

ANNUAL REPORT

2017-18



FACULTY OF AGRICULTURE
UTTAR BANGA KRISHI VISWAVIDYALAYA
Pundibari, Cooch Behar, W.B.

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Uttar Banga Krishi Viswavidyalaya
Pundibari, Cooch Behar



FOREWORD

Established in the year 1979, the North Bengal Campus (NB Campus) of Bidhan Chandra Krishi Viswavidyalaya (BCKV) as a constituent College of Agriculture under the Faculty of Agriculture of BCKV, the College of Agriculture of NB Campus which later emerged as the Faculty of Agriculture under UBKV in 2001 is going to complete its 40 years of journey. During this long journey, this institution has produced a good number of successful graduates/ professionals who have put on record their marks of excellence in different fields and spread the reputation of the College/ Faculty and Varsity as well across the length and breadth of the country.

Teaching programmes at UG level (both at main campus and College of Agriculture, Majhian) and PG level (in all the 10 departments for M.Sc. and Ph.D. programmes) and academic calendars have been satisfactorily conducted and strictly adhered to. The performance of the students at different all India based examinations in 2017 and 2018 is satisfactory. For improving the practical knowledge/ expertise of the students, the laboratories, instructional farms and Central Instrumentation Centre have been fully supported. A few practical manuals have been developed while others are underway. New syllabuses for B.Sc. (Hons.) Agriculture as per ICAR Vth Deans' Committee Recommendations have been finalised and three batches of students are currently pursuing their studies since 2016-17 while the last batch of students under IVth Deans' Committee are at their final year who will complete their degree in 2019. Student READY programme has been satisfactorily implemented since 2017 and a guideline has been developed for this programme. Besides students' normal academic activities, special coaching classes have been introduced for the backward class students. Three ELPs have been satisfactorily running and the profits generated have been shared amongst the students. For encouraging the students toward entrepreneurship development, workshops / seminar-cum-interactive sessions have been conducted. In order to instil the values and ethics in the minds of the students, a few motivational sessions have been conducted. Under RAWE programme, the students have been placed at different KVKs of the university and CADC of the State Govt. for understanding the real life and agriculture situations in villages. With a view to widening the horizon of knowledge of the students and faculties, a few student development programmes have been organized, whereunder a number of special lecture-cum-interactive sessions has been conducted by eminent scientists (of the country and abroad) specialised in various fields. A green initiative in the name of "One Student One Tree" has been initiated with the involvement of first year students since 2017. The students have enthusiastically participated in the Annual Sports, Agri-Unifest and different Students' Union-organised cultural and games programmes.

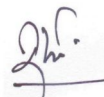
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This is first time that entire UG admission and counselling have been conducted through on-line system and our aim is to follow this in PG admission where except for the counselling, all other processes are being done through on-line. Monitoring of academic activities (attendance etc.) and leaves of employees etc. are being done through on-line system satisfactory. In order to attract more bright students in Agriculture, all the classrooms and laboratories are being modernised and augmented. Due to gradual improvement in academic performance of the students, more and more students from different states of the country have selected this College and the varsity as their destination for pursuing their PG programmes over the last few years and in some of the departments a true diverse environment is persisting, which is very much appreciated.

The faculties of the departments have been devoting their service sincerely and besides teaching programmes both at main campus and College of Agriculture, Majhian, they have been involving themselves in research and extension programmes and a good number was allowed to participate in different faculty development programmes and act as expert members in different organisations in various capacities. The faculties are successfully handling a number of research projects funded by different national and international funding agencies. With active and volunteered support of the teachers, short courses on Mushroom and Spawn Production and Processing have been successfully running since January 2017 and a few other courses are in the offing. The active participation of a good number of teachers made the KPS Training (Six months' duration organised by the Department of Agriculture, Govt. of West Bengal) successful in 2017.

It is my great pleasure to publish the Annual Report of the Faculty for the year 2017-18, wherein we have tried to incorporate all the information, achievements and future thrust areas. I acknowledge the efforts and services rendered by the all Heads of the Departments, I/C, Central Instrumentation Centre, Asst. Director of Farms (Agriculture), faculties and non-teachings staff members of various departments who have done a commendable job to accomplish this Annual Report successfully. I am grateful to our Hon'ble Vice Chancellor for his persistent inspiration, leadership and direction. I express my sincere gratitude and thanks to Dean, PG Studies, Director of Research, Director of Extension Education, Registrar, Deputy Registrar (Examination) and In-charge, Comptroller's Department for their constant encouragement and support. I am also thankful to ICAR for proving financial assistance to reach our goal.

Date: 29.10.2018
Place: Pundibari, Coochbehar



(T.K. Hath)

Dean
Faculty of Agriculture

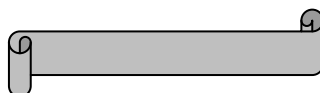
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1. INTRODUCTION

1.1. Breif history

Agricultural Education in Northern part of the State was started way back in 1979 when the North Bengal Campus (NB Campus) of Bidhan Chandra Krishi Viswavidyalaya (BCKV) was established at the GSTC (Gram Sevak Training Centre) situated at the premises of the office of the Principal Agricultural Officer (Govt. of West Bengal) in Coochbehar town. The NB Campus started its functioning as a constituent College of Agriculture under the Faculty of Agriculture of BCKV for imparting B.Sc. (Ag.) Hons. course for 30 students. The Campus was later shifted to its present location at Pundibari (Coochbehar Block- II) where the headquarters of the Uttar Banga Krishi Viswavidyalay is situated and the said Campus possessed huge infrastructural facilities viz., classrooms, laboratories, library, teachers' room-cum-laboratories, office establishments, and instructional farm, hostels and staff quarters for teachers and staff spreading over in a farmland area of 330 acres. The number of intake was gradually increased to 40. Post Graduate studies *i.e.* M.Sc. (Ag.) programme was introduced from 1999-2000 academic session in five Departments viz. Agronomy, Agricultural Entomology, Genetics and Plant Breeding, Plant Pathology and Soil Science and Agricultural Chemistry with intake capacity of 5 students/ department; although the teachers of the Campus were guiding Ph. D. students since mid 90's.

Later the State Govt. up-graded the NB Campus into a full-fledged Agricultural University by the name of Uttar Banga Krishi Viswavidyalay in 2001 with two Faculties namely the Faculty of Agriculture and Faculty of Horticulture as two separate teaching establishments. The Faculty of Agriculture has currently the following 10 Departments and apart from UG programme in Agriculture, it also offers M.Sc. and Ph.D. programme of studies in the following areas.

1.2. Name of the Departments

- | | |
|----------------------------|--|
| 1. Agronomy | 6. Biochemistry |
| 2. Agricultural Economics | 7. Genetics and Plant Breeding |
| 3. Agricultural Extension | 8. Plant Pathology |
| 4. Agricultural Statistics | 9. Soil Science and Agricultural Chemistry |
| 5. Agricultural Entomology | 10. Seed Science and Technology |

It is noteworthy that in the year 2014 the State Govt. established a new College of Agriculture as the Extended Campus of the University at Majhian, Dakshin Dinajpur (12 Km away from Balurghat town) with an intake capacity of 30 students for B.Sc. (Ag.) Hons. course.

The number of students during the last 17 years has increased to a great extent and the same is summarized below:

Sl. No.	Course	2001	2014	2017-18
1.	B. Sc. (Ag.) Hons.	164 [@41 / year]	264 [@66 / year]	264 [66 /year]
2.	M. Sc. (Ag.)	45 [@ 5 /Department]*	45 [@5/Department]*	60* [@5/Department]
3.	Ph. D.	18 [@ 2 /Department]*	30 [@2/Department]*	60* [@2/Department]
Total		227	339	384

*Variation in the number of students at M.Sc. and Ph. D. level is due to number of available candidates applied for admission.

1.3. Objectives

- To provide an education system that is contemporary and meets the changing needs of the agricultural sector.
- To make agricultural education responsive to the needs of the farming sector
- To widen the knowledge base by providing vacationnal training in agricultural sciences to the rural youth from all strata of the farming community
- To start courses of current and future relevance to build a strong academic foundation for the scientific and technical manpower generated by the University.

2.0 TEACHING ACTIVITIES

2.1. Under Graduate Courses

The University follows the recommendations of ICAR Vth Deans Committee syllabus in UG studies. Semester wise distribution of courses at the UG Degree Programme [B.Sc. (Hons.) Agriculture] of Faculty of Agriculture, UBKV w. e. f. 2016-2017 academic session as per the ICAR-V Deans' Committee Recommendations is mentioned below in tabular form:

Semester-I			
Sl. No.	Course Name	Credit Hr.	Course Code
1.	Fundamentals of Horticulture	2 (1+1)	PPT 101
2.	Fundamentals of Genetics	3(2+1)	GPB 101
3.	Fundamentals of Soil Science-I	3(2+1)	SSC 101
4.	Introduction to Forestry	2 (1+1)	FOR 101
5.	Communication Skills and Personality Development	2 (1+1)	EXT 102
6.	Fundamentals of Agronomy-I	2(1+1)	AGR 101
7.	¥ Fundamentals of Agricultural Economics	2(2+0)	ECO 101
8.	Elementary Mathematics*	2(2+0)*	AST 102
9.	Rural Sociology & Educational Psychology	2 (2+0)	EXT 101
10.	Human Values & Ethics (non gradial)	1(1+0)**	EXT 103
11.	Physical Education/ NSS & Yoga Practices**	2 (0+2)**	EXT 104
12.	Comprehension and Communication Skill in English	2(1+1)	EXT 105
TOTAL		25(16+9)	

*R: Remedial course; **NC: Non-gradial courses, ¥ : This course was offered in 2nd Semester for 2016-17 academic session only

Semester-II			
Sl. No.	Course Name	Credit Hr.	Course Code
1.	Fundamentals of Plant Breeding	3(2+1)	GPB 151
2.	Introductory Agricultural Microbiology	2(1+1)	SSC 151
3.	Introductory Soil and Water Conservation Engineering	2(1+1)	AEN 151
4.	Fundamentals of Plant Pathology-I	3(2+1)	PPA 151
5.	Fundamentals of Entomology	4(3+1)	ENT 151
6.	Fundamentals of Agricultural Extension Education	3(2+1)	EXT 151
7.	Fundamentals of Plant Biochemistry	3(2+1)	BCH 151
8.	Fundamentals of Agronomy-II	2(1+1)	AGR 151
9.	Fundamentals of Crop Physiochology	2(1+1)	SST 151
Total		24(15+9)	

Semester-III

Sl. No.	Course Name	Credit Hr.	Course Code
1.	Crop Production Technology – I (<i>Rabi Crops-I</i>)	2 (1+1)	AGR 201
2.	Fundamentals of Plant Biotechnology	3 (2+1)	GPB 201
3.	Agricultural Finance and Cooperation	3 (2+1)	ECO 201
4.	Agri- Informatics and Computer Application	2(1+1)	AST 201
5.	Production Technology for Vegetables and Spices	2 (1+1)	VSC 203
6.	Environmental Studies and Disaster Management	3(2+1)	FOR 201
7.	Fundamentals of Statistical Methods	3(2+1)	AST 202
8.	Introductory Agro-meteorology & Climate Change	2(1+1)	AGR 202
9.	Fundamentals of Plant Pathology-II	1(1+0)	PPA 201
Total		21(13+8)	

Semester-IV

Sl. No.	Course Name	Credit Hr.	Course Code
1.	Crop Production Technology –II (<i>Kharif Crops-I</i>)	2(1+1)	AGR 251
2.	Production Technology for Ornamental Crops, MAP and Landscaping	2(1+1)	FAM 252
3.	Renewable Energy and Green Technology	2(1+1)	AEN 251
4.	Problematic Soils and their Management	3(2+1)	SSC 251
5.	Production Technology for Fruit and Plantation Crops	2(1+1)	PPT 252
6.	Principles of Seed Technology	3(2+1)	SST 251
7.	Farming System & Sustainable Agriculture	1(1+0)	AGR 252
8.	Agricultural Marketing Trade & Prices	3(2+1)	ECO 251
9.	Farm Machinery and Power	2 (1+1)	AEN 252
10.	Livestock and Poultry Management-I	2 (1+1)	AGR 253
11.	Elective Course	3(2+1)	
Total		25 (15+10)	

Semester-V

Sl. No.	Course Name	Credit Hr.	Course Code
1.	Livestock and Poultry Management-II	2 (1+1)	AGR 302
2.	Soil Fertility and Nutrient Management	3 (2+1)	SSC 301
3.	Pests of Crops and Stored Grain and their Management	3 (2+1)	ENT 301
4.	Diseases of Field and Horticultural Crops and their Management –I	3 (2+1)	PPA 301
5.	Crop Improvement-I (<i>Kharif Crops</i>)	2 (1+1)	GPB 301
6.	Entrepreneurship Development and Business Communication	2 (1+1)	EXT 301
7.	Geoinformatics and Nano-technology and Precision Farming	2 (1+1)	AGR 303
8.	Crop Production Technology-III (<i>Rabicrops - II</i>)	2(1+1)	AGR 301
9.	Intellectual Property Rights	1(1+0)	ECO 301
10.	Principles of Organic Farming	2(1+1)	AGR 304
11.	Elective Course	3(2+1)	
Total		25(15+10)	

Semester-VI

Sl. No.	Course Name	Credit Hr.	Course Code
1.	Rainfed Agriculture & Watershed Management	2 (1+1)	AGR 352
2.	Protected Cultivation and Secondary Agriculture	2 (1+1)	AEN 351
3.	Diseases of Field and Horticultural Crops and their Management-II	3 (2+1)	PPA 351
4.	Post-harvest Management and Value Addition of Fruits and Vegetables	2 (1+1)	PPT 353
5.	Management of Beneficial Insects	2 (1+1)	ENT 351
6.	Crop Improvement-II (<i>Rabi crops</i>)	2 (1+1)	GPB 351
7.	Crop Production Technology-IV (<i>Kharifcrops-II</i>)	2(1+1)	AGR 351
8.	Practical Crop Production – II (<i>Rabi crops</i>)	1(0+1)	AGR 352
9.	Farm Management, Production & Resource Economics	3 (2+1)	ECO 351
10.	Principles of Food Science and Nutrition	2(2+0)	PPT 352
11.	Principles of Integrated Pest and Disease Management	3(2+1)	PPA 352
12.	Elective Course	3(2+1)	
Total		27 (16+11)	

Semester- VII

Sl. No.	Course Name	Credit Hr.	Course Code
1.	Student READY Programme	20(0+20)	
Total		20(0+20)	

Semester-VIII

Sl. No.	Course Name	Credit Hr.	Course Code
1.	Student READY Programme	20(0+20)	
Total		20 (0+20)	
Grand Total		187(90+97)	

Distribution of courses in different Semesters:

Semester	Total Credits
1st semester	25(16+9)
2 nd Semester	24(15+9)
3 rd Semester	21(13+8)
4 th Semester	25(15+10)
5 th Semester	25(15+10)
6 th Semester	27(16+11)
7 th Semester	20 (0+20)
8 th Semester	20 (0+20)
Grand Total	187(90+97)

Elective Courses

Sl. No.	Course Name	Credit Hr.	Course Code
1.	Agrochemicals	3 (2+1)	ELC 251
2.	System Simulation and Agro- Advisory	3 (2+1)	ELC 252
3.	Agricultural Journalism	3 (2+1)	ELC 253
4.	Agri Business Management	3 (2+1)	ELC 301
5.	Biopesticides and Biofertilizers	3 (2+1)	ELC 302
6.	Micropropagation Technologies	3 (2+1)	ELC 303
7.	Commercial Plant Breeding	3 (2+1)	ELC 351
8.	Food Safety and Standards	3 (2+1)	ELC 352
9.	Weed Management	3 (2+1)	ELC 353

After 6th semester the student's READY programme under Vth Deans Committee will be implemented from the ensuing academic session. The Student READY programme is to be implemented in fourth year of under graduation. It consists of **Rural Awareness Works Experience (RAWE) and Agro-Industrial Attachment (AIA) during seventh semester and Experiential Learning Programme (ELP) during eighth semester.** The University has already started this programme for last two years following the guidelines of students READY programme.

However, in current academic session the fourth year students who are in last batch under IVth Deans committee pursuing various elective courses under various modules in seventh semester:

Module 1: Crop Production

Course No.	Course	Cr. Hrs	Associated Department
AGR 401	Seed Production Technology	3(1+2)	Agronomy (Lead deptt) Seed Science
AGR 402	Agrometeorology and Crop Modeling	2(1+1)	Agronomy (Lead deptt) SSAC & Ag. Statistics
AGR 403	Integrated Farming Systems	2(1+1)	Agronomy
AGR 404	Water Management	3(1+2)	Agronomy (Lead deptt) SSAC
AGR 405	Organic Farming	3(2+1)	Agronomy (Lead deptt) SSAC
SSC 401	Integrated Nutrient Management	3(2+1)	SSAC (Lead Deptt) Agronomy
SSC 402	Remote Sensing and Geographical Information System for NRM and Land Use Planning	3(1+2)	SSAC (Lead Deptt) Agronomy
SSC 403	Soil Management	3(2+1)	SSAC

Module 2: Crop Protection

Course No.	Title	Credit Hours	Associated Department
ENT-401	IPM (Pest Scouting)	3(2+1)	Agril. Entomology
ENT-402	Management of post harvest insect pests	2(1+1)	Agril. Entomology
ENT-403	Non insect pest and their management	3(2+1)	Agril. Entomology
ENT-405	Apiculture	2(1+1)	Agril. Entomology
ENT-404	Biocontrol agents and biopesticides	2(1+1)	Agril. Entomology
ENT-406	Pesticides and their management	3(2+1)	Agril. Entomology

Course No.	Title	Credit Hours	Associated Department
PPA 401	Mushroom Cultivation	2(1+1)	Plant Pathology
PPA 402	Epidemiology and Disease Assessment	2(1+1)	Plant Pathology
PPA 403	Bio-Control agents and their mass production	3(1+2)	Plant Pathology
PPA 404	Diagnosis and management of Plant Diseases	3(2+1)	Plant Pathology
PPA 405	Techniques in Plant Pathology	2(0+2)	Plant Pathology

Module 3: Social Science

Course No.	Title	Credit Hours	Associated Department
EXT 401	Agricultural Journalism	3(1+2)	Agril. Extension
EXT 402	Audio visual communication	3(1+2)	Agril. Extension
EXT 403	Multimedia technologies and cyber extension	3(1+2)	Agril. Extension(Lead Deptt)
ECO 401	Project Development , Appraisal & Monitoring	2(2+1)	Agril. Statistics Agril. Economics
ECO 402	International Trade	3(2+1)	Agril. Economics
ECO 403	Government Policies and Progame Related to Agriculture	2(2+0)	Agril. Economics
ECO 404	Farm Planning , Budgeting and Production Economics	3(2+1)	Agril. Economics
AST-401	Mathematics	2(2+0)	Agril. Statistics
AST-402	Simulation in Agriculture	2(1+1)	Agril. Statistics(Lead Deptt) SSAC and Agronomy
AST-403	Designing field experiments	3(2+1)	Agril. Statistics
AST-404	Sample Survey techniques in Agriculture	3(2+1)	Agril. Statistics
AST-405	Econometric Approach in Agriculture	2(1+1)	Agril. Statistics
AST-406	Regression Analysis	2(1+1)	Agril. Statistics
AST-407	Genetical Statistics	2(1+1)	Agril. Statistics
AST-408	Probability Distributions	3(2+1)	Agril. Statistics

2.1.1. Student –READY programme 2017-18

The term **READY** refers to “Rural and Entrepreneurship Awareness Development Yojana” and the programme was conceptualized to reorient graduates of Agriculture and allied subjects for ensuring and assuring employability and develop entrepreneurs for emerging knowledge intensive agriculture. It also envisages the introduction of the programme in all the Agricultural Universities as an essential prerequisite for the award of degree to ensure hands on experience and practical training. As per decision of ICAR and the appropriate authorities of the Viswavidyalaya this programme was initiated by the Faculty of Agriculture during 2016-17 academic year.

During the year 2017-18 this Student-READY programme was started on and from 08.02.2018 with four Central Level Coordinators namely Prof. A. Sarkar, Head, Agril. Economics, Dr. K.Pradhan, Head, Agril. Extension, Prof. P.K.Pal, Professor, Agril. Extension and Prof. T.N.Roy, Professor, Agril. Economics and three Local Level Coordinators namely Dr. P.K.Ganguly, Sr. Scientist and Head, DDKVK, Dr. D. Mondal, Sr. Scientist and Head, UDKVK and Dr. B.Roy, Sr. Scientist and Head, Coochbehar KVK. The components of this programme were Rural Agricultural Work Experience, In-Plant Training /Agro Industrial attachment and Experiential Learning. The duration of this programme was six months.

❖ **Component I: Rural Agricultural Work Experience**

The Rural Agricultural Work Experience (RAWE) helps the students primarily to understand the rural situations, status of agricultural technologies adopted by farmers, prioritize the farmers’ problems and to develop skills and attitude of working with farm families for overall development in rural areas.

Objectives:

- To provide an opportunity to the students to understand the rural setting in relation to agriculture and allied activities.
- To make the students familiar with socio-economic conditions of the farmers and their problems
- To impart diagnostic and remedial knowledge to the students relevant to real field situations through practical training.
- To develop communication skills in students using extension teaching methods in transfer of technology.
- To develop confidence and competence to solve agricultural problems.
- To acquaint students with on-going extension and rural development programmes.

Activities:

The following activities are conducted in relation to this programme

- 1. Orientation:** The orientation classes were conducted on and from 08.02.18 to 09.02.18. The students were oriented about the department wise activities to be conducted during their village stay under RAWE.



- 2. Placement of the students:** The students under Faculty of Agriculture were placed in three different stations namely CADK, Jateswar, Falakata, Alipurduar district, Dakshin Dinajpur Krishi Vigyan Kendra, Majhian, Dakshin Dinajpur and Uttar Dinajpur Krishi Vigyan Kendra, Uttar Dinajpur. The students of College of Agriculture, Majhian were placed in Coochbehar Krishi Vigyan Kendra, Coochbehar. The list of students in different stations is attached in Annexure-I. The village attachment under RAWE was started on 12.02.2018 and ended on 12.04.2018.

3. Dakhsin Dinajpur KVK:

Sl. No.	Name of Student	Registration No.	Sl. No.	Name of Student	Registration No.
1	Kingsuk Das	A-2014-21-B	1	NanditaMandal	A-2014-28-B
2	BijoyChanda	A-2014-11-B	2	TitliBiswas	A-2014-60-B
3	SouravChakraborty	A-2014-51-B	3	TulipaDey	A-2014-62-B
4	Rayanta Kr. Lala	A-2014-39-B	4	ArpitaSarkar	A-2014-08-B
5	AvirupGuha	A-2014-10-B	5	DeepanyetaGoswa mi	A-2014-15-B
6	Manas Barman	A-2014-24-B			
7	ShubhamayDey	A-2014-48-B			
8	SaikatRanjan Das	A-2014-44-B			
9	Md.AminurRaham an Ansari	A-2014-25-B			
10	Pritam Roy	A-2014-35-B			
11	ChandanSaha	A-2014-13-B			
12	MainulHasan	A-2014-23-B			
13	Md.SaheenAkhtar	A-2014-26-B			
14	TridipGhosh	A-2014-61-B			

Sl. No.	Name of Student	Registration No.	Sl. No.	Name of Student	Registration No.
15	SohelRahaman	A-2014-50-B			
16	Sourav Das	A-2014-52-B			
17	Rahul Saikh	A-2014-37-B			
18	Osman Ali	A-2014-31-B			
19	Surajitsarkar	A-2014-58-B			
20	SaikatChowdhury	A-2014-43-B			
21	SandeshRai	A-2014-46-B			
22	RupamBarua	A-2014-41-B			

West Bengal Comprehensive Area Development Corporation, Jateswar:

Sl. No.	Name of Student	Registration No.	Sl. No.	Name of Student	Registration No.
1	Jeet Roy	A-2014-20-B	1	PrithaKundu	A-2014-36-B
2	SouvikDey	A-2014-54-B	2	Paramita Das	A-2014-32-B
3	BiratRai	A-2014-17-B	3	Amitha Paul	A-2014-03-B
4	SubhojitRuidas	A-2014-56-B	4	Nithya.S	A-2014-29-B
5	Pousabh Das	A-2014-34-B	5	UrmiSaha	A-2014-63-B
6	SahebBhadra	A-2014-42-B	6	JasmeenKhandakar	A-2014-19-B
7	AchyutaBasak	A-2014-1-B	7	Swarnashree Barman	A-2014-69-B
8	SovanlalSahu	A-2014-55-B	8	SamruzzohaAfreen	A-2014-45-B
			9	AnwashaSmanta	A-2014-07-B
			10	MadhurimaBiswas	A-2014-22-B
			11	Alolika Bhattacharya	A-2014-2-B

Uttar Dinajpur KVK:

Sl. No.	Name of Student	Registration No.	Sl. No.	Name of Student	Registration No.
1	Sk.Samsuddin	A-2014-49-B	1	DebjaniMandal	A-2014-14-B
2	Kapil Deb Karjee	A-2014-21-B	2	Byshnavi Sunil	A-2014-64-B
			3	Yeti	A-2014-65-B
			4	PiyaliSarkar	A-2014-33-B
			5	Th.D.GraceChiru	A-2014-18-B
			6	OindrilaDebsarma	A-2014-30-B
			7	MoumitaKhatun	A-2014-27-B
			8	RekhaKhalko	A-2014-40-B
			9	AntaraMochary	A-2014-06-B
			10	AnshuPriya	A-2014-05-B

4. Core Activities conducted:

- During the village stay the students were conducted village survey to acquaint with the local situation, the entrepreneurial opportunities existing within the village, rural institutions, the cropping pattern and situations etc. through Participatory agro-ecosystem analysis. They have administered the participatory tools like transect walk, social map, hydrological map, natural resource map,

biodiversity analysis, time line, time trend analysis, seasonality diagram, cause effect diagram, Venn diagram, Agricultural information flow, mobility map, direct matrix, preference ranking etc.

- Apart from application of PRA tools for agro-ecosystem analysis the students have identified the major problems of the village and the training needs of the farmers to cope the existing problems.
- In each station the students have also organised a good number of field days for the farmers of the villages in relation to their problems.
- The different on-going rural and agricultural development programmes in the village were studied and different existing Indigenous Technical Knowledge was also identified by the students.
- They have visited different village institutions like Panchayat, School and Cooperative to study the role in development programmes.
- Under agronomic intervention the students had studied the cropping pattern, package of practices of major crops, estimation of yield, water management of major crops, weed flora of major crops and constraints in crop production.
- Under plant protection intervention the major insect pest of different crops, store grain pests, pesticides availability and utilization pattern, major disease assessment were studied with the help of prescribed proforma.
- Under plant protection intervention, the students had collected the soil samples from the crop field by following the appropriate methodology and tested the soil samples in the department.
- Under fruit and vegetable production intervention, the data were collected on existing fruit crops in the village, cultivation practices of the vegetables in the village, scenario of vegetable crops in the region.
- Under animal and fishery production intervention the study was conducted on available animal resources, available animal feed, fodder etc., challenges associated with animal production and overall recommendation for improvement and existing fishery related activities.
- The information was also collected on crop diversity, seed quality, seed treatment, utilization pattern of pesticide, herbicide, botanical pesticide etc.
- Under economic intervention the study was conducted on agri-business status and opportunity, risk and uncertainty, cost of cultivation, resource use efficiency, labour economics, farm financial management and profitability of cropping system.
- Under statistical intervention, the study was conducted on crop cutting experiment, layout and randomization used in agriculture.

5. Preparation of report: Each student has prepared a report with respect to the activities indicated above and submitted it to the coordinators for its evaluation

❖ **Component-II: Agro Industrial Attachment (AIA)**

Technology and globalization are ushering an era of unprecedented change. The need and pressure for change and innovation is immense. To enrich the practical knowledge of the students, in-plant training shall be mandatory for a period of up to 3 weeks. In this training, students will have to study a problem in industrial perspective and submit the report. Such in-plant training will provide an industrial exposure to the students as well as to develop their career in the high tech industrial requirements.

Objectives:

- To expose the students to industrial environment, this cannot be simulated in the university.
- To familiarize the students with various Materials, Machines, Processes, Products and their applications along with relevant aspects of shop management.
- To make the students understand the psychology of the workers, and approach to problems along with the practices followed at factory
- To make the students understand the scope, functions and job responsibility-ties in various departments of an organization.
- Exposure to various aspects of entrepreneurship during the programme period

Activities under AIA

The students of three stations were exposed in different agro industries. The students placed in Coochbehar KVK were exposed in three agro-industries namely wheat mill, rice mill and oil mill at Chakchaka Industrial Area, Chakchaka, Coochbehar. The students placed in DDKVK were exposed in one agro-industry Maa Bidyeswari Rice Mill at Majhian. The students placed in CADC, Jateswar were exposed in two agro-industries namely Falakata rice mill, Falakata and Tasati Tea Estate, Falakata and the students placed in UDKVK were exposed in two agro-industries namely Ganapati Tea Private Limited, Raiganj, Sabujayan Bahumukhi Himghar, Raiganj. The exposure helps the students to acquaint with the industry and staff, to study the structure, functioning, objective and mandates of the industry, to study the various processing units and hands-on trainings under supervision of industry staff, to study the ethics of industry, to learn business network including outlets of the industry.

Preparation of report: Each student has prepared a report with respect to the activities indicated above and submitted it to the coordinators for its evaluation

Performance evaluation:

Attendance: Minimum attendance was 85%.

Records: Students completed their record work/ report writing/ presentations, etc. based on daily field observations recorded in notebooks and weekly diaries maintained by them.

Evaluation Procedure: Students were evaluated component-wise under village attachment and agro-industrial attachment. The respective component In-Charge, Instructor(s), and Coordinators evaluated the students as under:

ACTIVITY		Max. Marks
1. RAWE		
a.	Local level coordinators and Involved instructors (Presentation)	50
b.	Report Preparation	10
c.	External expert, Central level coordinators with other involved instructors (Group Discussion & Viva-voce)	40
2. AIA		
a.	AIA Instructor and Local Level Coordinators (Presentation)	50
b.	Report Preparation	10
c.	External Expert, Central level coordinators with other involved instructors (Presentation & Viva-voce)	40

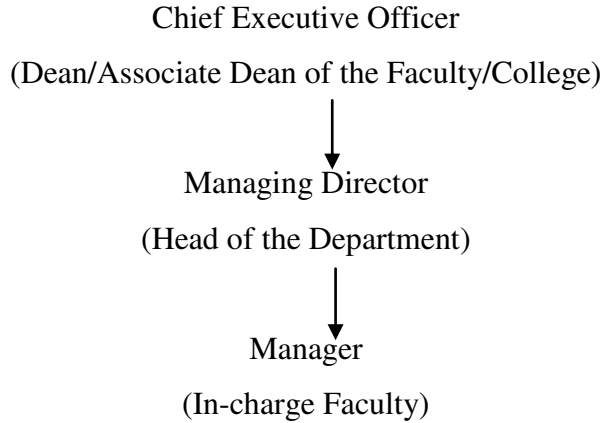
2.1.2.. Experiential Learning Units (EL Units)/Hands-on-Training Units (HoTs)

There are three EL units – (i) Mushroom Production and Processing, (ii) Vermi Compost Production and Processing and (iii) Biocontrol Agent Mass Production. These units have been established with ICAR fund.

The eight semester UG students are placed in groups in these EL units based on merit and choice and they learn all the procedures involved in the production and marketing of the individual produce of the ELPs. These EL units help students

develop competence, capability, capacity development, expertise and confidence to start their own enterprise and turn job creators instead of job seekers.

The ELPs/HoT have their own bank account and has the following organizational set-up:



2.1.2.1. ELP on Mushroom Production and Processing

No. of students enrolled 20 (name listed below)
 Date of Commencement 3rd November'2017
 (Student activity)
 Mode of operation Experiential Learning Programme
 Activity Plan Executed

- a) **Survey in the nearby villages of the University for Mushroom growing and spawn production activity as well as for the scope of mushroom production, market etc.** **1 week**
 - To understand the demand of mushroom among the people and local market.
- b) **Commercial product development**
 - Pure culture of Mushroom, spawn and mushroom production
 - Isolation and making of the pure culture to produce good quality spawn. **2 weeks**
 - Testing of cultures for the ability to produce good quality spawn **2 weeks**
 - The produced spawn were tested for the potentiality to produce mushroom fruiting body **4 weeks**
 - Commercial production of the spawn and Mushroom **10 weeks**
 - Spawns were prepared in bulk quantity using wheat grains as substrate for growing spawn, to meet the demand of local mushroom growers as well as for production of mushroom in mushroom house for sell in market

- Mushrooms were produced in bulk quantity using the spawn produced in laboratory in mushroom house to meet the local market demand of fresh mushroom
- Part of produced mushrooms were dried and sent to markets of distant places through market channels
- Cost estimation
 - Existing market value of inputs helps in estimation of materials and other costs to arrive at the total cost of production of the products
- Quality analysis **2 weeks**
 - Lectures by faculties on quality control.
 - Finalization of design /product **1 week**
 - Label design
 - Packing of products
 - Information brochure
 - Target Amount of the product to be marketed:
 - Mushroom Spawn: 1000 Packets in 2 months
 - Mushroom fruiting body: 250 Kg in 2 months
 - Packing range : Mushroom- 1 Kg, ½ Kg
Spawn - 200g

Actual Production	<ul style="list-style-type: none"> ● Mushroom Spawn: 840 Packets (including 200 pkts for mushroom cultivation) ● Mushroom fruiting body: 195 Kg
Cost of production	₹ 3153.00
Product Sold	<ul style="list-style-type: none"> ● Mushroom Spawn:: ₹ 5484.00 (457 Pkts) ● Mushroom fruiting body: ₹ 11,700.00
Profit	● ₹ 14,031.00
Profit shared	● ₹ 334.55 as 50% share (Debited to accounts of students on September, 2018)

List of students:

Sl. No.	Name of the student	Registration No.
1	Anshu Priya	A-2014-5-B
2	Avirup Guha	A-2014-10-B
3	Bijoy Chanda	A-2014-11-B
4	Chandan Saha	A-2014-13-B
5	Birat Rai	A-2014-17-B
6	Th. D. Grace Chiru	A-2014-18-B
7	Jasmeen Khandakar	A-2014-19-B
8	Jeet Roy	A-2014-20-B
9	Madhurima Biswas	A-2014-22-B
10	Md. Aminur R. Ansari	A-2014-25-B
11	Md. Saheen Akhtar	A-2014-26-B
12	Nithya S.	A-2014-29-B
13	Osman Ali	A-2014-31-B
14	Rupom Barua	A-2014-41-B
15	Saheb Bhadra	A-2014-42-B
16	Sandesh Rai	A-2014-46-B
17	Sourav Das	A-2014-52-B
18	Souvik Dey	A-2014-54-B
19	Surajit Sarkar	A-2014-58-B
20	Yeti	A-2014-65-B



2.1.2.2. ELP on Biocontrol Agent Production

No. of students enrolled	18 (Names annexed)
Date of Commencement	3 rd November, 2017
Mode of operation	Experiential Learning Programme
Activity Plan Executed	

c) **Survey with the farmers in villages of the university jurisdiction with questionnaire for awareness about the use and availability of the bio-agents. 1 week**

- Questionnaire development to understand farmers profile for buying behavior.

d) **Commercial product development**

- Isolation of the bio-agents from the field **3 weeks**
 - Isolation of the bio-agents from crops to enable the farmers to provide the local isolates of the bio-agents.
 - Testing the efficacy of the bio-agents **4 weeks**
 - The isolates of the bio-agents will be tested for their efficacy in the plant health management.

