# RESUME


Name : **Dr. Kishore Chandra Swain**
(Ph.D. Thailand; PostDoc Canada & Denmark; Visiting Fellow, Purdue University, USA)

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## Academic Qualifications

| Degree | Institution | Location | Year | Grade |
|---|---|---|---|---|
| D.Engg (Agricultural Systems Engineering) | Asian Institute of Technology (AIT) | Pathumthani, Thailand | 2007 | 3.92 (4.0) |
| M.Engg (Agricultural Systems Engineering) | Asian Institute of Technology (AIT) | Pathumthani, Thailand | 2003 | 3.92 (4.0) |
| B.Tech(Agricultural Engineering) | College of Agricultural Engineering, OUAT | Bhubaneswar Odisha, India | 2001 | 8.29 (10.0) |

## Dissertation Title

Development of Low-cost Soil and Crop Mapping system for Precision Agriculture Application using Unmanned Remote Controlled Helicopter.

## Work Experience Summary

| Position | Institution | Location | Period | | | Responsibility |
|---|---|---|---|---|---|---|
| | | | From | To | Duration | |
| Asst. Professor | Visva-Bharati | India | April 2012 | Till date | 10 yrs | Teaching, research |
| Asst. Professor | Assam University | India | Sept 2010 | April 2012 | 1 yr 6 months | Teaching |
| Post-doc | Aarhus University | Denmark | Feb 2009 | Sept 2010 | 1 yr 8 month | Research, teaching |
| Post-doc | NS Agriculture College | Canada | April 2008 | Feb 2009 | 10 month | Research, teaching |
| Project specialist | Asian Inst. of Tech. | Thailand | Jan 2008 | April 2008 | 3 month | Project Management |
| Intern | UNEP | Thailand | Jun 2007 | Dec 2007 | 7 month | Project Management |
| Project Researcher | Asian Inst. of Tech. | Thailand | Aug 2003 | Aug 2004 | 1yr | Research |

## Project Experience

| Sl no. | Title of the project | Sponsoring agency | Amount (In rupees.) | Duration | Co-investigator |
|---|---|---|---|---|---|
| 1. | Assessment of the Risk of Climate Change on Rain-fed Rice Cropping in Northeast of Thailand | Provention Consertium | 2.8 lakh | Jan 2008-Dec 2009 (2 years) | Grianggai Samseemoung |
| 2. | Biofuel Production in India: Potential, prospectus and Technology | Vice Chancellors Discretionary Grant, VB | 0.1 lakh | 2013-14 (1 year) | |
| 3. | 5-Day (one week) Workshop on "Geoinformatics in Agriculture and Environment" | NABARD, Kolkata | 0.60lakh | 2019 | |
| 4. | Low cost, Flexible Hermetic Storage System for Turmeric Rhizomes and Green gram | Institute of Engineers | 0.60 lakh | 2019-2021 (2 years) | Nileshwari R. Yewle |
| 5. | Training centre development at Department of Agricultural Engineering | Escorts Training & Development Centre (ETDC) | 26 lakh | 2021-22 | Dr. P. Kandsamy |
| 6. | SERB Overseas Doctoral Fellowship Grant | SERB, Govt. of India | 21.5 lakh | 2021-23 | Nileshwari R. Yewle |
| 7. | Studies on Bio-efficacy, photoxicity of GOD-H010 on wheat and maize and carry over effect on succeeding crops | Godrej agrovet Ltd. | 5.7525 lakh | 2021-23 | Kalipada Pramanik(PI) |
| 8 | Training and distribution of groundnut/rice machinery to farmers of Illambazar block, Birbhum district, West Bengal | ICAR-Indian Institute of Agricultural Biotechnology (ICAR-IIAB) | 24.23 | 2024-27 | |

## Ph.D. guidance

| | |
|---|---|
| Degreed Awarded | 05 (Chiranjit Singha-2019, Sujoy Das-2020, Sanjay Kumar Swain-2021, Nileshwari Raju Yewle -2023), Abhinab Mishra-2025) |
| Submitted | 01 ( Abhinab Mishra) |
| Guiding | 02 |

