

Curriculum Vitae

Name: SAIKAT BISWAS

Assistant professor (Agronomy),

F/C Agriculture, Rural and Tribal Development,

*Ramakrishna Mission Vivekananda Educational and Research Institute,
Morabadi, Ranchi, Jharkhand-834008*



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CAREER OBJECTIVE

To improve my knowledge and capabilities by working in a dynamic organization with my best involvement and excellence in the assigned challenging works of the organization that will provide me the opportunities to spread knowledge on agriculture to the students for achieving their proper academic growth.

PERSONAL PROFILE

Father's Name:	Mr. Samir Biswas
Mother's Name:	Mrs. Kabita Biswas
Spouse Name:	Dr. Rupa Das
Permanent Address:	Vill-Ganguria, P.O.-Subarnapur, P.S.-Haringhata, Dist-Nadia, State-West Bengal, PIN-741249
Corresponding Address:	F/C Agriculture, Rural and Tribal Development, Ramakrishna Mission Vivekananda Educational and Research Institute, Morabadi, Ranchi, Jharkhand-834008
Date of Birth:	27 th March, 1994
Gender:	Male
Marital status:	Married
Category:	General
Nationality:	Indian
Religion:	Hindu
Language Known:	Bengali, English and Hindi

ACADEMIC PROFILE

Exams Passed	Board/University	Subjects	Year	Division/ Class
Secondary Examination (10 th)	WBBSE	Bengali (I+II), English, Mathematics, Physical Science, Life Science, History, Geography [Percentage: 85.9%]	2009	1 st
Higher Secondary (10+2)	WBCHSE	Bengali, English, Mathematics, Physics, Chemistry & Biology [Percentage: 86.6%]	2011	1 st
B.Sc. (Ag.)	Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur	Agriculture [OGPA: 8.59; Percentage: 85.90%]	2015	1 st
M.Sc. (Ag.)	BCKV, Mohanpur	Agronomy [OGPA: 9.41; Percentage: 94.10%]	2017	1 st (Secured first position and awarded with university gold medal)
Ph.D.	BCKV, Mohanpur	Agronomy [OGPA: 9.39; Percentage: 93.90%]	2022	1 st
ASRB-NET	ASRB, ICAR	Agronomy	2019	Qualified

COMPUTER SKILLS

Operating Systems	MS DOS and Windows
Application Software	Microsoft Office, SPSS, OP-STAT, STAR
Application of IT in Agriculture	ICT tools
Successfully passed GRADUATE DIPLOMA IN COMPUTER APPLICATION course from THE INSTITUTE OF COMPUTER ENGINEERS (INDIA) recognized by DOE, Govt. of India on behalf of AICTE for DOEACC O-Level, A-Level, B-Level Courses.	

EXPERIENCE AND ACTIVITIES

Details	Period
Senior Research fellow (SRF) on a Project funded by AB Mauri Pvt. Ltd.	28 December, 2017 – 28 December, 2018
Assistant Professor (Agronomy), Lovely Professional University, Phagwara, Punjab, India	28 August, 2021- 30 April, 2022
Assistant Professor (Agronomy), F/C Agriculture, Rural and Tribal Development, Ramakrishna Mission Vivekananda Educational and Research Institute, Morabadi, Ranchi, Jharkhand-834008	5 May, 2022- till date
Additional activities	
Hall and seating arrangement in-charge, Annual convocation-2023 (RKMVERI, Ranchi)	27 September 2023
Farm in-charge, Maheshpur Farm, RKMA, Ranchi, Jharkhand	23 September 2023-till date
Coordinator, Examination committee (RKMVERI, Ranchi)	12 December 2023-till date
Member, M.Sc. (ARTD) Syllabus framework committee (RKMVERI Ranchi)	2 January 2024-till date

ACADEMIC ACTIVITIES

M.Sc. thesis	Effect of Nutrient Management on Food-forage Intercropping System of Oat and Lathyrus
Ph.D. thesis	Response of <i>Rabi</i> Maize (<i>Zea mays</i> L.) to Irrigation and Fertilizer Levels in Gangetic Plains of West Bengal and its Simulation through CERES-Maize model
RAWE	Participated in Rural Agricultural Work Experience 2015 (RAWE) conducted by Bidhan Chandra Krishi Viswavidyalaya
NSS	Participated in NSS activities conducted by Bidhan Chandra Krishi Viswavidyalaya as a part of B.Sc. (Ag) programme
Science camp	Participated in the DST-INSPIRE INTERNSHIP SCIENCE CAMP, 2010 sponsored by Department of Science & Technology, Govt. of India at University of Kalyani
Publications (No.)	59
International seminar/conference attended/participated	5
National seminar/conference attended/participated	3
State seminar/conference attended/participated	1
Training attended/participated	2
Country visited	Bhutan

