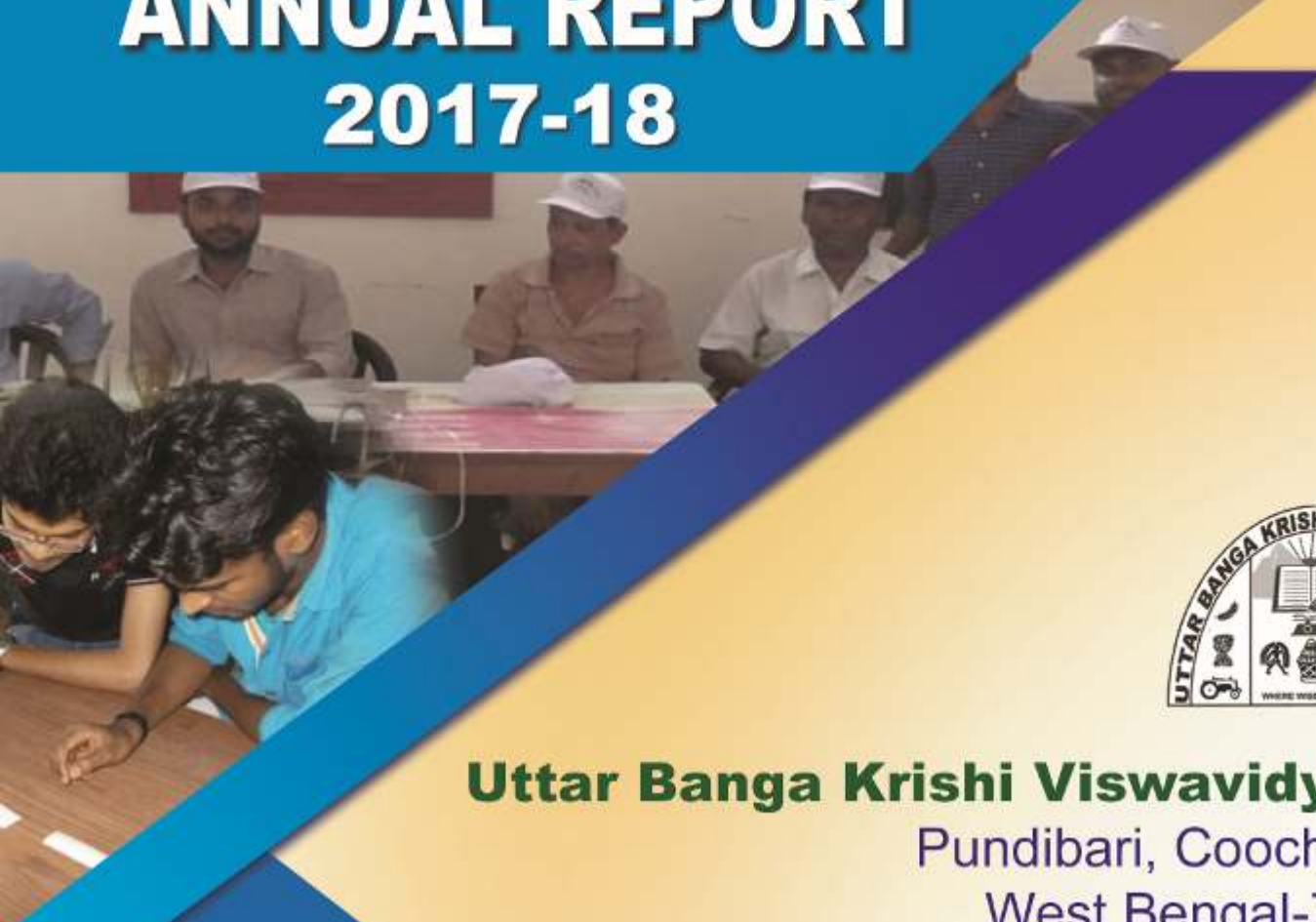


Department of Entomology



ANNUAL REPORT 2017-18



Uttar Banga Krishi Viswavidyalaya

Pundibari, Cooch Behar

West Bengal-736165

Website: www.ubkv.ac.in

UTTAR BANGA KRISHI VISWAVIDYALAYA
FACULTY OF AGRICULTURE

P.O. Pundibari, Cooch Behar, West Bengal - 736165

From:
Prof. T.K. Hath
Dean



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MESSAGE

It gives me pleasure to know that the Department of Agril. Entomology has decided to publish its Annual Report for the year 2017-18. The department has been catering different UG (Agriculture & Horticulture) and PG (M.Sc. and Ph.D.) courses successfully. It is a matter of appreciation that due to sincere and dedicated service of the teachers, the performance of the students in different competitive examinations of National level are praiseworthy. A few successful UG pass-outs are pursuing higher studies in various reputed academic Institutes all over the country. A few PG students obtained have Rajib Gandhi National Fellowship and SRF. This year 8 students have qualified in NET examination which surpasses all previous records. Former students of the department are performing their professional responsibilities in various government (State and National level) and corporate sectors very successfully.

The department deserves special acknowledgement much appreciation for preparing two practical manuals and a few are in the process. It is indeed a matter of appreciation that the department has developed Crop Museum which is being maintained all round the year and established an Apiary unit with an objective to improve the students' field experience and practicals as well as organizing farmers training. The department has successfully organized world Honey bee day for consecutive two years (2017 and 2018).

The faculties are successfully handling a number of research projects and engaged in different extension programmes all round the year. The department has also nominated teachers for various training programmes, Seminar/Symposium, etc. to upgrade their knowledge base for making teaching and research programme more effective and attractive.

Annual report is a documentation of various activities and a testimony of gradual development of the department. I wish every success of its publication and I convey my sincere thanks to all the teaching and non-teaching staff for actively participating in the course of development of the department and bringing out this annual report possible.

20th July, 2018
Pundibari

(T. K Hath)

From the desk of the Head of the Department

Annual Report is a mode of documentation of different activities of the Department. Annual Report 2017-18 of the Department of Agricultural Entomology has been prepared. Round the year the Department is engaged in different academic, research and extension activities. Learned faculties of the Department perform their responsibilities successfully. Students are exposed to field level practical classes regularly in both UG and PG levels in addition to theoretical and laboratory studies. They are showing excellence in different academic and research activities and are performing well in various competitive examinations like JRF, NET, SRF etc.