- Mass production of the bio-agents **10 weeks**
 - These provide important details such as protocols for mass production of the bio-agents on grains, broth media and in fermenter.

- Commercial production **1 weeks**
 - Preparation of commercial product by mixing the mass multiplied bio-agents in a proper ratio with talc based formulation as **Crop specific Bio-Mix (Rice Bio-Mix, Veg Bio-Mix, Lentil Bio-Mix etc.)**
 - Preparation of traps and Tricho-cards per unit area (Bigha) basis.

- Cost estimation
 - Creating a prototype also helps in estimation of materials and other costs to arrive at the total cost of production of the consortium products

- Quality analysis **2 weeks**
 - Lectures by faculties on quality control.

- Finalization of design /product **1 week**
 - Label design
 - Information brochure
 - Method of application (local language)

- Target Amount of the product to be marketed:
 - Microbial inoculant: **250 kg in 2 months**
 - Trichocard:
 - Trap:

- Packing range : 200 g, 500g and 1 kg

Actual Production	• Microbial Inoculant: 230 kg
Cost of production	• Microbial Inoculant: ₹37500.00
Product Sold till date	• Microbial Inoculant: ₹57750.00 (165 kg)
Profit	• ₹47939.00
Profit shared	• ₹ 1331.66 as 50% share (Debited to accounts of students on September, 2018)

List of students

Sl. No.	Name of the student	Registration No.
1	Alolita Bhattacharya	A-2014-2-B
2	Antara Mochary	A-2014-6-B
3	Anwasha Samanta	A-2014-7-B
4	Debjani Mandal	A-2014-14-B
5	Moumita Khatun	A-2014-27-B
6	Oindrila Debsarma	A-2014-30-B
7	Paramita Das	A-2014-32-B
8	Piyali Sarkar	A-2014-33-B
9	Pousabh Das	A-2014-34-B
10	Rahul Shaikh	A-2014-37-B
11	Rayanta Kumar Lala	A-2014-39-B
12	Rekha Khalko	A-2014-40-B
13	Saikat Chowdhury	A-2014-43-B
14	Sohel Rahaman	A-2014-50-B
15	Sovonlal Sahu	A-2014-55-B
16	Subhajit Ruidas	A-2014-56-B
17	Vyshnavi Sunil	A-2014-64-B
18	Kapil Deb Harjee	A-2013-21-B

2.1.2.3. ELP on Vermicompost Production

No. of students enrolled

Date of Commencement 3rd November, 2017

Mode of operation Experiential Learning Programme

Activity Plan Executed

- Collection of waste materials week 1st
- Processing of waste materials week 1st
- Pre-digestion of waste materials week 2nd
- Installation of waste materials in pits week 2nd
- Release of earth worms week 3rd
- Supply of food, watering, turning and maintenance in vermicompost pit 4th, 5th & 6th week
- Harvesting, sieving, drying & packing of finished product 6th & 7th week

	<ul style="list-style-type: none"> • Analysis of plant sample and final product of vermicompost • Marketing of the product 	2nd & 7th week 7th week
Actual Production	• 20 quintal	
Cost of production	• ₹10,000.00	
Product Sold till date	• ₹ 4280.00 (856 kg)	
Profit shared	• Not shared till date	

Student List

1. Achyuta Basak	(A-2014-01-B)
2. Amitha Paul	(A-2014-03-B)
3. Arpita Sarkar	(A-2014-08-B)
4. Deepanyeta Goswami	(A-2014-15-B)
5. Kingsuk Das	(A-2014-21-B)
6. Mainul Hassan	(A-2014-23-B)
7. Manas Barman	(A-2014-24-B)
8. Nandita Mandal	(A-2014-28-B)
9. Pritam Roy	(A-2014-35-B)
10. Pritha Kundu	(A-2014-36-B)
11. Saikat Ranjan Das	(A-2014-44-B)
12. Samruzzoha Afreen	(A-2014-45-B)
13. Shubhamaydey	(A-2014-48-B)
14. Sk.Samsuddin	(A-2014-49-B)
15. Sourav Chakraborty	(A-2014-51-B)
16. Swarnashree Barman	(A-2014-59-B)
17. Titli Biswas	(A-2014-60-B)
18. Tridiv Ghosh	(A-2014-61-B)
19. Tulipa De	(A-2014-62-B)
20. Urmi Saha	(A-2014-63-B)



2.1.2. Special Coaching for SC/ST and Other Backwardcategory Student

During continuous monitoring of the performance of the students, it was felt necessary to provide extra attention to the students under SC/ST category and other backward classes. From this year, special classes have been arranged in off-time, especially on the holidays for them as per their needs on different topics that exist in their syllabus.

2.2 Post Graduate Courses

Post-graduate courses are offered by various departments under this faculty. The department wise courses for post doctoral studies are given below:

2.2.1 Department of Agronomy

Field of specialization for M.Sc and Ph.D.: Crop Husbandry, Weed Management and Water Management.

Post Graduate courses:

Code	Course title	Credits	Semester
AGRON 501*	Modern concepts in crop production	3+0	1 st
AGRON 502*	Principles and practices of soil fertility and nutrient management	2+1	1 st
AGRON 503*	Principles and practices of weed management	2+1	1 st
AGRON 504*	Principles and practices of water management	2+1	1 st
AGRON 505	Agrometeorology and crop weather Forecasting	2+1	2 nd
AGRON 506 (CORE)	Agronomy of cereal crop-i (rice)	2+1	2 nd
AGRON 507	Agronomy of cereal crops-ii (maize and millets)	2+1	3 rd
AGRON 508	Agronomy of cereal crops ii (wheat and barley)	2+1	3 rd
AGRON 509	Agronomy of pulse crops (kharif and rabi)	2+1	2 nd
AGRON 510	Agronomy of oil seed crops (kharif and rabi)	2+1	2 nd
AGRON 511	Agronomy of fibre crops	2+1	3 rd
AGRON 512	Agronomy of sugar crops	2+1	3 rd
AGRON 513	Agronomy of tuber crops	2+1	3 rd
AGRON 514	Agronomy of fodder and forage crops	2+1	3 rd
AGRON 515	Cropping systems and sustainable agriculture	2+0	2 nd
AGRON 516	Dryland farming and watershed management	2+1	2 nd
AGRON 517	Principles and practices of organic farming	2+1	2 nd
AGRON 518	Diagnosis of nutritional deficiency in field crops and their remedial measure	2+1	2 nd
AGRON 591	Master's seminar	1+0	4 th
AGRON 601	Current trends in agronomy	3+0	1 st /3 rd /5 th
AGRON 602	Crop ecology	2+0	1 st /3 rd /5 th
AGRON 603	Advances in crop growth and productivity	2+1	1 st /3 rd /5 th
AGRON 604	Advances in water management	2+1	2 nd /4 th
AGRON 605	Advances in weed management	2+0	1 st /3 rd /5 th
AGRON 606	Integrated farming systems and sustainable agriculture	2+0	1 st /3 rd /5 th
AGRON 607	Soil conservation and watershed management	2+1	2 nd /4 th
AGRON 608	Stress crop production	2+1	2 nd /4 th
AGRON 609	Crop production and system modeling	2+1	2 nd /4 th
AGRON 610	Advance technology in cereals production	2+1	1 st /3 rd /5 th
AGRON 691	Doctoral seminar I	1+0	1 st /2 nd
AGRON 692	Doctoral seminar II	1+0	6 th
AGRON 699	Doctoral research	45	

* Compulsory for Master's programme

Post graduate requirement:

- i) For M.Sc. (Ag.) Degree: 4 years B.Sc(Ag.) Hons. Degree with Agronomy as a compulsory subject
 ii) For Ph.D Degree: Two years Full time M.Sc. (Ag.) in Agronomy

PG student completed degree:**i) M.Sc.(Ag.) in Agronomy**

Sl. No.	Name of the Students	Name of The Supervisor	Title of work
1	Roni Barman	Dr. Biplab Mitra	Evaluation of herbicides for control of broad leaved weeds in wheat
2	Koushik Nandi	Prof.S. Bandyopadhyay	Effect of date of sowing on growth and yield of maize-greengram system of intercropping
3	Monorama Behera	Prof. Asok Saha	Studies on varying K levels on early duration potato varieties
4	Jince Mary M Joy	Prof. A.K.Singha Roy	Performance of new timely sown wheat genotypes under restricted irrigation conditions
5	Md. Aziz	Dr. P.S.Patra	Response of split application of nitrogen on productivity of maize

ii) Ph.D in Agriculture (Agronomy)

Sl. No.	Name of the Students	Name of the Supervisor	Title of work
1	Augustina Saha	Prof. A.C.Sinha	“Effect of Integrated Nutrient Management on Buckwheat (<i>Fagopyrum esculantum</i> Moench) varieties and its residual effect on Mung bean (<i>Vigna radiate</i> L.) under Terai region of West Bengal”
2	Ananda Shankar Singha	Prof. Asok Saha	Effect of Cultivars and Date of Sowing on Growth and Yield of Rapeseed/Mustard in Rice-Rapeseed/Mustard Cropping System
3	Koushik Patra	Prof.S.Bandyopadhyay	Productivity, energy efficiency and economics of rice-wheat system as affected by varieties and crop establishment techniques in Sub-Himalayan plains of Bengal
4	Punabati Heisnam	Dr. A.K.Singha Roy	Studies of INM and effect of transplanting dates on growth, yield, quality and economics of aromatic rice cultivar
5	Tapas Das	Dr. P.S.Patra	Effect of varied microclimate on Ground nut(<i>Arachis hypogaea</i> L.) due to tillage, date of sowing and nutrient management and impact assessment of imposed temperature variation using crop simulation model

Existing M.Sc students along with their supervisors

Sl. No.	Name of the Students	Name of the Supervisor	Title of Work
1	B.Tripathy	Prof. A.K.Singha Roy	Evaluation of performance of diverse varieties of wheat at different dates of sowing under changing climatic conditions
2	M. Akhila	Prof. Asok Saha	Nutrient management studies on confectionary groundnut varieties
3	H. Mandi	Prof.S. Bandyopadhyay	Effect of organic mulch and potassium management on growth, yield of late sown rabi Maize (<i>Zea mays</i> L.) in sub Himalayan plain
4	M. Pandey	Dr. Parthendu Poddar	Performance of 'CR Dhan 307' (Maudamani); a heavy panicle rice variety under various dates of planting and planting densities in terai zone of West Bengal
5	Arju Ahmed	Dr. P.S.Patra	Performance of Maize (<i>Zea mays</i> L.) under different method of zinc application
6	Sukanya Dutta	Dr. Shyamal Kheroar	Integrated weed management approach to improve weed control efficiencies for sustainable jute production
7	Suchitra Roy	Dr. Tarun Paul	Influence of tillage and herbicides on weed flora of wheat

Existing Ph.D students in Agriculture (Agronomy)

Sl. No.	Name of the Students	Name of the Supervisor	Title of work
1	Bidyapati Ngangom	Prof. A.K.Singha Roy	Response of various rice varieties to Zn application during summer season
2	Anwesh Rai	Prof. S. Bandyopadhyay	Optimization of sowing window and cultivars of winter maize under maize-cowpea cropping system and impact assessment of climate change using CSM CERES-maize
3	Triptesh Mondal	Prof. A.K.Singha Roy	Yield maximization in zero tillage wheat through Decision Support System (DSS) with Nitrogen splitting and lodging management
4	Santanu Das	Prof. Asok Saha	Evaluation of growth and yield performances of different potato(<i>Solanum tuberosum</i> L.) cultivars and influence of varying fertilizer levels on processing type

Sl. No.	Name of the Students	Name of the Supervisor	Title of work
5	Prantick Singha	Dr. Biplab Mitra	variety Precision Nutrient Management in Wheat using NDVI Sensor and its Residual Effect on Succeeding Rice
6	Rajesh Saha	Dr. P.S.Patra	Yield and quality of aromatic rice under different source of organic nutrient and establishment technique
7	Everest Lepcha	Dr. Parthendu Poddar	Studies on dual purpose maize (grain-cum-fodder production) in rice-maize cropping system
8	Soumya Saha	Prof.S.Bandyopadhyay	Studies on zinc application methods in direct seeded rice and zinc use efficiency of indigenous rice varieties of Terai West Bengal
9	Senjit Singh Ashem	Prof. A.K.Singha Roy	Integrated Nutrient Management in Summer Rice in Terai Zone of West Bengal
10	Nabarun Paul	Prof. Asok Saha	Varietal evaluation and response of microbial inoculation under polythene mulching for yield optimization in groundnut

2.2.2 Department of Agricultural Economics

Field of specialization for M.Sc. and Ph.D.: Farm Management & Production

Economics, Agril. Marketing & Price Analysis, Agril. Finance & Project Analysis, Agril. Development & Policy

Post graduate courses:

Sl. No.	Course No.	Course-Title	Credit Hour	Semester
<i>Master Degree Major/Core Courses</i>				
1.	ECON 501	Micro Economic theory and application	2(2+0)	1 st
2.	ECON 502	Macro Economics and Policy	2(2+0)	1 st
3.	ECON 503	Evolution of Economic thought	1(1+0)	1 st
4.	ECON 504	Agril. Production Economics	2(1+1)	1 st
5.	ECON 505	Agril. Marketing and Price analysis	3(2+1)	1 st
6.	ECON 506	Research Methodology for Social Science	2(1+1)	2 nd
7.	ECON 507	Econometrics	3(2+1)	2 nd
8.	ECON 508	Linear Programing	2(1+1)	3 rd
9.	ECON 509	Agril. Finance & Project Management	3(2+1)	3 rd
Minor/Supporting Courses				
10.	ECON 510	Mathematics for Agril. Economics	3(3+0)	3 rd
11.	ECON 511	International Economics	2(1+1)	1 st

Sl. No.	Course No.	Course-Title	Credit Hour	Semester
12.	ECON 514	Natural Resource and Environmental Economics	2(1+1)	2 nd
13.	ECON 515	Intellectual Property Management	1(1+0)	2 nd
14.	ECON 517	Rural Marketing	2(2+0)	2 nd
15.	ECON 518	Commodity Futures Trading	2(2+0)	1 st
Seminar				
16.	ECON 591	Master's Seminar	0+1	4 th
Research				
17.	ECON 599	Master's Research	0+20	4 th
Doctoral Degree Major Courses				
1.	ECON 601	Advanced Micro Economic Analysis	2(1+1)	1 st
2.	ECON 602	Advanced Macro Economics Analysis	2(2+0)	1 st
3.	ECON 603	Advanced Econometrics	3(2+1)	1 st
4.	ECON 604	Advanced Production Economics	3(2+1)	1 st
5.	ECON 605	Quantitative Development Policy Analysis	2(1+1)	2 nd
6.	ECON 606	Advanced Agril. Marketing and Price analysis	3(2+1)	2 nd
Minor / Supporting Courses				
7.	ECON 608	Commodity Future Trading	2(2+0)	1 st & 2 nd
8.	ECON 609	Natural Resource Management	2(1+1)	1 st & 2 nd
9.	ECON 610	Environmental Economics	2(2+0)	1 st & 2 nd
Doctoral Seminar				
10.	ECON 691	Doctoral Seminar – I	1(0+1)	2 nd
11.	ECON 692	Doctoral Seminar – II	1(0+1)	5 th
Doctoral Research				
12.	ECON 699	Doctoral Research	0+45	–

Post graduate requirement:

i) For M.Sc.(Ag) Degree:

4 years B.Sc. (Ag) Hons degree with courses on Agricultural Economics

ii) For Ph.D. Degree: Two years full time M.Sc.(Ag) in Agricultural Economics

2.2.3 Department of Agricultural Entomology

Field of specialization for:

M.Sc.: Economic Entomology

Ph. D.: Economic Entomology

Post graduate courses:

Course No.	Course-Title	Credit Hour	Semester
Core-Courses			
ENT-501	Insect morphology	1+1	1 st
ENT-502	Insect anatomy, physiology and nutrition	2+1	1 st
ENT-503	Principles of taxonomy and classification of insects	2+1	1 st
ENT-504	Insect ecology	1+1	2 nd
ENT-506	Biological control of crop pests and weeds	1+1	1 st
ENT-507	Insect toxicology	2+1	3 rd
ENT-509	Principles of integrated pest management	1+1	2 nd
ENT-510	Pests of field, horticulture and plantation crops and storage entomology	3+1	2 nd
Minor/Supporting Courses			
ENT-505	Insect pathology	1+1	3 rd
ENT-508	Plants resistant to insects	1+0	2 nd
ENT-511	Insect vectors of plant viruses and other pathogens	1+0	4 th
ENT-512	Commercial entomology	1+1	2 nd
Doctoral Degree Courses			
Course No.	Course Title	Credit hours	Remarks
ENT-601	Immature stages of insects	1+1	1 st
ENT-602	Insect behavior	1+1	4 th
ENT-603	Recent trends in biological control	1+1	2 nd
ENT-605	Advances in host plant resistance	1+1	2 nd
ENT-606	Advanced acarology	1+1	3 rd
ENT-607	Molecular approaches in entomological research	1+1	1 st
ENT-608	Advanced IPM	2+0	1 st

Post graduate requirement:

- i) **For M.Sc.(Ag) Degree:** years B.Sc. (Ag) Hons degree with courses on Agricultural Entomology
- iii) **For Ph.D. Degree:** Two years full time M.Sc.(Ag) in Agricultural Entomology

PG student completed degree:**i) M.Sc(Ag) in Agril. Entomology**

Sl. No.	Name of the student	Name of the Supervisor	Title of work
1	Bireshwar Kundu	Prof. T. K. Hath	Bioecology of <i>Sitophilus oryzae</i> L. on wheat under terai agro-ecology of W.B.
2	Biwash Gurung	Dr. S. Pal	Biodiversity and bioecology of predaceous Coccinellids.
3	Sandip Mandal	Dr. N. Laskar	ITK based pest management module on brinjal (<i>Solanum melongena</i> L.) under terai agro-ecological system of WB.
4	Shankar Mahato	Dr. J Ghosh	Insect pests of linseed (<i>Linum Usitatissimum</i> L.) and their sustainable management in terai region of WB.

ii. Ph. D. degree awarded

Sl. No	Name of the student	Name of the supervisors	Title of work
1.	Gharde Satish Krushna	N. Choudhuri	Life system study of <i>Cricula trifenestrata</i> Helf. (Saturnidae : Lepidoptera) towards formulation of its management strategy
2.	Gobinda Roy	N. Laskar	Tephritid (Diptera: Insecta) fruit flies of economic importance under terai and hilly agro-ecological region of West Bengal”

Existing M. Sc. (Ag.) students

Sl. No.	Name of the student	Name of Supervisor	Title of work
1	Amit Raut	Dr. J.Ghosh	Seasonal incidence of insect pests of cabbage and effect of pest control modules for their sustainable management
2	Y. Mohan Babu	Dr. N. Laskar	Studies on mealy Bugs infesting various crops under terai agro-ecological situation of West Bengal
3	N. Mamatha	Mr. P. Sarkar	Studies on the pest complex in brinjal and management of sucking pest with botanicals
4	Atanu Maji	Ms. M. Chatterjee	Diversity on seasonal incidents of aphids and their natural enemies from terai region of West Bengal

Existing Ph. D. students

Sl. No.	Name of the student	Name of Supervisor	Title of Work
1.	Biwas Gurung	Dr. W. Reza	Arthropd diversity in wheat ecosystem with reference to wheat aphid and its biorational management
2.	Bireswar Kundu	Dr. T. Dhar	Screening of different black gram germplasms against its pest complex.
3.	Fouzia Bari	Prof. S. K. Senapati	Screening of different banana cultivars against banana scare beetle...
4.	Biswajit Patra	Prof. T. K. Hath	Studies on insecticide resistance in <i>Empoasca flavescens</i> Fab and acaricide resistance in <i>Oligonychus coffeae</i> Nietner on tea

2.2.4. Department of Agricultural Extension

Field of specialization for M.Sc. and Ph.D.: Sample Survey, Forecasting and Statistical Modelling, Design of Experiments.

Post-Graduate Courses:

Course No.	Course-Title	Credit Hours	Semester
Master Degree Major/Core-Courses			
EXT-501	Development Perspectives of Extension Education	2+0	1 st
EXT-502	Development Communication, Information Management and E-Extension	3+0	1 st
EXT-503	Research Methods in Behavioral Sciences	3+0	1 st
EXT-504	Diffusion and Adoption of Innovations	2+1	2 nd
EXT-505	Entrepreneurship Development and Management in Extension	3+1	2 nd
EXT-506	Human Resource Development	2+1	2 nd
Minor/Supporting Courses			
EXT-507	Participatory Methods for Technology Development and Transfer	1+1	1 st
EXT-508	Visual Communication	1+2	2 nd
EXT-509	Gender Sensitization for Development	1+1	3 rd
EXT-510	Market –Let Extension	1+1	3 rd
EXT-511	Perspectives of Distance Education	1+1	Currently Not offered
EXT-512	Basic Imaging Technology	1+2	Currently Not offered
EXT-513	Rural Sociology	2+0	Currently Not offered
EXT-514	Educational Psychology	2+0	Currently Not offered

Course No.	Course-Title	Credit Hours	Semester
Master's Seminar and Research (1+20)			
EXT- 591	Master's Seminar	0+1	4 th
EXT-599	Master's Research	20	3 rd
Master's Supporting Courses			
	Any course from other departments	05	1 st /2 nd /3 rd
Doctoral Major Courses(12 Cr-Hr)			
EXT 601	Advances in Agricultural extension	2+1	1 st
EXT 602	Advanced Design and Techniques in Social Science Research	2+1	2 nd
EXT 603	Advances in Training and Instructional Technology	2+1	2 nd
EXT 604	Organizational Development	2+1	3 rd
Doctoral Minor Courses (6 Cr-Hr)			
EXT 605	Media Management	2+1	2 nd
EXT 606	Transfer of Technology in Agriculture	2+1	4 th
EXT 607	Advanced Management Technique	2+1	Currently Not offered
EXT 608	Theory Construction in Social Sciences	2+0	Currently Not offered

Post-Graduate requirement

M.Sc. (Ag) Degree: Four years B.Sc. (Ag) Hons. degree with Agricultural Extension

Ph.D. Degree: Two years full time M.Sc. (Ag) in Agricultural Extension

PG students completed degree:

M.Sc(Ag) in Agril. Extension

Sl No.	Name of the students	Name of Supervisors	Title of the work
1.	Subhrajyoti Panda	Dr.K.Pradhan	Assessing the effectiveness of Information Communication Technology (ICT) enabled extension Services for addressing the Information needs of the farmers in Cooch Behar district of West Bengal
2.	Keshav Ram	Dr. K.Pradhan	Exploring the utilization pattern of information sources towards sustainable livelihood within the district of Cooch Behar in West Bengal
3.	Arijit Sing Sardar	Prof. P.K.Pal	Farmers perception on Judgement of jackfruit characteristics
4.	Biman Maity	Prof. P.K.Pal	Analysing the perceived constraints in Pulses cultivation in selected north Bengal districts of west Bengal

Ph.D in Agril. Extension: Nil

Existing M.Sc(Ag) students:

Sl No.	Name of the students	Name of Supervisors	Title of the work
1	Peddi Naga arsha Vardhan	Prof. P.K.Pal	Impact of Krishi Vignyan Kendras on adoption of climate resilient technologies in agriculture in North Bengal districts of West Bengal
2	Subhajit Chakraborty	Dr. S. Mondal	Study of Farmers' attitude, awareness and adoption of crop insurance in Cooch Behar district of West Bengal

Existing Ph.D students

Sl No.	Name of the students	Name of Supervisors	Title of the work
1	Biman Maity	Dr.K.Pradhan	Assessment of Sustainable Livelihood restoration through Skill Development among Rural Youth in Agriculture
2	Tarun Kumar Das	Dr. K.Pradhan	Revisiting the extension strategies to avert climate change vulnerabilities in agriculture for ensuring food security
3	Subhrajoti Panda	Prof. P.K.Pal	Pluralistic Extension Services- Access, Quality and Implications from the Restructured Policy Reforms in Cooch Behar District of West Bengal, India
4	Gulam Tobar Ali	Prof. P.K.Pal	Role of Grass-root Organisations as the actors of Agricultural Knowledge Information System (AKIS) in Selected districts of North Bengal, India
5	Yenglem Lakshimai Devi	Dr. P. K. Pal	Participation of farm women in livelihood activities with special reference to selective ethnic races in Terai region of West Bengal, India
6	C. Vara Prasad	Dr. K. Pradhan	Harnessing the e-readiness of the agricultural system actors for sustainable agricultural development in Cooch Behar and Alipurduar districts of West Bengal
7	Satarupa Modak	Dr. P. K. Pal	Diffusion and adoption pattern organic production technology in Terai region of West Bengal, India
8	Norden Lepcha	Dr. P. K. Pal	Characterizing family farming in the Hill ecosystem of West Bengal, India
9	Bablu Ganguly	Dr. K. Pradhan	Assessing the existing agricultural information system network for agricultural development in Malda district

Sl No.	Name of the students	Name of Supervisors	Title of the work
			of West Bengal
10	Avishek Saha	Dr. K. Pradhan	Reengaging youth in agriculture: a way forward to enhance agricultural productivity for a food secure society
11	Victor Sarkar	Dr. K. Pradhan	Reinventing the Impact of Self Help Group (SHG) towards Women Empowerment in West Bengal

2.2.5 Department of Agricultural Statistics

Field of specialization for M.Sc. and Ph.D.: Sample Survey, Forecasting and Statistical Modelling, Design of Experiments, Remote sensing, Econometrics

Post- graduate courses

Code	Course title	Credits	Semester
STAT 551	Mathematical Methods-I	3+0	1st
STAT 552	Mathematical Methods-II	2+0	2 nd
STAT 560	Probability Theory	2+0	1st
STAT 561	Statistical Methods	2+1	1st
STAT 562	Statistical Inference	2+1	2 nd
STAT 563	Multivariate Analysis	2+1	3 rd
STAT 564	Design of Experiments	2+1	3 rd
STAT 565	Sampling Techniques	2+1	2 nd
STAT 566	Statistical Genetics	2+1	3 rd
STAT 567	Regression Analysis	1+1	1 st
STAT 568	Statistical Computing	1+1	4 th
STAT 569	Time Series Analysis	1+1	
STAT 572	Econometrics	2+0	3 rd
STAT 575	Demography	2+0	1 st
STAT 591	Master's Seminar	1+0	4 th
STAT 599	Master's Research	20+0	4 th

Courses for the students of M. Sc. and Ph.D programmes of other disciplines under both Faculty of Agriculture and Faculty of Horticulture

Code	Course title	Credits	Remarks
STAT 501	Statistical methods for research workers	2+1	-
FOR-513	General statistical methods and research methodology	1+1	Offered by Department of Forestry
FOR-511	Computer application and information technology	1+1	Offered by Department of Forestry

Doctoral degree courses

Course No.	Course-Title	Credit Hour	Remarks
STAT 601	Advanced statistical computing	2+1	1 st
STAT 602	Simulation techniques	1+1	2 nd
STAT 611	Advanced statistical methods	2+0	1 st
STAT 612	Advanced statistical inference	3+0	2 nd
STAT 613	Advanced design of experiments	2+0	2 nd
STAT 614	Advanced sampling techniques	2+0	1 st
STAT 615	Advanced statistical genetics	2+0	3 rd
STAT 616	Statistical modeling	1+1	2 nd
STAT 617	Advanced time series analysis	2+0	3 rd
STAT 618	Stochastic processes	2+0	3 rd
STAT 621	Advanced econometrics	2+0	1 st
STAT 691	Doctoral seminar i	1+0	4 th
STAT 692	Doctoral seminar ii	1+0	5 th
STAT 699	Doctoral research	45+0	-

Post graduate requirement:

- i) **For M.Sc.(Ag) Degree:** 4 years B.Sc. (Ag) Hons degree with courses on Agricultural Statistics
- ii) **For Ph.D. Degree:** Two years full time M.Sc.(Ag) in Agricultural Statistics

PG students completed degree:

- i) M.Sc(Ag) in Agril. Statistics

Sl. No.	Name of the Students	Name of the Supervisor	Title of work
1	Sangeeth Surendran	Dr. D.S.Gupta	Study on feasibility of zero tillage as a substitute of conventional tillage <i>wrt</i> rabi maize in Coochbehar districts of West Bengal

Ph.D in Agril. Statistics: Nil

Existing M.Sc(Ag) students: Nil

Existing Ph.D students: Nil

2.2.6. Department of Biochemistry

Field of specialization for M.Sc. and Ph.D.: Biochemistry, Agricultural Chemicals.

M. Sc. (Ag.) courses

Course No.	Course Title	Credits	Semester
BCH 501	Basic Biochemistry	2+1	1 st
BCH 502	Chemistry of Biomolecules	2+1	1 st
BCH 503	Fundamentals of Enzymology	2+1	1 st
BCH 504	Analytical Techniques in Biochemistry	1+2	2 nd
BCH 505	Plant Biochemistry I	2+1	2 nd
BCH 506	Metabolic Pathways I	2+0	2 nd
BCH 507	Molecular Biology	2+1	1 st
BCH 508	Pesticide Biochemistry	2+0	3 rd
BCH 509	Basics of Immunology	2+1	3 rd
BCH 510	Food and Nutritional Biochemistry	2+0	3 rd
BCH 591	Master's Seminar	1+0	4 th
BCH 599	Master's Research	20	

Ph. D. courses

Course No.	Course Title	Credits	Semester
BCH 601	Advanced Enzymology	2+0	3 rd
BCH 602	Metabolic Pathways II	2+0	3 rd
BCH 603	Transport Biochemistry	2+0	3 rd
BCH 604	Advanced Molecular Biology	2+0	3 rd
BCH 605	Advanced Techniques in Biochemistry	0+2	3 rd
BCH 606	Plant Biochemistry II	2+0	2 nd
BCH 607	Current Topics in Biochemistry	1+0	2 nd
BCH 608	Functional Genomics and Metabolomics	2+0	2 nd
BCH 609	Environmental Biochemistry	2+0	4 th
BCH 691	Doctoral Seminar I	1+0	2 nd
BCH 692	Doctoral Seminar II	1+0	4 th
BCH 699	Doctoral Research	45	-

Agricultural Chemicals

M. Sc. (Ag.) courses

Course No.	Course Title	Credits	Semester
BCH 521	Basic Chemistry-I	2+1	1 st
BCH 522	Chemistry of Insecticides and Acaricides	2+1	1 st
BCH 523	Basic Laboratory Techniques	1+2	1 st
BCH 524	Pesticide Residue Analysis	1+1	1 st
BCH 525	Chemistry of Fungicides and Nematicides	2+0	2 nd
BCH 526	Chemistry of Herbicides and PGRs	2+1	2 nd
BCH 527	Chemistry of Botanicals and Biopesticides	2+0	2 nd
BCH 528	Analytical Techniques in Pesticide Chemistry	2+1	2 nd
BCH 529	Basic Chemistry-II	2+0	3 rd
BCH 530	Pesticide Formulations	2+1	3 rd
BCH 531	Movement, Degradation and Metabolism of Pesticides	2+0	3 rd
BCH 591	Master's Seminar	1+0	4 th
BCH 599	Master's Research	20	

Ph. D. courses

Course No.	Course Title	Credits	Semester
BCH 621	Regulations and Quality Control of Pesticides	2+0	3 rd
BCH 622	Advances in Insecticide Chemistry	2+0	1 st
BCH 623	Advances in Fungicide and Herbicide Chemistry	2+0	2 nd
BCH 624	Practicals in Pesticide Chemistry	0+1	2 nd
BCH 625	Special Topics in Agrochemicals	1+0	1 st
BCH 626	Principles of Pesticide Chemistry	2+0	1 st
BCH 627	Pesticides and Environmental Risk Assessment	2+0	3 rd
BCH 691	Doctoral Seminar I	1+0	1 st
BCH 692	Doctoral Seminar II	1+0	6 th
BCH 699	Doctoral Research	45	-

Post graduate requirement:

M. Sc. (Ag) Degree: Four years B. Sc. (Ag)/(Hort) Hons. degree

Ph.D. Degree: M. Sc. (Ag) degree in Biochemistry/ Agril. Chemicals

Students completed degree

M. Sc. (Ag) in Biochemistry

Sl. No.	Name of the Students	Name of the Supervisor	Title of work
1	Debayan Mondal	Prof. G.K.Pandit	Molecular characterization of geminiviruses from tomato in terai region of West Bengal

Ph.D in Biochemistry- Nil

Existing M. Sc students:

Sl. No.	Name of the Students	Name of the Supervisors	Title of work
1.	Rosalin Laisaram	Dr. N. Sahana	Development of novel turmeric based nano formulations and its characterisation

Existing Ph.D. students

Sl. No.	Name of the Students	Name of the Supervisors	Title of work
1.	Debayan Mondal	Dr. N. Sahana	Evaluation of non basmati aromatic rice cultivars grown in North Bengal for genetic resistance and defense response against rice blast disease
2.	Suman Natta	Dr. S. Mandal	Characterisation and evaluation of nutritional components of Jackfruit (<i>Artocarpus heterophyllus</i>) for potential applications as functional food

2.2.7 Department of Genetics and Plant Breeding

Field of specialization for M.Sc. and Ph.D.:

Masters' Degree Programme

- i) **Major Field** : Plant Breeding and Genetics
- ii) **Minor Field**: Seed Science and Technology / Biochemistry

Doctoral Degree Programme

- i) **Major Field** : Plant Breeding and Genetics
- ii) **Minor Field**: Seed Science and Technology /Biochemistry

Post graduate courses

M. Sc. (Ag.) courses

Course No.	Title	Credit Hours	Semester
GPB-501	Principles of Genetics	2+ 1	1 st
GPB -502	Principles of Cytogenetics	2+`1	1 st
GPB -503	Principles of Plant Breeding	2+`1	1 st
GPB-504	Principles of Quantitative Genetics	2+`1	1 st
GPB-505	Mutagenesis and Mutation Breeding	2+`1	3 rd
GPB-506	Population Genetics	2+`1	2 nd
GPB-507	Heterosis Breeding	2+`1	2 nd
GPB-508	Cell Biology and Molecular Genetics	2+`1	2 nd
GPB-509	Biotechnology for Crop Improvement	2+`1	2 nd
GPB-510	Breeding for Biotic and Abiotic Stress Resistance	2+`1	3 rd
GPB-511	Breeding Cereals , Forages and Sugarcane	2+`1	2 nd
GPB-512	Breeding Legumes , Oilseeds and Fibre Crops	2+`1	3 rd
GPB-513	Breeding for Quality Traits	2+`1	4 th
GPB-514	Gene Regulation and Expression	2+`0	3 rd
GPB-515	Maintenance Breeding , Concepts of Variety Release and Seed Production	1+1	4 th
GPB-516	Germplasm Collection, Exchange And Quarantine	2+`1	3 rd
GPB-517	Database Management, Evaluation and Utilization of PGR	2+`1	4 th
GPB-591	Masters' Seminar	1+0	4 th
GPB-599	Masters' Research	20	4 th

Ph. D. courses

Course No.	Title	Credit Hours	Semester
GPB-601	Plant Genetic resources and their Utilization	2+`0	1 st
GPB-602	Advances in Quantitative Genetics	2+`1	1 st
GPB-603	Genomics in Crop Improvement	2+`1	1 st
GPB-604	Cellular and Chromosomal Manipulations in Crop Improvement	2+`0	2 nd
GPB-605	Advances in Plant Breeding	2+`0	2 nd
GPB-606	Crop Evolution	2+`0	3 rd
GPB-607	Breeding Designer Crops	2+`1	3 rd

Course No.	Title	Credit Hours	Semester
GPB-608	Advances in Breeding of Major Field Crops	3+0	4 th
GPB-609	Microbial Genetics	2+1	4 th
GPB-610	In situ and Ex situ Conservation of Germplasms	2+1	5 th
GPB-691	Doctoral Seminar I	1+0	2 nd
GPB-692	Doctoral Seminar II	1+0	6 th
GPB-699	Doctoral Research	0+45	6 th

Post graduate requirement:

- i) For M.Sc.(Ag) Degree: B.Sc (Ag.) Hons. /B.Sc.(Hort.) Hons.
- ii) For Ph.D. Degree: M.Sc.(Ag) in Genetics/ Plant Breeding/ Genetics and Plant Breeding /M.Sc.(Ag.) in Seed Science and Technology.

