 dt 01.09,2016]	
5.	Member, Special Study & Coaching, Pundibari Campus Sub-Cell	Dr. N. Bhowmick
	(Ref No. 388/D-F/Ag-UBKV dt 28.10.16)	
6.	Member, Editorial & Publishing Committee, Farmers' Bulletin	Dr. N. Bhowmick
	(UttorerKrishikatha) (Vide Notification No. DEE/UBKV/13-14/58	
	dt 19.9.2013, Ref No. DEE/UBKV/18-19/24 dt 23.04.2018))	
7.	Member, Central Level Committee for Presentation of Teacher –	Dr. N. Bhowmick
	Seminar, Symposium, Training programme (Ref No. 183-D-F/Ag-	
	UBKV)	
8.	Member, Counseling of M.Sc. and Ph.D. admission 2018 (27 &	Dr. N. Bhowmick
	29.08.2018)[36/UBKV/Admission dt 24.08.2018]	
	27.00.2010)[30/ ODKV / AUIIIISSIOII UL 24.00.2010]	

9.	Member, Management group of teacher for RAWE programme for College of Agriculture, UBKV, Majhian (Ref No. KVK/COB/17-18/504 dt 15.02.2018)	Dr. N. Bhowmick
10.	Member, Anti Ragging Squad [Ref No. 583/UBKV/Est.(Anti.rag-167) dt 26.7.2018]	Dr. M. Preema Devi & Dr. A. Chakraborty
11.	Member, Central Admission Committee for UG admission committee (Ref No. 16/UBKV Admission dt 13.08.2018)	Dr. M. Preema Devi & Dr. A. Chakraborty
12.	Member, Press and Publicity committee, 6th Convocation of the University (Ref No. 818/UBKV/Est. (Conv120) dt 10.09.2018)	Dr. M. Preema Devi
13.	Member of RHWE and ELP of student ready programme (Ref. No. UBKV/HORT/274, dt. 23.07.2018	Dr. A. Chakraborty
14.	Member, Verification of Documents/Forms (Central UG Admission	Dr. Nilesh Bhowmick
	Committee) Ref No. 16/UBKV Admission dt 13.08.2018	Dr. A. Chakraborty
15.	Member, Mentor Team of Rural Horticultural Works Experience programme (UBKV/Hort/1096/2016-17 dt 09.01.2017), Experiential Learning / Hands on Training Programme of B.Sc. (Hort.) Hons. Programme	Dr. Nilesh Bhowmick

(b) Organizing Seminar/Symposium/Conference/Workshop

Sl.	Subject	Period	Venue	Organizer	Responsibility	Resource
No.						Person
1.	Pineapple Day-	24.07.2018	UBKV	UBKV	Dr. P.K. Paul	Joint Secretary
	2018 cum			&		
	Farmers-Scientist			Deputy	Dr. N. Bhowmick	Joint
	Interaction			Director of		Convener
	Programme			Horticulture, Dept. of FPI &	Dr. A. Chakraborty	Joint Convener
	(Ref. No. UBKV/Hort/263			Horticulture, GoWB	Dr. M. P. Devi	Treasurer
	dt. 19 th July 2018)				Mr. N. C. Saha	Member, Exhibition
					Mr. A. Sarkar	Committee

(c)Act as Resource person in Training/Meeting/Workshop/Interaction

Sl. No.	Subject	Period	Venue	Organizer	Resource Person
1.	Fruit/Plantation Based Mixed Cultivation on "Livelihood Development of SHGs through Horticulture Activities"	17.08.201 8	DM Office, Cooch Behar	District Horticulture Office, GoWB (Memo No. 213, dt. 13.08.2018)	Dr. N. Bhowmick
2.	Farmers' Training programme on Banana Cultivation (R-E-F-L- Linkage prog for Farmer of ATMA 2018- 19	08.02.201 9	Falakata, Alipurduar	Assistant Director of Agriculture, Falakata, Dept. of Agriculture, GoWB (Ref.No.24/ATMA. dt 4.02. 2019)	Dr. N. Bhowmick