During 2017-18 one of our Ph. D. students was selected for Rajiv Gandhi National Scholarship and two have qualified NET examination. These success stories are the results of hard work, devotion and proper guidance from the teachers. We are really very much proud of that. Voluntary Centre on AICRP on Biological Control is running well by the faculties of the Department. The Department is presently giving special stress on promoting bee keeping in northern tract of West Bengal. NABARD already helping us in various ways in this aspect. We also sent an proposal to the Project Coordinator, AICRP on Honey Bee and Pollinators for providing us a Voluntary Centre at our University with a view to promote apiculture. For the protection of crops the Department regularly giving advisory to the farmers who came to the Department.

All the learned faculties and students have come forward and have cordially helped in preparing the report by providing necessary information during preparation of the report. Non-teaching staffs have also extend their cooperation. I am very much thankful to all of them for such nice cooperation and I think this information enriched report will help us in chalking out future course of activities of the Department.

19.07.2018
Pundibari, Cooch Behar



Dr. Nripendra Laskar

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1. Background

As a constituent under the erstwhile North Bengal Campus (Satellite Campus of Bidhan Chandra Krishi Viswavidyalaya (B. C. K. V.), the Department of Agricultural Entomology started its journey since 1979 at Gram Sevak Training Centre (G. S. T. C.), Cooch Behar, West Bengal. Under the Satellite Campus of Bidhan Chandra Krishi Viswavidyalaya only under graduate (UG) courses were catered from this constituent unit of the Department of Agricultural Entomology of Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal till 1998. The aforesaid constituent unit of North Bengal Campus (B. C. K. V.) used to offer elective subject in Agricultural Entomology at undergraduate (UG) course of B. Sc. (Ag.) Hons. in addition to catering the compulsory courses on Agricultural Entomology under B. Sc. (Ag.) Hons. course. From 1999, the Department introduced M.Sc. (Ag.) programme in Agricultural Entomology with an intake capacity of five (05) students per year.

The full fledged Department of Agricultural Entomology started functioning with the establishment of Uttar Banga Krishi Viswavidyalaya in February, 2001. Since the establishment of the University in 2001, both under graduate and post graduate courses (M. Sc. and Ph. D.) have been introduced.