Students completed degree

M.Sc.(Ag) in Genetics and Plant Breeding

Sl. No.	Name of the Students	Name of the Supervisors	Title of work
1.	Siddhartha Shankar Sharma	Dr. H. A. Mondal	Genotypic response to special aphid colony distribution in cow pea (<i>Vigna unguiculata</i> L. Walp.) vine study the resistance mechanism
2.	Sourav Hazari	Dr. S. Das	Study of diurnal photosynthesis, water use efficiency and light use efficiency of wheat under terai agroecological condition

Ph.D in Genetics and Plant Breeding

Sl. No.	Title of work	Name of the Scholar	Chairman
1.	Screening of farmers varieties of rice (<i>Oryza sativa</i> L.) for drought tolerance	Swarnajit Debbarma	Dr. Bidhan Roy

Existing M.Sc. (Ag) students

Sl. No.	Name of the Students	Name of the Supervisor	Title of Work
1	Ms. Albina Gurung	Dr. Hossain Ali Mondal	Genotypic influence of aphid on <i>Brassica</i> species
2	Mr. Batchu Venkata Phaneendra Reddy	Dr. Avijit Kundu	Identification of MYMV resistance and photoinsensitive mungbean (<i>Vigna radiata</i> L.) germplasm and their molecular characterisation using genic and EST-SSRs

Sl. No.	Name of the Students	Name of the Supervisor	Title of Work
3	Mr. Bodeddula Jayasankar Reddy	Dr. Rupsanatan Mandal	Genetic diversity and molecular understanding of late blight disease resistant putative gene in potato tubers collected from the different parts of West Bengal
4	Mr. Supratim Sadhu	Dr. Moumita Chakraborty	Studies on genotype × environment interaction of mustard under Terai Agro Climatic zone
5	Mr. Yendluri Elijah Prabhanth	Dr. Saikat Das	Stability analysis of elite wheat genotypes under North Eastern Plain Zone

Existing Ph. D. scholars

Sl. No.	Name of the Student	Name of the Supervisor	Title of Work
1	Mr. Sourav Maity	Dr. Saikat Das	Genetic assessment of wheat genotypes based on morpho-phenetic characterisation and trait-linked microsatellite (SSRs) evaluation
2	Mr. Bilin Maying	Prof. Suwendu Kumar Roy	Studies on in-vitro and ex-vitro root and shoot response to phosphate deficiency in Indica rice and their validation with molecular markers
3	Ms. Aparajita Das	Prof. Arup Sarkar	Evaluation of germplasm of brinjal (<i>Solanum melongena</i> L. for yield and resistance to bacterial wilt and fruit and shoot borer
4	Mr. Sahanob Nath	Dr. Saikat Das	Population structure analysis and association mapping for resistance to spot blotch in bread wheat
5	Ms. Sanghamitra Rout	Prof. Tulsi Saran Ghimiray	Screening for aphid resistance and studies on combining ability for yield and its attributing characters in mustard (<i>Brassica juncea</i> L. Czern & Coss.)
6	Mr. Siddhartha Shankar Sharma	Dr. Hossain Ali Mondal	Study on flower, seed, novel mass-propagation technique, active component analysis and aphicidal effect of Lower-Altitude primed <i>Valeriana Jatamansi</i>

2.2.8. Department of Plant Pathology

Field of specialization for M.Sc. and Ph.D.: Fungi and Plant infection, Bacteriology, Virology, Disease management & Biological control

Post graduate courses

M. Sc. (Ag.) courses

Sl. No.	Course No.	Title of the course	Credit Hour	Semester
Core courses				
1	PPA-501	Introductory Mycology	2+1	1 st
2	PPA-502	Introductory Plant Virology	2+1	1 st
3	PPA-503	Introductory Plant Bacteriology	2+1	1 st
4	PPA-504	Principles of Plant Pathology	3+0	1 st
5	PPA-505	Detection and Diagnosis of Plant Diseases	0+2	1 st
6	PPA-506	Principles of Plant Disease Management	2+1	2 nd
Minor/Supporting courses				
1	PPA-507	Diseases of Field Crops	2+1	2 nd
	PPA-508	Diseases of Fruits, Plantation and	2+1	2 nd
2		Ornamental Crops		
	PPA-509	Diseases of Vegetables, Spices and	2+1	2 nd
3		Medicinal Plants		
4	PPA-510	Seed Health Technology	2+1	2 nd
5	PPA-511	Chemicals in Plant Disease Management	2+1	2 nd
6	PPA-512	Ecology of Soil Borne Plant Pathogens	2+1	2 nd
7	PPA-513	Disease Resistance in Plants	2+0	3 rd
8	PPA-514	Insect Vectors of Plant Viruses and other	1+1	3 rd
		Pathogens		
9	PPA-515	Biological Control of Plant Diseases	1+1	3 rd
10	PPA-516	Integrated Disease Management	2+1	3 rd
11	PPA-517	Epidemiology and Forecasting of Plant	2+1	3 rd
		Diseases		
12	PPA-518	Post Harvest Diseases	1+1	4 th
13	PPA-519	Plant Quarantine	2+0	4 th
14	PPA 591	Master's Seminar	1+0	4 th
15.	PPA 599	Master's Research	0+20	-

Ph. D. courses

Sl. No.	Course No.	Title of the course	Credit Hour	Semester
1	PPA-601	Advanced Mycology	2+1	1 st
2	PPA-602	Advanced Virology	2+1	2 nd
3	PPA-603	Advanced Bacteriology	2+1	2 nd
4	PPA-691	Seminar I	1+0	2 nd
5	PPA-604	Molecular basis of Host Pathogen Interaction	2+1	3 rd
6.	PPA-691	Seminar-I	1+0	2 nd
6	PPA-692	Seminar II	1+0	6th
7.	PPA - 699	Doctoral Research	0+45	-

Post graduate requirement:

M.Sc.(Ag) Degree: Four years B. Sc. (Ag)/(Hort) Hons. degree

Ph.D. Degree: M. Sc. (Ag) degree in Plant Pathology

Students completed degree**M. Sc. (Ag.) in Plant Pathology**

Sl. No.	Name of the student	Name of the Supervisor	Title of dissertation
1.	M. Avijeeth	Dr. A. Roy	Response to bioinoculation of Trichoderma spp. and fluorescent pseudomona for induction of biochemical defence in cabbage against Alternaria leaf spot.
2.	Sushmita Jha	Dr. S. Khalko	An integrated approach to manage the late blight of potato
3.	Suman Datta	Dr.S. Bandyopadhyaya	Studies on the blast disease of rice and its management strategies
4.	Tanmay Nag	Dr. P. M. Bhattacharya	Response of nitrogen and water management on spot blotch of wheat in north eastern plain
5.	Soumen Mandal	Prof. A. K. Choudhury	Response to spot blotch of wheat at hot spot of West Bengal
6.	Rakesh Patsa	Dr. S. Hembram	Influence of weather indices on spot blotch disease of wheat in north eastern plain zone of India

Ph. D. in Plant Pathology

Sl. No.	Name of the students	Name of the Supervisor	Title of Work
1.	M. Dolpriya Devi	Dr. P. M. Bhattacharya	Study of variation of pathogen causing spot blotch of wheat and different traits of the host related to its resistance
2.	Joyoshree Mahanta	Prof. S. K. Laha	Effect of organic production system on disease dynamics and soil health in rice based cropping system

Existing M. Sc students:

Sl. No.	Name of the Students	Name of The Supervisors	Title of work
1.	M. Asha Parimi Devi	Prof. P.M. Bhattacharya	Elucidation of defense responses in wheat against <i>Bipolaris sorokiniana</i> Shoe Maker by using non conventional chemicals
2.	Sinijadas K.	Prof. A.K. Chowdhury	Variation of <i>Bipolaris sorokiniana</i> , the causal agent of spot blotch of wheat with special reference to toxin production
3.	Pulak Bhaumik	Dr. S. Khalko	Evaluation of lentil genotypes against major diseases in North Bengal
4.	Aparajita Dhar	Dr.S. Bandyopadhyay	Qualitative and quantitative evaluation of some mushroom hybrids of <i>Pleurotus</i> sp.
5.	Abhijit Nandi	Prof. P.M. Bhattacharya	Phenotyping of wheat germplasm in relation to spot blotch resistance
6.	Manish Agrawal	Prof. A. Roy	Characterization of <i>Trichoderma</i> isolates in relation to their field performance.
7.	Rima Rai	Dr. S. Hembram	Effect of micro-climate on spot blotch disease of wheat
8.	Wangmathing R.	Prof. A.K. Chowdhury	Strategies for improvement in cultivation practices of oyster mushroom in North Bengal
9.	Somesa Ghosh	Dr. A. Debnath	Characterization and evaluation of antagonistic potential of Fluorescent <i>Pseudomonas</i> in northern plains of West Bengal

Existing Ph.D. students

Sl. No.	Name of the Students	Name of the Supervisors	Title of work
1.	Dharnendra Reang	Dr. S. Khalko	Study on fungal diseases of chilli (<i>Capsicum annum</i> L.) in northern parts of West Bengal.
2.	M. Ranjana Devi	Dr. S. Ali	Impacts of conservation agriculture on major diseases of rice and wheat under rice wheat cropping system
3.	S. Jasudasu Gompa	Prof. B.R. Sharma	Evaluation of important fungal diseases of lentil under Terai zone of West Bengal
4.	S. Chakraborty	Prof. P.M. Bhattacharya	Conservation agriculture practices in wheat: influence on microbial diversity and disease scenario.
5.	S. Baskey	Dr. S. Khalko	Variability of different isolates of <i>Sclerotium rolfsii</i> and its management.
6.	N. Chattopadhyay	Prof. A. Roy	Characterization of important foliar diseases of wheat in Eastern Gangetic Plains and factors of disease development
7.	S. Jha	Dr.S. Bandyopadhyay	Variation of rice blast pathogen in Northern parts of West Bengal and its integrated disease management.

2.2.9 Department of Soil Science and Agricultural Chemistry

Field of specialization for M.Sc. : Soil Science and Agricultural Chemistry

Ph.D.: Soil Science and Agricultural Chemistry

Post Graduate courses

M. Sc. (Ag.) courses

Course No.	Course-Title	Credit Hour	Semester
Core-Courses			
SOILS 501	Soil Physics	2+1	1 st /3 rd
SOILS 502	Soil Fertility And Fertilizer Use	2+1	1 st /3 rd
SOILS 503	Soil Chemistry	2+1	1 st /3 rd
SOILS 504	Soil Mineralogy, Genesis, Classification and Survey	2+1	2 nd /4 th
SOILS 507	Soil Biology and Biochemistry	2+1	2 nd /4 th

Course No.	Course-Title	Credit Hour	Semester
Minor/Supporting Courses			
SOILS 505	Soil Erosion and Conservation	2+1	1 st /3 rd
SOILS 506	Physical Chemistry	1+0	1 st /3 rd
SOILS 510	Soil, Water and Air Pollution	2+1	3 rd
SOILS 511	Remote Sensing and GIS Techniques for Soil and Crop Studies	2+1	2 nd /4 th
SOILS 512	Analytical Techniques and Instrumental Methods in Soil and Plant Analysis	0+1	2 nd /4 th
SOILS 514	Management of Problematic Soils and Water	2+1	2 nd /4 th
SOILS 515	Fertilizer Technology	1+0	1 st /3 rd
SOILS 516	Land Degradation and Restoration	1+0	2 nd /4 th
SOILS 591	Master's seminar	1+0	4 th
SOILS 599	Master's research	20	-

Ph. D. degree courses

Course No.	Course-Title	Credit Hour	Semester
SOILS 601	Advances in soil physics	2+0	1 st /3 rd
SOILS 602	Advance in soil fertility	2+0	1 st /3 rd
SOILS 603	Physical chemistry of soil	2+1	2 nd /4 th
SOILS 604	Soil Genesis and micropedology	2+0	2 nd /4 th
SOILS 605	Biochemistry of Organic Matter	2+0	1 st /3 rd
SOILS 606	Land Use Planning and Watershed Management	2+0	2 nd /4 th
SOILS-691	Doctoral Seminar-I	1+0	-
SOILS-692	Doctoral Seminar-II	1+0	-
	Doctoral Research	0+45	-

Post graduate requirement:

- i) **For M.Sc.(Ag) Degree:** Four years B. Sc. (Ag)/ (Hort) Hons. degree
- ii) **For Ph.D. Degree:** M.Sc (Ag) in SSAC

Students completed degree

M.Sc. (Ag) in Soil Science and Agricultural Chemistry

Sl. No.	Name of the Students	Name of the Supervisors	Title of Work
1.	Parijat De	Prof. A. Choudhury	Dynamics of aggregate associated carbon in soils under three ecologies of Northern part of W.B.
2.	Samaresh Sahoo	Prof P. Mukhopadhyay	A study to quantify nitrogen response & nitrogen use efficiency in wheat crop under different water management & tillage practice.
3.	Basabdutta Bhabai	Prof. D. Mukhopadhyay	Sorption-desorption characteristics of phosphorus in some soils of West Bengal
4.	Dibakar Ray	Dr A.K Sinha	Site specific nutrient management impact on some chemical & biological properties of soils of Coochbehar.
5.	Navneet Kr Singh	Dr G.C. Banik	Dynamics of potassium in some soils of Coochbehar districts of West Bengal
6.	Nirmal Barman	Prof P. Mukhopadhyay	Changes in status & distribution of K in wheat soil response to tillage & management under rice – wheat cropping system.

Ph.D in SSAC : Nil

Existing students

M. Sc. (Ag.) course

Sl. No.	Name of the students	Name of the Supervisors	Title of work
1.	Puspendu Naskar	Prof. A Chowdhury	Impact of topography and vegetation type on dynamics of soil carbon
2.	Subhadeep Mandal	Dr. G.C. Banik	Distribution of Boron in some soils of Cooch Behar and its effect on Cauliflower (Brassica oleracea var. Botrytis)
3.	Abhisek Sen	Prof. D Mukhopadhyay	Distribution of DTPA extractable iron in some soil series of Cooch Behar and effect of iron in spinach
4.	Mun Mun Majhi	Dr. S. Deb	Comparative soil carbon budgeting under forest and cultivated soils

Sl. No.	Name of the students	Name of the Supervisors	Title of work
5.	Deyali Roy	Dr. A.K. Sinha	Assessment of temporal change in carbon pools and carbon foot printing analysis in Rice-Wheat system in <i>terai</i> agro-ecological zone.
6.	Barnali Roy	Dr. A. Tamang	Integrated nutrient management techniques to improve yield and quality of sprouting Broccoli (<i>Brassica oleracea</i> var. <i>italic</i> Plenck) in humid sub-tropics.

Existing Ph. D students

Sl. No.	Name of the Students	Name of the Supervisors	Title of work
1.	Arjun Murmu	Prof. P Mukhopadhyay	Studies of long-term tillage and residue effect on soil carbon lability, N mineralization and crop productivity in Rice-wheat cropping systems
2.	Rakesh S	Dr. A.K. Sinha	Effect of short-term conservation agriculture on carbon dynamics in some acid alluvial soils of West Bengal
3.	Princy Takur	Prof. D Mukhopadhyay	Distribution of inorganic soil phosphorus fraction in some soil series of west bengal and maximizing the phosphorus use efficiency in summer rice (<i>oryza sativa</i>)
4.	Samresh Sahoo	Prof. P Mukhopadhyay	Studies to evaluate short-term interactive effect of tillage, different organic manure sources and chemical N fertilizer on soil fertility and biological functionality under maize grown in a Maize-Rice cropping sequence
5.	Parijat Dey	Prof. A Chowdhury	Biological and molecular characterization of <i>Azotobacter</i> isolated from different agro-ecological zones of North Bengal
6.	Basab Dutta Babai	Prof. D Mukhopadhyay	Distribution of Potassium fractions in some soil series of West Bengal and effect of potassium on yield potential of rice (<i>oryza sativa</i>)
7.	Nandini Roy	Dr. A.K. Sinha	Studies on aggregate stability and aggregate size associated carbon and nitrogen in some alluvial soils of West Bengal

2.2.10 Department of Seed Science and Technology

Field of specialization for M.Sc. and Ph.D.: Seed Science and Technology

Post Graduate courses

M. Sc.(Ag.) courses

Course No.	Course-Title	Credit Hour	Semester
Core-Courses			
SST 501	Floral Biology, Seed Development and Maturation	1 + 1	1 st
SST 502	Principles of Seed Production	2 + 0	1 st
SST 503	Seed Production in Field Crops	2 + 1	1 st
SST 506	Seed Legislation and Certification	2 + 1	1 st
SST 507	Seed Processing and Storage	2 + 1	2 nd
SST 591	Master Seminar	1 + 0	4 th
Minor/Supporting Courses			
SST 504	Seed Production in Vegetable Crops	2 + 1	1 st
SST 505	Seed Production in Flower, Medicinal, Fruits and Plantation Crops	2 + 1	1 st
SST 508	Seed Quality Testing	2 + 1	2 nd
SST 509	Seed Physiology	2 + 1	2 nd
SST 510	Seed Pathology	2 + 1	2 nd
SST 511	Seed Entomology	2 + 1	2 nd
SST 512	Seed Production in Pasture, Forage & Green Manure Crops	2 + 1	3 rd
SST 513	Seed Storage and Deterioration	1 + 1	3 rd
SST 514	Seed Marketing and Management	1 + 1	3 rd
SST 515	Emerging Trend in Seed Quality Enhancement	1 + 1	3 rd
SST 516 [@]	Data Base Management, Evaluation and Utilization of PGR	2 + 1	3 rd
SST 591	Master's Seminar	0+1	4 th
SST 599	Master's Research	0+20	-

Ph. D. courses

Course No.	Course-Title	Credit Hour	Remarks
SST 601**	Hybrid Seed Production	1 + 1	1 st
SST 602 ^{@@}	<i>In situ</i> and <i>ex situ</i> Conservation of Germplasm	2 + 1	1 st
SST 603	Testing for Genuineness and Purity of Cultivar	1 + 1	2 nd
SST 604**	DUS testing for Plant Variety Protection	2 + 1	3 rd
SST 605**	Advances in Seed Science Research	1 + 0	4 th
SST 691**	Doctoral Seminar- I	1 + 0	2 nd
SST 692**	Doctoral Seminar- II	1 + 0	6 th
	Doctoral Research	0+45	-

** Compulsory Courses; [@] Course enlisted with GPB 516; ^{@@} Course enlisted with GPB 609

Post graduate requirement

For M.Sc.(Ag) Degree:

4 years B. Sc. (Ag.) Hons/B.Sc(Hort.)Hons

For Ph.D. Degree:

M. Sc. (Ag.) in Seed Science and Technology or M. Sc. (Ag.) in Genetics and Plant Breeding/ Plant Breeding or M. Sc. (Ag.) Plant Physiology

Students completed degree

M. Sc. (Ag.) course

SI No.	Name of the students	Name of the Supervisors	Title of Work
1.	Murali H. A.	Dr.B.Roy	Morphological Observation of Many Kernelled Rice (<i>Oryzasatyva</i> L.) Seed Variety- Jugal
2.	Ranjeet Kumar	Dr.B. Roy	Evaluation of Farmers' Varieties of Rice (<i>Oryzasatyva</i> L.) Seeds for Iron and Zinc Contents
3.	GadgeSushantS undarrao	Dr.B. Roy	Priming of Rice (<i>Oryzasativa</i> L.) Seeds with different Botanical Extracts to Enhance Seedling Vigour
4.	KajalMogChoud hury	Dr.P.Dutta	Study of Brassinosteroids Induced Changes in Morpho-physiological Parameters vis-à-vis Quality of Produced Seeds in Wheat Cultivars

Existing M.Sc(Ag) students

SI No.	Name of the students	Name of the Supervisors	Title of Work
1	Rajkumari Sarita Devi	Dr.U. Maity	Study on Effect of Seed Enhancement on Early Seedling stage vis-à-vis field performance of rice (<i>Oryza sativa</i> L.)

Existing Ph.D students

SI No.	Name of the students	Name of the Supervisors	Title of Work
1.	Priyanka Sharma	Dr.B.Roy	Standardisation of Synthetic Seed Production Protocol of Endangered <i>Citrusjambhiri</i> Lush. and <i>Citrus aurantifolia</i> (Lime)
2.	Monish Roy	Dr.B. Roy	Effect of Photoperiodism on Seeds Setting of Some Farmers' Varieties of Rice (<i>Oryza sativa</i> L.)

3.0 RESEARCH ACTIVITIES

3.1 Department of Agronomy

Area of Research

Research activities of the department are concentrated on Crop Husbandry, Water Management, Weed Management, Integrated Nutrient Management, Conservation Agriculture and Crop Weather Relation.

Scholarships, Stipends and fellowships

The students are getting University Research Scholarship, Junior/Senior research Fellowship and various other merit scholarship, RGNF, Inspire fellowship every year based on their performance. Students can also pursue Ph.D. under various international or national funded projects if provisions available.

Involvement of teachers in various Research Projects:

Sl. No.	Name of the Projects/scheme and	Name of the P.I/Co. P.I/Associated Scientists	Funding Agency
1	“Gramin Krishi Mausam Sewa”	Dr. S. Bandopadhyay, Principal Nodal Officer	Ministry of Earth Science, Govt. of India.
2	“Forecasting of Agricultural Outputs Using Space, Agrometeorology and Land Based Observations (FASAL)”	Dr. S. Bandopadhyay, P.I	Ministry of Earth Science, Govt. of India.
3	Image IDGP: Image based system for identification of individual, breeds and diseases of pig and goat.	Dr. Dilip Kumar Hajra (PI)	Madia Lab Asia, New Delhi, Govt. of India
4	Socio economic upliftment of weaker section through piggery	Dr. Dilip Kumar Hajra (PI)	RKVY
5	Scientific evaluation and CB analysis of duck rearing system special emphasis to socio economic upliftment through women empowerment	Dr. Dilip Kumar Hajra (Co-PI)	Govt. of India
4	Prevalence of GI parasites of cattle in Terai zone under Institute funded project	Dr. Dilip Kumar Hajra (Co-PI)	Institutional
5	All India Coordinated Wheat and Barley Improvement Project	Dr. Biplab Mitra (Agronomist)	CIMMYT

Sl. No.	Name of the Projects/scheme and	Name of the P.I/Co. P.I/Associated Scientists	Funding Agency
6	Sustainable and Resilient Farming System Intensification	Dr. Biplab Mitra (Co-PI)	ACIAR
7	Improving water use for dry season agriculture by marginal and tenant farmers in the Eastern Gangetic Plains	Dr. Biplab Mitra (Co-PI)	ACIAR
8	Mobile E-Service Farmer Service Kiosks (MEFSK) through “Developing Innovative Agri-Entrepreneurship Roles for Young Agri-Professionals in West Bengal”	Dr. Biplab Mitra (Co-PI)	Australia-India Council
9	All India Coordinated Research Network (AICRN) on Potential Crops	Dr. Tarun Paul (In-Charge)	ICAR

3.2. Department of Agricultural Economics

Area of Research

- Crop based optimality study on agro economic regional problems using time series and cross sectional data collected from primary and secondary sources.
- Economic potentiality study of Farming system practice focusing on climate resiliency, market rationality and technological adaptation.
- Economic study of value added supply chain attributes with inter sectorial expansion.

Scholarships, Stipends and fellowships: The students are getting University Research Scholarship, Junior/Senior research Fellowship and various other merit scholarship RGNF, Inspire fellowship every year based on their performance. Students can also pursue Ph.D. under various international or national funded projects if provisions available.

On going research projects

Sl. No.	Name of the project/Schemes	Name of the P.I./Co. P.I./Associated Scientists	Funding agency
1	Understanding Farm-Household Management Decision making for Increased Productivity in the Eastern Gangetic Plains	K.K.Das (P.I.)	ACIAR, Australia (through University of Western Australia)
2	Preparation of Human Development Report in Coochbehar District	K.K.Das (P.I.)	Govt. of West Bengal
3	Sustainable and resilient farming systems intensification in the eastern Gangetic Plains (SRFSI)	K.K.Das (Co- P. I.)	ACIAR, Australia
4	Using ICT to enhance adoption of new agricultural technologies and innovations	K.K.Das (P.I.)	University of Sydney and Curtin University (ACIAR), Australia
5.	Development of innovative agri-entrepreneurship roles for young agri-professionals in West Bengal	K.K.Das (P.I.)	Australia-India Council, DFAT
6.	Enhancing Pulses Production for food and nutritional security, improved livelihoods and sustainable agriculture in West Bengal	K.K.Das (Co- P. I.)	Department of Agriculture, Govt. of West Bengal
7	Promotion of oilseed crops in Northern districts of West Bengal for livelihood security of small and marginal farmers	K.K.Das (Co- P. I.)	Dept. of Agriculture and Cooperation, Ministry of Agriculture & Farmers, Govt. of India

Sl. No.	Name of the project/Schemes	Name of the P.I./Co. P.I./Associated Scientists	Funding agency
8	Promotion of Oilseed Crops in Northern Districts of West Bengal for Livelihood Security and Marginal Farmers	G. Mula (Co- P. I.)	NMOOP, Dept. of Agriculture and Cooperation, Ministry of Agriculture & Farmer's Welfare, Government of India
9	To evaluate the bio efficacy and phytotoxicity of Carfentrazone ethyl 40% DF against weed flora in Wheat	G. Mula (Co- P. I.)	M/S Krishi Rasayan Exports Pvt. Ltd.

3.3 Department of Agricultural Entomology

Areas of research : Applied pest management of crops

Scholarships, stipends and fellowships : 3 (Rajiv Gandhi National Fellowship)

Ongoing research projects

Sl. No.	Name of the project	Name of the P.I.s/Co-PI/ Associated Scientists	Funding agency
1	Effect of some new generation insecticides of paddy.	Dr. Jaydeb Ghosh	Willowood India Limited
2	Evaluation of bio-efficacy and phytotoxicity of CCP-4620 against mites of ea	Mr. Debanjan Chakraborty	Crystal Crop Protection Pvt. Ltd.
3	Bioefficacy evaluation of Abamectin 1.9% EC against red mite, <i>Tetranychus</i> spp. and serpentine leaf miner, <i>Liriomyza trifolii</i> of tomato.	Dr. N. Laskar	Crystal Crop Protection Pvt. Ltd.
4	Bio-efficacy phototoxicity and effect on natural enemies of some new generation insecticide molecular on different crops.	Dr. J. Ghosh	Willword Chemicals Pvt. Ltd., New Delhi

Sl. No.	Name of the project	Name of the P.I.s/Co-PI/ Associated Scientists	Funding agency
5.	To evaluate the bio-efficacy and phytotoxicity of UPI-917 and UPI-1316 against insect pests of paddy	Dr. N. Laskar	UPL India Ltd.
6.	Bee keeping for upliftment of rural livelihood under northern districts of West Bengal	Dr. N. Laskar	NABARD

3.4. Department of Agricultural Extension

Areas of research:

The M.Sc. and Ph.D. students of the department are mostly doing their research in the field like indigenous knowledge, women empowerment, entrepreneurship development, disaster management, watershed management, social capital, agricultural innovation system, Impact of KVK, e-readiness in agriculture, family farming, attitude towards crop insurance, climate change perception, sustainable livelihood extension reforms and AKIS etc. under close supervision of the chairman of their advisory committee.

Scholarships, stipends and fellowships

The students of this department are availing the following scholarship and fellowship.

Rajiv Gandhi National Fellowship : 2

University Research Scholarship : 3

ACIAR-SRFSI Project Fellowship : 1

On-going research projects:

The active involvement of the faculties of the Agricultural Extension Department in various research projects of the university is really praiseworthy. They actively participate in the research projects and improve the effectiveness of these projects through their valuable consultancy regarding social aspects of the projects. Such ongoing research projects are presented below:

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
1	AIC project, Mobile E-Service Farmer Service Kiosks (MEFSK) through “Developing Innovative Agri-Entrepreneurship Roles for Young Agri-Professionals in West Bengal”	Dr. K. Pradhan (Co-PI)	AIC (Australia India Council)
2	“Enhancing Pulses Production For Food and Nutritional Security, Improved Livelihoods and Sustainable Agriculture in West Bengal”	Dr. K. Pradhan (Co-PI)	Department of Agriculture, Government of West Bengal funded
3	National Information System on Agricultural Education Network in India (NISAgNET)”	Dr. P. K. Pal Dr. K. Pradhan (Co-PI)	ICAR
4	Monitoring BGREI activities as scientist	Dr. K. Pradhan, Dr. S. Mondal (Co-PI)	ICAR
5.	“Sustainable Resilient Farming System Intensification in Eastern Gangetic Plains”	Dr. K. Pradhan (Co-PI)	Australian Centre for International Agricultural Research (ACIAR)
6.	“ Improving dry season agriculture for marginal and tenant farmers in the Eastern Gangetic Plains through conjunctive use of pond and groundwater resources”	Dr. K. Pradhan (Co-PI)	Australian Centre for International Agricultural Research (ACIAR)

3.5. Department of Agricultural Statistics

Areas of research

Applied fields of Econometrics, Statistical Modeling and Forecasting, sample survey, remote sensing and GIS, Design of Experiment.

On-going research projects

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
1.	Time Series Analysis of Data on Area, Production & Productivity of Cereal & Pulse Crops of Terai Agroclimatic Zone of West Bengal	Dr. S. Basak (P.I.)	Institutional
2.	Sustainable Resilient Farming System Intensification in Eastern IGP.	Dr. A. Ghosh (Co-PI)	DFAT-ACIAR
3.	Development of innovative agri- entrepreneurship roles for young agri- professionals in West Bengal	Dr. A. Ghosh (Co-PI)	AIC (Australia India Council)
4.	Enhancing Pulses Production for Food and Nutritional Security, Improved Livelihoods and sustainable Agriculture in West Bengal	Dr. A. Ghosh (Co-PI)	ICARDA
5.	Long term time series analysis of data on area, production and productivity of oil seed crops and meteorological parameters (Temperature, Rainfall and Sunshine hour) of Terai Agro-climatic zones of West Bengal	Dr. A. Ghosh (P.I.)	Institutional
6.	Image IDGP-Image based identification of individual, breed and diseases of pigs and goat	Dr. M. K. Debnath (Co-P.I.)	Ag & Food Division of Information Technology Research Academy (ITRA) under Ministry of Communication and Information Technology, Govt. of India

3.6. Department of Biochemistry

Areas of research

Biochemistry

Biochemical analysis of indigenous crop plants with special reference to enzymology, lipid biochemistry, chemical biology. Molecular functioning of plant defense pathways during biotic and abiotic stresses.

Agricultural Chemicals

Degradation and metabolism studies of pesticides Pesticide residue analysis

Scholarships, stipends and fellowships

University Merit scholarship (M. Sc.) : 1

University Research Scholarship (M. Sc.) : 2

Swami Vivekananda Merit Scholarship: 1

Ongoing research projects

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
1.	Residue studies of some pesticides in different crops	Prof. G.K. Pandit	Willowood Chemicals Pvt. Ltd.
2.	Establishment of plant tissue culture unit for research, training, and commercial quality planting material production at UBKV	Dr. N. Sahana	Institutional
3.	Generation of elite disease free planting material of turmeric through micropropagation and its distribution among tribal farmers of terrain plain of West Bengal	Dr. N. Sahana	Department of Science and Technology, GoI
4.	In vitro mass multiplication and conservation of some endangered citrus species of NEH region of India	Dr. N. Sahana	Department of Biotechnology, GoI
5.	Seed potato (minituber) production and commercialization in northern plains and hilly region of West Bengal	Dr. S. Mondal Dr. N. Sahana	RKVY
6.	Promotion of oilseeds crops in northern districts of West Bengal for livelihood security of small and marginal farmers.	Dr. S. Mondal	NMOOP

3.7. Department of Genetics and Plant Breeding

Areas of research

The faculty members are actively involved in various research programme sponsored by different funding agencies. Given the location of the university in the *Terai* region of West Bengal, the research activities are primarily directed to sort out the available problems of agriculture in this region and also based on anticipatory approaches the research programme are set out by the faculty members. The major areas of research are enumerated below:

- Collection, evaluation and screening of mungbean and cowpea genotypes against biotic and abiotic factors.
- Collection, evaluation and screening of brinjal genotypes against bacterial wilt and fruit and shoot borer in eastern India.
- Quality seed production in pulses (lentil, black gram and mungbean).
- Collection, evaluation and maintenance of germplasms of crops including aromatic rice, wheat, mustard, jute and allied fibres, pegen pea, spices(ginger and turmeric), mung bean, brinjal and urd bean.
- Collection, characterization of ginger germplasm.

Ongoing research projects

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
1.	“Collection, characterization, in-situ and ex-situ conservation of rice of North-Eastern India including the areas under jurisdiction of the University”	Dr. S.K. Roy (Co-PI)	Institutional
2.	ICARDA-GoWB Project on ‘Enhancing Pulse Production for Food and Nutritional Security, Improved Livelihoods and Sustainable Agriculture in West Bengal”	Dr. A.Sarkar (Co-PI)	Department of Agriculture, Government of West Bengal
3.	“Creation of Seed Hubs for increasing indigenous production of Pulses in India” under NFSM to be implemented by ICAR-IIPR, Kanpur being the Nodal Agency	Dr. Arup Sarkar (Nodal Officer)	NFSM, Govt. of India
4.	“A study on exploration, characterization and conservation of brinjal (<i>Solanum melongena</i> L.) germplasm in Eastern India”	Dr. Arup Sarkar (P I)	AICRP –Vegetable Crop (Voluntary Centre)

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
5.	“A study on exploration, characterization and conservation of brinjal (<i>Solanum melongena</i> L.) germplasm in Eastern India”	Dr. Arup Sarkar, (P.I.) Dr. Lakshmi Hijam (Co-PI)	Institutional
6.	“Promotion of oilseed crops in Northern Districts of West Bengal for livelihood security of small and marginal farmers”	Dr. Suvendu Kumar Roy (Co-P.I.)	NMOOP
7.	“Studies on bioefficacy and phytotoxicity of homobrassinolate (0.04%) in tea and rice”	Dr. Moumita Chakraborty (Co-PI)	Godrej Agrovet Ltd.
8.	Seed potato (mini tuber) production and commercialization in northern plains of West Bengal”	Dr. Moumita Chakraborty (Co-PI)	RKVY
9.	“Generation of elite, disease free planting material of turmeric through micro-propagation and its distribution among tribal farmers of terrain plain of West Bengal”	Dr. Moumita Chakraborty (Co-PI)	Department of Science and Technology (DST), Govt. of India

3.8. Department of Plant Pathology

Areas of research

- Identification, ecological adaptiveness and management approaches of disease problems in different crops.
- Development and identification of disease resistant varieties of different crops.
- Development of diagnostic tools for disease resistance in different crops.
- Conservation agriculture and disease dynamics in climate resilient agriculture
- Biological control of plant pathogens and refinement in mass production technology of the bioagents.
- System approach in potential use of microbial inoculants for promotion of organic cultivation in the region.
- Evaluation of newly released chemical fungicides for their potential against different pathogens.
- Strain development and refinement in technology for mushroom cultivation.

