

# Department of Agricultural Extension



## Annual Report 2017-18



**Uttar Banga Krishi Viswavidyalaya**  
**Pundibari, Cooch Behar**  
**West Bengal-736165**





# **DEPARTMENT OF AGRICULTURAL EXTENSION**

**Annual Report  
2017-18**



**Uttar Banga Krishi Viswavidyalaya  
Pundibari, Cooch Behar,  
West Bengal-736165**

**Edited by**  
Dr. K. Pradhan, Associate Professor & Head,  
Agricultural Extension

# UTTAR BANGA KRISHI VISWAVIDYALAYA

## FACULTY OF AGRICULTURE

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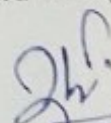
### MESSAGE

I am extremely happy to learn that the Department of Agricultural Extension is going to publish its Annual Report for 2017-18. Annual report is an important document which embodies various activities, achievements, performance and future plan of the department. It provides not only the major initiatives taken by the department at the Bottom level academic body for coordinating and maintaining standards of education at different levels viz. UG and PG, but also highlights the endeavors taken by the department to promote the general development of the faculty. The department has been persistently engaged in developing new teaching methods, teaching materials and restructuring syllabus in accordance with the ICAR guidelines as well as in due cognizance of the regional needs. All the teachers are actively engaged in guiding the students for achieving their academic excellence and shaping their future carrier.

I hope that the data/information provided in this Annual Report will be useful for the teachers, students, researchers, administrators and stakeholders in higher education.

I duly acknowledge the valuable contributions made by my colleagues in bringing out the Annual Report in its present form and I also hope that they will maintain the tradition of publishing similar annual reports in a regular manner in future.

I would like to take this opportunity to express my sincere thanks and gratitude to all the members of the department for their unstinted support in carrying forward the agenda of the faculty.

  
Dean 31/8/2018  
Faculty of Agriculture

# UTTAR BANGA KRISHI VISWAVIDYALAYA

Pundibari, Cooch Behar, West Bengal-736165

**Dr. Kausik Pradhan**

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## *Preface*

Agriculture plays pivotal role in addressing poverty, malnutrition and livelihood security of millions of people. But, varying climatic condition and declining farm resources often use difficulties in the sustainable development of agriculture. Hence, agricultural scientists need to play an important role in bringing innovative and useful technologies to combat this situation. Again, success of these technologies would largely depend on effective and efficient transfer of technology to the farmer's field. Here lies the importance of agricultural extension. Similarly, within the State Agriculture Universities, the Department of Agricultural Extension plays crucial role in preparing the students as future extension professionals through their various theory and practical courses which are mostly practical-oriented and field-based.

The Annual Report of the Department of Agricultural Extension of Uttar Banga Krishi Viswavidyalaya is an initiative towards presenting a glimpse of the activities conducted by the department within the year of 2017-18. This report illustrates the functions, teaching activities including both U.G. and P.G. courses, research activities particularly the M.Sc. and Ph.D. dissertation work and other on-going research projects in which the faculties are associated with. The report also gives a brief description of the extension activities, publications and participation in various seminar, symposium, conference etc. by the faculties of the department. A short introduction of all the teaching and non-teaching staff is also provided in the report. Lastly, a few achievements of the faculties and the students of the department are noted down in the report. In brief, this report has been prepared with an aim of providing all the information related to the department in a comprehensive manner so that anyone, after going through this report, can get a brief idea about the department and its activities, faculties and staffs and students.

**Head**

## Contents

Sl.No.	Content	Page No.
1.	Background	1
2.	Functions	1
3.	Teaching	2
4.	Research Activity	5
5.	Extension Activities	8
6.	Infrastructural and Support Facilities available	8
7.	Faculty and Staffs	9
8.	Paper & Books published	10
9.	Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course attended/organized	11
10.	Glimpses of Annual Activities & Achievements of the Department	15

# *Annual Report, 2017-18*

## **Department of Agricultural Extension at a glance**

### **A. Background:**

The Department of Agricultural Extension has been come into existence in 2001 with the inception of this University from the parent university Bidhan Chandra Krishi Viswavidyalaya. Previously the Department was delineated as an extension wing of North Bengal Campus under Bidhan Chandra Krishi Viswavidyalaya to carry out teaching and research activities in agricultural Extension and allied besides undertaking field extension activities in the adopted villages of North Bengal. Thereafter the Department grew leaps and bounds under the dynamic leadership of well known personalities in the discipline of Agricultural Extension and allied. This Department committed to prepare students for achieving success in professions that include formal and non-formal teaching and learning in agriculture, leading agricultural organizations and communities, and out scaling viable eco-friendly and sustainable agricultural practices to the society. In addition, this degree program prepares undergraduates to enter and excel in Post graduate and professional programmes. Post Graduate degrees in the department are grounded in a personal relationship between student and advisor. Completing a post graduate degree in Agricultural Extension will be an advantage in the job market as a well-prepared professional.