2. Functions

- i. To impart teaching in Entomology for UG [B. Sc. (Ag. and Hort.)] and PG (M.Sc. and Ph. D.) degree programmes.
- ii. To organize seminar/Workshop on various issues related to pest problems of different crops as well as different beneficial aspects of insects.
- iii. To undertake research programmes related to the location specific, strategic and academic ones at Ph. D. level.
- iv. To organize training programmes for the farmers on management of pest problems in different crops.
- v. To render advisory services through the extension machinery of the university.

3. Infrastructure in the Department

- i. The Department maintains fairly developed laboratories for UG and PG studies.
- ii. The Department has established a small apiary, well maintained mulberry field and rearing room of mulberry silk worm for imparting hands on training programme on beekeeping and sericulture respectively for the final year students at UG level.
- iii. Utilisation of Sick plot for imparting field practical of students.
- iv. An Insect Museum has been developed and is being maintained well which is also useful for both UG and PG students, visitors in addition to beautification of the Department.
- v. Microscopy and image analysing facility with the help of software is available in the Department.

4. Teaching

The Department offers undergraduate courses at different semesters both for B. Sc. (Ag.) Hons. and B. Sc. (Hort.) Hons. programme. At 7th semester in B. Sc. (Ag.) Hons. course, the Department has been offering various courses under Crop Protection Module since the introduction of new syllabuses as per recommendation of IVth Dean's Committee. Prior to this, the Department used to offer elective courses at 4th year of studies at UG level. At postgraduate (PG) level of studies, M. Sc. (Ag.) and Ph. D. (Agril. Entomology) courses are offered. The Department follows course and credit system of studies.

From 2016-17 academic session the courses are being offered by the Department as per recommendation of Vth Deans Committee. Courses under IVth Deans Committee recommendations are also being offered for the students of earlier batches.

5. Faculties and staffs

i. Head of the Department :

Dr. Nripendra Laskar

(w.e. f. 27.05.2016)

ii. Faculty members

Sl. No.	Name and designation	Specialization	Mobile No. and E-mail ID	Parmanent address
1.	Dr. T. K. Hath Professor	Economic Entomology	09434685670 tapanhath@gmail.com	Bakshibari, Cooch Behar – 736101
2.	Dr. N. Laskar Associate Professor	Economic Entomology	09434483855 nripendralaskar@yahoo.co.in	West Khagrabari Road., Baman para (Near Gourio Moth), Cooch Behar-736101.
3.	Dr. J. Ghosh Associate Professor	Economic Entomology	09434483767 jaydebubkv@yahoo.com	Srijani Apartment, 3 rd Floor, P.V.N.N. Road bye-lane, Cooch Behar, PIN – 736101
4.	Dr. S. K. Sahoo (Joined on 13.06.2017) Associate Professor	Economic Entomology	09735059884 shyamalsahoo@gmail.com	Biren Manson, Flat No. 2C (Opposite of Cooch Behar Municipality Garage), Cooch Behar-736101
4.	Ms .M. Chatterjee Assistant Professor	Acarology	08902326756 moulitachatterjee@rediffmail.com	Quarter No: B-2/F-2, UBKV, Pundibari, Coochbehar-736165
5.	Mr. D. Chakraborty Assistant Professor	Economic Entomology	09647800589	Flat No.4H Ideal Complex (Gate II, Block III), H. N. Road, Cooch Behar-736101

iii) Non teaching staffs

Sl.No.	Name and designation	Mobile No. and e-mail ID	Parmanent address
1.	Mr. T. K. Ghosal Technical Assistant (Superintendent)	09474521381	P. O. : Gunjabari, Dist – Cooch Behar Pin : 736101
3.	Mr. Albin Lepcha Jr. Store Keeper	08145749973	6 th Mile, Purbong Busty, P. O.: Kalimpong, Dist: Darjeeling, PIN - 734301
4.	Mr. Rathin Layek Record keeper	Pillkhana Road, South ITI, P. O. & Dist:- Cooch Behar, PIN-736101
5.	Mr. Subrata Dhar Jr. Laboratory Attendent	09851749595	Vill : Dharmaborer Kuthi, P.O.: Chhoto Khairatibari, Dist: Cooch Behar,PIN-736165