On going research projects

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
1.	Bio-efficacy and phytotoxicity study of WCPL6060 against blast(<i>Pyricularia oryzae</i> Cavara) & blight disease in paddy crop.	Dr. S. Bandyopadhyaya (PI)	Willowood Chemicals Pvt. Ltd.
2.	Evaluation of bioefficacy, phytotoxicity and residue of Cyazafamid 34.5%SC on potato and tomato crop.	Dr. S. Hembram	Krishi Rasayan Export Pvt. Ltd.
3.	To evaluate the bio-efficacy and Phytotoxicity and residue analysis of Tricyclazole 75% WP on paddy.	Dr. S. Khalko	Agro Life Science Corporation
4.	Study on Bio Efficacy, Phytotoxicity and residue analysis of some Herbicides & Chemicals in tea and non – cropped area.	Dr. S. Bandyopadhyaya (Co-PI)	Willowood Chemicals Pvt. Ltd.
5.	Bio-efficacy, Phytotoxicity and effect on natural enemies of some new generation insecticide molecules on different crops.	Dr. S. Bandyopadhyaya (Co-PI)	Willowood Chemicals Pvt. Ltd.
6.	Spot blotch of wheat: delivering resistant wheat lines and diagnostics and molecular markers for resistance.	Prof. A. K. Chowdhury (PI)	CRP, CGIAR
7.	Increasing food legumes production by small farmers to strengthen food and nutrition security through adoption of improved technologies and governance within south-south cooperation.	Prof. A. K. Chowdhury (PI)	OCPF, Morocco and ICARDA

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
8.	Sustainable and resilient farming systems intensification in Gangetic Plains.	Prof. A. K. Chowdhury (PI)	ACIAR
9.	Enhancing Pulses Production for Food and Nutritional Security, Improved Livelihoods and Sustainable Agriculture in West Bengal.	Prof. A. K. Chowdhury (PI)	ICARDA-GOWB
10.	Survey of pest and diseases of medicinal plants in West Bengal.	Dr. S. Hembram (Co-PI)	NMPB, Ministry of AYUSH, Govt. of India
11.	Evaluation of new fungicides offering better chemical management of plant diseases.	Prof. A. Roy (PI)	Syngenta India Ltd.
12.	To evaluate the Bio-efficacy and phytotoxicity and residue analysis of Iprodion 50% WP against sheath blight disease in rice.	Dr. S. Hembram (PI)	Krishi Rashayan Exports Pvt. Ltd.
13.	Development of a PCR based virus detection system for solanaceous vegetables in North Bengal.	Dr. S. Khalko (Co-PI)	Institutional
14.	Exploration of the Soil microbial diversity of different agro-ecological zones of North Bengal for Agricultural use.	Dr. S. Hembram (PI)	Institutional

3.9. Department of Seed Science and Technology

Areas of research

- Isolation distance requirements in view of GM varieties
- Review of seed certification standards
- GOT –seasonal requirements
- Genetic purity vis-a-vis trait purity
- Enhancement of pollen viability, stigma receptivity and seed setting
- Reduction of processing losses
- Alternate areas / protected cultivation methods for hybrid seed production
- Standardizing processing needs in high value crops and forage grasses
- Protein and oil content in GM cotton seed and its effect on longevity
- Optimization of hybrid seed production technology in field crops, vegetables and flowers
- Pollen collection methods and viability testing
- Management of seed borne diseases with biocontrol agents
- Seed enhancement for unfavorable conditions
- Identification of markers for hybrid confirmation and genetic purity testing GM seed testing
- Seed testing protocols and seed standards for forage crops, medicinal species and spices
- Molecular control of seed viability, vigour and invigoration
- Standardizations of priming, coating and pelleting technologies
- Development of technologies for maintenance of parental lines of SI and MS based hybrids
- Any other location specific problems

Ongoing research projects

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
1.	To evaluate the effect of Triacontanol 0.1% EW on yield and it's phytotoxic effect in relation to health on tea bushes	Dr. Puspendu Dutta (P. I.)	Godrej Agrovet Ltd., Mumbai
2.	Retrieval of biophysical parameters in Buxa tiger reserve using GISAT	Dr. Puspendu Dutta (Co-P.I.)	SAC, Indian Space Research Organization
3.	Evaluation of the effect of ASL- Seaweed+ Humic GR on	Dr. Puspendu Dutta (Co-P.I.)	Acandian Seaplants Limited,

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s/ Associated Scientists	Funding agency
	growth and yield of paddy		Canada
4.	<i>In vitro</i> mass- multiplication and conservation of some endangered <i>Citrus species</i> of NEH Region of India	Dr. Bidhan Roy (Co-P.I.)	DBT, GoI
5.	Tribal Sub Plan under MEEGA-SEED Project (dissemination seed production technology among the tribal farmers)	Dr. Bidhan Roy (Co-P.I.)	ICAR- IISS, Mau, UP
6.	All India Coordinated Rice Improvement Project (Volantary Centre)	Dr. Bidhan Roy (P.I.)	ICAR, IIRR, Hyderabad
7.	University Research Mandate on Rice	Dr. Bidhan Roy (P.I.)	Institutional

3.10. Department of Soil Science and Agricultural Chemistry

Areas of research :

- Sustaining soil productivity through integrated nutrient management under different cropping systems and agro-climatic zones;
- Tillage and crop residue management in crop production;
- Impact of climate change on soil processes and water resources;
- carbon sequestration in the context of climate change;
- Micronutrient management in soils for higher crop productivity;
- Site specific nutrient management in rice-wheat and rice-maize cropping system;
- Use of remote sensing and GIS technique to identify spatial and temporal variability in soils.

Scholarships, stipends and fellowships

Rajiv Gandhi National Fellowship by Universities Grant Commission (UGC) for Post Graduate students.

Ongoing research projects

Sl. No.	Name of the project	Name of the P.I.s/ Co P. I.s	Funding agency
1.	Retrieval of Biophysical Parameters in Buxa Tiger Reserve using GISAT	Dr. S. Deb (PI)	SAC, ISRO
2.	Enhancing Pulses Production for Food and Nutritional Security, Improved Livelihoods, and Sustainable Agriculture in West Bengal.	Dr. A. Tamang (Co-PI)	ICARDA-GoWB
3.	Sustainable and resilient farming systems intensification in the eastern Gangetic Plains	Dr. A.K. Sinha (Co-PI)	ACIAR
4.	Optimising nutrient use efficiency under zero tillage operations in Rice - Maize cropping system in Coochbehar and Maldadistrict of West Bengal.	Dr. A.K. Sinha (PI)	International Plant Nutrient Institute (IPNI)
5.	To evaluate the bio-efficacy and phytotoxicity of GPH-315 against weed flora in tea	Dr. A. Tamang (Co-PI)	UPL
6.	Efficacy of Superabsorbent (Zeba) and Zeba coated Urea and DAP on plant N & P contents, growth and yield traits & yield of Mustard crop under field conditions.	Dr. A. Tamang (PI)	UPL, Pvt. Ltd.
7.	To evaluate the bio-efficacy and phytotoxicity of Iprodione 50% WP against sheeth blight disease in rice	Dr. A. Tamang (Co-PI)	Krishi Rasayan Exports Pvt. Ltd.

4.0. EXTENSION ACTIVITIES

4.1. Department of Agronomy

The department imparts training on vermicompost production and conservation agriculture for practicing farmers and some leading farmer's clubs of the district. The faculty members of the department participated in various extension activities organised by State Department of Agriculture, State Department of Agriculture Marketing, State Department of Forest, KVK and ongoing research project as resource persons.

4.2. Department of Agricultural Economics

The department mainly provides full resource support to conduct training by other unites of the University on specialized subject jurisdiction from farmers to executive level.

4.3. Department of Agricultural Entomology

- i. Organises farmers training programmes under different project activities.
- ii. Prepare and distribute literatures on improved plant protection among the farming communitites under different project activities.
- iii. Advisories to the farmers are regularly being provided to the farming communities with regard to plant protection and allied aspects.

4.4. Department of Agricultural Extension

- i. The department is rendering the advisory services through the extension staff working in the Directorate of Extension Education. The faculties of the department are also actively involved in the University extension activities conducted through the Directorate of Extension Education and Krishi Vigyan Kendra.
- ii. Dr. K. Pradhan is the Editor of the UBKV Newsletter published by the Directorate of Extension Education, UBKV.
- iii. Dr. P.K.Pal is the Editor of the University Bulletin "Uttarer Krishi Katha" published by the Directorate of Extension Education, UBKV.

4.5. Department of Agricultural Statistics

- i. Teachers are attached with several multidisciplinary research and extension mode projects running in the University and funded by different sponsoring agencies.
- ii. Under the mandate of those projects teachers are extensively involved in farmer's training, on farm trial, data collection and statistical analysis and interpretation of the data accrued from the village level farmers' fields.

4.6. Department of Genetics and Plant Breeding

- i. Farmers' Training Programme on Quality Seed Production in Jute under TSP.
- ii. Farmers' Training Programme on Quality Seed Production in Maize under TSP.
- iii. Farmers' Training Programme on Quality Planting Material Production in Anthurium and Gerbera under DBT project on Biofarming.
- iv. Training of ADAs under the Department of Agriculture, Govt. of West Bengal.

4.7. Department of Plant Pathology

- i. On farm plant protection advisory services.
- ii. Proper diagnosis of disease problems communicated from farmers' end or government level.
- iii. Capacity building of machinery service providers for use of modern agricultural implements used in conservation agriculture.
- iv. Training to the farmers on appropriate crop husbandry protocols under conservation agriculture.
- v. Training on modern techniques in plant disease management.
- vi. Exposure to develop field knowledge on identification and preservation of diseases samples for UG students from different nearby colleges of North Bengal districts.
- vii. Supply of microbial agents for promotion of organic cultivation.
- viii. Training (Certificate course) on appropriate use of biofertilizers and biocontrol agents.
- ix. Training (Certificate course) on mushroom spawn production and cultivation.
- x. Supply of quality spawn to the mushroom growers.

4.8. Department of Seed Science and Technology

- i. Seed Production through Farmers' Participatory mode
- ii. Training on seed production technologies of major field crops of northern part of West Bengal
- iii. Organizing trainings on Quality Seed Production of Field Crops under Tribal Sub Plant of MEGA-SEED Project, UBKV, Pundibari
- iv. Formation of Self-help Group / Farmers' Society very involved in Quality Seed Production to develop the village based seed enterprises

4.9. Department of Soil Science and Agricultural Chemistry

- i. Provide Resource Persons for Seminars, Symposia, Workshops / AIR / Doordarshan programmes;
- ii. Provide Resource Persons for farmers training and trainers training for Government nodal department and NGOs'.
- iii. Field visit to problem areas as a part of the Multi- Disciplinary Diagnostic Team for the Department of Agriculture, Government of West Bengal;
- iv. Provide expertise trainings in soil testing and fertilizer recommendations.
- v. Provide expertise for the Disaster management team of the Terai region;
- vi. Undertaking consultancy services in needed areas.

4.10. Department of Biochemistry

- i. Organise farmer's training programme on modern cultivation strategies of specific crops

5.0 INFRASTRUCTURE FACILITIES

Infrastructure is an important component and plays an important role in learning environment. Infrastructure like building, classrooms, laboratories and equipment always add value in teaching and learning process. There is no doubt that high quality infrastructure always facilitates better instruction, improves students concentration and hence their outcome. Departmentwise infrastructural facilities are being mentioned hereunder :

5.1. Department of Agronomy

Classroom

- One UG classroom with capacity of 100 students equipped with LCD projector, white screen and CCTV.
- One PG classroom available in the department with capacity of 35 students.

Laboratory

- One functional laboratory for conduction of UG practical classes.

Equipment / Instruments

- Visible spectrophotometer, pH-meter, Hot air oven, Double distillation set, Analytical balance, Flame photometer, Conductivity meter, Centrifuge, Grinder, Nitrogen analyser.

5.2. Department of Biochemistry

Classroom

- One PG class room equipped with AC and audio-visual aids.

Laboratory

- The department is having one well equipped UG laboratory
Two PG-cum-research laboratories (Biomolecules Laboratory and Pesticides Laboratory and one dedicated Instrumentation Facility)

Equipment and Instruments

- UV-VIS Spectrophotometer, Cold Centrifuge, PCR, Protein Electrophoresis Unit, Western Apparatus, Refrigerator (-20 degree), Refrigerator (normal), Microwave Oven, Laminar Airflow, Agarose Gel Electrophoresis Unit, PAGE Unit, Dry Bath, Gel Transfer Unit, pH Meter, BOD Incubator, Shaker Incubator, Rotary Vacuum Evaporator, Hot Air Oven, Precision Balance

(Electronic), Low Speed Centrifuge, Hot Plate, Magnetic Stirrer, Electrical Shaker, Plant Grinder, Water Baths (ordinary & thermostatic), Ultrasonic Bath, Soxhlet Extraction System, Vortex Shaker, Tissue Homogenizer, Melting Point Apparatus, UV Visualization Chamber (for TLC).

5.3 Department of Genetics and Plant Breeding

Classroom

- One PG classroom available in the department with capacity of 35 students.

Laboratory

- One functional laboratory for conduction of UG practical classes.

Equipments/Instruments

- pH –meter, Hot- Air –Oven, Water Bath, Double distillation Unit, Cold Centrifuge, Analytical Balance, Vertical Gel Apparatus, Horizontal Gel Apparatus, Vortex -Mixture, Vertical- Autoclave, Laminar Air Flow Cabinet, Deep Freeze, Magnetic stirrer, BOD, Hot Air Blower, Micro-Oven, De-Humidifier, Spectrophotometer, Compound Microscope, Simple Microscope

5.4. Department of Entomology

Classroom

- One PG classroom available in the department with capacity of 35 students.

Laboratory

- One functional laboratory for conduction of UG practical classes. In addition to that Insect one Taxonomy laboratory, one Biocontrol laboratory is also functioning under the Department.

Equipments/ Instruments

- Simple dissecting microscope, Stereozoom trinocular microscope, Stereozoom binocular microscope, Research microscope, slide projector, Image Analyser, LCD Projector, Freezer, BOD incubator, Hot Air Over, Laminar Air Flow, Soxhlet, Distillation unit, Sprayer, Duster, Insect collection and preservation, display equipment, Insect/natural enemies rearing cages, appliances, Electronic weighing machine, Microtome, Computers, Still and video camera, Computers, Laptop, Printer, Scanner, and Accessories.

5.5. Department of Plant Pathology

Classroom

- One PG classroom available in the department with capacity of 15 students and with facility of Audio Visual aid and AC.

Laboratory

- One functional laboratory for conduction of UG practical classes with capacity of 35 students.

Instruments

- Microscope, trinocular microscope with photographic attachment, laminar air flow, autoclave (vertical and horizontal), BOD incubator, shaker incubator, refrigerator, deep freeze (800C), spectrophotometer (visible range and UV vis), single and double distillation, hot air oven, precision balance, pH meter, seed dryer, seed germinator, hot water bath, gel apparatus, vortex mixture, solid and liquid state fermentor, industrial mixer, grinder, ion analyser, SPAD meter.

5.6. Department of Agricultural Extension

Classroom

- One PG classroom available in the department with capacity of 35 students.

Laboratory

- One functional laboratory for conduction of UG practical classes.

Instruments

- Slide Projector, Overhear Projector, Epi-diascope, Direct Projector, LCD Projector, Digital Visualiser, Interactive Board with Display Panel, Plotter, Digital hybrid camera, Digital camera

5.7. Department of Agricultural Statistics

Classroom

- One UG classroom is present in the department with capacity of 80 students.
- One PG classroom is also available in the department with capacity of 35 students.

Laboratory

- One functional laboratory for conduction of UG practical classes.

Instruments

- Desktop computers and projector

5.8. Department of Agricultural Economics

Classroom

- One PG classroom is available in the department with capacity of 35 students.

Laboratory

- One functional laboratory for conduction of UG practical classes.

Equipments/ Instruments

- Desktop computers, Laptop, Handycam

5.9. Department of Seed Science and Technology

Classroom

- One PG classroom is available with capacity of 35 students

Laboratory

- Using the classroom of Department of Genetics and Plant Breeding for PG Classes

Instruments

- Double distillation Unit, Thermostatic water bath, Refrigerator, Bench top conductivity meter, Compound microscope, Weighing Balance, Seed Divider, Seed Germinator, seed Grinder, Illuminated Purity Work Board, Computerised Seed Counter, seed Blower, Digital Moisture Meter. Hot Air Oven, Seed Sampling Trier, Deep Freezer

5.10. Department of Soil Science and Agricultural Chemicals

Classroom

- One PG classroom is available in the department with capacity to accommodate 35 students.

Laboratory

- Department is having separate laboratories for U G and P G students
- Department also has Research Laboratory for doing independent research
- One full-fledged computer room is present in the department

Instruments

Bench top conductivity /TDS/Temp meter, Spectrometer with Universal Cell Holder 10 mm upwards to 100 mm, pH meter, Kel Plus Scrubber System, Macro Block Digestion System, Nitrogen Stabilizer, Refrigerator with stabilizer, Spectrophotometer, Centrifuge R-24.R-23, pH system, Flame photometer, Conductivity meter, BOD, Rotary vacuum pump with desiccators, Muffle furnace, Oven, Distil Water Plant (glass made)

5.11. Instructional Farm infrastructure and facilities

Permanent Infrastructure for Agriculture Instructional Farm Building with all facilities:

- i) Building Area for Agriculture: 2200 sq. ft. each.
- ii) Facilities availabilities :
 - a) Store Room :- 10' × 12'
 - b) Assistant Director of Farm Office :10' × 12'
 - c) Agril. Overseer / Field Assistant room : 10'×12'
 - d) Open space for labour requisition : 25' × 25'

Instructional Farm Area: 25 acre

Boundary wall and two gates of the instructional farm have been renovated recently in 2017-18.

Ponds for Pisciculture and Integrated Farming Structure

- i) Area of 2 nos. of ponds for pisciculture : 2666 sq. mt. each
- ii) Area for Cattle & Bird shed: 3000 sq. mt.

A. Instruments, Implements, Tools and others items (List enclosed)

Sl. No.	Particulars	Quantity	Location
1.	½ HP Tulu pump, with tank	1 set	Farm Office (Ag.)-
2.	2 HP single phase Kirlosker electric operated mono block pump, KDS-212LV, 1) Sl.No.: AIXAWB6547 2) SL. No.: AIXAWB6716	2 nos	GODOWN – LEFT-5
3.	3 HP Kirlosker Pump For Drip Irrigation	9 nos	GODOWN – Right- 4
4.	Peg type dry land weeder (3 row)	3 nos	GODOWN – LEFT-1
		8 nos	Farm Office (Ag.)-

Sl. No.	Particulars	Quantity	Location
5.	4 HP light weight Kirlosker pump machine with 25 mt. suction & delivery pipe, Type VA 320-2		
	Engine No. –	2 nos	Godown (Fuel)
	1. N11.1001/1026635		
	2. N11.1001/1026627		
	Engine No. -	2 nos	SHED -2
	1. Engine No. - N11.1001/1026647		
	2. Engine No. – 1101939		
6.	Banki	35nos	Farm Office (Ag)-
7.	Belcha	1 no	Godown (Room No-7-8)
8.	Belcha	3 nos	Farm Office (Hort.)
9.	Belcha (Falcon)	3 nos	Godown (Room No2)
10.	Bill hook (Falcon)	17 nos	Godown (Room No2)
11.	Blower vacuum cleaner, Oleo Mac, BV 300	2 nos	GODOWN – LEFT-5
12.	Bulb planter (FPWB/21)	4	Farm Office (Hort.)
13.	Bush Cutter (HONDA, UMK435T)	1	Farm Office (Hort.)
14.	Bush cutter, Mruyama, NE500	3 nos	GODOWN – LEFT-5
15.	CAS Korea Electronic Digital Platform weighing balance (Model: DZ(111) with S.S., platform size 500 x 500 mm, cap. 200 Kg x list count 20 gm.	1 no	SHED -2
16.	Chain Saw, Oleo Mac	1 no	GODOWN – LEFT-5
17.	Chain Saw, Oleo Mac (CYBT/50)	3 nos	GODOWN – LEFT-5
18.	Cono wheel (Red)	21 nos	Godown (Room No2)
19.	Cultivator (Tractor operated), 11 blades	3 nos	Threshing floor
20.		2 nos	Farm Office (Ag)-
21.	Digging fork (Falcon)	12 nos	Godown (Room No2)
		1 no	GODOWN – Right-2
		2 nos	Farm Office (Ag)-
22.	Dutch hoe	3 nos	Godown (Room No2)
		2 nos	Farm Office (Ag)-
23.	Edging knife	4 nos	Godown (Room No2)
24.	Fruit catcher with handle (Alluminium)	3 nos	Godown (Room No2)
25.	Garden rack	64 nos	Godown (Room No2)
26.	Grass cutter long handled	3 nos	Godown (Room No-5)
27.	Hand cultivator	3 nos	Godown (Room No2)
28.	Hand Hoe, 3 tyne, bamboo handled	8 nos	Godown (Room No2)
29.	Hand ridger for women	31 nos	Shed-1
30.	Hand seed dibbler	8 nos	Godown (Room No2)

Sl. No.	Particulars	Quantity	Location
31.	Hand spade (small), (Falcon)	3 nos	Godown (Room No2)
32.	Hand Trolley, Iron made one wheel	1 no	Cattle Shed
33.	Hand tyne, (small) (Falcon)	3 nos	Godown (Room No2)
34.	High pressure power spray Hose pipe	1 no	Room No – 3 (FA office)
35.	Hand sprayer	2 nos	Farm Office (Ag)
36.	Hand Tyne for line sowing	5nos	Farm Office (Ag)
37.		1 roll	Farm Office (Ag)-
38.	Iron Ladder double table type	1 no	Godown Seed Grader
39.	Iron made Trolley	1 no	SHED -2
40.	Khurpa, small, Falcon	3 nos	Farm Office (Ag)-
41.	Khurpi (Hand made)	14 nos	Farm Office (Ag)-
42.	Long reach pruner	6 nos	Godown (Room No2)
43.	Micro sprinkler system with complete micro sprinkler accessories. 6149 sqmt.		SHED -2,
44.	Motor, 2 HP Crompton (KCG 20359) for chap cutter	1 no	Cattle Shed
45.	Multi-crop plot thresher	1 no	Godown (Room No-4)
		2 nos	Godown Seed Grader
		1 no	Shed-1 (KVK)
46.	Onion hoe, Falcon	3 nos	Godown (Room No2)
		2 nos	Farm Office (Ag)-
47.	Paddle Paddy Thresher	1 no	Shed-1
48.	Paddy panther, CLAAS	1 no	Seed Storage Godown
49.	Paddy Weeder (Green)	19 nos	Godown (Room No2)
50.	Paddy Weeder (black)	2 nos	Farm Office (Ag)-
51.	Pedal cum power operated seed cleaner with motor	3 nos	Godown (Room No-4)
52.	Pedal cum power operated seed cleaner without motor	3 nos	Godown (Room No-4)
53.	Pneumatic planter	2 nos	Godown (Room No-6)
54.	Power chap cutter with belt and accessories	1 no	Cattle Shed
55.	Power Reaper (Paddy Cutter), KAMCO Model: KRI20M		
	Engine No. G1K7037264	1 No	Shed-1
	Chassis No. – KR11112757		
	Engine No. G1K7037227	1 No	
	Chassis No. – KR11112742		
56.	Power tiller		

Sl. No.	Particulars	Quantity	Location
	(KAMCO)Engine No. 21013180 Chassis No. - 32013186	1 no	Godown (Room No-3)
	(Sigma)Engine No. 002008 Chassis No. – Model -SPI8V2EL	1 no	Godown (Room No-3)
	(KAMCO)Model – KMB- 200/ER-90, with tool kit, Engine No. 2111113818 Chassis No. - 3211114759	1 no	Godown (Room No-3)
57.	Power tiller auger digger (1 yellow + 1 green)	2 nos	Godown (Room No-6)
58.	Power tiller mounted sweep cultivator, 3 row	5 nos 1 no	Godown (Room No-4) Godown (Room No-5)
59.	Power tiller operated seed cum fertilizer drill, 6 row	2 nos 2 nos	Godown (Room No-5) Shed-1
60.	Power tiller operated seed cum fertilizer drill, 3 row	1 no	Godown (Room No-5)
61.	Power tiller operated till plant machine	3 nos	Godown (Room No-4)
62.	Pump machine, Honda WBK30, 2.28 kw/3600 rpm	1 no	GODOWN – LEFT-5
63.	Pump WBK30, HONDA	1 no	GODOWN – LEFT-1
64.	Plastic Drum	2 nos	Farm Office (Ag)-
65.	Ret	1 no	Farm Office (Ag)-
66.	Rack without handled	6 nos	GODOWN – LEFT-1
67.	Rack	5 nos	Farm Office (Ag)-
68.	Rice Huller, (REX, Reg. No.: 196552)	1 set	Godown (Room No-7-8)
69.	Rose cutter (RUCHI)	4 nos	Farm Office (Hort.)
70.	Rotovator, 30 blades, for SHAN Tractor	1 no	Shed-1
71.	Rotovator, 52 blades (26 x 2)	1 nos	Threshing floor
72.	Rotovator, 54 blades (9 x 6)	1 no	Threshing floor
73.	Rotovator, 66 blades (11 x 6)	2 nos	Threshing floor
74.	Rotovator, 72 blades (12 x 6)	1 no	Threshing floor
75.	Round digger	1 no	GODOWN – LEFT-1
76.	Seed Dryer (BATCH Type) Model – BD-1. Sl. No. BD-1/	1 no	Godown Seed Grader
77.	Seed Germinator, INDOSAW (single chamber) Cat. No. 6784	1 no	Seed Storage Godown
78.	Seed Grader AGROSAW Model – Delux – EX SI No – DX/1019/04	1 no	Godown Seed Grader
79.	Seed Grader AGROSAW, Model: Seed Master, Sl. No.: SM/445/12	1 no	Seed Storage Godown
80.	Seed planter	1 no.	Godown (Fuel)

Sl. No.	Particulars	Quantity	Location
81.	Semi axial flow thresher with motor (SAF-750, CIAE, Bhopal)	3 nos	Shed-1
82.	Sickle Hand made	35nos	Farm Office (Ag)-
83.	Spade with nirani Falcon,	2 nos	Farm Office (Ag)-
84.	Spade with rack (2), Falcon	2 nos	Farm Office (Ag)-
85.	Spade with handle	1 no	GODOWN – LEFT-1
		25 nos	Farm Office (Ag)-
86.	Sprayer 14 ltrs ASPEE , Marut	3 nos	GODOWN – LEFT-5
87.	Sprayer 6 ltr ASPEE , Marut	6 nos	GODOWN – LEFT-5
88.	Sprayer ASPEE HDP Power with Honda WBK30, Pump machine, 2.28 kw/3600 rpm	1 set	GODOWN – LEFT-5
89.		1 no	GODOWN – LEFT-5
		1 no	Farm Office (Ag)-
90.	Sprayer Foot ASPEE, Maruti	2 nos	GODOWN – LEFT-5
		3nos	Farm Office (Ag)-
91.	Sprayer Power, HONDA GX25,4Strock, 50 lit.	2 nos	SHED -2
92.	Sprayer V-DyutDelux, ASPEE, Battery operated sprayer (16 lits) ,	4 nos	GODOWN – LEFT-5
93.	Sprayer, 16 liter ASPEE NPSAK	2 nos	GODOWN – LEFT-1
		2 nos	GODOWN – LEFT-5
		4 nos	Farm Office (Ag)-
94.	Tractor : Mahindra Arjun Ultra 605 DI Engine No. NMU-1393 Chassis No. – XK08 Regd. No. – WB-63/4385	1 no	Model Ramie Farm, Shed-1
	Engine No. NMU-737 Regd. No. – WB-63/4184	1 no	Mega Seed Project, Shed-1
	Tractor: Mahindra SHAN Engine No. NSS-2791 Chassis No. - NSS-2791 Regd. No. – WB-63/4410	1 no	Mega Seed Project Shed-1
95.	Tractor operated inclined plate planter – 6 row	4 nos	Godown (Room No-5)
96.	Tractor operated lug Wheel Puddler	2 nos	Shed-1
97.	Tractor operated Mole plough	3 nos	Threshing floor
98.	Tractor Operated precision plot drill – 6 row	2 nos	Godown (Room No-6)
99.	Tractor drawn peg type puddler	2 nos	Godown (Room No-5)
100.	Thinning scissor	2 nos	Godown (Room No2
101.	Trolley 2 wheeler	2 nos	Threshing floor

Sl. No.	Particulars	Quantity	Location
102.	Trolley Four wheeler	1 no	Threshing floor
103.	Trolley Hydraulic system 2 wheeler	1 no	Threshing floor
104.	Trolley, one wheel (Sinhala)	4 nos	Godown (Room No2)
		2 nos	Farm Office (Hort.)
		2 nos	Farm Office (Ag)-
105.	Wheel Barrow	2 nos	GODOWN – LEFT -1 (Blue)
		4 nos	Farm Office (Ag)-
		1 no	Shed-1
106.	Wheel hoe	1 no	Shed-1
		4nos	Farm Office (Ag)-
107.	Wheel hoe (blue)	7 nos	Godown (Room No2)
108.	Wheel hoe (old)	1 no	GODOWN – LEFT-1
109.	Wheel seed dibbler	5 nos	Godown (Room No2)
110.	White lined Sealed Machine (Bag Closer)	1 no	Godown Seed Grader
111.	Wooden make plough	3 nos	Farm Office (Hort.)
		8nos	Farm Office (Ag)-
112.	Zero Till Drill, 6 row	1 no	Shed-1
113.	Zero Till Drill, 9 row	1 no	Godown (Room No-5)

- All farm implements and tools had been procured under ICAR SEED PROJECT (MSP) and Modernization of Farm

B. Irrigation facilities available in the Agricultural and Horticultural Farm :

Submersible Pump installed in a Pump House

Sl. No.	Items	Location
1.	15 HP submersible pump	North East Corner of the Farm near Angarkata
2.	7.5 HP submersible pump	East (middle) of the Farm
3.	7.5 HP submersible pump	North Corner of the Farm near Agril. Farm Office

C. List of M.Sc. and Ph.D. programme conducted in the year 2017-18 under Agriculture Instructional Farm

Sl. No.	Title of the Experiments	Name of the students	Departments
1.	Effect of Nutrient Management in Rice	Basab DuttaBhabi, M.Sc.	Soil Science & Ag. Chemistry
2.	Response of Boron(B) to the cauliflower (Rabi)	Subhadeep Mandal, M.Sc.	SSAC
3.	Effect of Iron (Fe) in Spinach (Rabi)	Abhishek Sen, M.Sc.	SSAC
4.	Screening for Cowpea & green gram genotypes for biotic and Abiotic stresses (Rabi)	N. Umamheswar, M.Sc.	GPB
5.	Effect of irrigation level and N sources on chemical and biological properties of Soil & yield, water & nutrient use efficiencies in maize crop.	Samaresh Sahoo, Ph.D.	SSAC
6.	“Evaluation of Wheat varieties under various lates of sowing (Rabi)	BidusiTripathy , M.Sc.	Agronomy
7.	Seasonal Incidence and Management of Sugarcane Insect pest.	Anil Kumar, Ph.D.	Agril. Entomology
8.	Experiment on Potato Germplasm Screening of Potato collected from North Bengal (Rabi)	Bodeddula Jayasankar Reddy, M.Sc.	GPB
9.	Effect of Irrigation and Method of Weed Management on yield of Wheat (Rabi)	Suchitra Roy, M.Sc.	Agronomy
10.	Pest constraints of cabbage and their Management (Rabi)	Amit Rout , M.Sc.	Agril. Entomology
11.	Effect of maize-green gram intercropping under different date of sowing	Kousik Nandi, M.Sc.	Agronomy
12.	Evaluation of lentil genotypes against major diseases in North Eastern plain (Rabi)	Pulak Bhaumik, M.Sc.	Plant Pathology
13.	Genetics response to aphid colony proliferation in Brassica sp	Albina Gurung, M.Sc.	GPB
14.	Evaluation of herbicides for control of BLW in Wheat (Rabi)	Roni Barman, M.Sc.	Agronomy
15.	Integrated nutrient management techniques to improve yield and quality of sprouting Broccoli (Brassica oleracea var. <i>ItalicaPlenk</i>) in humid sub-tropics.	Barnali Roy, M.Sc.	SSAC

Sl. No.	Title of the Experiments	Name of the students	Departments
16.	Evaluation of germplasm of Brinjal for yield & Resistance to bacterial Wilt & Fruit & Shoot borer. (Rabi)	Aparajita Das, Ph.D.	GPB
17.	Cultivation of Brinjal for Bacterial resistance (Rabi)	Susmita Jha, Ph.D.	Plant Pathology
18.	Effect of photo periodism on the flowing of farmer's variety of Rice.	Manish Roy, Ph.D.	SST
19.	Fungal infestation of the crops to be grown.	Miss Poulami Sil, Ph.D.	Biochemistry
20.	Evaluation of growth and yield performance of different Potato cultivars and influence of varying fertilizer levels on Processing type varieties (Rabi)	Santanu Das, Ph.D.	Agronomy
21.	Studies on planting Geometry and effect of varying levels of nutrients as top dressing on late Planted Potato.	Shirshendu Samanta, Ph.D.	Agronomy
22.	Studies of potassium on different Potato varieties (Rabi)	Manorama Bahera, M.Sc.	Agronomy
23.	Yield maximization in Zero tillage Wheat using nutrient expert with N splitting and lodging Management	Triptesh Mondal, Ph.D.	Agronomy
24.	Nitrogen management on Wheat based on NDVI sensor and its residual Effect on Rice	Prantick Singha, Ph.D.	Agronomy
25.	Bio-ecology of Rice Weevil on Rice in Terai Region of West Bengal	Supriya Okram, Ph.D.	Agril. Entomology
26.	Studies on vitro and ex-vitro root and shoot response to phosphate deficiency in Indica Rice of North Bengal and their validation with molecular market	Bilin Maying, Ph.D.	GPB
27.	Character association studies in advance population of mustard in biotic & Abiotic stresses	Bijaya Sur, M.Sc.	GPB
28.	Variability of different isolates of sclerosiumrolfsi and its management on stem rot disease	Sibdas Baskey, Ph.D.	Plant Pathology
29.	Distribution of inorganic phosphorous in some Soil series of North Bengal and maximizing Phosphorous use efficiency in Summer rice	Princy Thakur, Ph.D.	SSAC
30.	Study on Wheat & Rice intercropping	JithuRavinder, Ph.D.	SSAC

Sl. No.	Title of the Experiments	Name of the students	Departments
31.	Studies of long term tillage and Residue effect on Soil carbon lability nitrogen mineralization & crop productivity in Rice Wheat system.	ArjunMurmu, Ph.D.	SSAC
32.	Evaluation of rice genotype for yield and quality parameter (Boro)	Anjan Roy, M.Sc.	GPB
33.	Study on brassinosteroides induced changes in morph-physiological parameters vis-a-vis quality of produced in Wheat cultivars.	KajalMogChaudhury, M.Sc.	SST
34.	Field screening of different brinjal genotypes against Root-knot nematodes under Teria ecological conditions of West Bengal	Ajit Kumar Sahu, M.Sc.	Agril. Entomology
35.	Studies on Stability of Mustard (Rabi)	Supratim Sadhu, M.Sc.	GPB
36.	Screening of Chilli& Tomato Variety for leaf curl infection (Rabi)	Poulami Sil, M.Sc.	Biochemistry
37.	Effect of various organic measures and Plant Products on Pest infecting Brinjal.	T. Mamatha, M.Sc.	Agril. Entomology
38.	Validation of resistant trials against spot blotch if Wheat.	Abhijit Nandi, M.Sc.	Plant Pathology
39.	Integrated nutrient management on boro rice.	Sanjit Singh Ashem, Ph.D.	Agronomy
40.	Effect of zinc on Maize in Terai Zone at West Bengal.	Arju Sahid Ahmed, M.Sc.	Agronomy
41.	Soil quality assessment of Wheat rice cropping system.	Nandini Roy, Ph.D.	SSAC
42.	Evaluation of Wheat Germplasm	Yendluri Elijah Prabhanth, M.Sc.	Genetics & Plant Breeding

Besides the above, the Department of Agril. Entomology, Agronomy and Seed Science developed their crop museum/ group plots/ varietal blocks for field practicals of the students at the instructional farm.