**Conference/Training Program Organized**

| Sl no | Details | Responsibility | schedule |
|---|---|---|---|
| 1 | Farmers' Training Programme on Paddy and Groundnut Machinery" | Training Coordinator | 16-20 December 2024 |
| 2 | 2nd Oneweek Workshop on "Geoinformatics in Agriculture and Environment" | Workshop Coordinator | 11-15 March 2024 |
| 3 | Webinar on Basics of Geoinformatics in Agriculture | Secretary | 18 June 2023 |
| 4 | Three Day online training programme on "Disaster Risk Reduction and Management in Agriculture and Food Safety" | Joint Coordinators | 28-30 March 2022 |
| 5 | National Webinar on Modern Agricultural Technology: A step toward Rural Self Reliance. | Organizing Secretary | 12-14 June 2020 |
| 6 | 5-Day (one week) Workshop on "Geoinformatics in Agriculture and Environment" | Workshop Coordinator | 24-29 March 2019 |
| 7 | International Seminar on *"Livelihood Promotion, Bio-diversity Conservation and Social Security in Indian Sundarbans*" | Assistant Org. Secretary | 7-9 December 2018 |
| 8 | National Seminar cum Panel Discussion on Doubling Farmers Income: Role of Agricultural Mechanization | Organizing Secretary | 29th January, 2018 |
| 9 | Oneday Farmers Training program on Agricultural Machinery and Hands-on Applications | Training Coordinator | 21 March, 2017 |
| 10 | 1st International conference on Bioresources, Environment and Agricultural Sciences | Joint Organizing Secretary | 4-6 February, 2017 |
| 11 | National Symposium on Recent Trends in Agricultural and Allied Sciences for Better Tomorrow (NSRTAS, 2016) | Organizing Secretary | 04 December, 2016 |

**Award/recognition**

- **Young scientist Award-2024 (Engineering & Technology)** at 1st International Conference on Innovation to Achieve Climate Resilient Smart Agriculture for Ensuring Global Food & Nutrition Security (IACRSAEGNS-2024) jointly organized by ICAR-Indian Institute of Sugar Research, Lucknow, Agriculture Entrepreneur Environment & Technology Development Society, Lucknow & Uttar Pradesh Council of Agricultural Research, Lucknow, U.P. on November 18-19, 2024.
- **Best paper award** on "Advancing Near Real-Time Crop Monitoring: High-Resolution Planetscope Imagery and ML for Rice Yield and Biomass Prediction in National Seminar cum Farmers' Training Programme on "Role of Traditional Indian Knowledge System (IKS) for Sustainable Mechanization in Rice and Groundnut Crop" at Institute of Agriculture, Visva-Bharati, Sriniketan during 20-23 February 2025.
- **Best paper award** on "Rice crop growth monitoring with Microwave remote sensing data through machine learning models using GEE cloud computing platform" by National

Seminar On Sustainable Agriculture, Rural Development and Future Food Security in India: An Interdisciplinary Approach, organized at Visva-Bharati during 1-2 March 2024.

- **Outstanding paper award** on Application of Vis-NIR Reflectance Spectroscopy and Remote Sensing Technique for soil nutrient suitability in Tarakeswar Region, West Bengal, India in 6th Regional Science and Technology Congress 2023-24 at Durgapur Government College, Durgapur, West Bengal during 9-10 January 2024.
- **Best poster award** for the paper with title "Rice and Potato Yield prediction using geostatistical and hotspot analysis through GEE cloud in Tarakeswar region, West Bengal, India" in International Conference on Vegetable research and Innovation for nutrition Entrepreneurship and Environment (ICVEG-21) at ICAR-IIVR, Varanasi, UP during 14-16 December 2021.
- **Best paper award** for the paper "Spatial analysis of forest health dynamics through google earth engine cloud in Similpal Tiger Reserve Odisha, India" in 3rd International Conference on Sustainable and Innovative solution for current challenges in Engineering & Technology, organized by Madhav Institute of Technology & Science, Gwalior, India during 13-14 November, 2021.
- **Best Research Award-2020** by VDGOOD Professional Association in the 9th International Scientist Awards on Engineering, Science and Medicine at Trichi, India during 12-13 September, 2020.
- **ACPA 2019: Award of Honour** for delivering Keynote lecturer in **8th Asian-Australasian Conference on Precision Agriculture**, at PAU, Ludhiana, India, during 14-17, October 2019"
- **JAE Best Reviewer Award-2018**, by the Indian Society of Agricultural Engineers, New Delhi for the subject Farm Machinery & Power, at 53rd ISAE Annual Convention and International Symposium on Engineering Technologies for Precision and Climate Smart Agriculture, 28-30 January, 2019, BHU, UP, India.