6. Academics

A) Undergraduate

i) Courses (as per IVth Deans Committee recommendation)

a) Compulsory courses

Sl. No.	Course No.	Course title	Credit Hours	Semester
1.	ENT-151	Plant parasitic nematodes and their management	1+1	2 nd
2.	ENT-201	Fundamentals of Entomology	2+1	3 rd
3.	ENT-251	Insect ecology, IPM including beneficial insects	2+1	4 th
4.	ENT-301	Crop pests and stored grain pests and their management	2+1	5 th
5.	ENT-302	Apiculture	0+1	5 th
6.	ENT-351*	Pests of horticultural crops and their management	2+1	6 th

* For Horticulture only

b) Elective courses

Sl. No.	Course No.	Course title	Credit Hours	Semester
1.	ENT-401	IPM (Pest Scouting)	2+1	7 th
2.	ENT-402	Management of post harvest insect pests	1+1	7 th
3.	ENT-403	Non insect pest and their management	2+1	7 th
4.	ENT-405	Apiculture	1+1	7 th
5.	ENT-404	Biocontrol agents and biopesticides	1+1	7 th
6.	ENT-406	Pesticides and their management	2+1	7 th

ii) Courses (as per Vth Deans Committee recommendation)

a) Compulsory courses for B. Sc. (Hons.), Ag.

Sl. No.	Course No.	Title of the courses	Credit hour	Semester
1.	ENT-151*	Fundamentals of Entomology	4(3+1)	II
2.	ENT-301	Pests of Crops and Stored Grain and their Management	3(2+1)	V
3.	ENT-351	Management of Beneficial Insects	2(1+1)	VI
Total Credit hour			9	

* Introduced during 2nd semester

b) Compulsory courses (for B. Sc. (Hons.) Hort.

Sl. No.	Course No.	Course Title	Credit hour	Semester
1.	ENT-152*	Fundamentals of Entomology	3(2+1)	III
2.	ENT-201	Nematode Pests of Horticultural Crops and their Management	2(1+1)	III
3.	ENT-251	Insect Pests of Fruit, Plantation, Medicinal and Aromatic Crops	3(2+1)	IV
4.	ENT-352	Insect Pests of Vegetable, Ornamental and Spice Crops	3(2+1)	VI
5.	ENT-353	Apiculture, Sericulture and Lac Culture	2(1+1)	VI
Total Credit hour			13	

* Introduced during 2nd semester.

**iii. Undergraduate students passed out during 2017-18 (Plant Protection module)
(as per IVth Deans Committee recommended syllabus)**

Sl. No.	Name of the student	Reg. No.
1.	Bishal Sarkar	A-2013-15-B
2.	Mritunjoy Barman	A-2013-28-B
3.	Rakesh Sardar	A-2013-36-B

**iv. Undergraduate entered durin 2017-18 (Plant Protection Module) :
(as per IVth Deans Committee recommended syllabus)**

Sl. No.	Name of the Student	Reg. No.
1.	Paramita Das	A-2014-32-B
2.	Poushab Das	A-2014-34-B
3.	Rayanta Kumar Lala	A-2014-39-B
4.	Subhajit Ruidas	A-2014-56-B
5.	Vyshnavi Sunil	A-2014-64-B

B. Post graduate

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

Candidates who have passed in Bachelor's Degree in Agriculture, Horticulture or Forestry from a recognized University with a minimum OGPA 6 (5 in 10 point scale and at least 60% marks in Higher Secondary or equivalent examination may apply for admission test). The minimum OGPA and marks for SC/ST/PWD candidates are 6.00 and 50% respectively. Candidates who have passed in Bachelors' Degree with at least 60% marks (50% for SC/ST/PWD) under traditional system may also apply.

Academic session starts during August.

Field of specialization : M. Sc.: Economic Entomology

a) Core Courses (M. Sc.)

Course No.	Course title	Credit Hour
ENT-501	Insect morphology	1+1
ENT-502	Insect anatomy, physiology and nutrition	2+1
ENT-503	Principles of taxonomy and classification of insects	2+1
ENT-504	Insect ecology	1+1
ENT-506	Biological control of crop pests and weeds	1+1
ENT-507	Insect toxicology	2+1
ENT-509	Principles of integrated pest management	1+1
ENT-510	Pests of field, horticulture and plantation crops and storage entomology	3+1

b) Minor / supporting courses (M. Sc.)