Photograph related with Agriculture Instructional Farm



5.12 Status report on the Central Instrumentation Centre, UBKV (2017-18)

The Central Instrumentation Centre was established in the year 2006-07 with the financial assistance from the Indian Council of Agricultural research (ICAR) with the broad objective of having sophisticated and high precision equipment under one umbrella so as to ensure easy accessibility of such facilities by the teachers and scientists and also to cater to the needs of the hour as far as their research mandate is concerned. Since its inception the following instruments as listed below have been procured at different phases and they have been housed according to their scientific requirement.

List of Instruments under Central Instrumentation Centre (CIC), UBKV, Pundibari, Cooch Behar

SI No	Name of Instrument	Make
1	Atomic Absorption Spectrophotometer [AAS] Model: Aanalyst 200 WithFlow Injection Analysis System [FIAS]Model: 100	Perkin Elmer
2	Auto Clave	Sonnu
3	Centrifuge [Table Top Refrigerated] [Model:3K30]	Sigma
4	CHNOS Analyzer [Model: Vario EL-III]	elementar, GmbH
5	Color Quest XE	Hunter Lab
6	Dissolve O2 Meter [Model: SG6]	Mettler Toledo
7	Electrophoresis Unit	BioRad
8	Elisa Reader	Bio Rad
9	Fermentor [Model: Bioflo 110]	New Brunswick Scientific
10	Flame Photometer	Systronics
11	Fourier Transform Infrared Spectroscopy [FTIR]	Brooker Optics
12	Fruit Pressure Tester	Allcat Instruments
13	Gel Doc System	Bio Rad
14	Halogen Moisture Meter [Model: HB 43]	Mettler Toledo
15	High Performance Liquid Chromatography [HPLC] With Refractive Index [RI] Detector UV-Visible Detector and Florescence Detector.	Waters
16	High Precession Weighing Balance [2 nos.]	Mettler
17	Ice Flaking Machine	Blue Star
18	Incubator Shaker [Refrigerated] [Model:C24KC]	New Brunswick Scientific
20	Infrared Gas Analyzer [IRGA]	CID, Inc.
19	Lyophilizer Micro Modulo	Thermo Fisher Electronic
21	Microtome (Model: RM 2125 RT)	Leica
22	Nitrogen Analyzer & Digestion Unit	FOSS

Sl No	Name of Instrument	Make
23	Particle Delivery System (Model:PDS1000/He Biolistic)	Bio Rad
24	PCR (i-Cycler)	Bio Rad
25	Refractometer [Model: RE 40D]	Mettler Toledo
26	Rotary Vacuum Evaporator	Labline Appliances
27	Rotary Vacuum Evaporator	IKA ,Germany
28	Solvent extraction system [automatic][Model: SOCS Plus]	Pelican
29	Texture Analyzer	Stable Micro System
30	Thermal Property Analyzer [Model: KD2Pro]	Decagon Devices
31	Ultra Low Temperature Freeze [-80°C]	New Brunswick Scientific
32	Ultra Speed Centrifuge [Model: SORVAL]	Thermo Fisher Scientific
33	Ultrasonic Homogenizer	Bandelin SONOPLUS
34	UV-Visible Spectrophotometer [Model: Lambda 25]	Perkin Elmer
35	Viscometer	Brook Field
36	Water Activity Meter	Aqua Lab
37	Water Bath [Rectangular]	Lunar
38	Water Purifying System	Millipore

- **Analysis of Soil Micronutrient for issuance of ‘Soil Health Card’ had also been successfully carried out by the Centre during the period.**

Impact of fund Utilization:

During the last plan period the Centre has also been upgraded with state of the art infrastructural facilities and an annex complex has also been established primarily with the aim of catering the biotechnological analysis. The instruments are being looked after by the trained personnel assigned to each of the instruments and the analysis range from estimation of carbon, nitrogen, arsenic and other metals to pesticide residue and other biomolecular monitoring.

Currently the facility is being used by the teachers and scientists and the researchers as well from all the three faculties for various objective oriented dissertation and research activities.

The instruments are being used to provide analytical solution to many research endeavour which are directed towards sorting out of the region specific farmers’ centric problems and are likely to utilized to a far greater extent, given the horizon of anticipated research intervention in the context of the mandate of the university. The list is mentioned below along with their prime analytical utility.

- **Laboratory Visitors 2017-18**

Sl. No.	Name of the visitors	From
01	JAHNOBI BARTHATUR	CPGS,CAU, BARAPOANI
02	TAGI NABUM	CPGS,CAU,BARAPOANI
03	MRS. JAYA DAS	PGT
04	HEMEN BISWAS	A.B.N. SHIL COLLEAGE, ZOOLOGY DEPTT.
05	DR. S.K. NAG	PRINCIPAL SCIENTIST, ICARCIPRI,BUP
06	DR. P. C. RATH	PRINCIPAL SCIENTIST, NRRI
07	DR. V. N. REDDY	PRINCIPAL SCIENTIST, NRRI
08	DR. PRATAP BHATTACHARYYA	ICAR,NRRI,CUTTAK
09	TH. SARJUBALA DEVI	B. Sc. STUDENT, CAU,BARAPANI
10	DR. S. C. DATTA	Examination Section, IARI.
11	DR. TAPAS KUNDU	Professor, JNCASR

- **Instrument User List in the Central Instrumentation Centre [CIC], UBKV, PUNDIBARI, COOCH BEHAR-736 165, WEST BENGAL, INDIA**

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters
1	MRINAL KANTI MONDAL	SOIL SCIENCE & AGRICULTURAL CHEMISTRY	ATOMIC ABSORPTION SPECTROPHOTOMETER [AAS] Model: AAnalyst 200 with FLOW INJECTION ANALYSIS SYSTEM [FIAS]Model: 100	Identification of different elements present in a given liquid sample at ppb level depending on the availability of Hollow Cathode Lamp [HCL] & <u>Electrodeless Discharge Lamp</u> [EDL] [at present measure elements are Zn, Cu, Fe, Mn, Pb, Cd, Cr, Ni, As, Hg, Se]
2	SANJAY KUMAR ROY	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
3	NANDINI SARKAR	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
4	ARIJIT PATRA	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
5	NABAKISHOR N	PLANT PATHOLOGY		
6	SHUBHRA SAMAT	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
7	AMIYA BISWAS	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
8	SHARMME GOGAI	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
9	N.SATHI BABU	BIOTECH		
10	SHARMME GOGOI	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
11	SOURAV MAITY	GENETICS & PLANT BREEDING		
12	Dr. D. MUKHOPADHYAY	QUALITY CONTROL LABORATORY		
13	Miss RESHMI.RAJ.K.R	AICW&BIP		
14	RAKESH S	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
15	KOYEL DEY	PROMOLOGY & POST HARVEST TECHNOLOGY		
16	SOUAV HAZARI	GENETICS & PLANT BREEDING		

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/ Parameters
17	PINKY D	VEGETABLE SCIENCE		
18	RINKU DAS & SOURAV CHAKRABORTY	CENTRAL INSTRUMENTATION CENTRE [CIC]		
19	BIDYAPATI NGANGOM	AGRONOMY		
20	AUGUSTINA SAHA	AGRONOMY		
21	RAJIB PATI	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
22	SEFAUR RAHAMAN	AGRONOMY		
23	ABHIJIT MAHATO	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
24	Dr. AMRIT TAMANG	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
25	NABAKISHORE NONGMAITHEM	PLANT PATHOLOGYGY		
26	DR. G.C.BANIK	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
27	SAYAN CHOUDHURY	BIOTECH		
28	RAVI KUMAR	VEGETABLE SCIENCE		
29	BIDYAPATI NGANGA	AGRONOMY		
30	KSHOUNI DAS	VEGETABLE SCIENCE		
31.	SANDIP DEBNATH	SOIL SCIENCE & AGRICULTURAL CHEMISTRY	CHNOS ANALYZER Model: Vario EL III	Determination of percentage of C, H, N, O, S composition of a given solid sample. Also determination of empirical formula
32.	Dr. ABHAS Kr. SINHA	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
33.	INDRAJIT SARKAR	FLORICULTURE		
34.	SHUBHRA SAMAT	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
35.	ANJALI KUMARI	FORESTRY		
36.	Dr. SOUVIK DEB	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
37.	Dr. SHOVIK DEB	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
38.	PRAKASH RAI	FORESTRY		
39.	BIPLAV CHANDRA SARKAR	FORESTRY		
40.	Dr. G C BANIK	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
41.	ARJUN MURMU	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
42.	MR.DIPANKAR PAL	DEPUTY REGISTER		
43.	ANANDA SINHA	AGRONOMY		
44.	KOYEL DEY	PROMOLOGY & POST HARVEST TECHNOLOGY		
45.	DR.MEENAL RATHORE	ICAR-DWR		
46.	Dr. SOMSUBHRA CHAKRABORTY	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
47.	RAJIB POTI	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
48.	BISWESWAR MAHATO	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
49.	Dr. P.P.CHAUDHURY	BIOCHEMISTRY		
50.	RAKESH S	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters
51.	ARJUN MURMUH	SOIL SCIENCE & AGRICULTURAL CHEMISTRY	CENTRIFUGE [TABLE TOP REFRIGERATED] Model: 3K30	Separation of different components of a given liquid sample using RCF. Model: 3K30 implies upto 3000 RPM with [-]20°C to [+]40 °C with liquid volume 1.5 ml to 30 ml.
52	ANARUL HOQUE	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
53	SWAPAN BISWAS	FORESTRY		
54	TANUSRI DEY	FORESTRY		
55	SAYAN CHOUDHURY	BIOCHEMISTRY		
56	MUNMUN MAJHI	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
57	P. SURATH KUMAR	FORESTRY		
58	PARIJAT DE	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
59	DIPAK KR. SINHA	AGRICULTURAL ENTOMOLOGYMOMOLOGY		
60	Dr. NANDITA SAHANA	BIOCHEMESTRY		
61	ROSHNA GAZMER	AGRICULTURAL ENTOMOLOGYMOMOLOGY		
62	APARAJITA DAS	GENETICS & PLANT BREEDING		
63	Dr. HUSSAIN ALI MONDAL	GENETICS & PLANT BREEDING		
64	OLIVA SAHA ROY	BIOTECH		
65	S. MUKHOPADHAYAY	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
66	ARIJIT PATRA	BIO TECHNOLOGY		
67	AKAN DAS	BIO TECHNOLOGY		
68	SOURABHI DHAR	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
69	PARIMAL PANDA	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
70	NABA KUMAR BISWAS	PLANT PATHOLOGY		
71	BAPLANT PRAMANIK	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
72	BIPARA SARKAR	AGRICULTURAL TECHNOLOGYNOMOLOGY		
73	SUSMITA JHA	PLANT PATHOLOGY		
74	BILIN MAYANG	GENETICS & PLANT BREEDING		
75	KAUSHIK DUTTA	FMAP		
76	AMIT KOHAL	FMAP		
77	ARGHYA BAGCHI	AGRICULTURAL TECHNOLOGYNOMOLOGY	WATER ACTIVITY METER	Determination of percentage of water present in a tissue slice.
78	SAZEDA BEGAM	AGRICULTURAL TECHNOLOGYNOMOLOGY		
79	SEVONO	PROMOLOGY & POST HARVEST TECHNOLOGY		
80	Dr. P.K.PAUL	PROMOLOGY & POST HARVEST TECHNOLOGY		
81	ARGHYA MANI	PROMOLOGY & POST HARVEST TECHNOLOGY		
82	NILESH BHOUMICK	PROMOLOGY & POST HARVEST TECHNOLOGY		
83	BABLU PAUL	GENETICS & PLANT BREEDING		
84	PRIYAM CHATTOPADHAYAY	PROMOLOGY & POST HARVEST TECHNOLOGY	UV-VISIBLE SPECTROPHOTOMETER	
85	PARTHA SARATHI PATRA	AGRONOMY	Model: Lambda	
86	SEKHAR	PLANT PATHOLOGY	25	

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters
	BANDYOPADHYAY			with time drive, wavelength programme, concentration, real time scan parameters The wave length range 190 nm to 1100 nm. Practically measure Absorbance value [Abs], Optical Density [OD] value in a specific wavelength is measure.
87	SAURABH PRADHAN	PROMOLOGY & POST HARVEST TECHNOLOGY		
88	KOYEL DEY	PROMOLOGY & POST HARVEST TECHNOLOGY		
89	ARKENDU GHOSH	PROMOLOGY & POST HARVEST TECHNOLOGY		
90	NIYAT THAPA	PROMOLOGY & POST HARVEST TECHNOLOGY		
91	RANJIT KUMAR	SEED SCIENCE & TECHNOLOGY		
92	AUGUSTINA SAHA	AGRONOMY		
93	KSHOUNI DAS	VEGETABLE SCIENCE		
94	SUSHMITA SUBBA	VEGETABLE SCIENCE		
95	DR.PRODYUT KR.PAL	PROMOLOGY & POST HARVEST TECHNOLOGY		
96	DR.SOMNATH MONDAL	BIOCHEMISTRY		
97	ROSHNA GAZMER	AGRICULTURAL ENTOMOLOGY		
98	RAVI KIRAN	HORTICULTURE		
99	SOURAV MAITY	GENETICS & PLANT BREEDING		
100	APARAJITA DAS	GENETICS & PLANT BREEDING		
101	T.K.MODAL	BIOCHEMISTRY		
102	OLIVIA SAHA ROY	BIO TECHNOLOGY		
103	AKAN DAS	BIO TECHNOLOGY		
104	ARPAN GUHA MAJUMDER	BIO TECHNOLOGY		
105	A.K.GUPTA	BIO TECHNOLOGY		
106	PRANAY BANTAWA	BIO TECHNOLOGY		
107	MAINAK MUKHOPADHYAY	BIO TECHNOLOGY		
108	TANUJ DEBBARMAN	AGRICULTURAL ENTOMOLOGY		
109	VIJAY KR.S	VEGETABLE SCIENCE		
110	GAYATHI	FLORICULTURE		
111	DINESH	GENETICS & PLANT BREEDING		
112	BIDYAPATI Ng	AGRONOMY		
113	SAYAN CHOWDHURY	BIO CHEMISTRY		
114	P.VENKATORAO	AGRICULTURAL ENTOMOLOGY		
115	PRANALI BHAI SAH	VEGETABLE SCIENCE		
116	UMESH DEB	AGRICULTURAL ENTOMOLOGY		
117	UJJOL RAI	VEGETABLE SCIENCE		
118	SUPRIYA OKHRAM	AGRICULTURAL ENTOMOLOGY		
119	SWARNAVO CHAKRABORTY	VEGETABLE SCIENCE		

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters		
120	BIRESHWAR KUNDU	AGRICULTURAL ENTOMOLOGY				
121	SANTANU DAS	AGRONOMY				
122	Dr. N SHIT	ANIMAL SCIENCE				
123	AJIT KUMAR SAHA	AGRICULTURAL ENTOMOLOGY				
124	V. PRASANNA	PROMOLOGY & POST HARVEST TECHNOLOGY				
125	S.S. SHARMA	GENETICS & PLANT BREEDING				
126	PRACTICAL DEMONSTRATION	BY DR, HUSSAIN ALI MONDAL, GENITICS & PALNT BREDDING				
127	MINGMA OIKI SHERPA	FMAP				
128	V.S.S.V.PRASANNA	PROMOLOGY & POST HARVEST TECHNOLOGY	SOLVENT EXTRACTION SYSTEM [AUTOMATIC] SOCS PLUS	Extraction of oil or fatty acids from a sample instantly, by placing the sample in cellulose thimble, heating it in a suitable organic solvent and cooling the volatile gas through a water chiller [condenser]. Basically it the modified version of Soxhlet system.		
129	RAKESH S	SOIL SCIENCE & AGRICULTURAL CHEMISTRY				
130	N.SATHI BABU	BIOTECH				
131	ARADHANA SEN	VEGETABLE SCIENCE				
132	BIJAYA SUR	GENETICS & PLANT BREEDING				
133	SIDDHARTHA SANKAR SHARMA	GENETICS & PLANT BREEDING				
134	LOKNATH SHARMA	AGRONOMY				
135	ANANDA SANKAR SINHA	AGRONOMY				
136	RAKESH S	SOIL SCIENCE & AGRICULTURAL CHEMISTRY				
137	KOYEL DEY	PROMOLOGY & POST HARVEST TECHNOLOGY				
138	ARADHANA SEN	VEGETABLE SCIENCE				
139	DR. PRODYUT KR. PAUL	PROMOLOGY & POST HARVEST TECHNOLOGY				
140	DR. G.K.PANDIT	BIOCHEMISTRY			HIGH PERFORMATI ON LIQUID CHROMATOGRAPHY [HPLC] WITH REFRACTIVE INDEX [RI] DETECTOR & UV-VISIBLE DETECTOR	Identification of different organic molecules present in a given liquid sample sugar, pesticide and proteins. Also purity check of organic solvent can be done with it.
141	T.DHAT	AGRICULTURAL ENTOMOLOGY				
142	MANGOOR A.ANSARI	BIOCHEMISTRY				
143	KOYEL DEY	PROMOLOGY & POST HARVEST TECHNOLOGY				
144	ARKENDU GHOSH	PROMOLOGY & POST HARVEST TECHNOLOGY				
145	SAYAN CHOWDHURY	BIOCHEMISTRY				
146	KUMARESH PAL	BIOCHEMISTRY				
147	P. ASHA DEVI	PLANT PATHOLOGY				
148	SUMAN MANNA	BIOCHEMISTRY				
149	SAYAN CHOUDHURY	BIOCHEMISTRY				
150	ROSHNA GAZMER	AGRICULTURAL ENTOMOLOGY				
151	UMESH DEB	AGRICULTURAL ENTOMOLOGY	REFRACTO METER	Determination of RI value any matter by signature notches determination. Especially TSS.		

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters
152	RAVI KIRAN	VEGETABLE SCIENCE		
153	Dr. H.A. Mondal	RRS-TZ		
154	SOMASHEKAR	VEGETABLE SCIENCE		
155	BABLU PAUL	PROJECT-HAM		
156	PRATIK SAHA	PROJECT-HAM		
157	ROSHNA GAZMER	AGRICULTURAL ENTOMOLOGY		
158	SOMASHEKAR	VEGETABLE SCIENCE		
159	AUGUSTINA SAHA	AGRONOMY	HIGH PRECISION BALANCE	Measuring accurately minute quantities up to four & five decimal places of any matter.
160	KOYEL DEY	PROMOLOGY & POST HARVEST TECHNOLOGY		
161	ROSHNA GAZMER	AGRICULTURAL ENTOMOLOGY		
162	Dr. UTPAL MAITY	SEED SCIENCE & TECHNOLOGY		
163	Dr. HUSSAIN ALI MONDAL	RRS-TZ		
164	UMESH DEB	AGRICULTURAL ENTOMOLOGY		
165	BABLU PAUL	PROJRCT-HAM		
166	SANJAY K.P	VEGETABLE SCIENCE		
167	PRATIK SAHA	PROJECT-HAM		
168	KAMAL DAS	DBT		
169	BUDDHADEB DAS	GENETICS & PLANT BREEDING		
170	BIPLAB SHARMA	FORESTRY		
171	RANJIT PAL	PROMOLOGY & POST HARVEST TECHNOLOGY		
172	BIPASA SARKAR	BIO TECHNOLOGY		
173	OLIVA SAHA ROY	BIO TECHNOLOGY		
174	SANGITA MEHLA	PROMOLOGY & POST HARVEST TECHNOLOGY		
175	SANDEEP DEBNATH	GENETICS & PLANT BREEDING		
176	DR.AMARENDRU DEY	FORESTRY		
177	SOURABHI DHAR	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
178	RATUL BARMAN	GENETICS & PLANT BREEDING		
179	NIRMAL SARKAR	PLANT PATHOLOGY		
180	SUBRATA DUTTA	BIOTECHNOLOGY		
181	NARAYAN DEB	FORESTRY		
182	SAMIR DEY	AGRICULTURAL TECHNOLOGYNOLOGY		
183	NIYAT THAPA	PROMOLOGY & POST HARVEST TECHNOLOGY		
184	J.SARKAR	GENETICS & PLANT BREEDING		
185	PRAKASH RAI	FORESTRY		
186	DEBAYAN MONDAL	BIOCHEMISTRY		
187	VIJAY KUMAR	VEGETABLE SCIENCE		
188	SOURAV HAZARI	GENETICS & PLANT BREEDING		
189	BABLU PAUL	TC PROJECT-H.A.M		

WATER PURIFICATION SYSTEM
[Millipore]

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters
190	PRATIK SAHA	TC PROJECT-H.A.M		
191	AKON DAS	PLANT PATHOLOGY		Cell culture creating a standard
192	S.S.MAHESH	BIOCHEMISTRY	INCUBATOR SHAKER [REFRIGERATED]	conditions
193	BAPLANT PATHOLOGY PARMANIK	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		applying controlled
194	TAPAN KUMAR MONDAL	BIOAGRICULTURAL TECHNOLOGY		rotational movement
195	Dr. NANDITA SAHANA	BIOCHEMISTRY		duration and
196	BILING MAYANG	GENETICS & PLANT BREEDING		temperature
197	BASABDUTTA VHABAI	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
198	PRIYAM CHATTOPADYAY	PROMOLOGY & POST HARVEST TECHNOLOGY	HALOGEN MOISTURE METER	Determination of moisture percentage
199	SANTANU DAS	AGRONOMY		
200	S. CHAKROBORTY	CIC		
201	PRANALI BHASIS	VEGETABLE SCIENCE		
202	SUBHANKAR SARKAR	K V K		
203	ARADHANA SEN	VEGETABLE SCIENCE		
204	PRANAY BAMTAWA	PLANT PATHOLOGY		Preparation of ice flakes
205	RAMKRISHNA SARKAR	VEGETABLE SCIENCE		instantly. Used for preservation
206	Dr. NANDITA SAHANA	BIOCHEM		of DNA, RNA and other
207	BILING MAYANG	GENETICS & PLANT BREEDING	ICE FLAKING MACHINE	molecules which may be
208	GAYATHI Kh.	FLORICULTURE		disintegrate in ambient
209	SWARNAJIT DEBBARMA	GENETICS & PLANT BREEDING		temperature.
210	DEBAYAN MONDAL	BIOCHEMISTRY		
211	MANAS MANDAL	FMAP		
212	SOURAV MAITY	GENETICS & PLANT BREEDING		
213	POULAMI SIL	BIOCHEMISTRY		
214	SAYAN CHOUDHURI	BIOCHEMISTRY		
215	JESUDAS GOMPA	PLANT PATHOLOGY		
216	ABHIJITH.M	PLANT PATHOLOGY		
217	SOUMEN MONDAL	PLANT PATHOLOGY		
218	ROSHNA GAZMER	AGRICULTURAL ENTOMOLOGY		
219	BIRESHWAR KUNDU	AGRICULTURAL ENTOMOLOGY		
220	SUBMITA JHA	BIOCHEMISTRY		
21	ROSHNA GAZMER	AGRICULTURAL ENTOMOLOGY	ROTARY VACUUM	Concentration of pesticide residue samples at low
222	SHUBHRA SAMAT	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters
223	ARJUN MURMU	SOIL SCIENCE & AGRICULTURAL CHEMISTRY	EVAPORATOR	temperature
224	APARAJITA DAS	GENETICS & PLANT BREEDING	(Labline appliances & Buchi)	
225	RAKESH S	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
226	S.S.MAHESH	BIOCHEMISTRY		
227	SINIJUDAS K	PLANT PATHOLOGY		
228	BISWAJIT MAJUMDER	CIC		
229	MANIDEPA CHOWDHURY	AGRICULTURAL ENTOMOLOGY	ROTARY VACUUM EVAPORATOR	Concentration of pesticide residue samples at low temperature
230	BIPASA SARKAR	AGRICULTURAL TECHNOLOGY	(Labline appliances & Buchi)	
231	Dr. N.LASKAR	AGRICULTURAL ENTOMOLOGY		
231	KOYEL DEY	PROMOLOGY & POST HARVEST TECHNOLOGY		
233	ARKENDU GHOSH	PROMOLOGY & POST HARVEST TECHNOLOGY		
234	ROCKY J	PTC		
235	SANJIB PRADHAN	GENETICS & PLANT BREEDING	MILLIPORE	Preparation of purest form of water devoid of any clay particles, ions etc. This HPLC grade of water is used to prepare lab solutions. Normally the water thus created is ten times distillation product. Here, membrane filtration of water is done followed by RO and ions removal activities.
236	ARPITA DEY	FISHERY		
237	ANJALI KUMARI	FORESTRY		
238	UBALT LEPCHA	FORESTRY		
239	KALYAN DEY	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
240	SAMIK DAS	AGRICULTURAL TECHNOLOGYNOLOGY		
241	PRITAM KARMAKER	FORESTRY		
242	PRAKASH RAI	FORESTRY		
243	BILING MAYING	GENETICS & PLANT BREEDING		
244	SUPRIYA CHAKRABORTY	GENETICS & PLANT BREEDING		
245	GAYATRI JH	GENETICS & PLANT BREEDING		
246	SWARNAJIT DEBBARMAN	GENETICS & PLANT BREEDING		
247	MADHUMITA SONOWAL	AGRICULTURAL ENTOMOLOGY	NITROGEN ANALYZER	
248	BIPLAB SHARMA	FORESTRY	Determination of available & total nitrogen and proteins.	
249	BISWESWAR MAHATO	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
250	SAURABHI DHAR	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
251	RAJIB PATI	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
252	GOPAL SHUKLA	FORESTRY		
253	BAPLANT PATHOLOGY PRAMANIK	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
254	Dr. ABHAS KR.SINHA	SOIL SCIENCE & AGRICULTURAL CHEMISTRY		
255	Dr. Arup Sarkar	GENETICS & PLANT BREEDING	MICROTOME	Preparation of

SL. NO.	NAME OF THE PERSONS	TEACHERS & STUDENTS OF THE DEPARTMENT	USED INSTRUMENT	Purpose/Parameters
256	Olivia Saha Roy	BIO TECHNOLOGY		uniform slide of any tissue upto five micron thickness.
257	Mainaak Mukhopadhyay	BIO TECHNOLOGY		
258	Akan Das	BIO TECHNOLOGY		
259	Pranay B	BIO TECHNOLOGY		



6.0. FACULTY AND STAFF POSITION

Faculty and other staff play a massive role in delivering a world class student experience both inside and outside the classroom. An educational institute with great faculty and dedicated staff makes it a wonderful journey for the students and build not only their character but transforms them into a good and successful human beings.

6.1 Department of Agronomy

Head of the Department : Dr. Asok Saha, Professor

Faculties of the Department

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1.	Dr. A. K. Singha Roy Professor	Crop Husbandry	Dept. of Agronomy, UBKV, Pundibari-736165 Cooch Behar Mobile:+91-9434685854 Email:aksroyubkv@rediffmail.com
2.	Dr. Asok Saha Professor	Crop Husbandry & NRM	Dept. of Agronomy, UBKV, Pundibari-736165 Cooch Behar Mobile:+91-9434116906 Email: asok.ubkv@gmail.com
3.	Dr. S. Bandyopadhyay Professor	Crop Husbandry and Crop weather relations	Dept. of Agronomy, UBKV, Pundibari-736165 Cooch Behar Mobile:+91-9434126763 Email:baneerjees_ubkv@rediffmail.com
4.	Dr. B. Mitra Asstt. Professor	Crop Husbandry, RCTs, Cropping system research	Dept. of Agronomy, UBKV, Pundibari-736165 Cooch Behar Mobile:+91-9434502292 Email:bipmitra@yahoo.com
5.	Dr. Tarun Pal Asstt. Professor	Crop Husbandry	Dept. of Agronomy, UBKV, Pundibari-736165 Cooch Behar Mobile:+91-8759580947 Email:tarun.bckv@gmail.com
6.	Dr. D. K. Hazra Asstt. Professor	Poultry Science	Dept. of Agronomy, UBKV, Pundibari-736165 Cooch Behar Mobile:+91-7063102355 Email:dhajra@gmail.com

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2.	Dr. Partha Sarathi Patra Assistant Professor	Crop Husbandry and Organic Farming	Regional Research Station (Terai Zone), UBKV, Pundibari- Cooch Behar-736165 Mobile : 9933347123 Email : parthaagro@gmail.com
3.	Dr. Shyamal Kheroar Assistant Professor	Oilseed, pulse and fibre crops, cropping system, farming system, nutrient management	AINP Jute and Allied Fibre, UBKV, Pundibari- Cooch Behar- 736165 Mobile : 9474846416 Email: : kheroarshyamal@gmail.com /ubkvainpjaf@gmail.com

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3.	Shri. Rajkumar Roy Laboratory Attendant	Department of Agronomy, UBKV, Pundibari, Coochbehar, West Bengal 736165 Mobile : +91-8670734157
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6.2. Department of Biochemistry

Head of the Department : Professor G. K. Pandit

Faculties of the Department

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2.	Dr. S. Mandal Assistant Professor	Enzymology, Chemical Biology	Dept. of Biochemistry, UBKV, Pundibari-736165 Cooch Behar Mobile : +91-9679353881 E-mail: smandal8183@gmail.com
3.	Dr. (Mrs.) N. Sahana Assistant Professor	Molecular Biology, In vitro propagation	Dept. of Biochemistry, UBKV, Pundibari-736165, Cooch Behar E-mail: nanditasahana@gmail.com

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2.	Mr. Shyamlal Sutradhar Lab. Attendant	Dept. of Biochemistry, Uttar Banga Krishi Viswavidyalaya, Pundibari-736165, Cooch Behar, West Bengal Mobile :

6.3. Department of Agricultural Extension

Head of the Department : Dr. K. Pradhan

Faculties of the Department

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2.	Dr. K. Pradhan Associate Professor	Agricultural Communication	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Mobile : 9434686707 Email: kausikextnubkv@gmail.com
3.	Dr. (Mrs.) S. Mondal Assistant Professor	Rural Development	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Mobile : 9903164890 Email: sabidas_2007@rediffmail.com
4.	Ms. Deepa Roy Assistant Professor	Agriculture Communication, Training	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Mobile : 9474061644 Email: roydeepa87@gmail.com
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3.	Mr. Chitta Ranjan Anjoy Jr. Peon	Dakshin Kalarayear Kuthi, P.O-Pundibari Dist- Cooch Behar Pin-736165 Mobile : 9735045292

6.4. Department of Agricultural Economics

Head of the Department : Prof. Ashutosh Sarkar

Faculties of the Department

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2.	Dr. A. Sarkar Professor	Agriculture Marketing, Farm Management, Resource Economics, ABM	Department of Agricultural Economics, UBKV, Pundibari, Coochbehar-736165 E-mail : sarkar.ashutosh@rediffmail.com Mobile : 9475246928
3.	Dr. K. K. Das Professor	Production Economics & Farm Management, Project	Department of Agricultural Economics, UBKV, Pundibari, Coochbehar-736165 E-mail : kkdas_ubkv@yahoo.com

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4.	Dr. T. N. Roy Professor	Management, ABM Agril. Finance & Coop., ABM, Rural Marketing, International Trade	Mobile : 9474520962 Department of Agricultural Economics, UBKV, Pundibari, Coochbehar-736165 E-mail: tuhinnroy@rediffmail.com Mobile : 9474140702
5.	Dr. G. Mula Assistant Professor	Agricultural Finance and Cooperation, Marketing, roduction Economics, IT, ABM, Farm Management	Department of Agricultural Economics, UBKV, Pundibari, Coochbehar-736165 E-mail : gobindamula@gmail.com Mobile : 8116961780

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6.5. Department of Plant Pathology

Head of the Department : Prof. A. Roy

Faculties of the Department

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2.	Dr. P. M. Bhattacharya Professor	Fungi and Plant Infection	Department of Plant pathology, UBKV, Pundibari, Coochbehar-736165 E-mail : pmb_ubkv@yahoo.co.in Mobile : 9434338238
3.	Dr. A. Roy Professor	Fungal Pathology	Department of Plant pathology, UBKV, Pundibari, Coochbehar-736165 E-mail: ayonroy.plantpathology@gmail.com; roy_ayon@rediffmail.com Mobile : 9434483593/8436515570
4.	Dr. S. Bandyopadhyay Assistant Professor	Fungal Pathology	Department of Plant pathology, UBKV, Pundibari, Coochbehar-736165 E-mail: bandyopadhyaysekhar@yahoo.co.in, sekhar29@gmail.com Mobile : 9434685676
5.	Dr. S. Khalko Assistant Professor	Fungal pathology	Department of Plant pathology, UBKV, Pundibari, Coochbehar-736165 E-mail : khalko2002@yahoo.co.in Mobile : 8900516229

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3.	Mrs. Srma Das	Fungal Pathology	AINP on Jute and Allied Fibres, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar-736165 Email: srimadaspatho.1989@gmail.com Mobile :9874808984

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6.6. Department of Agricultural Statistics

Head of the Department : Prof. D. S. Gupta

Faculties of the Department

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2.	Dr. S. Ojha Assistant Professor	Design of Experiments, Statistical Modeling	Department of Statistics, UBKV, Pundibari, Coochbehar-736165 Mobile : 9662107466 E-mail: sankalpa.stat@gmail.com
3.	Dr. M. Debnath Assistant Professor	Probability Theory, Design of experiment and Remote Sensing and GIS, Biometrics	Department of Statistics, UBKV, Pundibari, Coochbehar-736165 Mobile : 08670937121 E-mail: mkanti1984@gmail.com

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1.	Dr. Arunava Ghosh Professor	Forecasting and Modelling	Regional Research Station (Terai Zone), UBKV, Pundibari, Coochbehar-736165 Email : arunava_ubkv@yahoo.co.in arunavagh1@rediffmail.com Mobile: 8250632259

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3.	Mrs. Moumita Saha Jr. Peon	Department of Agricultural Statistics, UBKV, Pundibari, Coochbehar,736165; Mobile : 09735007954

6.7. Department of Agricultural Entomology

Head of the Department : Dr. N. Laskar

Faculties of the Department

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2.	Dr. Joydeb Ghosh Professor	Acarology	Srijani Apartment, 3rd Floor, P.V.N.N. Road bye-lane, Cooch Behar, PIN – 736101 Mobile : 09434483767 E-mail : jaydebubkv@yahoo.com
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4.	Dr. S. K. Sahoo Associate Professor	Economic Entomology	Biren Manson, Flat No. 2C (Opposite of Cooch Behar Municipality Garage), Cooch Behar- 736101 Mobile : 09735059884 E-mail : shyamalsahoo@gmail.com
5.	Mrs. M. Chatterjee Assistant Professor	Acarology	Quarter No: B-2/F-2, UBKV, Pundibari, Coochbehar-736165 Mobile : 08902326756 E-mail : moulitachatterjee @rediffmail.com
6.	Mr. D. Chakraborty	Economic Entomology	Flat No.4H Ideal Complex (Gate II, Block III), H. N. Road, Cooch Behar-736101 Mobile : 09647800589

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1.	Dr. Suprakash Pal Associate Professor	Insect Biodiversity, Coccinellids, Pests of ornamentals	Regional Research Station (Terai Zone), Pundibari, Coochbehar-736165 Email id: palsento@gmail.com Mobile :9434216987
2.	Mr. Prahlad Sarkar Assistant Professor	Nematology and Economic Entomology	Regional Research Station (Terai Zone), UBKV, Pundibari, Coochbehar-736165 Email: prahlad.sarkar0203@gmail.com Mobile :9126014861

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6.8. Department of Genetics and Plant Breeding

Head of the Department : Prof. S. K. Roy

Faculties of the Department

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5.	Mrs.Namita Das Junior Peon	Department of Genetics and Plant Breeding, UBKV, Pundibari, Coochbehar,736165

6.9. Department of Soil Science and Agricultural Chemistry

Head of the Department : Dr. A. K. Sinha

Faculties of the Department

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6.10. Department of Seed Science and Technology

Head of the Department : Dr. B. Roy

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7.0. PUBLICATIONS

Research papers, book chapters, books etc. published in refereed scientific journals and reputed publishers by the faculties and research scholars from different departments under the Faculty of Agriculture during 2017-18 are being listed as follows.

