

CURRICULUM VITAE

NAME : DR. PRASANTA KUMAR BANDYOPADHYAY
DESIGNATION : Professor
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DEGREES

- Ph.D. (1994) in Agricultural Chemistry & Soil Science, BCKV, Mohanpur, West Bengal, India
 - Title: Root water extraction patterns and actual evapotranspiration of wheat and winter maize under various moisture regimes
- M.Sc(Ag) (1987) in Agricultural Chemistry & Soil Science, BCKV, Mohanpur, West Bengal, India
- B.Sc(Ag) Hons (1985) Palli Siksha Bhavan, Visva Bharati University, West Bengal, India

EMPLOYMENT

- Professor, Department of Agricultural Chemistry & Soil Science, BCKV (2012- continuing)
- Associate Professor, Department of Agricultural Chemistry & Soil Science, BCKV (2009-2012)
- Reader, Department of Agricultural Chemistry & Soil Science, BCKV (2006-2009)
- Assistant Professor (Sr. Scale), Department of Agricultural Chemistry & Soil Science, BCKV (2001-2006)
- Assistant Professor, Department of Agricultural Chemistry & Soil Science, BCKV (1997-2001)
- Technical Assistant, Soil Testing Laboratory, PSB, Visva Bharati University (1993-1997)

FIELD OF SPECIALIZATION : Soil Physics

ACTIVITIES & HONOURS

- Laboratory analysis in soil testing laboratory (1993-1997)
- Teaching & research experience- 20 years in UG and PG levels
- Scientist in Krishi Vigyan Kendra, Gayeshpur, BCKV (2004-2005)
- Reviewer of Journals: Eur. J. Soil Sci., Ag. Eco. Environ., Ag. Water Manage., Int. J. Environ. Waste Manage., Aust. J. Crop Sci., J. Sci. Agricola, Ag. Res. J., Biores. Tech., J. Crop Weed
- Resource person in extension service, TV talk etc.
- Paper setter/ external examiner
- Life member of Indian Society of Soil Science (since 1994)
- CSIR fellow during Ph.D. study

BOOK CHAPTER

Bandyopadhyay, P.K. 2014. "*Root distribution pattern of pulses in response to water availability*" In "Resource Conservation Technology in Pulses"- Chapter-40: Ed: Ghosh et al. Scientific Publishers (India), ISBN: 978-81-7233-885-5. Pp. 512 to 520.

RESEARCH INTERESTS

- Methods and strategies to characterize soils physically and hydraulically at various temporal and spatial scales
- Resource conservation technology for mitigating abiotic stress
- Water management in rainfed and irrigated systems
- Plant root-soil water interactions and evapotranspiration
- Soil structural integrity as influenced by different management practices and physical protection
- Carbon sequestration in soils
- Pedotransfer functions for ease determination of physical properties for soil quality indicators

TEACHING RESPONSIBILITIES

Soil Fertility & Nutrient Management (ACSS-451), Soil, Plant & Water Analysis (ACSS-452), Soil Physics (ACSS-501), Adv. Soil Physics (ACSS-604), Soil, Plant and Water Relationship (SWE-572)

STUDENT SUPERVISION

6 M.Sc. and 2 Ph. D.

CURRENT PROJECTS

“Mitigating abiotic stresses and enhancing resource-use efficiency in pulses in rice fallows through innovative resource conservation practices”, Funded by NFAS, ICAR- acting as PI since 2011

BEST PUBLICATIONS (10)

- Thirty (32) research papers in national (17) and international (15) journals
 - Twenty six (30) papers in various national and international seminar/symposiums
 - **Bandyopadhyay, P. K.** and Mallick, S. 2003. Actual evapotranspiration and crop coefficients of wheat under varying moisture levels of humid tropical canal command area. *Agricultural Water Management* 59: 33-47.
 - **Bandyopadhyay, P. K.**, Mallick, S. and Rana, S.K. 2005. Actual evapotranspiration and crop coefficients of peanut under varying soil moisture levels in a humid tropical region of India. *Irrigation Science* 23: 161-169.
 - **Bandyopadhyay, P. K.**, Saha, Subita and Mallick, S. 2011. Comparison of soil physical properties between a permanent fallow and a long-term rice–wheat cropping with inorganic and organic inputs in the humid subtropics of eastern India. *Communications in Soil Science and Plant Analysis* 42: 435–449.
 - **Bandyopadhyay, P.K.**, Saha Subita, Mani, P.K. and Mandal, B. 2010. Effect of organic inputs on aggregate associated organic carbon concentration under long-term rice–wheat cropping system. *Geoderma* 154: 379–386.
 - **Bandyopadhyay, P.K.**, Singh, K.C., Mondal, K., Nath, R., Ghosh, P.K., Kumar, N., Basu, P.S. and S.S. Singh. 2016. Effects of stubble length of rice in mitigating soil moisture stress and on yield of lentil in rice-lentil relay crop. *Agricultural Water Management* 173: 91-102.
 - Majumder, Bidisha., Mandal, B., **Bandyopadhyay, P.K.**, Gangopadhyay, A., Mani, P.K., Kundu, A.L. and Mazumdar, D. 2008. Organic amendments influence soil organic carbon pools and rice–wheat productivity. *Soil Science Society of America Journal* 72: 775–785.
 - Majumder, Bidisha., Mandal, Biswapati., **Bandyopadhyay, P. K.** and Chaudhuri, J. 2007. Soil organic carbon pools and productivity relationships for a 34 years old rice-wheat-jute agroecosystem. *Plant and Soil* 297: 53-67.
 - Mandal, B., Majumder Bidisha, Adhya, T.K., **Bandyopadhyay, P.K.**, Gangopadhyay, A., Sarkar D., Kundu, M.C., Gupta Choudhury, S., Hazra, G.C., Kundu, S., Samantaray, R.N. and Mishra, A.K. 2008. Potential of double-cropped rice ecology to conserve organic carbon under subtropical climate. *Global Change Biology* 14, 2139–2151.
 - Mandal, B., Majumder Bidisha, **Bandyopadhyay, P.K.**, Hazra, G.C., Gangopadhyay, A., Samantaray, R.N., Mishra, A.K., Chaudhury, J., Saha, M.N. and Kundu, S. 2007. The potential of cropping systems and soil amendments for carbon sequestration in soils under long-term experiments in subtropical India. *Global Change Biology* 13: 357–369.
 - Sarkar, S., Biswas, M., Goswami, S.B. and **Bandyopadhyay, P.K.** 2010. Yield and water use efficiency of cauliflower under varying irrigation frequencies and water application methods in lower Gangetic plain of India. *Agricultural Water Management* 97: 1655-1662.
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