***Ph.D. scholar awards***

- Ms. Nileshwari R. Yewle, has been awarded **SERB Overseas Doctoral Fellowship** for Purdue University, USA. Under the fellowship, Ms. Yewle and her supervisor Dr. Kishore C. Swain will carry out research work in USA for a period of 1 year and 1month, respectively in USA.
- Mr. Sanjay Kumar Swain has also received **Asia Pacific Leadership Program (APLP) Fellowship** with East West Centre, Hawaii, USA. He spent six months under the fellowship program in different institution of USA.

**Publications**

***Book Publication***

- Swain, K.C. and Jayasuriya, H. (2022). Low Altitude Remote Sensing System in Agriculture, Sarala Publication House, Cuttack, 138 pages. ISBN-978-81-959737-0-5.
- Swain, K.C., Bhattacharya, D., Saren, B.K. and Mandal, S. (2021). **Modern Agricultural Technology: A Step Towards Rural Self-Reliance**, Agrobios Publication, 182 pages. ISBN-978-81-949237-70-1
- Swain, K.C. (2020). **A Text Book on Precision Agriculture Technology**, New Delhi Publishers, 152 pages. ISBN-978-93-88879-57-6
- Swain, K.C., Chatterjee, A.K., Patra, P.K. and Kandasamy, P. (2020). Proceedings on **Application of Space and Modern Technology in Agriculture** and Environment, Mukund Publication, Delhi, 378 Pages. ISBN-978-93-84335-35-9.

- Swain, K.C., Chatterjee, A.K. and Kandasamy, P. (2018). Advance Technologies in Agriculture for **Doubling Farmers' Income**, New Delhi Publishers, ISBN-978-93-86453-61-7.
- Swain, K.C., Mahata, A. and Singha, C. (2017). Nutrition Status of Lactating Mothers, Lambert Academic Publishing, Germany, ISBN- 978-3-330-08694-4
- Swain, K.C. (2013). **Precision Agriculture Technology** Application: Landuse suitability application using GIS, LAP Lambert Academic Publishing, Germany, ISBN: 978-3-659-47275-6.

**Patent Published**

- Rajesh, E., Mohite, S.H.,Sharma, G., Agarwal, K., **Swain, K.C.,** Sahu, S.R., Menon, S.,Pandey, S.R. Monitoring Key Performance Indicators of Supply Chain Retail Using Artificial Intelligence. Publication No. 202241048863 on 28 October 2022.