3.	Skill Training on "Nursery Worker" at Cooch Behar KVK. Lecture on Component of mother plant block and technique of fruit plant propagation	12.02.201 9 to 12.03.201 9	COB, KVK, UBKV, Pundibari W. B.	COB, KVK, UBKV, Pundibari W. B. (Ref No. KVK/COB/18- 19/646 (iv) dt 08.02.2019)	Dr. N. Bhowmick
4.	Skill Training on "Nursery Worker" at Cooch Behar KVK. Lecture on Tools and equipment's used in nursery	12.02.201 9 to 12.03.201 9		COB, KVK, UBKV, Pundibari W. B.	Dr. Mutum Preema Devi
5.	Skill Training on "Nursery Worker" at Cooch Behar KVK. Lecture on Characters of good planting materials	12.02.201 9 to 12.03.201 9		COB, KVK, UBKV, Pundibari W. B.	Dr. Aditi Chakraborty
6.	Judge for Exhibition of Agricultural Produce in the District Krishi Mela,2019	7- 8.02.2019	UBKV	Cooch Behar Krishi Vigyan Kendra, UBKV (Ref No. KVK/COB/2018- 19/630 dt 04.02.2019)	Dr. N. Bhowmick

(d) Participation in Summer/Winter School/Training:

Sl. No.	Subject	Period	Venue	Organizer	Associated Teacher
1.	Comparative Genomics of Horticultural Plant genetics Resources: Methods and Applications	01.08.2018 to 21.08.2018	University of Horticultural Science, College of Horticulture, Bangalore	ICAR	Dr. A. Chakraborty
2.	Contemporary methods of conservation and management of plant genetic resources in sub-tropical fruit crops with special reference to grapes, pomegranate and citrus	08.01.2019 to 28.01.2019	University of Horticultural Sciences, Bagalkot, Karnataka	ICAR	Dr. Nilesh Bhowmick

8) OTHER ACADEMIC ACTIVITIES:

a) Paper Setter/Moderator/Evaluation of Answer Script

Sl. No.	Name of the Course	University	Associate Teacher
1.	External Paper Setter for AHP-104:	Bihar Agricultural	Dr. Nilesh Bhowmick
	Growth & Development of Horticultural	University, Sabour	
	Crops [Ref No.324/Exam. Cell/BAU,	Bhagalpur	
	Sabour dt 13.04.2018]		

	E . I D . C (EC 122 E . 1	C II CII :: I:	D Mil I DI I I
2.	External Paper Setter (FS-123: Tropical	0	Dr. Nilesh Bhowmick
	& Sub-tropical Fruits) for 1st year (2nd		
	1	Orissa University of	
	18.04.2018]	Agriculture & Technology,	
	F	Bhubaneswar	D 111 1 D1 1 1
3.	External Paper Setter for FSC 121: Plant		Dr. Nilesh Bhowmick
	Propagation & Nursery Management		
	(Ref No. COH/SKM/5/Hon-8/17/146 dt	Agricultural University	
	28.04.2018)	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	
4.	External Paper Setter for HORT 155:		Dr. Nilesh Bhowmick
	<u> </u>	Viswavidyalaya, Mohanpur,	
	<u> </u>	Nadia, WB	
	31.05.2018)	D. II. Ol. I. W. I.	D 111 1 D1 1 1
5.	External Paper Setter for HORT 251: Dry		Dr. Nilesh Bhowmick
		Viswavidyalaya, Mohanpur,	
	31.05.2018)	Nadia, WB	
6.	External Paper Setter for HOR-512:	The state of the s	Dr. Nilesh Bhowmick
	Tropical and Dry Land Fruit Production	Santiniketan, West Bengal	
	for M.Sc. (Ag.) in Horticulture (Ref No.		
	VB/EXAM/REG/09/PG/HORT/Sem-		
	I/8695/2018 dt 08.09.2018)	D:1 A : 1: 1	D Mil I DI I I I
7.	External Paper Setter for AHT-302:	S .	Dr. Nilesh Bhowmick
	Production Technology of Fruit Crops for	_	
	End Term Examination of B.Sc. (Ag.) [Ref	0 1	
	No. 05/Exam. Cell/BAU, Sabour dt		
	31.08.2018]	C . 1 A . 1 . 1	D Mil I DI I I I
8.	External Paper Setter for FSC 213:	<u> </u>	Dr. Nilesh Bhowmick
	Orchard and Estate Management for 3rd		
	semester, B.Sc. (Hons.) Horticulture (Ref	_	
	No. CAU/DI/260/18-19/904(i) dt		
	14.11.2018)	Control Assistant	De Milesle Dlessessiele
9.	External Paper Setter for FSC 211:	S	Dr. Nilesh Bhowmick
	Tropical and Subtropical Fruits for 3rd		
	semester, B.Sc. (Hons.) Horticulture (Ref No. CAU/DI/260/18-19/903(vi) dt	<u> </u>	
10.	14.11.2018) Question paper setting for PhD	Orrisa University of	Dr. M, P. Devi
10.	Question paper setting for PhD comprehensive written examination for		טו. ועו, ד. שפעו
	the course FSC-505 (Ref No. 147; dt.		
	23.02.2019)	Orrisa	
11.	,	Orrisa University of	Dr. M, P. Devi
11.	comprehensive written examination for	Agriculture and	D1. 141, 1. DCVI
	the course FSC 610 (Ref No. 147; dt.	_	
	23.02.2019)	Orrisa	
17	Question paper setting for the course	I.	Dr. M, P. Devi
12.	HORT 353 (Ref No.F/Hort/70(A); dt.		טו. ועו, ד. שכעו
	31.05.2018	Mohanpur,	
	[31.03.2010]	Nadia, W.B.	
13.	Question paper setting for the course		Dr. Aditi Chakraborty
13.		University, Ranipool,	ים. העונו Gliaki dbui ty
		Sikkim	
		SIKKIIII	
1	28.04.2018)		