7.1. Department of Agronomy

7.1.1 Research papers

Sl. No.	Title	Author(s)	Journals
1	Precision nutrient management in wheat (<i>Triticum aestivum</i> L.) using Nutrient Expert: Growth phenology, yield, nitrogen use efficiency and profitability under eastern sub-Himalayan plains (2018)	Mondal, T., Mitra, B. and Das, S.	<i>Indian Journal of Agronomy</i> , 63 (2): 174-180
2	Evaluation of barley (<i>Hordeum vulgare</i> L.) cultivars under different dates of sowing in Terai zone of West Bengal (2018)	Priya Devi, K., Mitra, B., Paul, T., Das, S., Singha Roy, S. and Singha Roy, A. K.	<i>Journal of Crop and Weed</i> , 14 (1): 185-187
3	Straw mulch and restricted irrigation effect on productivity, profitability and water use in wheat (<i>Triticum aestivum</i> L.) under various crop establishment techniques in Eastern sub-Himalayan plains of India (2018).	Singha, P., Mondal, T., Patra, K. and Mitra, B.	<i>International Journal of Current Microbiology and Applied Sciences</i> , 7 (2): 1521-1533
4	Double transplanting: indigenous technology practiced by the tribal farmers to combat aberrant climatic condition (2017)	A Das, T. K., Samajdar, T., Mitra, B. and Greatush, M.	<i>Indian Journal of Hill Farming</i> , 30 (2): 238-241
5	Effect of organic sources for nitrogen management on growth and yield of grain amaranth (<i>Amaranthus hypochondriacus</i>) (2017)	Mahata D, Sinha A. C. and Singha Roy A. K.	<i>Green Farming</i> , 8 (3): 597-601
6	Comparison of organic and inorganic sources of nutrients on	Mahata D, Patra P. S, and Sinha A. C.	<i>International Journal of Agricultural Sciences</i> ,

Sl. No.	Title	Author(s)	Journals
	the performance of buckwheat (<i>Fagopyrum esculentum</i> Moench) (2017)		13(2): 215-221
7	Influence of planting dates and INM practices growth and yield of potato (<i>Solanum tuberosum</i> L.) (2017)	Baidya P, Rai A, Mahata D and Bandyopadhyay S.	<i>Green Farming</i> , 8(6): 1284-1289
8	Nitrogen management and economics of potato (<i>Solanum tuberosum</i> L.) (2017)	Mahata, D, Ghosh, M, and Saha, A.	<i>Green Farming</i> , 8(6): 1290-1293
9	Effect of Nitrogen Growth and Yield of Potato (<i>Solanum tuberosum</i> L.) (2018)	Mahata, D, Ghosh, M, Saha, A and Singha Roy A.K.	<i>International Journal of Current Microbiology and Applied Sciences</i> , 7(1): 3311-3320
10	Integrated nutrient management on growth, yield, protein content and economics of grain amaranth (<i>Amaranthus hypochondriacus</i>) (2018)	Mahata D and Sinha A.C.	<i>Journal of Pharmacognosy and Phytochemistry</i> , 7(1): 2796-2802
11	Importance of Farmers Awareness Programme under Gramin Krishi Mausam Sewa Project AMFU: Pundibari (2018)	Mahata, D, Rai A and Bandyopadhyay S.	<i>International Journal of Current Microbiology and Applied Sciences</i> , 7(2): 2678-2684
12	Seasonal occurrence of gastrointestinal helminth parasites in cattle and buffaloes in bankura district, West Bengal, India (2017)	N. Shit, D. K. Hajra, S. Baidya and A. Debbarma	<i>Explor Anim Med Res</i> , 7(1): 58-63
13	Effect of season on growth and reproduction performance of improved backyard poultry in North Eastern Hill Region (2018)	Manas Kumar Patra, D.K. Hajra, R.K. Das, Pradip Sarkar and Bidyut C. Deka	<i>Indian J. Anim. Res.</i> , 52(7): 1071-1076
14	Epidemiological studies for strategic control of gastrointestinal helminths in cattle population under Sub-Himalayan Terai Zone of West Bengal. 2018	Nonigopal Shit, Dilip Kumar Hajra, Mrityunjay Mandal, Rupsanatan Mandal, Suprakash Pal and Ashutosh Sarkar	<i>Journal of Entomology and Zoology Studies</i> , 6(5): 270-276

7.2. Department of Agriculture Economics

7.2.1 Research papers

Sl. No.	Title	Author(s)	Journals
1	Problems and prospects of coconut in Assam – a review. (2017)	Pal, R. K and Das, K. K.	<i>Indian Coconut Journal</i> LIX (12): 5-9

7.2.2 Book chapter

Sl. No.	Title and Year	Author(s)	Publishers
1	Mentoring in Profession- A Tool for Individual and Organizational Skill Development in Training and Managerial Skill for Agriculture (2017)	T. N. Roy	Yash Publishing House, Jaipur-302016, edited by Prof. Chitra Henry <i>et al.</i> , SKRAU, Bikaner, Rajasthan

7.3 Department of Agricultural Entomology

7.3.1 Research papers:

Sl. No.	Title and year	Author(s)	Journals
1	Physico-Chemical Characters of Pumpkin (<i>Cucurbita moschata</i> Duch.) Ex Poir Genotype against the Melon Fly (<i>Bactrocera cucurbitae</i>) Reveals Resistance Traits in the Terai Region of West Bengal, India (2017)	Gazmer, R., Laskar, N. and Mondal, S.	<i>International Journal of Current Microbiology and Applied Sciences</i> , 6 (10): 2023-2031
2	Larval-pupal parasitoid, <i>Diachasmimorpha</i> spp. (Hymenoptera: Braconidae) associated with melon fly, <i>Bactrocera cucurbitae</i> (Coq.): A report (2017)	Laskar, N., Sinha, D. K., Roy, G., Gazmer, R. and Biswas, S.	<i>International Journal of Bio-resource, Environment and Agricultural Sciences</i> (IJBEAS), 3 (2): 545-547
3	Effect of physical characteristics and phenolic contents on jassid and pod borer of Cowpea (2017)	Satpathi, S. K., Pal, S., Gurung, B., Datta, S., Kundu, A., Mandal, R.,	<i>University of Sindh Journal of Animal Sciences</i> , 1 (1):14-20

Sl. No.	Title and year	Author(s)	Journals
4	Seasonal incidence of insect pests on jackfruit, <i>Artocarpus heterophyllus</i> Lamarck (2017)	Laskar, N. and Kheroar, S. Chakraborty, D.	<i>International Journal of Advanced Biological Research</i> , 7 (3): 474-476
5	Field screening of some tomato genotypes against leaf miner under West Bengal conditions (2017)	Sarkar, P., Chakraborty, S. and Chakraborty, D.	<i>International Journal of Advanced Biological Research</i> , 7 (3): 490-494
6	Performance evaluation and dose standardization of a new acaricide, Pyridaben 20% WP against red spider mite, <i>Oligonychus coffeae</i> Nietener infesting tea under Terai region of West Bengal (2018)	Tudu, B, Chatterjee, M., Baskey, S., Chakraborty, S.	<i>Journal of Crop and Weed</i> , 14 (1): 195-200
7	Evaluation the potentiality of some parameters to probe the elevated levels of resistance in <i>Brassica</i> sp. at the early period of aphid infestation in open field condition (2017)	Sharma, S. S., Paul, B., Saha, P., Sahoo, S. K., Mondal, K., Hath, T. K. and Mondal, H. A.	<i>Journal of Entomology and Zoology Studies</i> , 5 (6): 1356-1364

7.3.3 Book chapter

Sl. No.	Title of the chapter	Author (s)	Publisher
1	Insect and acarine pests of leafy vegetables and their eco-friendly management (Title of the book: Pest management in vegetable crops.	M. Chatterjee	Agro-India Publication Edt by: A. Samanta, B. Patra, S. Patra) (2018)

7.3.3 Books

Sl. No.	Title of the book (s)	Author (s)	Publisher
1	Cucurbits: Biotic and abiotic stresses (ISBN: 978-93-86546-50-0) (2018)	N. Laskar, B. Mondal and P. Choudhuri	New India Publishing Agency, New Delhi, India
2	<i>Uttarbanger Krishijiban</i> (Bengali) (ISBN: 978-93-83816-86-0) (2018)	N. Laskar	The Shee Book Agency, Kolkata

7.3.4 Booklets

Sl. No.	Title	Editor(s)	Publisher
1.	<i>Moumachi Palon</i> (Bengali) (2017)	N. Laskar and S. K. Sahoo	Department of Entomology, UBKV F/Ag.,

7.4 Department of Genetics and Plant Breeding

7.4.1 Research papers

Sl. No	Title	Author(s)	Journals
1	Stability of parents and their F1 population of tossa jute under different environments (2017)	Kale, V. A. and Roy, S. K.	<i>Electronic Journal of Plant Breeding</i> , 8 (1):216-225
2	Differential aphid colony establishment in <i>Dolichos lablab</i> varieties correlated with some plant specific factors that impact on aphid (2017)	Mondal, H. A., Roy, S. K., Hijam, L., Chakraborty, M., Dutta, P. and Hath, T. K.	<i>American Journal of Plant Sciences</i> , 8 :754-769
3	Genetic variability and character association in rice (<i>Oryza sativa</i> L.) over different seasons (2017)	Roy, S. K., Sarkar, K. K. and Senapati, B. K.	<i>Journal of Agriculture and Technology</i> , 4 (1): 23-30
4	Performance of flax genotypes with respect to infestation of capsule borer, <i>Helicoverpa armigera</i> (Hubner) and other yield parameters in the hills of Darjeeling, India (2017)	Roy, S. K., Pal, S., Ghimiray, T. S. and Roy, A.	<i>Journal of Entomology and Zoology Studies</i> , 5 (5): 276-280
5	Variability comparison of mustard crosses in advanced segregating generations (2017)	Roy, S. K., Chakraborty, M., Hijam, L., Mondal, H. A., Mandal, R., Kundu, A., Kale, V. A., Ashokappa, N. V., Sur, B. and Dash, S. K.	<i>International Journal of Pure and Applied Bioscience</i> , 5 (6):948-956
6	Evaluation of genetic	Bikash Chandra Deb	<i>International Journal</i>

Sl. No	Title	Author(s)	Journals
	variability and characterization of some elite turmeric genotypes in <i>terai</i> region in India (2017)	and Soumendra Chakraborty	<i>of Current Microbiology and Applied Sciences</i> , 6(5) : 2357-2366
7	Effect of different micronutrients on turmeric variety Suranjana in <i>terai</i> region of West Bengal, India (2017)	S. Datta, S. Chakraborty, J. C. Jana, A. Debnath, M. K. Roy and S. Haque.	<i>International Journal of Current Microbiology and Applied Sciences</i> , 6(5) : 1471-1482
8	Evaluation of some turmeric genotypes in <i>terai</i> region of West Bengal (2017)	S. Chakraborty, S. Dutta, A. Debnath, S. Bandopadhyay, M. K. Roy and S. Haque	<i>International Journal of Science, Environment and Technology</i> , 6(2) : 2017
9	Inheritance and association of yield and its attributing traits in rice (<i>Oryza sativa</i>) (2017)	Lakshmi Hijam, K. K. Sarkar and S. Mukherjee	<i>Journal of Crop and Weed</i> : 13(1) : 64-71
10	A review on potato (<i>Solanum tuberosum</i> l.) and its genetic Diversity (2017)	Reddy B. J., Mandal R., Chakraborty M., Hijam L. and Dutta P.	<i>Int. J. Pure App. Biosci.</i> , 5(6) :948-956
11	Arabidopsis ACTIN-DEPOLYMERIZING FACTOR 3 is required for controlling aphid feeding from the phloem (2018)	Hossain A. Mondal, JoeLousis, Lani Archer, Monika Patel, Vamsi J. Nalam, Sujon Sarowar, Vishala Sivapalan, Douglas D. Root and Jyoti Shah	<i>Plant Physiology</i> , 176 :879-890
12	Shaping the understanding of Saliva- derived effectors towards aphid colony proliferation in host plant (2017)	Hossain A. Mondal	<i>Journal of Plant Biotechnology</i> , 60 :103-115
13	Evaluation the potentiality of some parameters to probe the elevated levels of resistance in <i>Brassica</i> sp. at early period of aphid infestation in open field condition (2017)	Siddharth Shankar Sharma, Bablu Paul, Pratik Saha, Shyamal Kumar Sahoo, Kashinath Mandal, Tapan Kumar Hath and Hossain Ali	<i>Journal of Entomology and Zoology Studies</i> , 5(6) : 1256-1364

Sl. No	Title	Author(s)	Journals
		Mondal	
14	Unlocking genetic diversity in selected chickpea genotypes using morphological and molecular markers (2017)	Mandal R., Pal S. and Shit N.	<i>Current Agriculture Research Journal</i> , 5 (1): 50-57
15	Effect of physical characteristics and phenolic contents on jassid and pod borer of cowpea(2017)	Satpathi K S., Pal S., Gurung B., Data S., Kundu A., Mandal R., Lascar N., Kheroar S.	<i>University of Sindh Journal of Animal Sciences</i> , 1 (1):8-13
16	An evolutionary analysis of rice tungro bacilliform virus collected from Odisha, India (2017)	Chattopadhyay N., Mandal R and Tarafdar J	<i>Journal of Mycology Pathology Research</i> , 55 (3): 243-249
17	Studies on metabolic hormones, sex steroids and mrna expression of caspase 2 bcl-xl gene in ovarian follicles of Japanese quail hens during stress (2017)	Shit., N., Sastry Kvh., Singh G., Mandal R., and Mohan J.	<i>Indian Journal of Poultry Science</i> , 52 (1): 70-75
18	Variability comparison of mustard crosses in advanced segregating generations (2017)	Roy S. K., Chakraborty M., Hijam L., Mandal H. A., Mandal R., Kale V. A., Ashokappa N. V., Sur B. and Dash S. K	<i>International Journal of Pure Applied Biosciences</i> , 5 (6): 948-956
19	Species diversity and community structure of arthropod pests and predators in flax from Darjeeling (India) (2017)	Pal S., Mandal R., Sarkar S.	<i>Brazilian Archives of Biology and Biotechnology</i> , 60 : 2017
20	Probable location identification of inserted tungro resistant gene in rice cultivar (2017)	Chattopadhyay N., Mandal R and Tarafdar J.	<i>Annals of Plant Protection Science</i> , 25 (2): 324-329
21	Evaluation of barley (<i>Hordeum vulgare</i> L.) cultivars under different dates of sowing in Terai zone of West Bengal (2018)	K. Priya Devi, Mitra B., Paul T., Das S., Singha Roy S. and Singha Roy A. K.	<i>Journal of Crop and Weed</i> , 14 (1): 185-187

Sl. No	Title	Author(s)	Journals
22	Precision nutrient management in wheat (<i>Triticum aestivum</i>) using NutrientExpert@: growth phenology, yield, nitrogen-use efficiency and profitability under eastern sub-Himalayan plains (2018)	Mondal, T, Mitra B. and Das S.	<i>Indian Journal of Agronomy</i> , 63 (2): 174-180
23	The draft genome of <i>Corchorus olitorius</i> cv. JRO-524 (Navin) (2017)	Sarkar D, Mahato A K, Satya P, Kundu A, Singh S, Jayaswal P K, Singh A, Bahadur K, Pattnaik S, Singh N, Chakraborty A, Mandal N A, Das D, Basu T, Sevanthi A M, Saha D, Datta S, Kar C S, Mitra J, Datta K, Karmakar P G, Sharma T R, Mohapatra T, Singh N K	<i>Genomics Data</i> ; DOI: 10.1016/j.gdata.2017.05.007
24	Status of zinc fractions in soils of Cooch Behar district, West Bengal(2017)	Gogoi S, Banik G C, Kundu A, Mukhopadhyay S, Mukhopadhyay D.	<i>Current Science</i> , 113 (6): 1173-1178

7.5. Department of Plant Pathology

7.5.1 Research papers:

Sl. No.	Title	Author(s)	Journals
1.	Evaluation of some turmeric genotypes in Terai region of West Bengal (2017)	Chakraborty, S., Dutta, S., Debnath, A., Bandopadhyay, S., Roy, M. K. and Haque, S.	<i>International Journal of Science, Environment and Technology</i> , 6 (2): 1065-1070
2.	Effect of Seed Bacterization with Fluorescent <i>Pseudomonas</i> on Growth Promotion of Jute (<i>Corchorus olitorius</i>) in Terai Zone of West Bengal (2017)	Khalko, S., Bandyopadhyay, S. and Debnath, A.	<i>Int. J. Curr. Microbiol. App. Sci.</i> 6 (6): 3036-3043
3.	Morphological and cultural characterization of <i>Phyllosticta zingiberi</i> (Ramkr.) causing leaf spot disease of ginger (2017)	Rai, B., Bandyopadhyay, S., Thapa, A., Rai, A. and Baral, D.	<i>Journal of Applied and Natural Science</i> , 9 (3): 1662-1665
4.	Efficacy of Combined Formulations of Fungicides in Managing Late Blight Disease of Potato Caused by <i>Phytophthora infestans</i> (Mont.) de Bary (2018)	Jha, S., Khalko, S., Ashajyothi, M., Bandyopadhyay, S. and Roy, A.	<i>Int. J. Curr. Microbiol. App. Sci.</i> 6 (12): 765-771
5.	In-vitro study of new generation chemicals against <i>Rhizoctonia solani</i> Kuhn causing Sheath blight of Rice (2017)	A Mushineni, S. Khalko and S. Thapa	<i>International Journal of Agricultural Science</i> , 9 (19): 4201-4203
6.	Effect of New Generation Chemicals in Changing Host Physiological Traits to Manage Sheath Blight Disease Caused by <i>Rhizoctonia solani</i> Kuhn in Rice (2018)	A Mushineni, S Khalko, S Jha, P M Bhattacharya and A Roy	<i>Int. J. Curr. Microbiol. App. Sci.</i> 6 (11): 351-357
7.	Postharvest Treatments on	P Dutta, N	<i>Int. J. Curr. Microbiol.</i>

Sl. No.	Title	Author(s)	Journals
	Storage Life of Guava (<i>Psidium guajava</i> L.) in Himalayan Terai Region of West Bengal, India (2018)	Bhowmick, S Khalko, A Ghosh and S K Ghosh	<i>App. Sci.</i> , 6 (3): 1831-1842
8.	Effect of different micronutrients on turmeric variety Suranjana in terai region of West Bengal (2018)	Chakraborty, S., Dutta S., Jana. J. C., Debnath A., Roy M. K. and Haque S.	<i>Int. J. Curr. Microbiol. App. Sci.</i> , 6 (5): 1471-1482
9.	Identification and characterization of different pathogens associated with the Rhizome Rot and wilt disease complex of ginger in Darjeeling Himalayas (2017)	Sharma. B. S., Debnath A., Ali. S. S., Baskey. S., Thapa. A. and Datta. S.	<i>J. Mycopathol. Res.</i> , 54 (4): 517-521
10.	Evaluation of some important ginger genotypes in Terai region of West Bengal (2017)	Chakraborty S., Datta S., Debnath A. and Roy M. K.	<i>International Journal of Science, Environment</i> , 7 (2): 715-722
11.	Effect of Conservation Agriculture Based Rice-Wheat System on Sheath Blight and Spot Blotch Diseases In Eastern India (2018)	Chowdhury, A. K., Bhattacharya, P. M., Santra, A. and Dhar, T	<i>J. Mycopathol, Res</i> , 54 (4): 543-547.
12.	Wheat disease dynamics in south east Asia under changed climate scenario (2017)	Chowdhury, A. K.	<i>J. Mycopathol, Res</i> , 55 (2): 119-127
13.	Climate change and plant diseases with special emphasis on cereal crops - An overview (2018)	Chowdhury, A. K., Roy, A and Chattopadhyay, C.	<i>SATSA Mukhapatra Annual Technical Issue</i> , 21 : 46-58
14.	Cultural, Morphological and Genetic variability in <i>Exerohilum turcicum</i> – a review (2018)	Ali Sajeed, Sharma, B. R., Sherpa, F and Chowdhury, A. K.	<i>Progressive Agriculture</i> , 12 : 2721-2724
15.	Domestication of <i>Macrobrachium</i>	Sarkar, D., Mukherjee, A.,	<i>International Journal of Fisheries and Aquatic</i>

Sl. No.	Title	Author(s)	Journals
	<i>rosenbergii</i> in terai region of West Bengal (2017)	Chowdhury, A. K. and Ninawe, A. S.	<i>Studies</i> , 5 (5): 01-06.
16.	The incidence of wheat blast in Bangladesh and its implications for South Asian wheat production (2017)	Chowdhury, A. K., Saharan, M. S., Agarwal Rashmi, Malaker, Paritosh, Duveiller, E., Singh, P. K., Singh, R. P., Braun, H. J. and Joshi, A. K.	<i>Ind J. Genetics</i> , 77 (1): 1-9
17.	Characterising variation in wheat traits under hostile soil conditions in India (2018)	Jaswant S. Khokhar, Sindhu Sareen, Bhudeva S. Tyagi, Gyanendra Singh, A. K. Chowdhury, T. Dhar, V. Singh, Ian P. King, Scott D. Young, Martin R. Broadley	PloS ONE 12(6): e0179208. https://doi.org/10.1371/journal.pone.0179208
18.	Pooling together spot blotch resistance, high yield with earliness in wheat for eastern Gangetic Plains of South Asia (2018)	Ranjan, R, Chand Ramesh, Chowdhury A. K., Bhattacharya, P. M. and Joshi, A. K.	<i>Field Crops Research</i> , 214 :291-300
19.	Performance of flax genotypes with respect to infestation of capsule borer, <i>Helicoverpa armigera</i> (Hubner) and other yield parameters in the hills of Darjeeling, India (2018)	Roy, S. K., Pal, S., Ghimiray, T. S. and Roy, A.	<i>Journal of Entomology and Zoology Studies</i> , 5 (5):276-280
20.	Species Diversity and Community Structure of Arthropod Pests and Predators in Flax, <i>Linum usitatissimum</i> L. from Darjeeling (India) (2018)	Pal, S., Mandal, R., Sarkar, I., Ghimiray, T. S., Sharma, B. R., Roy, A., Roy, S. K., Chakraborty, G. and Mitra, S	<i>Brazilian Archives of Biology and Technology</i> . http://dx.doi.org/10.1590/1678-4324-2017160492
21.	Development of Intraspecific Hybridization	Baral, D., Roy, A., Thapa, S. and	<i>International Journal of Current Microbiology</i>

Sl. No.	Title	Author(s)	Journals
	of <i>Pleurotus flabellatus</i> for Better Yield and Nutrition	Bhutia, K. C.	<i>and Applied Sciences</i> . 6(11):735-742
22.	Host Infection beyond the Traditional Range of <i>Sclerotium (Athelia) rolfsii</i> with <i>Physalis minima</i> (2018)	Hembram, S.	<i>Bioinformation</i> , 13(10):333-338

7.5.2 Book chapter

Sl. No.	Title	Author(s)	Publishers
1.	Holistic management of foliar blight disease of wheat and Barley (2018)	Chowdhury, A. K., Bhattacharya, P. M., Bandyopadhyay, S. and Dhar, T.	<i>Management of Wheat and Barley Diseases</i> Edited by DP Singh, Apple Academic Press, pp. 83-114
2.	<i>Macrophomina jonito</i> <i>Pradhan rog o tar</i> <i>pratikar</i> (Bengali) (2017)	S. Das	SasyaSuraksha, AAPP, Kalyani
3.	Biological control in 21 st century: Opportunities and challenges in subsistence farming system of India (2018)	A. K. Chowdhury, Anamika Debnath, A. Roy, P. M. Bhattacharya and C. Chattopadhyay	Microbial Antagonists: Their role in biological control of plant diseases (Edtrs: Drs. R. N. Pandey, B. N. Chakraborty, Dinesh Singh and Pratibha Sharma) Today & Tomorrow's Printers and Publishers, New Delhi – 110 002, India, pp. 37-63
4.	Recent approaches for detection and management of diseases of Wheat (2018)	Chowdhury, A. K., Bhattacharya, P. M. and Chattopadhyay, C.	Recent Approaches for Management of Plant Diseases <i>Editors: Srikanta Das, Subtrata Dutta, B .N. Chakraborty and Dinesh Singh</i> Indian Phytopathological Society ISBN: 81-7019-599-X (India), 1-55528-443-4 (USA), pp 53-78
5.	Future Smart Food, West	Chowdhury, A. K.	Future Smart Food-

Sl. No.	Title	Author(s)	Publishers
	Bengal (2017)		Rediscovering hidden treasures of neglected and underutilized species for zero hunger in Asia, Food and Agriculture Organization in United Nations, (Eds. Li,X and Siddique, KHM). Bangkok, Thailand, p 242
6.	Microbial inoculants inorganic vegetable production: Current Perspective (2018)	Chatterjee, R., Roy, A. and Thirumdasu, R. K.	Zaidi, A. and Khan, M.S. (eds). Microbial Strategies for Vegetable Production. Springer International Publishing DOI10.1007/978-3-319-54401-4_1.

7.5.3 Technical bulletin

Sl. No.	Title	Author(s) and Publishers
1.	Fact Sheet, India-Morocco Food Legumes Initiative on Increasing Food Legumes Production by Small Farmers to Strengthen Food and Nutrition Security (2018)	Chowdhury, A. K.
2.	Fact Sheet, OCPF and ICARDA on Increasing Food Legumes Production by Small Farmers to Strengthen Food and Nutrition Security (2017)	Chowdhury, A. K.
3.	Fact Sheet, SRFSI, West Bengal (2018)	Chowdhury, A. K

7.6 Department of Agricultural Statistics

7.6.1 Research papers

Sl. No.	Title and year	Author(s)	Journals
1.	Estimation of optimum time of spray for controlling rice leaf folder infestation on boro rice in terai region of West Bengal using best fitted linear and nonlinear growth model	Soumitra Sankar Das, Manoj Kanti Debnath, Satyananda Basak, Joydeb Ghosh and Aparajita Das	<i>Int. J. Curr. Microbiol. App. Sci.</i> , 6 (6): 2300-2309

Sl. No.	Title and year	Author(s)	Journals
	(2017)		
2.	Anthropogenic impacts on forest land use and land cover change: Modelling future possibilities in the Himalayan Terai (2018)	Shovik Deb, Manoj K. Debnath, Somsubhra Chakraborty, David C. Weindorf, Deo Kumar, Dibyendu Deb, Ashok Choudhury	<i>Anthropocene</i> , 21 :32-41
3.	Different methods for judging the normality assumption for univariate and bivariate data and its remedial measure (2017)	S. S.das, A. K. Das, A. Mazumder and M. K. Debnath	<i>Journal of Crop and Weed</i> , 13 (1): 07-16
4.	Modeling and Forecasting in Rainfall in Jabalpur Madhya Pradesh Using ARIMA Model (2017)	Preeti Tiwari, P. Mishra and M. K. Debnath	<i>Trends in Biosciences</i> , 10 (23):5046
5.	Economic Threshold Level of Aphid on Mustard crop at Pundibari (A part of Coochbehar district): It's determination by application of probability and statistics (2018)	SatyanandaBasak, Soumitra Sankar Das, Satyabrata Pal	<i>International Journal of Zoology Studies</i> (ISSN: 2455-7269)
6.	An alternative approach for estimating above ground biomass using Resourcesat-2 satellite data and artificial neural network in Bundelkhand region of India (2018)	Deb, D., Singh, J.P., Deb, S., Dutta, D., Ghosh, A., and Chaurasia, R. S.	<i>Environmental Monitoring and Assessment</i> , 189 :576
7.	Lemon cv. Assam lemon (<i>Citrus limon</i> Burm.) quality and soil-leaf nutrient availability affected by different pruning intensities and nutrient management (2018)	Ghosh, A., Dey, K., Bhowmik, N., Ghosh, S. K., Bandyopadhyay, S., Medda, P. S. and Ghosh, A.	<i>Current Science</i> , 112 (10): 2051-2065
8.	Identification of prediction model on population buildup of <i>Dactynotus carthemi</i> HRL on safflower (<i>Carthamus tinctorius</i>	Chaudhuri, N., Banerjee, D., Ghosh, A. and Senapati, S. K	<i>Journal of Entomology and Zoology Studies</i> , 5 (4): 1775-1779

Sl. No.	Title and year	Author(s)	Journals
	L.) for timely intervention (2017)		
9.	Growth Behavior of Pineapple cv. Mauritius under Integrated Nutrient Management in Northern part of West Bengal, India (2018)	Bhowmik, N., Munsu, P. S., Ghosh, S. K., Deb, P. and Ghosh, A	<i>International Journal of Current Microbiology and Applied Sciences</i> , 6 (9): 2471-2488.
10.	Effect of integrated nutrient management on flowering and fruiting characteristics of pineapple cv. Mauritius (2017)	Bhowmik, N., Ghosh, S. K., Munsu, P. S., Deb, P. and Ghosh, A	<i>Journal of Crop and Weed</i> , 13 (2): 144-156
11.	Effect of Potassium-Boron Content of Leaf on Copra Yield of Coconut (<i>Cocos nucifera</i> L.) in Terai Region of West Bengal, India (2018)	Sathi Babu, N., Medda, P. S. Sinha, K. and Ghosh, A	<i>International Journal of Current Microbiology and Applied Sciences</i> , 7 (2): 398-410
12.	Impact of Potassium-Boron Interaction on Leaf Nutrient Content and Nut Setting of Coconut (2017)	Sathi Babu, N., Sinha, A. K., Medda, P.S. and Ghosh, A	<i>International Journal of Current Microbiology and Applied Sciences</i> , 6 (12): 4025-4037

7.7. Department of Biochemistry

7.7.1. Research papers

Sl. No	Title	Author(s)	Journals
1.	Antagonism Between LOX-pathway Enzymes and Antioxidative Molecules –a Potential Gateway for Flavour Quality Improvement in Soybean	Mandal S and Santha I. M.	<i>Journal of Agriculture and Technology</i> , 2016, 3 (1): 30-39
2.	Effect of Imidacloprid on the activities of some enzymes of cabbage (<i>Brassica oleracea</i> L. var. capitata) leaf	Ashrafi, M. A. and Pandit, G. K.	<i>International Journal of Recent Scientific Research</i> , 2016, 7

Sl. No	Title	Author(s)	Journals
3.	Preparation of azomethine based nanochemicals and antibacterial activity against nitrifying bacteria.	Mondal P and Kumar R	(1): 8232-8235 <i>Pesticide Research Journal</i> , 2016, 28 (2): 194-200
4.	Azomethine based nano-chemicals: Development, in vitro and in vivo fungicidal evaluation against <i>Sclerotium rolfsii</i> , <i>Rhizoctonia bataticola</i> and <i>Rhizoctonia solani</i>	Mondal P, Kumar R and Gogoi R	<i>Bioorganic Chemistry</i> , 2017, 70: 153-162
5.	Development of a PCR Based Detection System for Begomoviruses from Solanaceous Vegetables	Mondal D, Sil P, Sahana N, Mandal S, Pandit GK	<i>International Journal of Bioresource Science</i> , 2018, 4 (2): 101-105
6.	Physico-Chemical Characters of Pumpkin (<i>Cucurbita moschata</i> Duch.) Ex Poir Genotype against the Melon Fly (<i>Bactrocera cucurbitae</i>) Reveals Resistance Traits in the Terai Region	Gazmer R, Mandal S, Laskar N	<i>International Journal of Current Microbiology and Applied Sciences</i> , 2018, 6 (10): 2023-2031

7.7.2 Book chapters

Sl. No	Title	Author(s)	Publishers
1.	Extraction and Concentration Methods for Bioactive Components in Fruits and Vegetables	Mandal S, Paul P. K and Sahana N	Technological Interventions in the processing of fruits and vegetables Apple Academic Press 2018 Chapter 14

7.8. Department of Soil Science and Agricultural Chemistry

7.8.1 Research papers

Sl. No	Title	Author(s)	Publishers
1.	Stability of organo – zinc complex in application of inorganic and organic nutrients to rice (<i>Oryza sativa</i>) growing soils of West Bengal (India). (2018).	Roy, S. K. , Barman, K. K. and Mukhopadhyay, D.	<i>International Journal of Chemical Studies.</i> 6(2):2157 – 2164
2.	Development of Analytical Method for Soil Organic Carbon; Rapid, Reliable, user-Friendly and Economical for Remote Areas. (2018).	A. Tamang, P. S.Patra, P. Panda, M. K. Debnath, G. Mula and R.K. Basak.	<i>Asian Journal of Soil Science Vol 13 No. 1,</i>
3.	Anthropogenic impacts on forest land use and land cover change: Modelling future possibilities in the Himalayan Terai. (2018)	S. Deb, M. K. Debnath, S. Chakraborty, D. C. Weindorf, Deo Kumar, D. Deb and A.Choudhury.	<i>Anthropocene.</i> 21 : 32-41.
4.	Responses of split application of nitrogen on the performance of <i>Kharif</i> rice (<i>Oryza sativa</i> L.) in Terai zone of West Bengal. (2017).	P. S. Patra, S.Kheroar, A. Choudhury, and R. Saha,	<i>Asian J. Soil Sci.</i> , 12 (2): 265-270: DOI: 10.15740/HAS/AJSS/12.2/265-270.
5.	Bio-efficacy of Bispyribac acid 40% SC against weed flora in Rice (<i>Oryza Sativa</i> L). (2017)	P. S. Patra, Md Aziz, R. Saha and A. Choudhury	<i>International Journal of Tropical Agriculture.</i> 35 (2): 259-265
6.	Evaluation of chemical and biological indices for carbon and nitrogen mineralization of various organic matters used in tea garden. (2017).	B. Mahato, S. Chakraborty, D. P. Ray, P. Panda, B. Paramanik, N. K. Mahato, A. Kundu, A. Hoque and A. Choudhury	<i>International Journal of Bioresource Science.</i> 4 (1): 47-56. DOI : 10.5958/2454-9541.2017.00009.3

Sl. No	Title	Author(s)	Publishers
7.	Organic Phosphorus Mineralization by Isolated Phosphorus Solubilizing Fungi. (2017).	P. Panda, B.Mahato, S. Chakraborty, B. Paramanik, R.Panda, N. K. Mahato, A.Kundu, A. Mahato and A.Choudhury	<i>Journal of Agriculture and Technology.</i>
8.	Atmospheric nitrogen fixing capacity of Azotobacter isolate from Cooch Behar and Jalpaiguri Districts soil of West Bengal. (2017).	P. B. Bag, P. Panda, B. Paramanik, B. Mahato and A. Choudhury.	<i>International Journal of Current Microbiology and Applied Sciences.6 (3): 1775-1788. DOI: https://doi.org/10.20546/ijcmas.2017.603.204</i>
9.	Non-saturated soil organic horizon characterization via advanced proximal sensors. (2017).	V. Cardelli, D. C. Weindorf, S. Chakraborty, B. Li, M.De Feudis, S. Cocco, A. Agnelli, A.Choudhury, D. P. Ray, G. Corti	<i>Geoderma, 288:</i> 130-142. (Elsevier) http://dx.doi.org/10.1016/j.geoderma.2016.10.036 .
10.	Phosphorus Solubilizing Bacteria from Tea Soils and their Phosphate Solubilizing Abilities. (2017).	P. Panda, A. Choudhury, S. Chakraborty, D.P. Ray, S. Deb, P.S. Patra, B. Mahato, B. Paramanik, A.K. Singh, R.K. Chauhan.	<i>International Journal of Bioresource Science. 4 (2): 113-125. DOI : 10.5958/2454-541.2017.00018.4</i>
11.	Rapid assessment of regional soil arsenic pollution risk via diffuse reflectance spectroscopy. (2017).	S. Chakraborty, D. C. Weindorf, S. Deb, B. Li, S. Paul, A.Choudhury, D. P. Ray.	<i>Geoderma, 289:</i> 72–81. (Elsevier) http://dx.doi.org/10.1016/j.geoderma.2016.11.024
12.	Microbial biomass and activity in relation to accessibility of organic carbon in saline soils of coastal agro-Ecosystem. (2018)	Deb, S.*, Mandal, B., Bhadoria, P.B.S., Schulz, E., Ghosh, S., Debnath, M.K.	<i>Proceedings of the National Academy of Sciences India Section B: Biological Sciences 88: 633-</i>

Sl. No	Title	Author(s)	Publishers
13.	Forms of Phosphorus in Some Acidic Entisols of Subtropical Eastern India. (2017).	D. Sarkar, S. Rakesh, A. K. Sinha and P. Mukhopadhyay.	643. <i>International Journal of Plant & Soil Science.</i> 19(3): 1-9.
14.	Different fractions of boron in soils of Alfisol and Entisol of West Bengal. 2018.	A. Patra, A.K. Sinha, Rakesh S, S. Biswas and P. Mukhopadhyay.	<i>Journal of Pharmacognosy and Phytochemistry.</i> 7(1): 510-513.
15.	Impact of Potassium-Boron Interaction on Leaf Nutrient Content and Nut Setting of Coconut. 2017.	N. Sathi Babu, A. K. Sinha, P.S. Medda and A. Ghosh.	<i>Int.J.Curr.Microbiol.App.Sci.</i> 6(12): 4025-4037

7.7.2 Book chapters

Sl. No	Title	Author(s)	Publishers
1.	Dynamics of Carbon fractions & their behavior in soil system as influenced by tillage & cropping sequence. 2017.	Rakesh S and A.K.Sinha.	<i>Innovative approach of Integrated Resource management.</i> Pp. 138-141.