**International/national Publications**

***With impact factors***

1. Singha, C., Swain, K.C. Sahoo, S., A M. Fadhil Al-Quraishi (2025). Predicting forest above-ground biomass using SAR imagery and GEDI data through machine learning in GEE cloud. Forest Science and Technology, 21580103: 1-20. https://doi.org/10.1080/21580103.2025.2481122 ISSN:2158-0715 (Impact Factor:1.8)
2. Swain, K.C., Singha, C. and Pradhan, B. (2024). Estimating Total Rice Biomass and Crop Yield at Field Scale Using PlanetScope Imagery Through Hybrid Machine Learning Models. Earth Systems and Environment, 8(4):1713-1731. https://doi.org/10.1007/s41748-024-00481-2. ISSN 2509-9426 **(Impact Factor: 5.3)**
3. Singha, C., Swain, K.C., Pradhan, B. and Alamri, A. (2024). Integration of FuzzyAHP and machine learning algorithms for climate-driven gully erosion susceptibility mapping: predicting future trends in the eastern lateritic region, West Bengal. Geosciences Journal, 28:981-1011. ISSN: 1598-7477 **(Impact Factor: 1.0)**
4. Singha, C., Swain, K.C., Moghimi, A. and Foroughnia, F. and Swain, S.K. (2024).Integrating geospatial, remote sensing, and machine learning for climate-induced forest fire susceptibility mapping in Similipal Tiger Reserve, India. Forest Ecology and Management 555, 121729. ISSN: 0378-1127 **(Impact Factor: 3.7)**
5. Singha, C., Sahoo, S., Tinh, N.D., Ditthakit, P., Lu, Q.O., El-Magd, S.A. and Swain, K.C. (2024). Climate-resilient strategies for sustainable groundwater management in Mahanadi River basin of Eastern India, Acta Geophysica, 1-36. 10.1007/s11600-024-01466-5 ISSN: 1895-6572 **(Impact Factor: 2.0)**
6. Singha, C., Swain, K.C., Pradhan, B, Rusia, D.K. and Moghimi, A (2024). Mapping groundwater potential zone in the Subarnarekha basin, India, using a novel hybrid multi-criteria approach in Google earth Engine, Hylion Journal, 10(5):e24308. 10.1016/j.heliyon.2024.e24308. ISSN 2405-8440 (**Impact Factor: 4.4)**
7. Singha, C., Swain,K.C., and Sahoo, S. (2023). Prediction of Soil Nutrients through PLSR and SVMR Models by VIs-NIR Reflectance Spectroscopy. Egyptian Journal of Remote Sensing and Space Sciences,26:901-918. ISSN 1110-9823 (**Impact Factor: 6.4**)
8. Singha,C., Swain,K.C., Sahoo, S., Abdo, H.G.; Almohamad, H.; Al-Dughairi, A.A. (2023). Total land suitability analysis for rice and potato crops through FuzzyAHP technique in West Bengal, India. Cogent Food & Agriculture, 9(2257975):1-30

https://doi.org/10.1080/23311932.2023.2257975**,** ISSN: 2331-1932 **(Impact Factor: 2.0)**