Course No.	Course title	Credit Hour
ENT-505	Insect pathology	1+1
ENT-508	Plants resistant to insects	1+0
ENT-511	Insect vectors of plant viruses and other pathogens	1+0
ENT-512	Commercial entomology	1+1

c) Master Degree students registered during 2017-18 academic session :

Sl. No.	Topic of dissertation work	Name of the student	Reg. No.	Chairman
1	Seasonal incidence of insect pests of cabbage and effect of pest control modules for their sustainable management	Amit Raut	A-2017-20-M	Dr. J.Ghosh
2	Studies on mealy Bugs infesting various crops under terai agro-ecological situation of West Bengal	Y. Mohan Babu	A-2017-30-M	Dr. N. Laskar
3	Studies on the pest complex in brinjal and management of sucking pest with botanicals	N. Mamatha	A-2017-29-M	Mr. P. Sarkar
4	Diversity on seasonal incidents of aphids and their natural enemies from terai region of West Bengal	Atanu Maji	A-2017-05-M	Ms. M. Chatterjee

d. Master Degree thesis submitted during 2017-18 academic session

Sl. No.	Topic	Name of the student	Reg. No.	Chairman
1	Bioecology of <i>Sitophilus oryzae</i> L. on wheat under terai agro-ecology of W.B.	Bireshwar Kundu	A-2015-05-M	Prof. T. K. Hath
2	Biodiversity and bioecology of predaceous Coccinellids.	Biwash Gurung	A-2015-06-M	Dr. S. Pal
3	ITK based pest management module on brinjal (<i>Solanum melongena</i> L.) under terai agro-ecological system of WB.	Sandip Mandal	A-2015-24-M	Dr. N. Laskar
4	Insect pests of linseed (<i>Linum usitatissimum</i> L.) and their sustainable management in terai region of WB.	Shankar Mahato	A-2015-26-M	Dr. J. Ghosh

ii) Ph. D. (Agricultural Entomology) Degree

Consistently good academic records with Master's Degree in Agriculture /Horticulture / Forestry Science having at least 6.5 OGPA (6.00 OGPA for SC, ST and PWD candidates) from any recognized Indian/Foreign University followed by Bachelors' Degree in Agricultural / Horticultural / Forestry Science under 10+2+4 or 10+1+4 or 11+4.

Session usually starts during August.

a) Courses (Ph. D.)

Course No.	Course Title	Credit hours
ENT-601	Immature stages of insects	1+1
ENT-602	Insect behavior	1+1
ENT-603	Recent trends in biological control	1+1
ENT-605	Advances in host plant resistance	1+1
ENT-606	Advanced acarology	1+1
ENT-607	Molecular approaches in entomological research	1+1
ENT-608	Advanced IPM	2+0

b) Ph. D. students registered during academic session 2017-18

Sl. No.	Topic of research (tentatively proposed)	Name of the student	Reg. No.	Chairman
1.	Arthropd diversity in wheat ecosystem with reference to wheat aphid and its biorational management	Biwas Gurung	A-2017-04-D	Dr. W. Reza
2.	Screening of different black gram germplasm against its pest complex.	Bireswar Kundu	A-2017-06-D	Dr. T. Dhar
3.	Screening of different banana cultivars against banana scare beetle...	Fouzia Bari	A-2017-05-D	Prof. S. K. Senapati
4.	Studies on insecticide resistance in <i>Empoasca flavescens</i> Fab and acaricide resistance in <i>Oligonychus coffeae</i> Nietner on tea	Biswajit Patra	A-2017-10-D	Prof. T. K. Hath

c) Doctoral thesis completed during the academic session 2017-18

Sl. No.	Title of the thesis	Year (Date of viva-voce)	Author	Chairman
1.	Life system study of <i>Cricula trifenestrata</i> Helf. (Saturnidae : Lepidoptera) towards formulation of its management strategy	2017 (05.06.2017)	Gharde Satish Krushna	Dr. N. Choudhuri
2.	Pest constraints under chemical free bio-accelerated climate resilient cropping.	2017 (18.09.2017)	Gobinda Roy	Dr. N. Laskar

7. Students' Achievement

a. Undergraduate (During 2017-18)

Sl. No.	Name of the student	Reg. No.	JRF/NTS/Others
1.	Bishal Sarkar	A-2013-15-B
2.	Mritunjoy Barman	A-2013-28-B	JRF
3.	Rakesh Sardar	A-2013-36-B	NTS

b. Postgraduate (During 2017-18)

Sl. No.	Name of the Student	Reg. No.	ARS/NET
1.	Roshna Gazmer		Qualified ARS main

8. Students' Placement

Govt: 1
Corporate: 2
Bank: 2
NGO: ...