14.	Paper setter for HORT-312 (Hi-Tech	Orissa University of Dr. M, P. Devi
	Horticulture)	Agriculture and
		Technology, Bhubaneswar
		(Ref No. 1464/COE dt
		14.11.2018)

b) Thesis Evaluation:

Sl.	Name of Student	Topic	University	Ref. No.	Associated
No					Teacher
1.	Ms. Nima Wangmu	Quality assessment of	SASRD, NU	Hort/1-	Dr. M. P. Devi
	Thongchi	litchi cv. Shahi as		28/2013-246,	
	(Roll No. M-	influenced by post		dated	
	936/16)	harvest treatment.		16.10.2018	
2.	Watijungla	Studies of banana	School of	Ref No. Hort/1-	Dr. N.
	Aochenlar (Roll	genotypes based on	Agricultural	28/2013-235	Bhowmick
	No. M-982/16)	plant morphological	Sciences &	dt 05.10.2018	
		and physic-chemical	Rural		
		properties of fruits	Developmen		
			t, Nagaland		
			University		

c) Member of the Advisory Committee:

Sl. No.	Name of Student	Course	Department /Discipline	Thesis Title	Associated Teacher
1.	Suman Natta	Ph.D.	Biochemistry		Dr. N.
	(A-2017-028- D)			nutritional components of jackfruit (Artocarpus heterophyllus) for potential applications as functional food	Bhowmick
	Fouzia Bari	Ph.D.	Agricultural	Screening of different banana cultivars	Prof N.
2.	(A-2017-		Entomology	against banana scare beetle.	Bhowmick
	005-D)				
	Samima	Ph.D.	Plantation	Impact of arecanut based cropping	Dr. N.
	Sultana		Crops and	system on growth, yield of different	Bhowmick
3.	(H-2018-		Processing	subsidiary crops and carbon	
	014-D)			sequestration in north-eastern foot	
				hills of West Bengal	
	Sandeep	Ph.D.	Plantation	Studies on the performance of four	Dr. N.
4.	Chetri		Crops and	varieties of arecanut (Areca catechu)	Bhowmick
1.	(H-2018-		Processing	under organic multi-storied cropping	
	015-D)			system	
	Eggadi	PhD.	Vegetable	Standardization of Integrated Nutrient	Dr. M. P. Devi
5.	Ramesh		Science	Management and Application of Bio-	
] 3.	(H-2018-			Stimulants for Growth, Yield and Post	
	008-D)			Harvest Quality of Tomato	
	Kheyali	Ph.D.	Vegetable	Studies on growth, yield and shelf-life	Prof. P. K. Paul
6.	Ghosh		Science	of okra (Abelmoschus esculentus (L.)	D W D D .
О.	(H-2018-			Moench) as influenced by date of	Dr. M. P. Devi
	010-D)			sowing, spacing and packages	