9. Singha,C. and Swain,K.C. (2023). Rice crop growth monitoring with Sentinel 1 SAR data using machine learning models in Google earth Engine cloud, Remote Sensing Application: Society and Environment,32:101029. ISSN- 2352-9385**(Impact Factor: 4.7)**
10. Singha, C., Gulzar, S., **Swain, K.C**. and Pradhan, D. (2023). Apple Yield Prediction Mapping Using Novel Machine Learning Techniques through the GEE Cloud in Kashmir Valley, India, Journal of Applied Remote Sensing, 17 (1): 014505 ISSN 1931-3195 **(Impact Factor: 1.5)** https://doi.org/10.1117/1.JRS.17.014505
11. Singha, C., Swain, K.C.; Meliho, M.; Abdo, H.G.; Almohamad, H.; Al-Mutiry, M. (2022). Spatial Analysis of Flood Hazard Zoning Map Using Novel Hybrid Machine Learning Technique in Assam, India, Remote Sensing, 14:6229. https://doi.org/10.3390/ (**Impact Factor: 5.3)** ISSN 2072-4292
12. Singha, C., Swain, K.C. and Jayasuriya, HPW (2022). Growth and yield monitoring of potato crop using Sentinel-1 data through cloud computing, Arabian Journal of Geo-Science, 15(19):1-16 (**Impact Factor: 1.8**) ISSN 1866-7511
13. Yewle, N., Swain, K.C., Mann, S. and Guru, P.N. (2022). Performance of hermetic bags in green gram [*Vigna radiata* (L.) R. Wilczek] storage for managing pulse beetle (*Callosobruchus chinensis*). Journal of Stored Product Research, 95:101896 (**Impact Factor: 2.8)** ISSN 0022-474X
14. Yewle, N.R., Swain,K.C., Mann, S. and Dhakre, D.S.(2021). Evaluating of hermetic bags for long-term storage of turmeric (Curcuma longa L.) rhizomes, Journal of Stored Products Research, 92:10186. Elsevier. **(Impact Factor: 2.8)** ISSN 0022-474X.
15. Swain, K.C., Singha, C. and Nayak, L. (2020). Flood Susceptibility Mapping through GIS-AHP Technique using the Cloud. ISPRS- International Journal of Geo-science, 9(720):1-23. (**Impact Factor: 3.4)** ISSN 2220-9964. 10.3390/agriculture10060213
16. Singha,,C. Swain, K.C., and Swain, S.K. (2020). Best Crop Rotation Selection with GIS-AHP Technique Using Soil Nutrient Variability, Agriculture-Basel, 10(213):1-18. **(Impact Factor: 3.6)** ISSN 2077-0472
17. Swain, S.K., Swain, K.C., and Singha, C. (2020). Forest cover change mapping using harmonic-land trendr models in google earth engine. Sylwan Journal,164(8): 472-487. (**Impact Factor: 0.6**) ISSN 0039-7660
18. Swain, K.C. and Singha, C. (2020). Low-cost Technology for COVID-19 Infection Detection through Smell Loss Test: An Overview. Tropical Biomedicine, 37(3): 671–682 (**Impact Factor: 0.8**) ISSN 0127-5720
19. Nath, A., Swain, K.C. and K. Khan (2015). Development of ready-to-eat puffed carrot (Daucuscarota) cubes using HTST whirling bed, International Agricultural Engineering Journal, 24(1):1-9. ISSN 0858-2114 (**Impact Factor: 1.3**)
20. Aggelopoulou, A.D., Bochtis, D., Fountas, S., Swain, K.C., Gemtos, T.A. and Nanos G.D. (2011). Yield prediction in apple orchards based on image processing, Journal of Precision Agriculture, 12(3): 448-456. (**Impact Factor: 6.2**) ISSN 1573-1618
21. Swain, K.C., Norremark, M.; Jorgensen, R. N., Midtiby, H.S. and Green, O. (2011). Weed identification using an automated active shape matching (AASM) technique, Biosystems Engineering, 110: 450-457. (**Impact Factor: 5.1**) (ISSN 1537-5110)
22. Bochtis, D.D. Ibrahim, I. and Swain, K.C. (2011). Robotic weed monitoring, Acta Agriculturae Scandinvica, Section B- Soil & Plant Science, 61(3): 202-207. (**Impact Factor: 1.9**), ISSN 0906-4710

23. Swain, K.C., Zaman, Q.Z., Schumann, A. and D.D. Bochtis (2010). Computer vision system for wild blueberry fruit yield mapping, Biosystems Engineering, 106: 389-394. (**Impact Factor: 5.1**) (ISSN1537-5110) 10.1016/j.biosystemseng.2010.05.001
24. Zaman, Q.U., Swain, K.C., Schumann, A.W. and D.C. Percival, (2010). Automated, low-cost yield mapping of wild blueberry fruit, Applied Engineering in Agriculture, 26(2): 225-232. (**Impact Factor:0.9**) ISSN 0883-8542
25. Swain, K.C., Thomoson S.J., and Jayasuriya, H.P.W. (2010). Adoption of an unmanned helicopter for low-altitude remote sensing to estimate yield and total biomass of a rice crop, Transaction of ASABE, 53(1):22-29. (**Impact Factor: 1.5**) ISSN 2151-0040 10.13031/2013.29493
26. Swain, K.C., Jayasuriya, H.P.W. and Salokhe V.M. (2007). Suitability of LARS images for estimating nitrogen treatment variations in rice cropping for precision agriculture adoption, Journal of Applied Remote Sensing, 1(1):013547, SPIE Publications. (**Impact Factor: 1.5**). ISSN 1931-3195 10.1117/1.2824287
27. Swain, K.C., Jayasuriya, H.P.W. and V.M. Salokhe (2007). Low-altitude remote sensing (LARS): A potential substitution to satellite based remotes sensing for precision agriculture adoption in fragmented and diversified farming conditions, Agricultural Engineering International: the CIGR Ejournal, Invited Overview, 9(12): 1-10. (**Impact factor: 0.4**), ISSN 1682-1130