Details of publication:

Sl. No.	Title	Journal, Volume, Issue, Pages/ DOI	Year
Research/review articles			
1	Optimizing the Application Timing of Liquid Organic Formulations and Their Effect on Sustainable Cowpea Production in Soils of Eastern Indian Plateau	Journal of Soil Science and Plant Nutrition, Springer Nature; 23(1); DOI: 10.1007/s42729-023-01439-5	2023
2	Double transplanting of rice as a contingency approach to escape climate change impacts	Discover Agriculture, Springer Nature; 1:8; DOI: 0.1007/s44279-023-00010-1	2023
3	Response of transplanted kharif rice to organic liquid formulations in a red and lateritic soil of Jharkhand	ORYZA- An International Journal on Rice; 60(4): 615-621; DOI:10.35709/ory.2023.60.4.14	2023
4	Response of potato (<i>Solanum tuberosum</i> L.) to different organic liquid manures in Jharkhand, India	Journal of Crop and Weed 19(2):244-249; DOI:10.22271/09746315.2023.v19.i2.1727	2023
5	Influence of Organic Nitrogen Sources on Aromatic Rice (<i>Oryza sativa</i> L.) Cultivation in the Eastern Plateau and Hill Region of India	Environment and Ecology; 41 (3B): 1767—1772; DOI: 10.60151/envec/KZEN1480	2023
6	Effect of Integrated Nutrient Management on Nodulation, Yield, Quality, Energetics and Economics of Soybean [<i>Glycine max</i> (L.) Merrill.] Varieties in Eastern India	Legume Research - An International Journal; DOI:10.18805/LR-5036	2023
7	Effect of Corm and Soil Treatments with Organic Liquid Formulations on Performance of Elephant Foot Yam in Jharkhand, India	International Journal of Plant & Soil Science; 35(5): 116-124	2023
8	Kunapajala: A Traditional Organic Formulation for Improving Agricultural Productivity: A Review	Agricultural Reviews; DOI:10.18805/ag.R-2570	2023

9	Use of Amritpani: An Excellent Bio-Enhancer for Sustainable Agriculture: An Overview	Agricultural Reviews; DOI:10.18805/ag.R-2540	2022
10	Brown Manuring-An Eco-friendly Approach towards Sustainability in Agriculture: A Review	Agricultural Reviews; DOI:10.18805/ag.R-2418	2022
11	Effect of Integrated Nutrient Management on Growth Characters of Soybean (<i>Glycine max</i> L.) Varieties	International Journal of Environment and Climate Change; 12(7):149-158	2022
12	Effect of Macronutrient Levels, Micronutrient Mixture and Humic Acid on Yield and Economics of Kharif Maize	International Journal of Environment and Climate Change; 12(6):24-32	2022
13	Role of Integrated Nutrient Management on Oat: A Review	International Journal of Environment and Climate Change; 12(5):66-79	2022
14	Effect of Varying Levels of Fertilizers and Date of Sowing on Production and Economic Profitability of Kharif Maize (<i>Zea mays</i> L.)	International Journal of Environment and Climate Change; 12(4): 97-106	2022
15	Changes in biochemical and enzymatic activities with ageing in seeds of different sizes of sunflower (<i>Helianthus annuus</i> L.) under invigoration treatments	Plant Physiology Reports Springer Nature: 1-15	2021
16	Effect of seed invigoration on growth, yield and economics of sunflower (<i>Helianthus annuus</i> L.)	The Bioscan, 16(1): 261-267	2021
17	Invigoration of various sized sunflower seeds: an evaluation of germination and seedling quality parameters under different aging conditions	J. Oilseeds Res.; 38(2): 137-144	2021
18	Bio-efficacy of glufosinate ammonium on weed control and yield of cotton (<i>Gossypium hirsutum</i>)	Indian Journal of Agronomy 66(4):455-461	2021
19	Effect of conservation tillage practices on growth attributes of different fodder crops and soil moisture depletion	International Journal of Chemical Studies; 9(1): 1846-1852	2021