8. Research Activity

- i. Areas of research : Applied pest management of crops.
- ii. Research reports submitted : 2
- iii. Awards and gold medals : 0
- iv. Scholarships, stipends and fellowships : 4
- v. **Ongoing research projects :**

a) Effect of some new generation insecticides of paddy.

Funding agency – Willowood India Limited
Principal Investigator – Dr. Jaydeb Ghosh

b) Evaluation of bio-efficacy and phytotoxicity of CCP-4620 against mites of Tea

Funding Agency : Crystal Crop Protection Pvt. Ltd.
Principal Investigator : Debanjan Chakraborty
Year of commencement : April, 2017

c) Bioefficacy evaluation of Abamectin 1.9% EC against red mite, *Tetranychus* spp. and serpentine leaf miner, *Liriomyza trifolii* of tomato.

Funding Agency : Crystal Crop Protection Pvt. Ltd.
Principal Investigator : Dr. N. Laskar
Year of commencement : April, 2017

d) Bio-efficacy phototoxicity and effect on natural enemies of some new generation insecticide molecular on different crops.

Principal Investigator : Dr. J. Ghosh
Funding Agency: Willword Chemicals Pvt. Ltd., New Delhi
Date of commencement: September, 2017

vi. Research projects already completed

a) Evaluation of the bio-efficacy of Phoskill (Monocrotophos 36% SL) against insect pests on Okra

Funding Agency: United Phosphorus Limited
PI: Debanjan Chakraborty
Year of commencement: December, 2015.

Salient findings

- (a) Phoskill@ 300 g a.i./ha and Phoskill@250 g a.i./ha were found to be the effective treatments in reducing sucking pest population as well as the borer damaging the shoot and fruits of the Okra plants.
- (b) No Phytotoxic symptoms were observed upto the dosages of Phoskill@ 500 g a.i./ha which showed that the product was safer to the Okra crop. The population of natural enemies (*Chrysoperla sp.* and *Coccinellid* beetles) were present throughout the course of the experiment.

Report submitted to the funding agency.

10. Extension activities

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

11. Infrastructural and Support Facilities available

- a. Stereo zoom microscopy.
- b. Image analysing with software.
- c. Insect pest identification.
- d. Collection and processing facility for preservation and storage.
- e. Rearing and mass multiplication of insects and natural enemies.

12. Research paper published

- i. Gazmer, R., **Laskar, N.** and Mondal, S. 2017. Physico-Chemical Characters of Pumpkin (*Cucurbita moschata* Duch.) Ex Poir Genotype against the Melon Fly (*Bactrocera cucurbitae*) Reveals Resistance Traits in the Terai Region of West Bengal, India. *International Journal of Current Microbiology and Applied Sciences*, 6(10):2023-2031.
- ii. **Laskar, N.**, Sinha, D. K., Roy, G., Gazmer, R. and Biswas, S. 2017. Larval-pupal parasitoid, *Diachasmimorpha* spp. (Hymenoptera: Braconidae) associated with melon fly, *Bactrocera cucurbitae* (Coq.): A report. *International Journal of Bio-resource, Environment and Agricultural Sciences* (IJBEAS), 3(2):545-547.
- iii. Satpathi, S. K., Pal, S., Gurung, B., Datta, S. Kundu, A., Mandal, R., **Laskar, N.** and Kheroar, S. 2017. Effect of Physical Characteristics and Phenolic contents on Jassid

- and Pod Borer of Cowpea. *University of Sindh Journal of Animal Sciences*, 1(1):14-20.
- iv. **Chakraborty, D.** 2017. Seasonal incidence of insect pests on jackfruit, *Artocarpus heterophyllus* Lamarck. *International Journal of Advanced Biological Research*, 7(3): 474-476.
- v. Sarkar, P., Chakraborty, S. and **Chakraborty, D.** 2017. Field screening of some tomato genotypes against leaf miner under West Bengal conditions. *International Journal of Advanced Biological Research*, 7(3):490-494.
- vi. Tudu, B, **Chatterjee, M.**, Baskey, S., Chakraborty, S. 2018. Performance evaluation and dose standardization of a new acaricide, Pyridaben 20% WP against red spider mite, *Oligonychus coffeae* Nietener infesting tea under Terai region of West Bengal, *Journal of Crop and Weed*, 14(1):195-200
- vii. Sharma, S. S., Paul, B., Saha, P., **Sahoo, S. K.**, Mondal, K., Hath, T. K. and Mondal, H. A. 2017. Evaluation the potentiality of some parameters to probe the elevated levels of resistance in Brassica sp. at the early period of aphid infestation in open field condition. *Journal of Entomology and Zoology Studies*, 5(6):1356-1364.