***Peer-revied publications***

1. Mishra, A. and Swain, K.C.**(2024)** Modern spraying techniques for grape vineyards: A review. African Journal of Biological Sciences, 6 (10): 524-540. ISSN: 2663-2187.
2. Swain, K.C. (2023). Farm robots: A new reality for Indian agriculture, Agricultural Engineering Today, 48(4):67-69. ISSN 0970-2962.
3. Singha, C. and Swain, K.C. (2022). Spatial analyses of cyclone Amphan induced flood inundation mapping using sentinel-1A SAR images through GEE cloud. Algorithms for Intelligent Systems, 65-82, ISSN: 2524-7573, **Springer publication**
4. Swain, K.C., Singha, C. and Yewle, N. (2022). The threat of Black Fungus invasion during Post COVID-19 recovery, Philosophical Readings 13(4): 136-144. **(Scopus ID: 21100451643)** ISSN 2036-4989
5. Swain, K.C., Mishra, A. and Biswal R. (2021). Disinfectants and Sprayers for Prevention of COVID-19 Pandemic in India, European Journal of Molecular & Clinical Medicine 8 (3): 899-912. Scopus listed: ISSN 2515-8260 **(COVID WHO ID:1158730)**
6. Singha, C. and Swain, K.C. (2020). Soil Nutrient Based Land Suitability Analysis for Lentil Crop in Tarakeswar, Hooghly, West Bengal. Agricultural Science Digest, 40(4):343-349. (***NAAS: 4.21***) ISSN 0253-150X
7. Sahoo B.B. and Swain, K.C. (2020). Micro, Small and Medium Enterprises (MSMEs) in India: The Engine of Growth. International Journal of Social Sciences, 9(1): 01-13. (*NAAS: 3.02*) ISSN 2324-8033
8. Swain, S.K. and Swain, K.C. (2019). Identification and assessment of Forest Fire in Similipal Tiger Reserve (STR) with GIS. Indian Forester, 145(12):1131-1138. (***NAAS: 5.38***) ISSN 00194816
9. Mann, S., Yeole, N.R., Swain, K.C. and Mittal, S. (2019). Hermetic Technology: A new beginning for grains storage and farmers benefit. Indian Farming 69(12): 34-36.
10. Yeole, N.R., Swain, K.C., Mann, S., Chandrasekar, V. and Kalnar, Y. (2019). Effect of polishing on chemical and engineering properties of yellow and black turmeric. Annals of Phytomedicine 8(2): 85-92. (***NAAS: 5.81***) ISSN:2304-7712