20	Effect of Conservation Tillage on Yield and Economics of Fodder Crops	International Journal of Environment and Climate Change, 10(12): 529-539,	2020
21	Impact of Integrated Nutrient Management on Performance of Oat-grasspea Cropping Systems, Competition Indices and Residual Soil Fertility	International Research Journal of Pure & Applied Chemistry, 21(24): 358-371	2020
22	Effect of integrated nutrient management on green forage, dry matter and crude protein yield of oat in oat-Lathyrus intercropping system	Journal of Crop and Weed, 16(2): 233-238	2020
23	Zero budget natural farming in India: aiming back to the basics	International Journal of Environment and Climate Change,10(9): 38-52	2020
24	Prospects and constraints of transplanted maize, wheat, sorghum and pearl millet: a review	International Journal of Environment and Climate Change,10(5): 24-43	2020
25	Effect of seaweed extracts on growth, yield and economics of <i>kharif</i> rice (<i>Oryza sativa</i> L.)	Journal of Pharmacognosy and Phytochemistry, 9(3): 247-253	2020
26	Effect of integrated nutrient management on growth, yield and economics of hybrid maize (<i>Zea mays</i> L.)	Current Journal of Applied Science and Technology,39(3): 78-86	2020
27	Growth, yield, seed and seedling quality parameters of rapeseed-mustard varieties under different seed priming options	International Journal of Environment and Climate Change,10(3): 1-14	2020
28	Quality parameters of sunflower (<i>Helianthus annuus</i> L.) seeds and seedlings under various storage duration and seed invigoration	International Journal of Current Microbiology and Applied Sciences, 9(2): 76-87	2020
29	Effect of integrated nutrient management (INM) on nutrient uptake, yield and quality of potato (<i>Solanum tuberosum</i> L.)	International Journal of Chemical Studies, 8(1): 436-442	2020

30	Phytotoxic effects of glufosinate ammonium on cotton and soil micro-flora	Indian Journal of Weed Science, 51(4): 362-367	2019
31	Effect of integrated nutrient management on growth attributing characters of crops under various oat-lathyrus intercropping system	The Pharma Innovation Journal, 8(9):368-373	2019
32	Periodic dry matter accumulation and crop growth rate of oat and lathyrus as influenced by integrated nutrient management in intercropping systems	International Journal of Current Microbiology and Applied Sciences, 8(8): 2675-2686	2019
33	Effect of nutrient management practices on yield of sunflower (<i>Helianthus annus</i> L.) under red and lateritic zones of West Bengal	Indian Agriculturist, 60(3 & 4): 209-213	2017
34	Conservation and wise use of wetland ecosystem for water and crop productivity, livelihood security and rural sustainability	International Journal of Bio-Resource, Environment and Agricultural Sciences, 3(1): 482-496	2017

Book chapters

1	Organic Farming to Mitigate Abiotic Stresses under Climate Change Scenario	In: Plant Physiology Annual Volume 2023, Intechopen; DOI:10.5772/intechopen.111620	2023
2	Influence of Abiotic Stresses on Seed Production and Quality	In: Seed Biology Updates, Intechopen; DOI: http://dx.doi.org/10.5772/intechopen.106045	2022
3	Remote Sensing and Geographic Information System: A Tool for Precision Farming	In book: Geospatial Technologies for Crops and Soils Publisher: Springer Nature Singapore	2020