### **B. Functions:**

- i. To impart teaching in Agricultural Extension for B.Sc., M.Sc. and Ph.D. degrees.
- ii. To provide practical exposure through experiential learning to the students on extension, methodologies and approaches.
- iii. To organize seminar, symposium, workshop, conference and training on cross cutting issues.
- iv. To undertake strategic, academic and action researches on agricultural extension and allied.
- v. To render the advisory services through departmental endeavor or establishing a linkage with full fledged Directorate of Extension Education.

### ***C. Teaching:***

The Department of Agricultural Extension imparts undergraduate and post graduate teaching to the students under the semester system. The students are provided in depth learning both in theoretical and practical aspects of extension education. They are provided practical learning by carrying out activities pertaining to extension education methodologies and approaches. The undergraduate students are also given the exposure of field extension work under Rural Farm Work Experience programme. The Agricultural Universities in India have been successful in their primary mission of achieving phenomenal increase in agricultural productivity and gaining the confidence of our farming gentry and the agricultural graduates had played a pivotal role in this regard. With an aim to develop competent human resources in agricultural universities the ICAR had tried to introduce RAWE course in the undergraduate studies based on the findings of Randhawa committee. The course is launched as a full semester course with a motto to eradicate the inadequacies in providing required practical training and acquisition of skills by the graduates. In this RAWE programme the students are exposed to realities in farmer's field or in agro-based industrial situations. The students are groomed through practicing agricultural diagnostic services of soil, water and plants and gaining the acumen of generating appropriate measures. Such a learning process is surely improving their organizational skill by practice, enriches their knowledge pool through collective wisdom, expands their creative faculties through repetitive analysis and interpretation and ultimately refines them as professional through sharing and interaction.

### **a) Field of specialization for M.Sc. and Ph.D.: *Agricultural Extension***

### **b) Undergraduate courses:**

#### **1. IV DEANS COMMITTEE RECOMMENDATION**

##### **i) Compulsory Courses:**

<b>Sl. No.</b>	<b>Course No.</b>	<b>Title</b>	<b>Credit Hours</b>	<b>Semester</b>
1.	EXT 151	Fundamentals of Rural sociology and Educational Psychology	2+0	B.Sc.(Ag ) Hons. 2 <sup>nd</sup> sem
2	EXT 101	Fundamentals of Extension Education	1+1	B.Sc.(Hort ) Hons. 1 <sup>st</sup> sem
3.	EXT 251	Dimensions of Agricultural Extension	2+1	4 <sup>th</sup>
4	EXT 301	Extension methodologies for transfer of agricultural technologies	2+1	5 <sup>th</sup>
5	EXT 351	Entrepreneurship development and management	1+1	6 <sup>th</sup>



ii) Elective Courses: Social Science module

Sl.No.	Course No.	Title	Credit Hours	Semester
1	EXT 401	Agricultural Journalism	1+2	7 <sup>th</sup>
2	EXT 402	Audio visual communication	1+2	7 <sup>th</sup>
3	EXT 403	Multimedia technologies and cyber extension	1+2	7 <sup>th</sup>

## 2. V DEANS COMMITTEE RECOMMENDATION

i) Compulsory Courses:

