

FACULTY PROFILE



Buddhadeb Duary
Professor of Agronomy

Department
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M. Sc. Research Title:

“Survey autecology and ethnobotanical studies of crop field weeds”

Ph.D. Research Title:

“Ecophysiological analysis of competition between littleseed canary grass (*Phalaris minor* Retz.) and wheat (*Triticum aestivum* L.)”

Academic service:

Assistant Agronomist, (WBAS Research), Govt. of West Bengal, Pulses and Oilseeds Research Station, Berhampore, Murshidabad, West Bengal from 11.01.1999 to 07.12.2002.

Teaching Experience:

20 years

Major Course Taught:

- Teaching "Fundamentals of Agronomy I" "Introductory Agrometeorology and Climate Change", "Weed Management", "Farming System and Sustainable Agriculture", "Practical Crop Production II" and "RAWE" courses to the **UG students**.
- Teaching "Principles and Practices of Weed Management", "Modern Concepts in Crop Production", "Principles and Practices of Organic Farming", "Agrometeorology and Crop Weather forecasting" and "Cropping Systems and Sustainable Agriculture" to the **post graduate** students **since last 19 years**.
- Teaching "Advances in Weed Management" and other course like "Research Methodology" at **Ph. D. level** during last 10 years.

Research areas of interest:

Weed ecology, biology and management in different crops and cropping systems, Minimum tillage and conservation tillage under rice-based cropping system.

Research Experience:	23 years
Awards/Honours/ Recognition:	<ol style="list-style-type: none"> 1. ISWS Fellow Award 2015 from Indian Society of Weed Science, ICAR-DWR, Jabalpur, for outstanding contribution in Weed Science. 2. CWSS Fellow Award 2015 from Crop and Weed Science Society, Bidhan Chandra Krishi Viswavidyalaya (BCKV), for outstanding contribution towards Agricultural Research and Development of the nation. 3. Recognition Award (2011) from Directorate of Weed Science Research (DWSR), Jabalpur (ICAR) for successful completion of Govt. of India sponsored project "National Invasive Weed Surveillance Programme (NIWS)". 4. Young Scientist Award 2008 from Crop and Weed Science Society in recognition of significant contribution to the field of Agriculture. 5. G.A. Dastane Gold Medal, 1999 from the Division of Agronomy, Indian Agricultural Research Institute, New Delhi, for outstanding academic and research performance in Ph. D programme. 6. Selected and invited by the Ministry of Human Resources Development, as one of the meritorious students for witnessing the Republic Day Parade, 1995 from Prime Minister's Box and met the then Hon'ble Prime Minister. 7. Senior Research Fellowship of Indian Council of Agricultural Research (ICAR, New Delhi) during Ph. D programme. 8. Tapan Memorial Award for academic proficiency in M.Sc. studies. 9. University Merit Scholarship during M. Sc. Programme. 10. Indian Agricultural Research Institute Merit Scholarship. 11. Visited International Rice Research Institute (IRRI), Los Banos, Philippines as Visiting Scientist during the period from 8-21 December, 2017.
Supervision of Research:	Supervised Ph. D. students : 13 Supervising Ph. D. students: 4 Supervised M. Sc.(Ag.) students: 26 Supervising M. Sc. (Ag.) students: 2

Research Publication:	<p>Book: 01</p> <p>Book chapters: 28</p> <p>Full length Research Paper published in national and International Journals: 90</p> <p>Paper presented in National and International Seminar / Symposium /Conference / Congress etc. and published as full paper with ISBN/ISSN</p> <p>Number/extended summary/Abstract: 166</p> <p>Practical manual / Technical Reports / Project reports / Bulletins / Pamphlets / Brochure etc.: 61</p> <p>Popular article: 12</p>
Number of Research Projects:	<p>Research project Completed: 10</p> <p>Ongoing research projects: 4</p> <p>Significant projects handled/handling:</p> <ul style="list-style-type: none"> i) Ecological and Sustainable Management of Rice Based Production System (ESMRPS) funded by International Rice Research Institute (IRRI), Manila, Philippines, 2015-2019 (22000 USD). ii) Improved Crop Management and Strengthened Seed Supply System for Drought prone rainfed lowlands in South Asia - funded by International Rice Research Institute (IRRI), Manila, Philippines, 2016-2020 (22000 USD). iii) Sustainable farming systems: Farm diversification under ICAR-IRRI Collaborative Project # 4 funded by International Rice Research Institute (IRRI), Manila, Philippines, 2017-20 (5000 USD per season). iv) Direct Seeded Rice Consortium (DSRC) under ICAR-IRRI Collaborative Project # 4/ Rice Flagship #3.1/ Sub-project 1 funded by International Rice Research Institute (IRRI), Manila, Philippines, December, 2018- continuing (20000 USD). v) National Invasive Weed Surveillance Project sponsored by the Ministry of Agriculture and Cooperation, Govt. of India. Area Coordinator from April, 2008 to September, 2010 (About INR 22 lakh). vi) All India Coordinated Research Programme on Weed Control (ICAR), Visva-Bharati, Sriniketan Centre. Principal Investigator from 2003 to April, 2013 (About INR 30 lakh / year). vii) Handled/Handling several other projects on weed research sponsored by Industries like Sumitomo Chemical India Pvt. Ltd., Makhtesim Agan India Ltd., Crystal Crop Protection Pvt. Ltd., PI Industries Ltd., FMC, Syngenta, Rallis India, GMS Agritech Pvt. Ltd. etc.