Popular articles

1	Organic ways for long term seed preservation	Agriallis, 5(9): 28-34	2023
2	Pusa bio-decomposer: A promising option to stop crop residue burning	Trends in Agriculture Science, 2(4): 272-275	2023
3	System of finger millet intensification	Indian Farming, 73(05): 35-38	2023
4	Dry direct seeding of rice: a traditional approach of rice cultivation under water shortage	Prabuddha gram, 3(1): 41-42	2023
5	Alternate Wetting and Drying: A Water Saving Approach of Irrigation	Vigyan Varta, 4(4): 28-31	2023
6	Micro-greens: a promising nutritious food	Prabuddha gram, 2(2): 41-44	2022
7	Job's tears- A Less Known Multipurpose Crop	Just Agriculture, 3(1): 1-6	2022
8	Biodynamic Farming: A Way Towards Sustainable Agriculture	Agriculture & Food: E-Newsletter, 4(3): 46-49	2022
9	Role of Low or No Cost Agricultural Inputs in Crop Production	Agriculture & Food: E-Newsletter, 4(3): 352-355	2022
10	Seed Fortification as a Boon to Crop Growth and Productivity	Agriculture & Food: E-Newsletter, 4(3): 234-236	2022
11	Genetically Modified Crops: Prospects and Risks	Agriculture & Food: E-Newsletter, 4(2): 261-263	2022
12	Hydroponics: A promising modern intervention in agriculture	Agriculture & Food: E-Newsletter, 4(1): 334-338	2022
13	Kitchen compost: A promising way to recycle waste into wealth	Agriculture & Food: E-Newsletter, 4(1): 254-256	2022
14	Structured water: An innovative irrigation option in agriculture	Agriculture & Food: E-Newsletter, 4(1): 342-344	2022
15	Seed Treatment with Biochar: A Promising Agricultural Intervention	Agriculture & Food: E-Newsletter, 3(11): 303-305	2021
16	Madur Kathi: A Traditional Crop with Rural Socio-Economic Prospects	Agriculture & Food: E-Newsletter, 3(11): 400-403	2021
17	Post-Harvest Operations in Rice Grains	Agriculture & Food: E-	2021

		Newsletter, 3(6): 270-272	
18	System of Wheat Intensification (SWI)	Agriculture & Food: E-Newsletter, 3(5): 175-178	2021
19	Pinching: A Promising Practice to Promote Crop Production	Agriculture & Food: E-Newsletter, 3(5): 47-48	2021
20	Role of organic mulch in weed management	Agriallis, 3(5): 8-12	2021

Conference articles

1	Weed management in transplanted Kharif rice (<i>Oryza sativa</i> L.) and its residual effect on Utera Lathyrus (<i>Lathyrus sativus</i> L.)	Conference: 2nd Indian Rice Congress; An International Event on Transforming Rice Research: Recent Scientific Developments and Global Food Crisis At: ICAR-NRRI, Cuttack, Odisha, India on February 11-14, 2023	2023
2	Performance of promising rice varieties as influenced by levels of nitrogen under rainfed shallow lowland situation of red and laterite zone of West Bengal, India	Conference: National Seminar on Sustainable Agriculture for Food Security and Better Environment At: Farmer's Academy and Convention centre, BCKV, Kalyani, Nadia, West Bengal on December 17-18, 2015	2015

Details of students guided:

Name of Scholars	Title of Projects/Dissertation	Programme and Year of completion
Lovely professional university, Phagwara, Punjab		
Suman Sharma (ID: 12004707)	Effect of fertilizer levels and sowing dates on <i>kharif</i> maize in Punjab, India	M.Sc. (Agriculture) in Agronomy, 2022
Ramakrishna Mission Vivekananda Educational and Research Institute, Morabadi, Ranchi, Jharkhand		
Ashok Thakur (ID: R2020007)	Response of chickpea (<i>Cicer arietinum</i> L.) to different organic sources of phosphorus in Eastern plateau and hill zone of India	B.Voc. in Sustainable Agriculture, 2023
Anup Mahto (ID: R2020003)	Influence of different organic sources of phosphorus on growth, yield and economics of chickpea (<i>Cicer arietinum</i> L.) in Eastern plateau and hill zone of India	B.Voc. in Sustainable Agriculture, 2023
Arjun Kumar Mahto (ID: R2020006)	Effect of different organic sources of phosphorus on performance of chickpea (<i>Cicer arietinum</i> L.) in Eastern plateau and hill zone of India	B.Voc. in Sustainable Agriculture, 2023
Devendra Kumar Bediya (ID: R2120010)	Study of shift of phenological phases of <i>kharif</i> finger millet in finger millet-black gram intercropping systems through agro-meteorological indices	B.Voc. in Sustainable Agriculture, 2023
Sopan Kumar (ID: R2120030)	Study of shift of phenological phases of <i>kharif</i> black gram in finger millet-black gram intercropping systems through agro-meteorological indices	B.Voc. in Sustainable Agriculture, 2023
Pritam Mondal (ID: R2120020)	Effect of liquid organic manures on sole and inter cropping systems of baby corn and garden pea	B.Voc. in Sustainable Agriculture, 2023
Soumyajit Mondal (ID: R2120032)	Performance of niger [<i>Guizotia abyssinica</i> (L.f.) Cass.] under different seed priming and liquid manure options in Eastern plateau and hill zone of India	B.Voc. in Sustainable Agriculture, 2023