	Abigail Rai	M.Sc		Vegetative propagation on Elaeocarpus	Dr. Nilesh
7.	(H-2017-01-		Forestry	floribendus and Elaeocarpus granitus	Bhowmick
	M)				
	Marina	MSc.	Floriculture	Standardization of dehydration	Dr. M. P. Devi
8.	Narjinary		and	method and surface coating for	
0.	(H-2018-13-		Landscape	improving quality and shelf-life of rose	
	M)		Architecture	dry flowers	
	Kamal	M.Sc.	Forestry	Effect of growing media and nutrients	Dr. N.
9.	Ghising			on production of teak (Tectona grandis	Bhowmick
9.	(H-2018-11-			L.) seedlings through stump	
	M)				
	Pema Kiden	M.Sc		Studies on different pre-sowing	Dr. A.
10.	Sherpa		Fonostra	treatments and nutrient management	Chakraborty
10.	(H-2018-		Forestry	for growth behavior of Champa	
	015-M)			(<i>Michelia champaca</i> Linn.) seedlings	

d) Reviewer of Journal

Sl.No.	Topic	Name of journal and	Associated Teacher
		year	
1.	Mortality of air-layered plants of	Indian Journal of	Dr. Nilesh Bhowmick
	litchi (Litchi chinensis) in nursery	Agricultural	
	and histopathology of affected roots	Sciences(MS 76582	
	in Bihar, India	and review submitted	
		on 11.02.2019	

e) Internal Question Setter

Sl.	Paper	Associated Teacher
No.		
1.	Dr.P.K.Paul & Dr. M. Preema Devi	PHT 501, PHT 502, PHT 503, PHT 504, PHT
		505, PHT 506, PHT 507, PHT 509, PHT 601,
		PHT 602, PHT 603
2.	Dr. Aditi Chakraborty	FSC 502, FSC 504, FSC506, 601, 602, 605

f) Evaluator of answer scripts

Sl No	Paper	Associated Teacher
1.	PPT 252 (Ref No. 715/EXAM/UBKV dt 28.09.2018)	Dr. Nilesh Bhowmick
2.	PPT 101 (Ref No. 707/EXAM/UBKV dt 26.09.2018)	Do
3.	PPT 252 (Ref No. 513/EXAM/UBKV dt 08.08.2018)	Do
4.	PPT 252 (Ref No. 520/EXAM/UBKV dt 02.08.2018)	Do
5.	PPT 252 (Ref No. 678/EXAM/UBKV dt 18.09.2018)	Do
6.	PPT 301(Post Harvest Management of Horticultural	Dr. M. Preema Devi
	Crops) [Ref. No. 1205/EXAM/UBKV, dated 12.02.2019	

9) ADDITIONAL RESPONSIBILITIES

a) Dr. N. Bhowmick

- i) Editorial Board Member, International Journal of Minor Fruits, Medicinal and Aromatic Plants (ISSN:2424-6921)
 - ii) Acted as Observer, National Eligibility cum Entrance Test (NEET-UG-2018) conducted by CBSE held on 06.05.2018 at Siliguri Centre. [F.1(7)/CBSE/NEET/REF_NO-N184086/2018 dt. 28.04.2018]
- ii) Acted as Observer, UGC-NET, 2018 (July) at Siliguri Centre, Darjeeling, West Bengal (NO. F-18/UGC/NET/MISC/J2018/N182696 dt. 06.06.2018)
- iii) Performed invigilation Duty for M.Sc. & Ph.D. Entrance Test-2018 on 13.08.2018 & 16.08.2018 (Ref. No. 120/UBKV/PG, dt. 07.08.2018)
- iv)Performed counselling duty for M.Sc. & Ph.D. admission (Ref. No. 36/UBKV/Admission, dt. 24/08/2018)
- v) Performed invigilation duty on 21.05.2018 and 23.05.2018 for Mid-Term (Ref No. UBKV/HORT/75 dt 04.05.2018) 09.7.2018 (Ref No. 352/EXAM/UBKV dt 05.07.2018), 29.11.2018 for Mid-Term, 13.12.2018 for Mid-Term (Ref No. 472 dt 01.11.2018), 12.02.2019 (Ref No. 1046/EXAM/UBKV dt 09.01.2019)
- vi) Member Accommodation and Transport committee UBKV Annual Athletic Meet-2019, Ref.No.UBKV/DSW-222(3)/2018.Dated:20.02.2019.