Sl. No.	Course No.	Title	Credit Hours	Semester
1.	EXT 101	Rural sociology and Educational Psychology	2+0	B.Sc.(Ag ) Hons. 1 <sup>st</sup> sem
2	EXT 102	Communication Skills and Personality Development	1+1	B.Sc.(Ag & Hort ) Hons. 1 <sup>st</sup> sem
3.	EXT 103	Human Value and Ethics	1+0	B.Sc.(Ag & Hort ) Hons. 1 <sup>st</sup> sem
4.	EXT 104	NSS/NCC/Physical Education & Yoga Practices	0+2	B.Sc.(Ag & Hort ) Hons. 1 <sup>st</sup> sem
5.	EXT 105	Comprehension and Communication Skills in English	1+1	B.Sc.(Ag ) Hons. 1 <sup>st</sup> sem
6.	EXT-151	Fundamentals of Agricultural Extension Education	2+1	B.Sc.(Ag) Hons. 2 <sup>nd</sup> sem
7.	EXT-152	Fundamentals of Extension Education	1+1	B.Sc.( Hort) Hons. 2 <sup>nd</sup> sem
8.	EXT-301	Entrepreneurship Development and Business Communication	1+1	B.Sc.(Ag ) Hons. 5 <sup>th</sup> sem
9.	EXT-301	Entrepreneurship Development and Business Management	1+1	B.Sc.( Hort) Hons. 5 <sup>th</sup> sem

ii) Elective Courses:

Sl.No.	Course No.	Title	Credit Hours	Semester
1	EXT 253	Agricultural Journalism	2+1	B.Sc.(Ag ) Hons. 4 <sup>th</sup> sem

### c) Post-Graduate Courses:

Course No.	Course-Title	Credit Hour	Remarks
<b>Master Degree Major/Core-Courses</b>			
EXT-501	Development Perspectives of Extension Education	2+0	Semester-I
EXT-502	Development Communication, Information Management and E-Extension	3+0	Semester-I
EXT-503	Research Methods in Behavioral Sciences	3+0	Semester-I
EXT-504	Diffusion and Adoption of Innovations	2+1	Semester-II
EXT-505	Entrepreneurship Development and Management in Extension	3+1	Semester-II
EXT-506	Human Resource Development	2+1	Semester-II
<b>Minor/Supporting Courses</b>			
EXT-507	Participatory Methods for Technology Development and Transfer	1+1	Semester-I
EXT-508	Visual Communication	1+2	Semester-II
EXT-509	Gender Sensitization for Development	1+1	Semester-III
EXT-510	Market –Let Extension	1+1	Semester-III
EXT-511	Perspectives of Distance Education	1+1	Not offered
EXT- 512	Basic Imaging Technology	1+2	Not offered
EXT-513	Rural Sociology	2+0	Not offered
EXT-514	Educational Psychology	2+0	Not offered
<b>Master's Seminar and Research (1+20)</b>			
EXT- 591	Master's Seminar	0+1	Semester-IV
EXT-599	Master's Research	20	Semester-III
<b>Master's Supporting Courses</b>			
Any course from other departments		05	Semester-I,II,III
<b>Doctoral Major Courses(12 Cr-Hr)</b>			
EXT 601	Advances in Agricultural extension	2+1	Semester-I
EXT 602	Advanced Design and Techniques in Social Science Research	2+1	Semester-II
EXT 603	Advances in Training and Instructional Technology	2+1	Semester-II
EXT 604	Organizational Development	2+1	Semester-III
<b>Doctoral Minor Courses (6 Cr-Hr)</b>			
EXT 605	Media Management	2+1	Semester-II
EXT 606	Transfer of Technology in Agriculture	2+1	Semester-IV
EXT 607	Advanced Management Technique	2+1	Not offered
EXT 608	Theory Construction in Social Sciences	2+0	Not offered

#### **d) PG students completed degree:**

i. Four students have been awarded the degree of M.Sc. (Ag) in Agricultural Extension in 2017-18

#### **e) Post-Graduate requirement:**

<b>Sl. No.</b>	<b>Degree courses</b>	<b>Requirement</b>
<b>I</b>	<b>For M.Sc. (Ag) Degree</b>	Four years B.Sc. (Ag) Hons. degree with Agricultural Extension as a compulsory subject.
<b>ii</b>	<b>For Ph.D. Degree</b>	Two years full time M.Sc. (Ag) in Agricultural Extension
<b>iii</b>	<b>Students' Achievement:</b> <ul style="list-style-type: none"><li>• One Ph.D. students have cleared the ICAR-NET examination in 2017</li><li>• One Ph.D. students cleared ARS Prelims.</li><li>• One Ph.D. student selected as Assistant Professor in Lovely Professional University, Jalandhar.</li></ul>	

#### **D. Research Activity:**

The Department of Agricultural Extension is gaining its importance due to its successful research activity in the field of social science. Mostly the Ph.D. students of this department undertake their research work under the close supervision of their respective chairman of advisory committee.