13. Book Chapters published

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

14. Books published

Sl. No.	Title of the book	Author(s)	Publisher
1.	Cucurbits : Biotic and abiotic stresses (ISBN No.: 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 No.: 978-93-83816-86-0) 2018	N. Laskar	The Shee Book Agency, Kolkata

15. Other Publications

i. A booklet “*Moumachi Palon*” in bengali vernacular was published during World Honey Bee Day - 2017 celebration programme. Description of different kinds of honey bees were elaborated in the booklet. Management of artificial bee hive and honey production was also described. It was a handy booklet published for the farming communities as a part of awareness and promotion of bee keeping.

16. Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course attended/organised

Sl. No.	Programme	Faculty associated	Date	Venue and Organiser
i.	7 th International Science Congress on “ Widespread Research: Strengthening Nations and Spreading Happiness	Dr. S. K. Sahoo	8-9 th December, 2017.	College of Science and Technology, Royal University of Bhutan, Chukkha, Bhutan
ii.	18 th All India Agriculture Universities Festival held	Dr. S. K. Sahoo	12-16 th Feb, 2018	SVVU, Tirupati

17. Teachers of the Department associated in other multiple assignments

a. **Ms. Moulita Chatterjee, Assistant Professor** : In- Charge, Voluntary Centre on AICRP-Biological Control from 2016 onwards.

b. **Ms. Moulita Chatterjee, Assistant Professor** : Associated in ELP on biological control agent mass production.

c. **Mr. Debanjan Chakraborty, Assistant Professor** : Associated in ELP on biological control agent mass production.

d. **Dr. Nripendra Laskar, Associate Professor** : Nodal Officer, Bringing Green Revolution in Eastern India (BGREI), monitoring activity under UBKV.

e. **Dr. S. K. Sahoo, Associate Professor** : Co-P.I. in the Institutional project entitled “Enhancing pulse production for food, nutritional security, improving livelihood and sustainable agriculture” Funded by GoWB- ICARDA from 2017 onwards.

f. **Dr. S. K. Sahoo, Associate Professor** : Co-P.I. in the Institutional project entitled “Enhancing oilseeds production for improving livelihood and sustainable agriculture” Funded by NMMOP, Govt. of India from 2017 onwards.

18. Other activities

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. 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)

iii. Students from different schools also visit the Department from time to time as a part of their educational tour/visits.

iv. Farmers from different districts also come in the Department for advisory round the year. Advisory are provided as per their requirement.

v. Three days residential farmers training on Bee keeping conducted successfully in association with Cooch Behar KVK and NABARD from 05 – 07 February, 2018.

vi. 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.

vii. Students from various schools visited the Department as a part of their education exposure on 20th April, 25th April, 27th July, 21st November, 2017.

19. External Examiners attended the Department for conducting viva-voce examination of P. G. students

Sl. No.	Name and designation of the External Examiner	Affiliated Institute	Date	Purpose
1.	Dr. Anirudha Pramanick Professor of Agril. Entomology	B. C. K. V.	05.06.2017	Conduction of Ph. D. viva-voce examination of Sri. G. S. Krushna
2.	Dr. Pravat Kumar Sarangi Professor of Entomology	O. U. A. T.	13.07.2017	Conduction of M. Sc. viva-voce examination
3.	Dr. Sudarshan Chakraborty Professor of Agril. Entomology	B. C. K. V.	18.09.2017	Conduction of Ph. D. viva-voce examination of Sri. Gobinda Roy



Students visiting Crop Museum of the Department



Students observing pests during feild practical



Students during field practical with mite infested plant parts



Our PG students during academic exposure at BCKV



Teachers' Day Celebration in the Department



Publication of a Booklet on “Moumachi Palon” during Honey Bee Day Celebration 2017