11. Singha, C., Swain, K.C., Saren, B.K. (2019). Land Suitability Assessment for Potato Crop using Analytic Hierarchy Process Technique and Geographic Information System. Journal of Agricultural Engineering 56(3):77-88. (***NAAS:5.59***) ISSN 0976-2418
12. Singha, C., Swain, K.C., Sahoo, B.B., Ghosh, P. and S.K. Swain (2019). Assessment of bio diversity conservation using geospatial models Journal of Pharmacognosy and Phytochemistry, 8(1): 1577-1586. (***NAAS: 5.21***) ISSN 2349-8234
13. Swain, K.C., Singha, C. and Yeole, N.R. (2018). Forecasting of Indian Monsoon Pattern with Empirical and Dynamic Models. Journal of Agroecology and Natural Resource Management, 5(1): 25-29. ISSN 2394-0786
14. Swain, K.C. and Singha, C. (2018). Soil Profile Based Land Suitability Study for Jute and Lentil Using AHP Ranking. International Journal on Bio-resource and Stress Management, 9(3): 323-329. (***NAAS:5.43***) ISSN 0976-3988
15. Swain, K.C. and Singha, C. (2018). Mapping of Agriculture Farms using GPS and GIS Technique for Precision Farming, International Journal of Agricultural Engineering 11(2): 269-275. ISSN–0974–2662, DOI: 10.15740/HAS/IJAE/11.2/269-275. (***NAAS:4.43***)
16. Yeole, N.R. and Swain, K.C. (2018). Hermetic storage technology for smallholder farmers in India. Aayushi International Interdisciplinary Research Journal 25: 91-95. ISSN **2349-638X**
17. Rusia, D.K., Swain, K.C. and Singha, C. (2018). Integrated geospatial technique for potential groundwater zone (PGZ) identification. Journal of Agroecology and Natural Resource Management 5(3): 142-150. ISSN 2394-0794
18. Mahata, A., Swain, K.C. and Singha, C. (2018). A Community Based Study on the Prevalence of Klebsiella Pneumoniae Causing UTI (Urinary Tract Infection). International Journal of Basic and Applied Biology 5(2): 84-90.
19. Swain, K.C., Swain, S.K. and Singha, C. (2017). Status mapping of landuse/land cover change of forest resources. Journal of Energy Research and Environmental Technology 3(2): 234-239. ISSN 2517-5629.
20. Swain, K.C., Singha, C. and Duary, B. (2016). Application of Nano-materials and Nano-Technology in Agriculture. Journal of Agroecology and Natural Resource Management, 3(3): 284-287. ISSN2394-0786
21. Swain, K.C., Singha, C. and Rusia, D.K. (2016). SWAT simulation model for climate change impact on runoff. International Journal of Bio-resources, Environment and Agricultural Sciences 2(2): 322-332. ISSN 2454 3551
22. Singha, C. and Swain, K.C. (2016). Land suitability evaluation criteria for agricultural crop selection: A review, Agricultural Reviews, 37(2):125-132. (***NAAS: 4.37***) ISSN 0976-0741
23. Swain, K.C., Moitra, R. and Q.U. Zaman (2015). Weed identification using ultrasonic Sensor in Labview, International Journal on Bio-resource and Stress Management, 6(1):151-154. (***NAAS:5.21***) ISSN 0976-3988
24. Jayasuriya, H.P.W., Swain, K.C. and Hameed, I. (2015). Precision agriculture technology application: An introduction. International Journal of Bio-resources, Environment and Agricultural Sciences, 1(1): 98-100. ISSN 2454-3551
25. Swain, K.C. (2014). Biofuel Production in India: Potential, Prospectus and Technology. Journal of Fundamentals of Renewable Energy and Applications 04(01). ISSN 2090-4533
26. Swain, K.C. and H.P.W. Jayasuriya (2008). Low altitude remote sensing applications for diversified farming conditions in developing countries: An overview, Asia-Pacific Journal of Rural Development, 18(2): 81-98. ISSN 1018-5291

27. Swain, K.C. and H.P.W. Jayasuriya (2007). Land-use suitability evaluation criteria for precision agriculture adoption in developing countries: A case study of moderately yielding soybean cropping area in Thailand, Asia-Pacific Journal of Rural Development, 17(1): 113-125. ISSN 1018-5291