- Dr. K. Pradhan is supervising 6 (Six) Ph.D. (Ag) dissertation work of Victor Sarkar (RGNF) and Avishek Saha (URS), Bablu Ganguly (ACIAR-SRFSI Project Fellow), C. Vara Prasad (ICAR-SRF), Biman Maity and Tarun Kumar Das
- Dr. P. K. Pal is supervising 5 (Five) Ph.D. (Ag) dissertation work of Sataroopa Modak, Norden Lepcha, Yenglem Lakshimai Devi, Subhrajoti Panda and Gulam Tobar Ali

**a) 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. The following table presents an overview of the current Post Graduate students of the Department and their research topic:

Sl. No.	Name of the student	Topic of Research	Chairman
<b>M.Sc. students Admitted</b>			
1	Peddi Naga Harsha Vardhan	Impact of Krishi Vignyan Kendras on adoption of climate resilient technologies in agriculture in North Bengal districts of West Bengal	Prof. P.K.Pal
2	Subhajit Chakraborty	Study of Farmers' attitude, awareness and adoption of crop insurance in Cooch Behar district of West Bengal	Dr. S.Mondal
<b>M.Sc. students Passed out</b>			
1.	Subhrajyoti Panda	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	Dr. K.Pradhan
2.	Keshav Ram	Exploring the utilization pattern of information sources towards sustainable livelihood within the district of Cooch Behar in West Bengal	Dr. K.Pradhan
3.	Arijit Sing Sardar	Farmers perception on Judgement of jackfruit characteristics	Prof. P.K.Pal
	Biman Maity	Analysing the perceived constraints in Pulses cultivation in selected north Bengal districts of west Bengal	Prof. P.K.Pal
<b>Ph.D. students Admitted</b>			
1.	Biman Maity	Assessment of Sustainable Livelihood restoration through Skill Development among Rural Youth in Agriculture	Dr. K.Pradhan
2.	Tarun Kumar Das	Revisiting the extension strategies to avert climate change vulnerabilities in agriculture for ensuring food security	Dr. K.Pradhan
3.	Subhrajoti Panda	Pluralistic Extension Services- Access, Quality and Implications from the Restructured Policy Reforms in Cooch Behar District of West Bengal, India	Prof. P.K.Pal
4.	Gulam Tobar Ali	Role of Grass-root Organisations as the actors of Agricultural Knowledge Information System (AKIS) in Selected districts of North Bengal, India	Prof. P.K.Pal
<b>Existing PhD Students</b>			
1.	Yenglem Lakshimai Devi	Participation of farm women in livelihood activities with special reference to selective ethnic races in Terai region of West Bengal, India	Dr. P. K. Pal
2.	C. Vara Prasad	Harnessing the e-readiness of the agricultural system actors for sustainable agricultural	Dr. K. Pradhan



		development in Cooch Behar and Alipurduar districts of West Bengal	
3.	Satarupa Modak	Diffusion and adoption pattern organic production technology in Terai region of West Bengal, India	Dr. P. K. Pal
4.	Norden Lepcha	Characterizing family farming in the Hill ecosystem of West Bengal, India	Dr. P. K. Pal
5.	Bablu Ganguly	Assessing the existing agricultural information system network for agricultural development in Malda district of West Bengal	Dr. K. Pradhan
6.	Avishek Saha	Reengaging youth in agriculture: a way forward to enhance agricultural productivity for a food secure society	Dr. K. Pradhan
7.	Victor Sarkar	Reinventing the Impact of Self Help Group (SHG) towards Women Empowerment in West Bengal	Dr. K. Pradhan

**b) Scholarships, stipends and fellowships:**

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

Sl. No.	Name of the fellowship/scholarship	Number of students
1	INSPIRE Fellowship	0
2	Rajiv Gandhi National Fellowship	2
3	University Research Scholarship	3
4	ACIAR-SRFSI Project Fellowship	1

**c) 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:

1. AIC project, Mobile E-Service Farmer Service Kiosks (MEFSK) through “**Developing Innovative Agri-Entrepreneurship Roles for Young Agri-Professionals in West Bengal**”
2. One Department of Agriculture, Government of West Bengal funded Project on “**Enhancing Pulses Production For Food and Nutritional Security, Improved Livelihoods and Sustainable Agriculture in West Bengal**”

3. **“National Information System on Agricultural Education Network in India (NISAgNET)”** project as associated scientist (ICAR)
4. One Department of Agriculture, Government of West Bengal funded Project on **Monitoring BGREI activities** as scientist
5. **“Sustainable Resilient Farming System Intensification in Eastern Gangetic Plains”** project as Socio-economist, sponsored by 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”** project as Social scientist, sponsored by Australian Centre for International Agricultural Research (ACIAR)
7. **“National Information System on Agricultural Education Network in India (NISAgNET)”** project as associated scientist (ICAR)

#### ***E. Extension Activities:***

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.