Foreign visit:	<ul style="list-style-type: none"> • Visited International Rice Research Institute (IRRI), Head Quarter, Los Banos, Manila, Philippines during 8-21 December, 2017 as Visiting Scientist in the Sustainable Impact Platform of the IRRI. • Visited Indonesia during 20-28 October, 2013 to attend 24th Asian Pacific Weed Science Society Conference. • Visited Cairns, Australia during 23 September to 1st October, 2011 to attend 23rd Asian Pacific Weed Science Society Conference.
Academic Distinction/ Affiliation of Scientific/Technical Committees at State/National/International level:	<ul style="list-style-type: none"> • Resource person/Lead Scientist of ICAR for presenting the network activities on Transfer of Technology of 22 centres under AICRP-Weed Control (ICAR) during 2005-08 and 2010-11. • External Evaluator of the "Food Security & Sustainable Agriculture Project in Birbhum District , of ABSK supported by Canadian Food grains Bank (CFGB) in collaboration with Mennonite Central Committee (MCC) India during the period from January 7 to 11, 2019 • Joint Secretary, Indian Society of Weed Science (2019-2021). • Councilor (West Bengal) of India Society of Weed Science (2008 to 2013 and 2014-16). • Councilor (West Bengal) of India Society of Agronomy (2011-13). • Member of the Executive Committee of the Crop and Weed Science Society (2006-2008, 2008-10, 2010-12). • Referee of many professional Journals. • Member of the Editorial Board of two professional Journals. • PG Coordinator of Agronomy, Department of ASEPAN, Institute of Agriculture, Visva-Bharati. (July 2012 to November, 2014). • Member of the Research Board, Visva-Bharati (Since May, 2012). • Life Member of International Weed Science Society, Asian Pacific Weed Science Society, Indian Society of Agronomy, Indian Society of Weed Science, Indian Society of Agricultural Sciences, Crop and Weed Science Society, Indian Science Congress Association, The Agricultural Society of India, Society of Bioresource Environment and Agricultural Sciences.
Extension activities:	<p>Actively participating in different extension programmes of the Department/Institute as resource person in many training programmes, farmers-scientist meets, Krishi Mela, Radio Programme, T.V. Programme, transfer of technology programme <i>etc.</i></p> <p>TV programme (including Live programme): 40</p> <p>Radio talk (including Live programme): >30</p> <p>Lecture delivered as resource person: 162</p> <p>Training and Demonstration imparted: 39</p> <p>Organised workshop/seminar etc. : 31</p> <p>Demonstration and Training imparted: 39</p>
Other relevant information:	<ul style="list-style-type: none"> • Developed more than 25 weed control recommendations for major crops and cropping systems, non-cropped areas, aquatic weeds <i>etc.</i> and passed to the farmers. • Developed database on major weeds, including invasive weeds of crop and non-cropped areas of 9 districts of West Bengal. • Organised <i>Parthenium</i> Awareness Week during consecutive 9 years (2004-

2012).

- Leadership in **successful release and establishment of the bio-control agent (Mexican beetle) on *Parthenium*** under natural condition for the **first time in West Bengal**.
- Advanced Training: (8)
- Working as Collaborating NARES Scientist with **International Rice Research Institute (IRRI)**, Los Banos, Philippines since 2015.
- Contributed for development of **Weed Apps** of rice and wheat developed by **International Rice Research Institute (IRRI)**, Los Banos, Philippines (Group Leader from Eastern India).