7.9. Department of Agricultural Extension

7.9.1 Research papers

Sl. No	Title	Author(s)	Publishers
1.	Enhancing the capacity of the women led Agricultural Innovation System through its diagnosis.	Das R. and Pradhan, K.	<i>Indian Journal of Applied Research.</i> 7(1): 748-753.
2.	Identification and documentation of Indigenous Technical Knowledge (s) regarding pest control methods in agriculture.	Pradhan, K; Yolmo Z.; Saha, A. and Vara Prasad, C.	<i>International Journal of Agriculture Sciences.</i> 9(38) : 4580-4584.
3.	Focusing on the involvement of	Pradhan, K; Devi L. Y.;	<i>Indian Research</i>

Sl. No	Title	Author(s)	Publishers
	women dairy farmers in decision making process at Manipur.	Das, R.; Saha, A.; Sarkar, V. and Ganguly, B.	<i>Journal of Extension Education.</i> 17 (1):1-4.
4.	Sensitizing the peasants on the economic livelihood impact of the large cardamom enterprise.	Manger, S.; Pradhan, K.; Saha, A.; Vara Prasad, C.; Sarkar, V. and Ganguly, B.	<i>Journal of Agroecology and Natural Resource Management.</i> 4 (2): 171-177.
5.	Exploration and Interpretation of Women Stakeholders' Overall Involvement in Women Led Agricultural Innovation System (AIS).	Pradhan, K. and Das, R.	<i>Indian Research Journal of Extension Education.</i>
6.	Interpreting the farmers' Perception and Predisposition for Exploring the Contribution of Large Cardamom Enterprise on Livelihood Pattern in East Sikkim Himalayas.	S. Manger, K. Pradhan, A. Saha and R. Das	<i>Indian Research Journal of Extension Education.</i>
7.	Relationship of socio-economic factors with attributes of homegarden agro-forestry systems in Northern part of West Bengal.	Subba, M.; Pala N A.; Shukla, G.; Pradhan, K. and Chakravarty, S.	<i>Journal of Tree Sciences.</i> 36 (2): 76-91.
8.	Participatory knowledge sharing among agricultural extension professional on organic farming practices.	Vara Prasad, C and Pradhan, K.	<i>Journal of Krishi Vigyan.</i> 6 (2): 168-171.
9.	Perceiving the behavioural change of farmers through modern Information Communication Technology (ICT) tools.	Pradhan, K.; Panda, S. and Prasad C. Vara	<i>Indian Research Journal of Extension Education.</i> 18 (2): 46-53.
10.	Climate Change Perception and Response Strategies of Forest Fringe Communities in Indian Eastern Himalaya.	Dey, T., Pala, N. A., Shukla, G., Pal, P. K., Das, G. & Chakravarty, S.	<i>Environment, Development and Sustainability</i> (Springer). 15(5): doi 10.1007/s10668-017-9920-1
11.	Social and biophysical impacts of watershed development programmes: experiences from a micro-watershed area in	Pal, P. K., Ganguly, B., Roy, D., Guha, A., Hanglem, A. and Mondal, S.	<i>Water Policy.</i> 19 (1): doi: 10.2166/wp.2017.189

Sl. No	Title	Author(s)	Publishers
12.	Adoption of scientific farm innovations towards enhancing nutritional security in selected areas of Kalimpong, West Bengal	Lepcha, N. Bandyapadhyay, A. K and Pal, P K.	<i>Journal of Krishi Vigyan.</i> 6(1): 10-14. doi : 10.5958/2349-4433.2017.00040.X
13.	Assessing attitude towards activities of Rangamati Watershed Development Project in Cooch Behar district of West Bengal, India.	Ganguly, B. Hanglem, A. Lakshimai Devi, Y. Roy, D. Mondal, S. and Pal P. K.	<i>Asian Journal of Agricultural Extension, Economics & Sociology.</i> 19(3): doi: 10.9734/AJAEES/2017/35433
14.	Livelihood diversity in family farming in selected hill areas of West Bengal, India.	Pal, P. K. Bhutia, P. T. Das, L. Lepcha, N. and Nain, M.S.	<i>Journal of Community Mobilization and Sustainable Development.</i> 12(2), 172-178.
15.	Community Level Vulnerability to Climate Change: A Comparative Case Study between Selected Naga Tribes in India. <i>Current</i>	Vimenuo S. Kuotsu, P. K. Pal, D. Roy, S. Mondal, L. Das and S. Modak.	<i>Journal of Applied Science and Technology [British Journal of Applied Science and Technology].</i> 23(6). DOI: 10.9734/CJAST/2017/35939
16.	Perspectives of Small Scale Tea Growing System (Stgs): A Study of North Bengal areas In India.	A. Ghosh, L. Das, P. K. Pal, A. Sarkar and M. S. Nain	<i>Indian Journal of Extension Education</i> 53 (4): 52-56.

7.9.2. Book chapters

Sl. No	Title	Author (s)	In
1.	Refocusing the correlates of carbon sequestration through maintaining the carbon stock in home gardens of West Bengal, India. Natural Resources Management for Sustainable	Subba, M.; Pala, N A; Shukla, G.; Pradhan, K and Chakravarty, S.	<i>In Eds V.P.Sati and K.C. Lalmalsawmzauva. Today & Tomorrow's Printers and Publishers, New Delhi,</i>

Sl. No	Title	Author (s)	In
	Development and Rural Livelihoods.		India. ISBN 81-7019-584-1
2.	Exploration and Extrapolation of Extension Strategy for Promotion of Spice Production and Processing in India.	Pradhan, K.	Indian Spices: The Legacy, Production and Processing of Indian Treasured Export. <i>In Eds. Amit Sarangi. Springer International Publishing.</i> pp. 421-438. Print ISBN 978-3-319-75015-6
3.	Risk Management in Floriculture with focus on Insurance	S. Mondal	Advances in Floriculture & Urban Horticulture. (ISBN 978-93-85883-65-1)

7.9.3 Books

Sl. No	Title	Author (s)	Publishers
1.	Glimpses of practical in Extension Education.	Pradhan, K.; Vara Prasad, C.; Saha, A; Das R.,; Sarkar, V. and Panda, S.	<i>New India Publishing Agency, New Delhi.</i> ISBN 978-93-86546-01-2
2.	Dynamics of Extension Education	L. Das, S. Panda and A. Mukherjee	Sharma Publisher and Distributor, New Delhi

7.10. Department of Seed Science and Technology

7.10.1 Research papers

Sl. No	Title	Author (s)	Journals
1.	Polyethyleneglycol mediated rapid <i>in vitro</i> screening of rice (<i>Oryza sativa</i> L.) genotypes for drought tolerance. (2018)	S. Bhadra, B. Roy, T. S. Ghimiray	<i>Indian Journal of Genetics and Plant Breeding</i> , 78(1) : 142-146.
2.	A Review on Potato (<i>Solanum tuberosum</i> L.) and its Genetic Diversity. (2018)	B. J. Reddy, R. Mandal, M. Chakraborty, L. Hijam and P. Dutta	<i>International Journal of Genetics</i> , 10(2) : 360-364. DOI: http://dx.doi.org/10.9735/0975-2862.10.2.360-364
3.	Genetic Diversity of Farmers' Varieties of Rice (<i>Oryza sativa</i> L.) with Special Orientation to Lodging Characteristics. (2017)	S. Debbarma and B. Roy.	<i>Journal of Rice Research</i> , 5 : 181. doi:10.4172/2375-4338.1000181
4.	WINNER (Winter Nursery For Rice)- A Technology to Raise Winter Rice Nursery. (2017)	B. Roy, M. Ghosh and M. Hussain.	<i>Journal of Agriculture and Technology</i> . 4(2) : 49-51.
5.	Dwarf Genotype of Rice (<i>Oryza sativa</i> L.)- A Prospective Medium Duration Rice. (2017)	B. Roy	<i>Journal of Agriculture and Technology</i> , 4(2) :58-61.
6.	Two Tier System of Cultivating Field Crops as Relay Cropping in Rice Field – A New Concept to Improve the Livelihood of Resource Poor Farmers. (2017)	B. Roy and A. Barman.	ICAR-IIRR News Letter. 15(1) : 34
7.	Seed P content: A potential marker of arsenic tolerance during early seedling growth of rice. 2017.	P. Dutta, P. Bandopadhyay and S. Mondal	<i>Seed Science and Technology</i> 45 (1): 179-188. https://doi.org/10.15258/sst.2017.45.1.11 .
8.	Differential Aphid Colony	H. Ali Mondal, S.	<i>American Journal of</i>

Sl. No	Title	Author (s)	Journals
	Establishment in <i>Dolichos lablab</i> Varieties Correlated with Some Plant Specific Factors That Impact on Aphid Fecundity. 2017.	K.Roy, L. Hijam, M. Chakraborty, P. Dutta, and T. K. Hath	<i>Plant Sciences</i> , 8 : 754-769. https://doi.org/10.4236/ajps.2017.84053
9.	Characterization of Some Aromatic Farmers' Varieties of Rice (<i>Oryza sativa</i> L.). 2017.	S. Mahato, D.T. Surje, S. Debbarma and B. Roy.	<i>Indian Journal of Plant Genetic Resources</i> , 30(2) : 120-129

7.10.2 Book chapters

Sl. No	Title	Author (s)	In
1.	Waste water in Agriculture: Possibilities and Limitations. (2017).	S. Deb and P. Dutta	A. Rakshit et al (Eds.) <i>Adaptive Soil Management: From Theory to Practices</i> . Springer Nature Singapore Pte. Ltd. DOI 10.1007/978-981-10-3638-5_10

7.10.3. Books

Sl. No	Title	Author (s)	Publishers
1.	Biodiversity of Local Cultivars of Rice (<i>Oryza sativa</i> L.). 2017.	B. Roy	LAP LAMBERT Academic Publishing AG & Co. KG, Theodor-Heuss-Ring 26, 50668 Köln, Germany. pp. 1-241. ISBN-NR: 978-620-2-05760-8

8.0. SEMINAR, SYMPOSIUM, CONFERENCE, TRAINING AND WINTER / SUMMER / REFRESHER COURSE / SHORT COURSE ATTENDED / ORGANIZED BY THE FACULTIES UNDER DIFFERENT DEPARTMENT

8.1. Department of Agronomy

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty associated	Date and Venue	Attended/Organized
1	National Conference on 'Enhancing nutritional security through climate smart farming practices' organized by COBACAS	B. Mitra	March 17-18, 2017 Kalimpong, Darjeeling	Attended
2	57 th All India Wheat and Barley Workers 'Meet	B. Mitra	August 24-26, 2018, Birsa Agril. University, Ranchi, Jharkhand	Attended
3	Regional Collaborative Platform Workshop for Conservation Agriculture Sustainable Intensification (CASI)	B. Mitra	July 22-23, 2018 Kathmandu, Nepal	Attended
5	One day Seminar on "Image based system for Identification of individuals, breeds and diseases of animals	Dilip Kr. Hajra	April 09, 2018 Deptt. of Agronomy, UBKV.	Organized
6	Workshop on "Animal Identification System"	Dilip Kr. Hajra	January 30, 2018 NRC on Pig, Guwahati	Attended

8.2 Department of Agricultural Economics

Sl. No	Seminar, Conference, Winter/Summer/Refresher course/short course	Symposium, Training and	Faculty associated	Date	Venue	Attended/Organized
1.	Impact of Conservation Agriculture and Sustainable Intensification (CASI) technologies in the Eastern Gangetic Plains, South Asia		Fay Rola Rubzen, K.K.Das	Feb. 2017	Australian Agril. & Economics (AARES), Brisbane	Presented by the 1 st Author
2.	Observation of National Statistics Day 2017 by Govt. of West Bengal		A. Sarkar	June, 2017	Alipurduar District	Attended
3.	Is ZT-multi crop planter services profitable for service providers? A case study from Coochbehar, West Bengal, India		Mahajan, S. and K. K.Das	Feb, 2018	Australian Agril. & Economics (AARES), Brisbane	Presented by the 1 st Author

8.3 Department of Agricultural Entomology

Sl. No	Seminar, Conference, Winter/Summer/Refresher course/short course	Symposium, Training and	Faculty associated	Date	Venue	Attended/Organized
1.	7th International Science Congress on “Widespread Research: Strengthening Nations and Spreading Happiness”		S. K. Sahoo	December 8-9, 2017,	College of Science and Technology, Royal University of Bhutan, Chukkha, Bhutan	Attended
2.	18th All India Agriculture Universities Festival		S. K. Sahoo	February 12-16, 2018,	SVVU, Tirupati	Attended
3.	Production & Protocol for Bio-control agents, Microbial Bio-pesticides and Quality analysis of Microbial Bio-pesticides		S. K. Sahoo	June 21, 2018,	NIPHM, Hyderabad	Attended

8.4. Department of Genetics and Plant Breeding

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty associated	Date & Venue	Attended/Organized
1.	12th National Symposium on Biotic Stress Management Strategies: Challenges and Environmental Harmonization	S. K. Roy	February 17-19, 2017, UBKV, Cooch Behar	Attended
2.	“Technology transfer of Spices in West Bengal”	S. Chakraborty	February 21-22, 2017, FACC (Lake Hall), BCKV	Attended
3.	International Conference: Contemporary Issues in Integrating Climate-The Emerging Areas of Agriculture, Horticulture, Biodiversity, Forestry; Engineering Technology, Fundamental/ Applied Science and Business Management for Sustainable Development (AGROTECH)	L. Hijam	May 11-12, 2017, Kalimpong Science Centre, Kalimpong, West Bengal,	Attended
4.	1st FARMINNOVATION CONGRESS, 2018 and National Conference on “INNOVATIVE Farming For Food And Livelihood Security In Changing Climate” Organized by “Innovative Farming & Society for Advancement of Agricultural Innovations (SAAI)”	L. Hijam	January 12-13, 2018, FACC, BCKV, Kalyani, West Bengal	Attended
5.	Two days workshop organized by International Rice Research Institute through Transformative Rice Breeding Programme at ICRISAT	L. Hijam	October 26-27, 2017, ICRISAT, Hyderabad, Patancheru,	Attended

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty associated	Date & Venue	Attended/Organized
6.	Innovative farming for Food and Livelihood Security in Change Climate	M. Chakraborty	January 11-12,2018, FACC (Lake Hall), Kalyani	Attended
7.	Micropropagation techniques and physiological, biochemical & molecular interventions for sustained plant production under climate change scenario”	M. Chakraborty	2017, BHU, Varanasi.	Attended
8.	Modulation of Effector gene expression for reducing the compatibility with susceptible host plant for next generation aphid control strategy” in the national symposium on Biotic Stress Management strategy: Challenges and environmental harmonization	H. Ali Mondal	February 17-19, 2017, UBKV, Pundibari	Attended
9.	Enhancing Nutritional Security through Climate Smart Farming Practices Organized by CoochBehar Association of Cultivation for Agricultural Sciences (COBACAS)	H. Ali Mondal	March 17-18, 2017 Regional, Research, Station (Hill Zone), Kalimpong	Attended
10.	Insight to Plant Biology in the Modern Era	H. Ali Mondal	February 8-10, 2017, Bose Institute, Kolkata	Attended
11.	Metabolic profiling as a selection tool for abiotic and biotic stress tolerance in horticultural crops	H. Ali Mondal	November 27-December 6,2017 ICAR-Indian Institute of Horticultural Research, Hessaraghata Lake,Karnataka	Attended

Sl. No	Seminar, Conference, Training and Winter/Summer/Refresher course/short course	Symposium, Training and	Faculty associated	Date & Venue	Attended/Organized
12.	Empowering knowledge on protection of plant varieties, IPRs and PGR related issues in cereals		H. Ali Mondal	March 12-21,2018 Indian Institute of Wheat & Barley Research, PB-158, Agrasain Marg, Karnal	Attended
13.	Innovative Farming for Food and Livelihood Security in Changing Climate		R. Mandal	January 12-13, 2018, "Innovative Farming" organized by BCKV	Attended
14.	Recent Advance in Crop Improvement, Production and Post Harvest Technology in Potato Research		R. Mandal	July 18-August 7, 2017, ICAR-CPRI, Shimla, HP	Attended
15.	Advanced Wheat Improvement Course (Pathology Module)		S. Das	July 17- August 16, 2017 USDA,USA; INIAF, Bolivia and CIMMYT, Mexico	Attended
16.	CAFT training program on “Next generation sequencing and its application in crop sciences”		A. Kundu	December 1-21, 2017, ICAR-NRCPB, New Delhi	Attended

8.5. Department of Plant Pathology

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty associated	Date & Venue	Attended /Organized
1.	International Conference on “Contemporary Issues in Integrating Climate-The Emerging Area of Agriculture, Horticulture, Biodiversity, Forestry; Engineering Technology, Applied Science and Business Management for Sustainable Development (AGROTECH-2017)”	S. Bandyopadhyay and Dr. A. Debnath	May11-12,2017 Kalimpong Science Centre, Kalimpong, West Bengal, India	Attended
2.	Short Course on “Preparation of bioformulation of fungal and bacterial bio-control agents for management of biotic stress of agricultural crops	S. Bandyopadhyay	September1-10,2017, Assam Agricultural University, Jorhat	Attended
3.	Summer school on “Organic Farming and Conservation Agriculture for Sustainable Management of Natural Resources, Environment, Energy and Livelihood Security”	S. Khalko and S. Das	August 5-25,2017 College of Post Graduate Studies, CAU Imphal), Umiam, Meghalaya	Attended
4.	Workshop on preparedness on Occurrence of Blast Disease on Wheat	A. K. Chowdhury	September 7, 2017 Kolkata	Attended
5.	Review meeting of SRFSI, Project	A. K. Chowdhury	September 11-13, 2017, Rangpur, Bangladesh	Attended
6.	Workshop on wheat blast	A. K. Chowdhury	July 13-14,2017 Dhaka, Bangladesh	Attended

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty associated	Date & Venue	Attended /Organized
7.	Annual Dialogue of SDIP, DFAT, Australia	A. K. Chowdhury	September 7-9, 2017, Kathmandu, Nepal	Attended
8.	5th Regional Coordination meeting of ICARDA- South Asia and China Regional Program on Strategic Partnership towards enhancing food and nutritional security in South Asia and China	A. K. Chowdhury	December 5-8, 2017, NASC Complex, New Delhi	Attended
9.	Midterm Review Workshop of SRFSI Project	A. K. Chowdhury	February 12-16, 2018, Malbazar, Jalpaiguri	Attended
10.	National Symposium on Plant Health Management: Embracing Eco-Sustainable Paradigm	A. Roy	February 15-17, 2018 Assam Agril. Unuversity, Jorhat	Attended
11.	Climate Change and Agriculture Production Conference 2017	P. M. Bhattacharya	April 6-8, 2017, BAU- Sabour, Bihar	Attended
12.	Regional Dialogue on Agricultural Mechanization in South Asia	P. M. Bhattacharya	July 20-21, 2017 New Delhi, India organized by IFPRI	Attended
13.	Post Flood Monitoring Meeting	S. Bandyopadhyay	August 21, 2017 Satmile, Coochbehar	Attended
14.	National Symposium on “Challenges and perspective in plant health management under climate change scenario”	S. Hembram	November 23-24, 2017, BCKV, Mohanpur, Nadia	Attended
15.	XXVIII AICRP on spices annual workshop	A. Debnath	October 10-12, 2017, Dr. Y.S.R	Attended

Sl. No	Seminar, Conference, Training and Winter/Summer/Refresher course/short course	Symposium, Training and	Faculty associated	Date & Venue	Attended /Organized
16.	Skill development training on Vermicompost Producers		S. Bandyopadhyay	Horticultural University, at Lam, Guntur, Andhra Pradesh February 2 - March 2, 2018, UBKV, Pundibari	Organized

8.6. Department of Agricultural Statistics

Sl. No	Seminar, Conference, Training and Winter/Summer/Refresher course/short course	Symposium, Training and	Faculty associated	Date & Venue	Attended/ Organized
1.	CAFT on Recent advances in sample surveys and survey data analysis using statistical software		M. K. Debnath	Dec 1 – Dec 21, 2017, Indian Agricultural Statistics Research Institute (IASRI), New Delhi	Attended

8.7 Department of Biochemistry: Nil

8.8 Department of Soil Science and Agril. Chemistry

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty/research scholar associated	Date & Venue	Attended/Organized
1.	Annual convention of the Indian Society of Soil Science	D. Mukhopadhyay	December, 2017, Amity University, Kolkata	Attended
2.	National workshop on Innovative Nutrient Stewardship: concept, principles and applications	D. Mukhopadhyay, A. Chowdhury, A. K. Sinha, G.C. Banik, S. Deb, A. Tamang	26 – 28 March, 2018, UBKV, Pundibari	Attended
3.	CAFT training on Conservation Agriculture and Soil Health”	G. C. Banik	November 1-21, 2017, PAU, Ludhiana	Attended
4.	International conference on “Contemporary Issues in Integrating Climate- The Emerging Areas of Agriculture, Horticulture, Biodiversity, Forestry; Engineering Technology, Fundamental/ Applied Science and Business Management for Sustainable Development”	A. Tamang	May, 11-12.2017 Kalimpong, Darjeeling, West Bengal	Attended
5.	National Conference on “Nutrient and pollutants in soil-plant-animal human continuum for sustainable soil, food and nutritional security-way forward”	A. Tamang	June , 9-10, 2017, BCKV, Kalyani West Bengal	Attended

8.9 Department of Agricultural Extension

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty/research scholar associated	Date & Venue	Attended /Organized
1.	National Seminar on “Science and Mankind- A Better Tomorrow”	K. Pradhan	Feb, 22-23, 2018 ABN Seal College, WB	Attended
2.	National Seminar on “Approaches to Environment : Society, Culture, Polity and Economy”	K. Pradhan	Feb, 26-27, 2018 ABN Seal College, WB	Attended
3.	International Conference On Contemporary Issues in Integrating Climate-The Emerging Area of Agriculture, Horticulture, Biodiversity, Forestry; Engineering Technology, Applied Science and Business Management for Sustainable Development	S. Mondal	May, 11-12, 2017, Kalimpong Science Centre, Kalimpong, West Bengal, India,	Attended
4.	National Symposium on Recent Advances on Floriculture and Urban Horticulture in Global Perspective	S. Mondal	January , 4-5, 2018, BCKV	Attended
5.	Zonal Workshop on Promotion of Skill Development in Agricultural Sectors for Eastern States of India	S. Mondal	May,25,2017, BCKV	Attended
6.	21 days summer school on Dynamics if In-Tension of Ex-Tension	S. Mondal	July, 03-23, 2017, Department of Extension Education, I. Ag.Sc., BHU	Attended

8.10. Department Seed Science and Technology

Sl. No	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course	Faculty associated	Date & Venue	Attended/Organized
1.	2nd Regional Science and Technology Congress (Northern Region)-2017	B. Roy	December 7-8 2017, Siliguri College, Siliguri.	Attended
2.	Annual Rice Workers Group Meeting	B. Roy	April 8-11, 2017, AAU, Jorhat, Assam	Attended
3.	National Seminar on “Innovative Farming For Food And Livelihood Security In Changing Climate”	P. Dutta	January 12-13, 2018 at FACC, BCKV, Kalyani, West Bengal	Attended

9.0. MEMBERS OF ACADEMIC SOCIETIES

Faculties and research scholars of different Departments are also associated with various scientific bodies nationally as well as Internationally.

9.1. Department of Agronomy

Sl. No.	Name of Academic Societies	Faculties associated
1.	Indian Society of Agronomy	A. K. Singha Roy, S. Bandyopadhyay, B. Mitra, T. Paul
2.	Indian Society for Plant Physiology	S. Bandyopadhyay
3.	Association of Rice Research Workers (ARRW)	A. Saha, B. Mitra
4.	Crop and Weed Science Society	A. Saha, A. K. Singha Roy, S. Bandyopadhyay, B. Mitra, T. Paul
5.	Indian Meteorological Society	S. Bandyopadhyay
6.	Animal Nutrition & Feed Technology	D. K. Hajra
7.	Indian Poultry Science Association	D. K. Hajra
8.	Veterinary Council of India	D. K. Hajra
9.	Cooch Behar Association for Cultivation of Agricultural Sciences (COBACAS)	A. Saha, A. K. Singha Roy, S. Bandyopadhyay, B. Mitra, T. Paul

9.2. Department of Agricultural Economics

Sl. No.	Name of Academic Societies	Faculties associated
1.	Indian Society of Agricultural Economics	A.Sarkar, K. K. Das, T.N. Roy
2.	Crop and Weed Science Society	A.Sarkar, K. K. Das
3.	Cooch Behar Association for Cultivation of Agricultural Sciences (COBACAS)	A.Sarkar, K.K. Das, T.N. Roy, G. Mula
4.	Society for Advancement of Human and Nature	K.K. Das
5.	Agricultural Economic Research Association	G. Mula

9.3. Department of Agricultural Entomology

Sl. No.	Name of Academic Societies	Faculties associated
1.	Society for Biocontrol Advancement, NBAIR	N. Laskar
2.	Cooch Behar Association for Cultivation of Agricultural Sciences (COBACAS)	N. Laskar, J. Ghosh, S. K. Sahoo, M. Chatterjee, D. Chakraborty, Prof. T.K. Hath
3.	Society for Plant Protection and Environment, OUAT	N. Laskar, Prof. T.K. Hath
4.	Society for Crop and Weed Science, BCKV	J. Ghosh
5.	Entomological Society of India, New Delhi	S. K. Sahoo

9.4. Department of Genetics and Plant Breeding

Sl. No.	Name of Academic Societies	Faculties associated
1.	Association of Rice Research Workers (ARRW), CRRI, Cuttack	S. K. Roy
2.	Indian Society of Genetics & Plant Breeding (ISGPB), New Delhi	S. K. Roy, S. Chakraborty, S. Das, A. Kundu, L. Hijam
3.	Indian Fibre Society, Mumbai	S. K. Roy
4.	Indian Society of Plant Genetic Resources, New Delhi	S. K. Roy,
5.	Crop and Weed Science Society, Mohanpur, Nadia, West Bengal	S. K. Roy, A. Sarkar, S. Das, L. Hijam
6.	Cooch Behar Association for Cultivation of Agricultural Sciences (COBACAS), Cooch Behar	S. K. Roy, A. Sarkar, S. Das, A. Kundu, R. Mandal, M. Chakraborty, L. Hijam, H. Ali. Mondal
7.	The Indian Natural Fibre Society, NIRJAFT	S. K. Roy,
8.	Indian Society of Plant Breeders, TNAU	S. K. Roy,
9.	Indian Association of Agricultural and Horticultural Sciences, Kolkata	S. Chakraborty,
10.	Medicinal and Aromatic Plant Society of India, Directorate of Medicinal and Aromatic Plants, Boriavi, Anand Gujrat	S. Chakraborty,

Sl. No.	Name of Academic Societies	Faculties associated
11.	Association for Plant Breeding and Improvement, Institute of Agricultural Science, 35-Ballygunge Circular Road, Kolkata	S. Chakraborty,
12.	Indian Science Congress Association, Biresh Guha Street, Kolkata	A. Sarkar, S. Chakraborty,
13.	Society for Advancement of wheat & Barley Research in India, Karnal, Haryana	S. Das
14.	Seed Science Society of Bangladesh, Mymensingh, Bangladesh	S. Das
15.	Indian Society of Tuber Crops, CTCRI, Tamil Nadu	R. Mandal
16.	Society for advancement of rice research, Hyderabad	L. Hijam
17.	Society of biotechnology and bioinformatics, Bhubaneshwar, Orissa	L. Hijam
18.	Indian Society of Spices, Kozikode, Kerala	S. Chakraborty

9.5. Department of Plant Pathology

Sl. No.	Name of Academic Societies	Faculties associated
1.	Indian Phytopathological Society	A. K. Chowdhury, A. Roy, P.M. Bhattacharya, S. Bandyopadhyay, S. Khalko, S. Hembram, A. Debnath, Srimal Das
2.	American Phytopathological Society	A.K. Chowdhury, A. Roy, P.M. Bhattacharya, S. Bandyopadhyay, S. Khalko, S. Hembram
3.	Indian Society of Mycology and Plant Pathology	A.K. Chowdhury, A. Roy, P.M. Bhattacharya, S. Bandyopadhyay
4.	Indian Mycological Society	A.K. Chowdhury, P.M. Bhattacharya, A. Roy
5.	Coochbehar Association for Cultivation of Agricultural Sciences	A.K. Chowdhury, A. Roy, P.M. Bhattacharya, S. Bandyopadhyay, S.Khalko, S. Hembram

Sl. No.	Name of Academic Societies	Faculties associated
6.	Indian Science Congress Association	A. K. Chowdhury
7.	Society for Advancement of Wheat Research	A.K. Chowdhury
8.	Asian PGPR Society	A.K. Chowdhury, A. Roy, S. Bandyopadhyay and S. Hembram
9.	Indian Natural Fibre Society	A. Roy
10.	Bioscan	P.M. Bhattacharya, A. Roy
11.	Society for Advancement of Wheat Research	A.K. Chowdhury, P.M. Bhattacharya
12.	The Agriculture Society of India	S. Bandyopadhyay
13.	Crop and weed science society	S. Khalko

9.6. Department of Agricultural Statistics

Sl. No.	Name of Academic Societies	Faculties associated
1.	Indian Society of Agricultural Statistics, IASRI, Pusa, New Delhi	D.S. Gupta
2.	Crop and Weed Science Society, B.C.K.V. Mohanpur, Nadia, West Bengal	D.S. Gupta, A. Ghosh
3.	COBACAS, UBKV, Pundibari, West Bengal	D.S. Gupta
4.	Application of Statistics in Agriculture and Allied Sciences (SASAA)	D.S. Gupta, M. K. Debnath, A. Ghosh
5.	Indian Society of Remote Sensing, Dehradun	M. K. Debnath

9.7. Department of Biochemistry

Sl. No.	Name of Academic Societies	Faculties associated
1.	Society of Pesticide Science India, New Delhi	G.K. Pandit
2.	Crop and Weed Science Society, BCKV, Nadia, West Bengal	G.K. Pandit
3.	COBACAS, UBKV, Pundibari, West Bengal	G.K. Pandit, P. Mondal, N. Sahana

Sl. No.	Name of Academic Societies	Faculties associated
4.	Society of Plant Biochemistry and Biotechnology, New Delhi	S. Mandal
5.	Indian Virological Society, New Delhi	N. Sahana
6.	Indian Phytopathological Society, New Delhi	N. Sahana

9.8. Department of Soil Science and Agril. Chemistry

Sl. No.	Name of Academic Societies	Faculties associated
1.	Indian Society of Soil Science	D. Mukhopadhyay, A. Choudhury, A.K. Sinha, G.C. Banik, A. Tamang
2.	Indian Science Congress Association	D. Mukhopadhyay, A. Tamang
3.	Cooch Behar Association for Cultivation of Agricultural Sciences	D. Mukhopadhyay, A. Choudhury, A.K. Sinha, G.C. Banik, A. Tamang, S. Deb
4.	Journal of Agriculture and Technology	D. Mukhopadhyay
5.	Indian Society of Remote Sensing	S. Deb

9.9. Department of Agril. Extension

Sl. No.	Name of Academic Societies	Faculties associated
1.	Society of Extension Education, Agra	K. Pradhan
2.	Society of Extension Education, Bhubaneswar	K. Pradhan
3.	Cooch Behar Association for Cultivation of Agricultural Sciences	P. K. Pal, K. Pradhan, S. Mandal, D. Roy, L. Das
4.	Crop and Weed Science Society, BCKV	K. Pradhan
5.	Foundation for Science and Environment, Kolkata	K. Pradhan
6.	Global Association for Humanities and Social Science Research	K. Pradhan
7.	International Society for Research and Development	K. Pradhan

9.10. Department of Seed Science and Technology

Sl. No.	Name of Academic Societies	Faculties associated
1.	Seed Science Society of Bangladesh, BAU	B. Roy
2.	Crop and Weed Science Society	B. Roy
3.	Indian Society of Plant Genetic Resources	B. Roy
4.	Indian Society of Genetics and Plant Breeding	B. Roy
5.	Indian Science Congress Association	B. Roy
6.	Cooch Behar Association for Cultivation of Agricultural Sciences	B. Roy, P. Dutta, U Maity
7.	Association for Advancement of Rice	B. Roy
8.	Society for Application of Statistics in Agriculture and Allied Sciences	P. Dutta

10.0. CAMPUS COUNSELLING AND PLACEMENT CELL

The Campus Counselling cum Placement Cell (CCPC) is an extension of the academic pursuit of the University. It guides and prepares students to excel in careers, both academic and professional, through diversified exposures both within and outside the campus. The Cell regularly engages the students in activities and expert lectures from academic and corporate world. It also disseminates information among the students about the opportunities available to them through internet, newspapers, websites, departmental notices, social networking sites etc. The placement cell encourages students to work as a team and be responsible collectively for the decisions they make for the placement cell. These experiences help students to inculcate leadership quality and team management skills.