- Dr. K. Pradhan is the **Editor** of the **UBKV Newsletter** published by the Directorate of Extension Education, UBKV.
- Prof. P.K.Pal is the **Editor** of the University Bulletin **“Uttarer Krishi Katha”** published by the Directorate of Extension Education, UBKV.

#### ***F. Infrastructural and Support Facilities available:***

1. **Photography and Videography Laboratory** renders the functions of video editing, digital photography, analog photo development and printing
2. **Audio-visual Laboratory** provides an exposure to all modern audio visual aids

**G. Faculty and Staffs:****a) Head of the Department: Dr. Kausik Pradhan****b) Faculty: (presented in the following table)**

Sl. No.	Name	Designation	Specialisation	Contact address
1.	Dr. K. Pradhan	Associate Professor & Head	Agricultural Communication	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Phone: 9434686707 Email: kausikextnubkv@gmail.com
2.	Prof. P.K.Pal	Associate Professor	Agricultural Communication	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Mobile: 9434126766 Email: pkpalubkv@gmail.com
3	Dr Sabita Mondal	Assistant Professor	Rural Development	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Phone: 9903164890 Email: sabidas_2007@rediffmail.com
4	Deepa Roy	Assistant Professor	Agricultural communication, Training	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Phone: 9474061644 Email: roydeepa87@gmail.com
5.	Litan Das	Assistant Professor	Agricultural communication, Training, Marketing	Department of Agricultural Extension, UBKV, Pundibari, Coochbehar-736165 Phone: 8116872991 Email: litandasiari@gmail.com

**c) Non-teaching staffs:**

Sl. No.	Name	Designation	Contact address
1.	Anil Koiri	Office Attendant	Pilkhana Road, (South of I.T.I), Ward No- 9 P.O- Coochbehar Dist- Coochbehar Pin-736101 Phone 9733596878
2.	Chitta Ranjan Anjoy	Jr. Peon	Dakshin Kalarayear Kuthi, P.O-Pundibari

			Dist- Coochbehar Pin-736165 Phone-9735045292
3.	Tamal De Sarkar	Superintendent (Technical)	West Khagrabari Road P.O- Coochbehar Dist-Coochbehar Pin-736101 Phone-9474521230

#### **H. Master Degree thesis completed:**

Sl. No.	Title	Year	Author	Chairman
1	Exploring the strategies for enhancing the nutritional security of farm women in Cooch Behar district of West Bengal	2018	Karishma Baidya	Dr K.Pradhan

#### **J. Paper & Books published:**

Sl. No.	Title	Author	Journal
<b>Paper (Research and Extension)</b>			
1.	Enhancing the capacity of the women led Agricultural Innovation System through its diagnosis.	Das Rema and <b>Pradhan, K.</b> (2017)	<i>Indian Journal of Applied Research.</i> <b>7</b> (1): 748-753. <b>ISSN-2249-555X International Peer reviewed, Impact Factor 2016-3.919</b>
2.	Identification and documentation of Indigenous Technical Knowledge (s) regarding pest control methods in agriculture.	<b>Pradhan, K;</b> Yolmo Zigme; Saha Avishek and Vara Prasad, C (2017)	<i>International Journal of Agriculture Sciences.</i> <b>9</b> (38) : 4580-4584. <b>ISSN 0975-3710, E-ISSN 0975-9107, NAAS rating 4.82</b>
3.	Focusing on the involvement of women dairy farmers in decision making process at Manipur.	<b>Pradhan, K;</b> Devi Lakshimai Yangle; Das Rema; Saha Avishek; Sarkar Victor and Ganguly Bablu (2017)	<i>Indian Research Journal of Extension Education.</i> <b>17</b> (1):1-4. <b>ISSN 0972-2181 Refereed, NAAS rating 4.81</b>
4.	Sensitizing the peasants on the economic livelihood impact of the large cardamom enterprise.	Manger Saiman; <b>Pradhan, K.;</b> Saha Avishek; Vara Prasad C.; Sarkar Victor and Ganguly, Bablu (2017)	<i>Journal of Agroecology and Natural Resource Management.</i> <b>4</b> (2): 171-177. <b>ISSN 2394-0786, e-ISSN; 2394-0794, Refereed</b>
5.	Exploration and Interpretation of Women Stakeholders' Overall Involvement in Women	<b>Pradhan, K.</b> and Das Rema (2017)	<i>Indian Research Journal of Extension Education.</i> <b>17</b> (3):74-81. <b>ISSN 0972-2181 Refereed, NAAS rating 4.81</b>