j) Dr. Mutum Preema Devi

- a) Preparation of Question bank for MSc and PhD Entrance Test, 2018-19
- b) Invigilation duty for UG Mid term examination on 01.06.2018 (Ref No. UBKV/HORT/75 dt 04.05.2018).
- c) Performed invigilation duty on 13.07.2018 and 20.07.2018 (Ref No. 352/EXAM/UBKV dt 05.07.2018)
- d) Invigilation duty for UG End term exam [Ref No. 1046/EXAM/UBKV, dated 09.01.19]
- e) Mentor of UG students [Ref No. UBKV/Hort/529, dated 19.12.2018]
- f) Invigilation duty for MSc and PhD entrance exam [Ref No. 126/ UBKV/PG, dated 10.08.18]
- g) Charge hand over of provost of Teesta Hall from 16.03.2019 to 24.03.2019
 - h) Invigilation duty for PhD end examination (Ref. No. UBKV/HORT/PPHT/22, dt. 16.01.2019

k) Dr. Aditi Chakraborty

- a) Preparation of Question bank for MSc and PhD Entrance Test, 2018-19
- Invigilation duty for UG Mid-term examination on 07.06.2018 for Mid-Term (Ref No. UBKV/HORT/75 dt 04.05.2018) 19.11.2018and 06.12.2018 (Ref No. 472 dt 01.11.2018)
- c) Performed invigilation duty on 03.08.2018 and 06.08.2018 (Ref No 352/EXAM/UBKV dt 05.07.2018)
- d) Invigilation duty for UG End term exam [Ref No. 1046/EXAM/UBKV, dated 09.01.19]
- e) Mentor of UG students [Ref No. UBKV/Hort/529, dated 19.12.2018]

- f) Invigilation duty for MSc and PhD entrance exam [Ref No. 126/ UBKV/PG, dated 10.08.18]
- g) Invigilation duty for PhD end examination (Ref. No. UBKV/HORT/PPHT/22, dt. 16.01.2019

10) LIFE MEMBERSHIP OF PROFESSIONAL SOCIETIES/JOURNALS

Sl. No.	Name of the Journal/Society	Address	Teacher
1.	Horticulture	B.C.K.V., Mohanpur, Nadia, WB	Dr. N. Bhowmick
2.	(The Horticultural Journal)	DCVV Mohammur	Du N Dhorrmidz
Ζ.	Crop and Weed Science Society (Journal of Crop and Weed)	B.C.K.V., Mohanpur, Nadia, WB	Dr. N. Bhowmick Dr. A. Chakraborty
3.	Horticulture Society of India (Indian Journal of Horticulture)	ICAR-I.A.R.I., New Delhi	Dr. N. Bhowmick
4.	Society Promotion of Horticulture (Journal of Horticultural Science)	ICAR-I.I.H.R., Bengaluru	Dr. N. Bhowmick
5.	Indian Society for Plant Physiology (Indian Journal of Plant Physiology)	ICAR-I.A.R.I., New Delhi	Dr. N. Bhowmick
6.	Forum of Scientists, Engineers and Technologists (Thought)	Kolkata	Dr. N. Bhowmick
7.	Fruit Science Society of Bangladesh	Bangladesh Agricultural University, Mymensingh, Bangladesh	Dr. N. Bhowmick
8.	Cooch Behar Association for Cultivation of Agricultural Sciences (Journal of Agricultural Technology)	U.B.K.V.	Dr. P.K.Paul Dr.N. Bhowmick Dr. M. Preema Devi Dr. A. Chakraborty
9.	Association of Food Scientist and Technologist	CFTRI, Mysore	Dr. M. Preema Devi Dr. P.K.Paul

11) ANNUAL MEMBERSHIP OF PROFESSIONAL SOCIETIES/JOURNALS

Sl.	Name of the Journal/Society	Address	Teacher
No.			
1.	Indian Horticulture	ICAR, New Delhi	Dr. N. Bhowmick
	Crop and Weed Science Society (Journal of Crop and Weed)	B.C.K.V., Mohanpur, Nadia, WB	Dr. M. Preema Devi

PHOTO GALLERY

Research Work Performed by Students of the Department



Guiding School Students in an Exposure Visit to Departmental Farm



Glimpses of Pineapple Exhibition in Pineapple Day, 2018









Adjunct Professor, Prof. S. K. Mitra delivering lecture to the PG students



Teachers, staffs and PG students of the Department of Pomology and Post-Harvest Technology







Participation of 21 days' training programme at University of Horticultural Sciences, Bagalkot, Karnataka by Dr. Nilesh Bhowmick