- Campus Counselling cum Placement Cell is reconstituted in 2016 with an *ad hoc* committee in the university is led by a placement officer.
- The Cell is functioning with a very clear objective of ensuring a higher placement record and a better reach to the students of the University.
- A ‘Placement Awareness Meeting’ was conducted, under which, the Members of the Campus counselling cum placement cell members had briefed the rules, regulation, registration process of the Campus counselling cum placement cell and its planned activities in front of the students representatives of different years.
- Conducted four meetings among the members of the cell .
- One guideline for Campus counselling cum placement cell has been prepared for conducting the on campus and off campus interviews of the students to place the highly talented, enthusiastic, competent and potential graduates of the University.
- One Career Counselling Session was organised jointly by AGRI-CAREER and the Campus counselling and placement cell at Swami Vivekananda Hall, Uttar Banga Krishi Viswavidyalaya at Pundibari, Coochbehar on 29.05.2018.
- Already invited several companies namely Mahindra and Mahindra Limited, Sonalika International Tractor Limited, TAFE, Pick N Serve Foods Private Limited, PRADAN, Dhanuka Agritech Limited, etc. for conducting campus interviews through “Invitation to Employer” letter (Annexure-III) and registered the students under the cell with the help of “Registration Form” for students.
- Successfully conducted a campus interview for engaging the students in Tata Rallis Private Limited.
- Two students from Faculty of Horticulture and Faculty of Agriculture were shortlisted by the company.
- One students from M.Sc.(Ag) got the job in Axis bank.

11.0. ACADEMIC ACHIEVEMENTS

The performance of the students at different all India level examination is praiseworthy. In order to improve the academic standards and achievement of the students, a Competitive Examination Coaching Cell has been formed under the leadership of a good number of young dedicated teachers who organize special classes / mock tests / coaching of the students for JRF, SRF, NET, GATE etc. this committee works both at Faculty level as well as at the College of Agriculture, Majhian. This has improved the performance of the students to a great extent as evident below:

11.1. List of Successful Students for ICAR-NET Exam (2018)

(Total Number of Successful candidates: 22)

Sl. No.	Name	Discipline Name	NET
1	Deo Kumar	Soil Sciences	YES
2	Parijat Dey	Soil Sciences	YES
3	Aparajita Das	Genetics & Plant Breeding	YES
4	Sanghamitra Rout	Genetics & Plant Breeding	YES
5	Jince Mary	Agronomy	YES
6	Subhrajyoti Panda	Ag. Extension	YES
7	Sekhar Khade	Ag. Economics	YES
8	Parimi Asha Devi	Plant Pathology	YES
9	Swarnavo Chakraborty	Plant Pathology	YES
10	Sinija Das K	Plant Pathology	YES
11	Aparajita Dhar	Plant Pathology	YES
12	Sushmita Jha	Plant Pathology	YES
13	Ranjana Devi	Plant Pathology	YES
14	Debayan Mondal	Plant Biochemistry	YES
15	Arpita Baidya	Ag. Entomology	YES
16	Ajit Kumar Sahu	Ag. Entomology	YES
17	N. Ponnusamy	Ag. Entomology	YES
18	B. K. Sreedhar	Ag. Entomology	YES
19	Umesh Das	Ag. Entomology	YES
20	Biwash Gurung	Ag. Entomology	YES
21	Soumitra Shankar	Ag. Statistics	YES
22	Manish Roy	Seed Science & Technology	YES

11.2. List of Successful Students in ARS (Preliminary) Examinations (2018):

(Total Number of Successful candidates: 06)

Sl. No.	Name	Discipline Name	ARS (Preliminary)
1.	Subhrajyoti Panda	Ag. Extension	YES
2.	Sekhar Khade	Ag. Economics	YES
3.	Parimi Asha Devi	Plant Pathology	YES
4.	Debayan Mondal	Plant Biochemistry	YES
5.	Suman Natta	Plant Biochemistry	YES
6.	Soumitra Shankar	Ag. Statistics	YES

11.3. List of Successful Students in JNU-CEEB-(2018)

(Total Number of Successful candidates: 15)

Sl No.	Name	AIR Rank	Category Rank	College
1.	Samrat Das	1	GEN-1	CoA, Majhian
2.	Sohel Rahaman	2	OBC-1	CoA, Pundibari
3.	Kingshuk Das	3	GEN-3	CoA, Pundibari
4.	Deepanwita Goswami	5	GEN-5	CoA, Pundibari
5.	Amitha Paul	8	GEN-8	CoA, Pundibari
6.	Partho Mondal	14	GEN-14	CoA, Majhian
7.	Jeet Roy	19	SC-2	CoA, Pundibari
8.	Nithya	23		CoA, Pundibari
9.	Jasmeen Khandakar	27	OBC-8	CoA, Pundibari
10.	Sovanlal Sahu	29	OBC-9	CoA, Pundibari
11.	Debjani Mondal	35	SC-3	CoA, Pundibari
12.	Sudipta Biswas	39	GEN-39	CoA, Majhian
13.	Madhurima Biswas	42	GEN-40 SC-4	CoA, Pundibari
14.	Oindrila Debsharma	53	GEN-53	CoA, Pundibari
15.	Shreya Mondal	65	SC-5	CoA, Majhian

11.4. List of Successful Students in JNU-CEEB-(2017)

Total Number of Successful candidates: 08

Sl. No.	Name	AIR Rank
1	SnigdhaMondal	Gen-13 (OBC-8)
2	Zaherul Islam	Gen-15 (OBC-9)
3	SoumyadeepBasak	Gen-18 (OBC-12)
4	ShahnoorAlam	Gen-34 (OBC-19)
5	RaktimMitra	Gen-40
6	SohiniTalukdar	Gen-64
7	Naresh Kr. Samhal	Gen-65 (SC-3)
8	ArindamShannigrahi	Gen-82

11.5. List of Successful Students for ICAR-NET Exam (2017)

Total Number of Successful candidates: 15

Sl. No.	Name	Subject
1	AvishekSaha	Ag. Extension
2	SatarupaModak	Ag. Extension
3	Rakesh S.	Soil Science
4	P. Jogarao	Soil Science
6	SusmitaJha	Plant Pathology
7	Abhijith M.	Plant Pathology
8	M. Ranjana Devi	Plant Pathology
9	SwarnavoChakraborty	Plant Pathology
10	TripteshMondal	Agronomy
11	AnweshRai	Agronomy
12	JaladharGorain	Agronomy
13	AugustinaSaha	Agronomy
14	KoushikPatra	Agronomy
15	DebayanMondal	Biochemistry

11.6. List of Successful Students for ICAR-SRF Exam (2017)

Total Number of Successful candidates: 02

Sl. No.	Name	Subject	AIR
1	DebayanMondal	Biochemistry	2
2	Subhrajyoti Panda	Ag. Extension	8

11.7. List of Successful Students in ICAR JRF (2017)

Total Number of Successful candidates: 22

Sl. No.	Name	Category	Exam	Subject	AIR	Placement & Fellowship
1	Khurshid Alam	UR	ICAR PG (AIEEA-PG)	Physical Science	2	IARI JRF
2	Abhishek Das	SC	ICAR PG (AIEEA-PG)	Physical Science	3	IARI JRF
3	Samrat Ghosh	OBC	ICAR PG (AIEEA-PG)	Physical Science	6	PAU JRF
4	Subhasis Sarkar	SC	ICAR PG (AIEEA-PG)	Physical Science	8	IARI NTS
5	Joy Dutta	OBC	ICAR PG (AIEEA-PG)	Physical Science	14	BCKV JRF
6	Rahul Karjee	ST	ICAR PG (AIEEA-PG)	Physical Science	ST-1	IARI JRF
7	ArnabKundu	OBC	ICAR PG (AIEEA-PG)	Physical Science	OBC-2	BHU JRF
8	Deepayan Roy	SC	ICAR PG (AIEEA-PG)	Plant Science	10	G.B. PANT JRF
9	SnigdhaMondal	OBC	ICAR PG (AIEEA-PG)	Plant Science	12	BHU JRF
10	Sailesh Deb Karjee	ST	ICAR PG (AIEEA-PG)	Agronomy	ST-1	G.B. PANT JRF
11	Sripriya Das	OBC	ICAR PG (AIEEA-PG)	Agronomy	6	BHU JRF
12	Basudeb Ghosh	UR	ICAR PG (AIEEA-PG)	Agronomy	35	OUAT JRF
13	Krishna Pada Sarkar	UR	ICAR PG (AIEEA-PG)	Statistics	1	IASRI JRF
14	Amit Saha	SC	ICAR PG (AIEEA-PG)	Statistics	3	IASRI JRF
15	Zahirul Islam	UR	ICAR PG (AIEEA-PG)	Biotechnology	2	IARI JRF
16	ShahnoorAlam	UR	ICAR PG (AIEEA-PG)	Biotechnology	7	IARI JRF
17	RaktimMitra	UR	ICAR PG (AIEEA-PG)	Biotechnology	9	IARI JRF
18	Naresh Kumar Shamal	SC	ICAR PG (AIEEA-PG)	Biotechnology	SC-1	IARI JRF
19	SohiniTalukdar	UR	ICAR PG (AIEEA-PG)	Biotechnology	16	PAU JRF
20	Nandini Saha	UR	ICAR PG (AIEEA-PG)	Social Science	2	IARI JRF
21	RakeshSardar	SC	ICAR PG (AIEEA-PG)	Entomology	2	BCKV JRF
22	Mrityunjoy Barman	Sc	ICAR PG (AIEEA-PG)	Entomology	4	GBPAUT, JRF

12.0. ENTREPRENEURSHIP DEVELOPMENT PROGRAMME:

In the changing higher agricultural education scenario, the all around development of the student and developing the entrepreneurial skill of student to transform their mindset from 'job seaker' to 'job giver', one sensitization workshop was organized by Faculty of Agriculture on 08.02.2018 to make the students' aware about different agri-entrepreneurial opportunities and available funding for the same. The expert from IIT, Kharagpur, Dr. (Mrs.) M. Bhattacharya conducted the session in presence of final year, undergraduate & post graduate students.

13.0. STUDENT DEVELOPMENT PROGRAMME

The Deputy Dean, Research and Innovation, Curtin Business School, Curtin University, Australia, Dr. Fay Rola Rubzen delivered a lecture entitled "Participating in global agribusiness chains: Issues, Challenges and opportunities for small holder farmers" on 20.2.2018 in presence of 80 UG & PG students and faculties.

On 8.3.2018, Swami Siva Purnananda of Ramkrishna Vivekananda University delivered a motivational speech on Human Values and Ethics to motivate the UG & PG students. Eighty UG & PG students participated in this programme.

Under special Lecture series, Dr. J.K. Saha, Head, Division of Environmental Soil Science, ICAR, IISS, Bhopal delivered a lecture on "Impact of soil pollution on agriculture and remediation strategies" on 15.3.2018 and participation from the students, teacher, officers and others staff was overwhelming.

On "Application of Nano-technology in agriculture and productivity enhancement", Dr. J.C. Tarafder, FDAAD, FAvH, FNAAS, FiSSS, FISSRS, ICAR-CAZRI, Jodhpur delivered a special lecture for the students Faculties and other staff on 23.3.2018. The Vice Chancellor, Deans of the Faculties, Directors of the University, Students, Teachers, Officers and other staff attended the programme.

One special session was organized for UG & PG students to give an exposure on epigenetics. The invited renowned Shanti Swarup Bhatnagar Award and Banga Ratna Award recipient Dr. Tapas Kr. Kundu has delivered a lecture on "Epigenetics, life beyond gene sequence: Implications in human and plant health" on 29.3.2018 to entrance the research acumen of 150 PG students.

Apart from these programmes, the following programmes were organized in last couple of months to strengthen the knowledge base of researcher as well as faculties.

Sl. No.	Special Lecture Delivered by	Special Lecture on	Date
1	Dr. Pranab Dutta, Associate Prof. Assam Agriculture University, Jorhat	Nanobiotechnology for better plant health management	19 th June, 2018
2	Dr. R. K. Walia, Project Coordinator, AICRP(Nematode), IARI	Problems of Nematodes in Agriculture and their Management	20 th June, 2018
3	Dr. Tirthankar Basu, Manager(Product Development), Hindusthan Insecticide Limited (Govt. of India Enterprise)	Issues and Challenges in Agrichemical application- Needs for strategic approach to International Chemical (Pesticide) Management	27 th June, 2018
4	B.K. Chitta Ranjan Bhai, Director of Peace of mind TV. Mt. Abu, Rajasthan	Self Management for Personal Development to improve the working skills	18 th July, 2018



14.0. OBSERVANCE OF DIFFERENT NATIONAL/ INTER-NATIONAL DAY/ EVENT

1. World Honey Bee day:

World Honey bee day was celebrated two times at a row during the year 2017, 2018 by the Department of Agricultural Entomology in collaboration with NABARD for wide publicity and development of awareness about Honey bee and scientific bee keeping among the farming community.

2. National Statistics Day:

12th National Statistics Day on 29th June, 2018 has been celebrated at Department of Agril. Statistics, Faculty of Agriculture, UBKV, Pundibari to commemorate the anniversary of Late Prof. P.C. Mahalanabish, the father of Statistics in India. The ceremony was attended by good number of teachers and students.

3. World Environment Day:

Celebrated on 5th June, 2018 with the help of the active participation of the students. The programme was started with plantation of trees, Model/exhibits competition among the students and earmarking of Campus waste dumping pit.

4. Green Initiatives taken:

“One Student One Tree” was launched by the Vice Chancellor Dr. C. Chattopadhyay on 19.09.2017 at the Faculty where all the first year students (2017-18 batch) planted one tree each and they will maintain their respective plant throughout their entire graduation period and at the final year the best performing students will be rewarded based on the recommendation of an expert committee. The programme was also attended by the Deans of the Faculties, Teachers and Officers of the University. The initiative has been continued in the year 2018 on the same day with the 1st year UG students of the faculty.

15.0. SPORTS AND GAMES ACTIVITIES

All the required facilities for games and sports, cultural and literary activities have been provided to students. Well maintained sports fields are within the campus. Each hostel has been provided with table tennis set, badminton court and other indoor games facilities. University has also developed a Gymnasium for their regular fitness.

UBKV Football Team: University is having a good football team. They play inhouse and outdoor tournaments.

Inter Year Football League (2017-18) for boys was held during 02/09/2017-04/09/2017 in the Pundibari campus.



INDOOR GAME-2017-18 was held between 18 and 20 February, 2018. It was started after completion of End Term Examinations. The Venue was common room of PCM Hostel for Boys and common room of Teesta Girls Hostel for Girl's students. Events were 1.CARROM BOARD 2.TABLE TENNIS 3.LUDO 4.CARDS (Game – 29 only) & 5.CHESS. A total 107 players participated in the competition.

BADMINTON LEAGUE-2017-18 was held in the Badminton Court of PCM hostel for Boys and of Teesta Girls hostel for Girls during 10-12 September, 2017. The winner was RAHUL DAS and runners up was AINUL BARI MALITHA in Boys category and among the Girls the winner was Dipika Barua and runner up was Tania.

INTER YEAR VOLLEY LEAGUE (2017-18) was held during 30/12/2017–01/01/2018 . Out of seven team participating in the League, the Winner was 2nd Year M. Sc. (Dragger) and the Runners up was 1st Year (Ph. D.) (Boomer)

UPL Cricket Tournament (UPL - 2017 on 23.12.2017)

The UPL Cricket Tournament (UPL' 17 on 23.12.2017) was first of its kind in the University history. Students participated enthusiastically. It was one of the modes to release peer pressure of their course load and various academic activities.

Cultural Activities:

Cultural activity is a part and parcel of student fraternity. Anyone can find all the cultural school in UBKV campus among which the north eastern, south Indian students are predominant in addition to Bengali culture. UBKV is an example of UNITY IN DIVERSITY. Throughout the year various cultural activities are being organized.

FRESHERS' WELCOME CEREMONY- Dated on-30th October, 2017

The annual freshers ceremony was organized on the 30th October 2017. The chief guest for the day was Dr.Chirantan Chattopadhyay the Honourable Vice-Chancellor of Uttar Banga Krishi Viswavidyalaya and among the other dignitaries were Prof T.K. Hath , Dean Faculty of Agriculture , Dr J.C. Jana, Dean Faculty of Horticulture, Dr. Amrit Tamang, D.S.W. and Dr. Amarendu Mondal, Resident Superintendent cum NSS Coordinator.

The program began at around 6P.M. in the evening. The program started with the lighting of the lamp by the Honourable Vice-Chancellor, followed by the speeches by all the dignitaries invited.



ANNUAL SOCIAL-2018:

The Socials for the year 2018 was organised on the 22nd of April and continued till the 24th of April, 2018. The chief guest for the day was Dr. Chirantan Chattopadhyay, the Hon'able Vice-Chancellor of Uttar Banga Krishi Viswavidyalaya and among the other dignitaries were Prof. T. K. Hath , Dean Faculty of Agriculture , Prof. J.C. Jana, Dean Faculty of Horticulture, Prof. D. Mukhopadhyay, Dean Students Welfare and Dr. A. Mondal ,Resident Superintendent cum NSS Coordinator. There were lots of events held within those three days programme. On the first day the students of U.B.K.V. performed on the stage.



Foundation day Celebration : 1st February, -2018



Participation of the UBKV students in 18th All India Inter Agricultural Universities Youth Festival (12th to 16th February 2018) At Sri Venkateswara Veterinary University (SVVU), Tirupati

In the 18th AgriUnifest from our university, 24 students and 2 teachers had participated which was held at Sri Venkateswara Veterinary University (SVVU), Tirupati from 12 to 16th February, 2018. Our students had participated in the 8 events (One Act Play, Mime, Group song, Light vocal, Quiz, Collage, Patriotic song and Mono acting) out of 18 events and they performed well.

Annual Athletic Meet – 2018 : The annual athletic meet of the University was held on 9th March, 2018 at the Main campus of UBKV, where Sri Goutam Sarkar, the eminent sports personnel came to grace the occasion. The students of both the campus participated in different events with full of enthusiasm and zeal.



Annual Athletic Meet (9th March,2018)

UBKV NSS Activity 2017-18

5 th June, 2017	World environment day celebration with orientation and plantation.
18 th August, 2017	Orientation Camp on disaster management
18 th - 20 th August, 2017	Fund and Cloth collected for Flood affected victims
1 st February, 2018	18 th Foundation Day Celebration
	Clean Campus Green Campus and Friendly Match
7 th March, 2018	Green Plantation Training Program (to students of Sunity Academy Cooch Behar) by NSS Volunteers
20 th April, 2018	Voluntary Blood Donation camp by NSS Cell
23 rd April, 2018	UBKV Marathon-2018
21 st June, 2018	International Yoga Day

The blood donation camp was organized by NSS Cell, UBKV on, 20th of April, 2018 at UBKV Campus Gymnasium hall in association with the West Bengal State Blood Transfusion Council

(WBSBTC). The programme was a full day basis, with a steady torrent of donors throughout the day. The UBKV Medical Officer – Dr. Ajit Kumar Roy, NSS Advisory council NSS Programme Officer, Unit – I,



Dr. Nazir Ahmad Pala, PCM Steward – Mr.SanjibDey with their Unit Volunteers arranged the camp with all necessary services for this camp. The gymnasium hall was full with young UBKVians along with faculty members, officers and Non-Teaching staff. The valuable presence of the Registrar, Prof. SubendhuBandyopadhyay Dean, Students' Welfare Prof. DibyenduMukhopadhyay, Dean P G Studies Prof. Satyendra Chandra Sarkar and other dignitaries made this occasion auspicious..

International Yoga Day Celebration on 21st June, 2018:

The International Yoga Day was celebrated by the students of UBKV in presence of the physical instructors to convey the message of practicing Yoga for building up the healthy body for the healthy nation.



16.0. OTHER ACTIVITIES

16.1. Department of Agronomy

- i. A Number of thesis was evaluated for M.Sc. (Ag.) and Ph.D. Degree.
- ii. Faculty members are involved as External Examiner in other Agriculture Universities and Central Universities (BCKV, Visva-Bharati, CAU, Tripura University, etc).
- iii. Faculty members are acted as resource persons in different training programmes organized by the line departments of the state, NABARD, KVKs, NGOs, etc.
- iv. Member, Board of Research Studies, BCKV.
- v. Selection Committee Member in various Universities.

16.2 Department of Agricultural Economics

- i. Director of Extension Education (Actg.): Prof. S. C. Sarker.
- ii. In-Charge, Regional Research Station, Terai Zone: Prof. A. Sarker.
- iii. Chairman, Intellectual Property & Technology Management Committee (IP&TM): Prof. A. Sarker.

16.3. Department of Agricultural Entomology

- i. The Department of Agricultural Entomology celebrated **World Honey Bee Day - 2017** on 21st August, 2017 in association with National Bank for Agriculture and Rural Development (NABARD). Interested farmers and bee keepers of northern districts of West Bengal were invited in the programme. Dignitaries of University, experts in the concerned field, officials of line departments, Government of West Bengal were invited in the World Honey Bee Day celebration programme. Objective of the programme were to aware the farmers regarding bee keeping and promotion of bee keeping among the farming community. Experts delivered lectures on the role of bee keeping in uplifting rural livelihood and entrepreneurship development based on bee keeping. Bee keeping equipments were demonstrated during the programme.
- ii. 12th National Symposium on Biotic Stress Management Strategies: Challenges Environmental Harmonization on 17-19th February, 2017 have been organised in association with Society of Plant Protection Sciences, New Delhi.
- iii. P. G. students from Department of Zoology, ABN Seal College, Cooch Behar visited the Department on 17th June, 2017 and 18th December, 2017 guided by

two teachers of the College. Teachers of the Department delivered lectures on Basic Entomological aspects. Field visits were also conducted at the Crop Museum at Instructional Field maintained by the Department of Entomology. (Number of students, name of the teachers to be mentioned).

- iv. Students from different schools also visit the Department from time to time as a part of their educational tour/visits.
- v. Farmers from different districts also come in the Department for advisory round the year. Advisory are provided as per their requirement.
- iv. Three days residential farmers training on Bee keeping conducted successfully in association with Cooch Behar KVK and NABARD from 05 – 07 February, 2018.
- v. Cooch Behar district agricultural input dealers visited the department on 21st December, 2017. Teachers of the Department delivered valuable lectures before them so as to enrich their know how on crop production and protection. Students from various schools visited the Department as a part of their education exposure on 20th April, 25th April, 27th July, 21st November, 2017.
- vi. Teachers of the Department of Agricultural Entomology are also associated in other multiple assignments like Volantary Centre on AICRP-Biological Control, ELP on biological control agent mass production, Bringing Green Revolution in Eastern India (BGREI), GoWB- ICARDA and NMOOP projects etc.

16.4. Department of Agricultural Statistics

- i. Faculties of the Department are associated with various Administrative, research and academic body of the University.
- ii. Faculties regularly act as esource person in different workshops, seminar, trainings etc.
- iii. **Celebration of 11th National Statistics Day** : The theme selected for the Statistics Day for the year 2017 was “Administrative Statistics”. Statistics Day was also celebrated throughout the country by the field offices of National Sample Survey Office, State Governments and Universities/Departments by organizing Seminars, Conferences, Debates, Quiz Programmes, Lectures, Essay Competitions, etc. The department of Agricultural Statistics, UBKV, Pundibariwas taken initiative to celebrate national statistics day on the eve of Late Professor Prasanta Chandra Mahalanobis 125th birth anniversary on 29th June, 2017.

16.5. Department of Agricultural Extension

- i. Faculties of the Department are associated with various Research, Academic and Administrative activities of University.
- ii. Faculties of Department are involved in evaluation of M.Sc and Ph D thesis of other Universities.
- iii. Faculties of Department are setters of question papers of other Universities.

16.6. Department of Biochemistry

- i. Faculties of the Department are associated with various Administrative, research and academic body of the University.
- ii. Faculties regularly act as resource person in different workshops, seminar, trainings etc.

16.7. Department of Plant Pathology

- i. Faculties of the Department are associated with various administrative, research and academic body of the University.
- ii. Faculties regularly act as resource person in different workshops, seminar, trainings etc.
- iii. Certificate course on Mushroom Production are regularly being conducted by the Department for development of rural entrepreneurship. Four number of one month course on Mushroom production were held during the period of January, 2017 to August, 2018 and forty six participants successfully completed the course.
- iv. Certificate course on mushroom spawn production is also being conducted by the faculties of the Department for rural entrepreneur development. Three number of one month course on Mushroom production were held during the period of January, 2017 to August, 2018 and eighteen participants successfully completed the course.
- vi. Organized 12th National Symposium on Biotic Stress Management Strategies : Challenges Environmental Harmonization on 17-19th February, 2017 have been organised in association with Society of Plant Protection Sciences, New Delhi.
- vii. UG students from different colleges of North Bengal University made exposure visit to the department for getting knowledge of fundamental and practical aspects in the domain of Plant Pathology.

- viii. Students from different schools also visit the Department from time to time as a part of their educational tour/visits.
- ix. Faculties are also involved as question setter, examiner of other Universities.
- x. Faculties also evaluated Ph.D. thesis of other Universities.
- xi. Faculties regularly reviewed research papers of several peer journals.
- xii. Prof. A.K. Chowdhury is performing as one of the Advisors of Department of Biotechnology, Govt. of India.



Inaugartion programme on Certificate course of Mushroom Cultivation and Processing



Demonstration of mushroom cultivation practices

16.8. Department of Genetics and Plant Breeding

- i. Faculties of the Department are associated with various administrative, research and academic body of the University.
- ii. Faculties regularly act as resource person in different workshops, seminar, trainings etc.
- iii. Faculties of the Department are acted as Reviewer of Journals like, Oryza, NRRI, Cuttack, Orissa, Journal of Crop and Weed, BCKV, West Bengal, Journal of Agriculture and Technology, UBKV, Cooch Behar, West Bengal, Electronic Journal of Plant Breeding, TNAU, Coimbatore, Tamil Nadu, American Journal of Plant Sciences (Scientific Research Publishing), Journal Bioinfo Publications, International Journal of Agriculture Sciences, Biosciences Biotechnology Research Asia, African Journal of Plant Science, African Journal of Food Science, Indian Journal of Science and Technology, Journal of Wheat & Barley Research, SAWBR, Karnal, Haryana.
- iv. Faculties of the Department are acting as External Examiner in different Universities.
- v. Faculties are engaged as various academic and extension programme as resource person round the year. Faculties of the Department contributed as a breeder in developing a Ginger variety **Mohini** (UBKV AADA-1) which has been notified for national release throughout India in ginger growing states by Department of Agriculture and Farmers Welfare, Govt. of India on 16th January, 2018. Novel and distinguishing Characteristics of the variety: (a) Bold size, (b) high yield, (c) high dry recovery content, (d) high range of essential oil and oleoresin content.
- vi. Teachers of the Department are also associated as editorial committee member, editorial board member etc of different academic bodies across the country as well as world.

16.9 Department of Soil Science and Agricultural Chemistry

- i. Faculties of the Department are associated with various administrative, research and academic body of the University.
- ii. Faculties regularly act as resource person in different workshops, seminar, trainings etc. and also act as reviewer of different Journal, external examiner of various Universities.
- iii. Department of Soil Science and Agriculture Chemistry under the faculty of Agriculture of Uttar Banga Krishi Viswavidyalaya in collaboration with International Plant Nutrition Institute, Canada organised a National workshop at UBKV main campus in Pundibari, W.B. during 26th - 28th March, 2018. Eminent speakers in the field of Soil Science and Agronomy delivered lecture to the scientists, P.G. students and industry persons.

16.10 Department of Seed Science and Technology

- i. Faculties of Department are associated with various research, academic and administrative body of the University
- ii. Faculty members are involved as external examiner in other Agricultural Universities.
- iii. Faculties are associated with setting of question paper of other Universities

17. COLLEGE OF AGRICULTURE, MAJHIAN

History and Genesis

The successful performance of the university as well as the agricultural graduates for the improvement of agricultural scenario of the state proved the importance of education in agriculture. The State Government decided to establish one college of Agriculture at Tapan, Dakshin Dinajpur (Vide G.O. No. 3295-AG/O/9 M(U) 05/2015, dated 15.04.2014) as an extended Campus of Uttar Banga Krishi Viswavidyalaya from the academic year 2014-15. The College started its functioning from 1st September, 2014 at Tapan block of Dakshin Dinajpur with an intake capacity of 30 students. The academic programme was started with the help of faculty members present at the Regional Research Station, Old Alluvial Zone of the varsity (where the College was later shifted in 2015) and newly appointed faculty members for this College. Considering the difficulties in running the College at Tapan due to insufficient space and other facilities, the State Government decided to shift the college from Tapan to RRS (OAZ), Majhian during the year 2015.

The College campus at Regional Research Station is situated at Majhian, 10 Km away from the district headquarter, Balurghat and it is supported with Dakshin Dinajpur Krishi Vigyan Kendra which was established in the year 2005. The academic activity of the College is running smoothly at this station by utilizing the available resources. For maintaining the teaching standard more or less equivalent with the Faculty of Agriculture at Pundibari main campus, faculties from the headquarters come and cater the required courses at regular intervals. Admission of students and examinations are held centrally with same questions. Meanwhile all the construction, works of different buildings like Academic, Administrative, separate Boys' Girls' Hostel and Electrical Substation are in progress. The faculties of the College and those associated from the RRS also take part in research and extension activities.

Activities and Achievements

The primary activity of College of Agriculture is teaching. Since its inception (1st September, 2014) the students have been obtaining quality education from a group of sincere and devoted teachers. The 1st batch of College of Agriculture has completed their degree programme B.Sc. (Hons.) Agriculture under ICAR- Fourth Deans' Committee Recommended Courses and Curricula in 2018. Currently one batch (fourth year) under ICAR-FOURTH Dean' Committee and three other batches under ICAR-Fifth Deans' Committee have been pursuing their studies.

TEACHING:

- i. Teachers from both College of Agriculture, RRS(OAZ) and from the main campus of the varsity take part in teaching activities and ICAR recommended syllabuses (IVth and Vth Deans' Committee) are followed.

- ii. Besides, theory classes, emphasis has been given on field as well as laboratory practicals. Students maintain crop cafeteria in the field.
- iii. Study tour-cum-Exposure visit to different Research stations within as well as outside the state has been made.
- iv. Experiential Learning Programme on vermicompost and mushroom production and processing have been introduced.
- v. Rural Agricultural Work Experience (RAWEx) programme has been conducted successfully by placing the students at Coochbehar KVK.

CULTURAL and SPORTS ACTIVITIES:

The following programmes were organised:

- i. Freshers' Welcome programme.
- ii. Celebration of Teachers' Day, World Environment Day, Vigilance Awareness Week, World Forest week, World Womens' Day etc. by active participation of all the students along with the teaching and non-teaching staff.
- iii. Celebration of Independence Day, Republic Day, University Foundation day, birthdays of eminent personalities, Saraswati Puja, Biswakarma Puja within the campus.
- iv. Indoor as well as outdoor games.
- v. The students also made their marks of creativity in publishing Wall Magazines.

SOCIAL SERVICES:

- i. Organization of Blood Donation Camp by NSS unit of College.
- ii. Mass vaccination programme against Japanese Encephalitis in association with the Health Department, Govt. of West Bengal, Balurghat.
- iii. Tree plantation programme with the notable involvement of the students along with the staffs of College, RRS (OAZ) and Dakshin Dinajpur KVK.

Administrative services

- i. Plant Diagnostic services have been given to farmers by the faculty members both on-station as well as out-station.
- ii. Farmers training programmes were organised to address the problems faced by the farmers in crop cultivation.

Exposure visit to College of Agriculture

- i. Farmers from nearby different blocks have visited to Instructional farm of College at regular intervals.
- ii. Students from different schools visited to College of Agriculture to get acquainted with agriculture education and various activities and development of agriculture.

Notable achievements of College of Agriculture

- i. 1st batch of the college has successfully completed the B.Sc.(Hons.)Agriculture degree in 2018.
- ii. Four students have qualified in the JNU CEEB examination and one of them, Mr. Samrat Das ranked first and another one 5th under SC category while other two students ranked 14th and 39th.
- iii. Md. Wasim Ansari, a pass-out cracked the campus interview and joined in private company.
- iv. Seventeen students secured prizes in the last Annual Athletic Meet, 2018 organized centrally at the main campus.

Infrastructure

a. AVAILABLE AT EXTENDED CAMPUS:

Sl. No.	Item	Area (ac.)
1	Buildings	10.0
2.	Cultivable Land	90.0
3.	Orchard	3.0
4.	Fallow Land	6.5
5.	Roads, Ponds, Irrigation/Drainage Channels	20.0
	Total Area =	129.5

b. CONSTRUCTION OF PROPOSED BUILDINGS :

Sl. No.	Building	Source of Fund	Year of Start-ing	Expected Year of Completion	Status of construc-tion
1.	Administrative Building	NBDD, Govt. of W.B.	2016-17	2018-19	Yet to be Completed
2.	Student's Hostels (Boys and Girls' hostel)	NBDD Govt. of W.B.	2016-17	2018-19	-Do-
3.	Academic Building	NBDD Govt. of W.B.	2016-17	2018-19	-Do-
4.	Electrical Sub Station	NBDD Govt. of W.B.	2017-18	2018-19	-Do-



Activities of students and infrastructure of College of Agriculture



View of PCM Boys' Hostel



View of M. N. Saha Hall



View of Girls' hostel (Teesta Hall)



View of International Hostel



CIC infrastructure



Library



Biochemistry Laboratory



Laboratory of Soil Science & Agril. Chemistry



World Honey Bee Day Celebration



Special Classes for SC, ST and OBC



Motivational Speech under Student Development Programme



Village attachment under Student READY Programme



FIELD DAY programme under Student READY



Student presentation during FIELD DAY



Agro Industry Attachment under Student READY



One Student One Tree Programme