	Led Agricultural Innovation System (AIS).		
6.	Interpreting the farmers' Perception and Predisposition for Exploring the Contribution of Large Cardamom Enterprise on Livelihood Pattern in East Sikkim Himalayas.	Saiman Manger, <b>K. Pradhan</b> , Avishek Saha and Rema Das (2017)	<i>Indian Research Journal of Extension Education</i> . <b>17</b> (3):16-21. <b>ISSN 0972-2181 Refereed, NAAS rating 4.81</b>
7.	Relationship of socio-economic factors with attributes of homegarden agro-forestry systems in Northern part of West Bengal.	Subba Mohit.; Pala N A.; Shukla, G.; <b>Pradhan, K.</b> and Chakravarty, S. (2017)	<i>Journal of Tree Sciences</i> . <b>36</b> (2): 76-91. <b>ISSN 0970-7662, NAAS rating 3.51</b>
8.	Participatory knowledge sharing among agricultural extension professional on organic farming practices.	Vara Prasad, C and <b>Pradhan, K.</b> (2018)	<i>Journal of Krishi Vigyan</i> . <b>6</b> (2): 168-171. <b>ISSN 2319-6432 (P), 2349-4433 (O). NAAS rating 4.41</b>
9.	Perceiving the behavioural change of farmers through modern Information Communication Technology (ICT) tools.	<b>Pradhan, K.</b> ; Panda Subhrajyoti and Prasad C. Vara (2018)	<i>Indian Research Journal of Extension Education</i> . <b>18</b> (2): 46-53. <b>ISSN 0972-2181 Refereed, NAAS rating 4.81</b>
10.	Climate Change Perception and Response Strategies of Forest Fringe Communities in Indian Eastern Himalaya.	Dey, T., Pala, N. A., Shukla, G., <b>Pal, P. K.</b> , Das, G. & Chakravarty, S. (2017).	Environment, Development and Sustainability (Springer). <b>15</b> (5): doi 10.1007/s10668-017-9920-1 ( <b>Impact Factor-1.379</b> ).
11.	Social and biophysical impacts of watershed development programmes: experiences from a micro-watershed area in India.	<b>Pal, P. K.</b> , Ganguly, B., Roy, D., Guha, A., Hanglem, A. and Mondal, S. (2017).	Water Policy. <b>19</b> (1): doi: 10.2166/wp.2017.189 ( <b>Impact Factor-0.95: NAAS-6.95</b> )
12.	Adoption of scientific farm innovations towards enhancing nutritional security in selected areas of Kalimpong, West Bengal	Lepcha, N. Bandyapadhyay, A. K and <b>Pal, P K.</b> (2017).	<i>Journal of Krishi Vigyan</i> . <b>6</b> (1): 10-14. doi : 10.5958/2349-4433.2017.00040.X ( <b>NAAS-4.41</b> )
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. (2017).	<i>Asian Journal of Agricultural Extension, Economics &amp; Sociology</i> . <b>19</b> (3): doi: 10.9734/AJAEES/2017/35433 ( <b>NAAS-4.35</b> )
14.	Livelihood diversity in family farming in selected hill areas of West Bengal, India.	Pal, P. K. Bhutia, P. T. Das, Litan. Lepcha, N. and Nain, M.S. (2017).	<i>Journal of Community Mobilization and Sustainable Development</i> Vol. <b>12</b> (2), 172-178. ( <b>NAAS-5.30</b> )