Arnab Roy (ID: R2032110)	Influence of different organic liquid manures and their combinations on growth, yield, quality and economics of mustard in Eastern plateau and hill zone of India	B.Sc. in Agriculture, Rural and Tribal Development, 2023
Amit Saw (ID: R2032103)	Mustard cultivation using organic liquid manures and their combinations: an evaluation of growth, yield, quality and profitability in Jharkhand, India	B.Sc. in Agriculture, Rural and Tribal Development, 2023
Archna Tirkey (ID: R2032108)	Effect of non-chemical weed control measures on growth, yield, quality and profitability of mustard in Eastern plateau and hill zone of India	B.Sc. in Agriculture, Rural and Tribal Development, 2023

No. of students currently guiding (On-going):

7 M.Sc. (ARTD) students, 3 BVSA students and 6 B.Sc. (ARTD) students of RKMVERI, Ranchi for their dissertation and project works, respectively (as on 16th January 2024).

HOBBIES & EXTRA CURRICULAR ACTIVITIES

Hobbies	<ul style="list-style-type: none"> • Creative writing • Cooking • Photography • Reading Story Books
Extra-curricular activities	<ul style="list-style-type: none"> • Passed 3rd year in ARTS (DRAWING) in 1st division with Distinction from Sastriya Sangeet Kala Parishad (West Bengal) registered under West Bengal Societies Registration Act XXVI of 1961. • Passed in the subject of RABINDRA SANGEET GUITAR in 2012-2013 in 1st division with Distinction from Pracheen Kala Kendra.

AWARDS & OTHER ACTIVITIES/DETAILS

Awards	<ul style="list-style-type: none">• UNIVERSITY GOLD MEDAL and MERIT CERTIFICATE from Bidhan Chandra Krishi Viswavidyalaya for securing highest OGPA in M.Sc. (Ag.) in Agronomy, 2017.• SMT. KIRANMAYEE DEVI MEMORIAL GOLD MEDAL from Bidhan Chandra Krishi Viswavidyalaya for securing departmental first class and first position in M.Sc. (Ag.) in Agronomy, 2017.• INSC YOUNG ACHIEVER AWARD, 2022• MEDHA SAMMAN 2009 from Kanchrapara Municipality for success in Secondary Examination, 2009.• MEDHA SAMMAN 2011 from Kanchrapara Municipality for success in Higher Secondary Examination, 2011.• SMARAK SAMMAN from Kanchrapara Harnett High school for success in Higher Secondary Examination, 2011.• BEST ARTICLE AWARD for several times
Member	<ul style="list-style-type: none">• Crop and Weed Science Society
Reviewer	<ul style="list-style-type: none">• Archives of Agronomy and Soil Science (ISSN: 0365-0340)• Mitigation and Adaptation Strategies for Global Change (ISSN: 1573-1596)• Communications in Soil Science and Plant Analysis (ISSN: 1532-2416)• Vegetos (ISSN: 2229-4473)• International Journal of Plant & Soil Science (ISSN: 2320-7035)• Oryza-An International Journal on Rice (ISSN: 0474-7615)• International Journal of Environment and Climate Change (ISSN: 2581-8627)
Editor	<ul style="list-style-type: none">• Book (IIPV3EBS04_G45): Futuristic Trends in Agriculture Engineering & Food Sciences, Iterative International Publishers (IIP), USA & India
Orcid id	https://orcid.org/0000-0002-4408-3843

Researchgate id	https://www.researchgate.net/profile/Saikat-Biswas-5
Google scholar id	https://scholar.google.com/citations?user=7MwbboUAAAAJ&hl=en
Research interest	<ul style="list-style-type: none"> • Crop management (Agronomy) • Nutrient and water managements of cereal, pulse, tuber, oilseeds and fodder crops • Crop simulation models and future yield prediction • Sustainable organic farming, natural farming, conservation agriculture and IFS • Soil fertility and plant nutrition • Soil, water and plant relationship • Climate change and agriculture • Weed management • Seed priming, seed quality under storage and packaging materials • Soil and water conservation

DECLARATION

I do hereby declare that to the best of my knowledge and belief, the above facts truly and correctly describe my qualification and myself.

--Saikat Biswas