15.	Community Level Vulnerability to Climate Change: A Comparative Case Study between Selected Naga Tribes in India. <i>Current</i>	Vimenuo S. Kuotsu, <b>P. K. Pal</b> , Deepa Roy, Sabita Mondal, Litan Das and Satarupa Modak. (2017).	<i>Journal of Applied Science and Technology [British Journal of Applied Science and Technology]</i> . 23(6). DOI: 10.9734/CJAST/2017/35939 ( <b>NAAS-5.32</b> )
16.	Perspectives of Small Scale Tea Growing System (Stgs): A Study of North Bengal areas In India.	Avrajyoti Ghosh, Litan Das, <b>P. K. Pal</b> , A. Sarkar and M. S. Nain (2017).	Indian Journal of Extension Education 53 (4): 52-56. ( <b>NAAS-5.32</b> )
<b>Book Chapter</b>			
1.	Refocusing the correlates of carbon sequestration through maintaining the carbon stock in home gardens of West Bengal, India. Natural Resources Management for Sustainable Development and Rural Livelihoods.	Subba Mohit; Pala, N A; Shukla Gopal; <b>Pradhan, K</b> and Chakravarty, S. (2017)	<i>In Eds V.P.Sati and K.C. Lalmalsawmzauva. Today &amp; Tomorrow's Printers and Publishers, New Delhi, India. ISBN 81-7019-584-1</i>
2.	Exploration and Extrapolation of Extension Strategy for Promotion of Spice Production and Processing in India.	Pradhan, K. (2018)	Indian Spices: The Legacy, Production and Processing of Indian Treasured Export. <i>In Eds. Amit Sarangi. Springer International Publishing.</i> pp. 421-438. <b>Print ISBN 978-3-319-75015-6</b>
3.	Risk Management in Floriculture with focus on Insurance	S.Mondal (2017)	Advances in Floriculture & Urban Horticulture. (ISBN 978-93-85883-65-1)
<b>Book</b>			
1.	Glimpses of practical in Extension Education.	<b>Pradhan, K.</b> ; Vara Prasad, C.; Saha, A; Das Rema; Sarkar, V. and Panda, S. (2017)	<i>New India Publishing Agency, New Delhi. ISBN 978-93-86546-01-2</i>
2.	Dynamics of Extension Education” authored by	Litan Das, Subhrajyoti Panda and Anirban Mukherjee	Sharma Publisher and Distributor

***K. Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course attended/organized:***

<b>Sl. No.</b>	<b>Seminar, Symposium, Conference, Training and Winter/Summer/Refresher course/short course</b>	<b>Faculty associated</b>	<b>Date</b>	<b>Venue</b>	<b>Attended/Organised</b>
1.	National Seminar on “Science and Mankind-A Better Tomorrow”	Dr. K. Pradhan	22.02.18-23.02.18	ABN Seal College, WB	ABN Seal College, WB
2.	National Seminar on “Approaches to Environment : Society, Culture, Polity and Economy”	Dr. K. Pradhan	26.02.18-27.02.18	ABN Seal College, WB	ABN Seal College, WB
3.	Adoption and suitability of “Sarva Shiksha Abhiyan” in the rural environment of West Bengal	Dr S.Mondal	11-12 May, 2017.	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)to be held at Kalimpong Science Centre, Kalimpong, West Bengal, India,
4.	Risk Management in floriculture with focus on Insurance.	Dr S.Mondal	from 4-5 January 2018	BCKV	“National Symposium on Recent Advances on Floriculture and Urban Horticulture in Global Perspective

5.	“Development of Agricultural Extension” held	Dr S.Mondal	6-7 <sup>th</sup> March 2017	DDLE,NBU	Two day training workshop at Uttar Chakwakheta
6.	Promotion of Skill Development in Agricultural Sectors for Eastern States of India	Dr S.Mondal	25 <sup>th</sup> May 2017		Zonal Workshop
7.	Dynamics if In-Tension of Ex-Tension	Dr S.Mondal	03.07.2017 to 23.07.2017	Department of Extension Education, I. Ag.Sc., BHU	21 days summer school



## **Glimpses of Annual Activities & Achievements of the Department**



**Field staff training on ICTs under Mobile E-Service Farmer Service Kiosks (MEFSK) through “Developing Innovative Agri-Entrepreneurship Roles for Young Agri-Professionals in West Bengal”**







**Participatory Methods for Technology Development and Transfer**







**Teachers Day and fresher's day celebration in the department**







**Two day Training workshop Development of Agriculture Extension in collaboration with University of North Bengal**







**Student READY Programme 2017-18**







**Fair well of Msc student Karishma Baidya**



**Fair well of Anil Koiri, Office Attendant**



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