***Book Chapter in Edited books***

1. Singha, C. and Swain, K.C. (2023). Vegetation Indices-Based Rice and Potato Yield Estimation Through Sentinel 2B Satellite Imagery in J. Das and S. Halder (eds.), Advancement of GI-Science and Sustainable Agriculture, GIScience and Geo-environmental Modelling, pp.113-134. **Springer publications** ISBN: 978-3-031-36825-7.
2. Singha, C. and Swain, K.C. (2022). Using Earth Observations and GLDAS Model to Monitor Water Budgets for River Basin Management, In Rao, C.M., Patra, K.C., Jhajharia, D. and Kumari S. (ed). Advanced Modelling and Innovations in Water Resources Engineering, pp.493-515. ISBN 978-981-16-4629-4 **Springer Publications**
3. Singha, C. and Swain, K.C. (2022). Rice and Potato Yield Prediction Using Artificial Intelligence Techniques, In Pattnaik, P.K., Kumar, R. and Pal, S.(eds). Internet of Things and Analytics for Agriculture, Volume 3, 185-199. ISBN 978-981-16-6210-2 **Springer Publications**
4. Singha, C. and Swain, K.C. (2022). Assessing The Spatial Variability of Soil Nutrients Prediction Using GIS-based Interpolation Techniques. In, proceeding of **2022 IEEE World Conference on Applied Intelligence and Computing** 757-763. ISBN: 978-1-6654-7988-2
5. Singha, C. and Swain, K.C. (2022). Quantifying Changes in Sundarbans Mangrove Forest Through GEE Cloud Computing Approach. In M. S. Uddin et al. (eds.), Proceedings of International Joint Conference on Advances in Computational Intelligence, Algorithms for Intelligent Systems 113-129, ISBN: 978-981-19-0332-8. **Springer publications**
6. Swain, K.C., Singha, C. and Swain, S.K. (2022). Spatial analysis of forest health dynamics through google earth engine cloud in Similipal Tiger Reserve, Odisha, India, M. Pandit et al. (eds.), Artificial Intelligence and Sustainable Computing, Algorithms for Intelligent Systems, 719-738 https://doi.org/10.1007/ISBN-978-981-19-1653-3. Springer
7. Swain, K.C. (2021). Lesson Learnt for Recovering Rural Agriculture During Pandemic, in Swain, K.C., Bhattacharya, D., Saren, B.K. and Mandal, S. (2021). Modern Agricultural Technology: A Step Towards Rural Self-Reliance, Agrobios Publication, 182 pages. ISBN-978-81-949237-70-1
8. Swain, K.C. (2020). Soil reflectance estimation for soil properties analysis, In book edited by Swain, K.C., Chatterjee, A.K., Patra, P.K. and Kandasamy, P. Proceedings on Application of Space and Modern Technology in Agriculture and Environment, pp.286-306 Mukund Publication, Delhi. ISBN: 978-93-84335-35-9.
9. Singha, C. and Swain, K.C (2019). Status and Scope of Organic Agriculture in India. In book Resilience Building and Sustainable Development: Indian Perspective, pp. 21-46. New Delhi Publishers. ISBN 978-93-88879-11-8.
10. Panda, D., Swain, K.C, Mondal, S. and Mondal, B. (2018). Artificial intelligence in modern agriculture. In the Book, Edited by Swain, K.C., Kandasamy, P. and Chaterjee, A.K., Advanced Technology in Agriculture for Doubling Farmers' Income, New Delhi Publishers.ISBN-978-93-86453-61-7

11. Swain, K.C. and Singha,C. (2018). Language dispersal in ancient agricultural systems. The Marginalised Publication ISBN: 978-93-87441-31-6.
12. Swain, K.C. (2017) Application of Nano materials in food processing: A review. In Dutta, A.K. and Mondal B. (eds), Fruits for Livelihood Production Technology and Management Practices, Published by Agrobios (India), Jodhpur, India, pp: 591-599. ISBN 978-81-933644-5-1.
13. Swain, K.C. (2017). Climate change threat to sustainable agriculture. Human development and sustainability: Challenges and Strategies, Atlantic Publisher, ISBN:978-8-126-92307-6
14. Swain, K.C. and C. Singha (2016). Child labour in agriculture: Trends and regulations. New Delhi Publishers ISBN: 978-93-85503-58-0 pp. 217-225.
15. Singha, C. and K.C. Swain (2016). Potential of PPP Model for Poverty Alleviation: An Indian Perspective, New Delhi Publishers ISBN: 978-93-85503-58-0, pp.55-67.
16. Teja, K.C., Duary, B., Swain, K.C. and S. Das (2016). Conservation agriculture: An approach to achieve livelihood security of small and marginal farmers in West Bengal, Family Planning: Challenges and Opportunities, Renu Publishers, New Delhi, ISBN: 978-93-85502-22-4
17. Swain, K.C. and Singha, C. (2016). Climate change impact study: Open top Chamber Agriculture. In Family Planning: Challenges and Opportunities, Renu Publishers, New Delhi, ISBN: 978-93-85502-22-4.
18. Swain, K.C. and Moitra, R. (2014) Assessment of climate change impact on rice crop, Book chapter in Environmental Sustainability: Concepts, Principles, Evidences and Innovations, Excellent Publishing House, New Delhi. ISBN-978-93-83083-75-6.
19. Swain,K.C. and Zaman, Q.U.(2012). Rice Crop Monitoring with Unmanned Helicopter Remote Sensing Images. InTech publishers. ISBN-978-953-51-0313-4.
20. Zaman, Q.U., Schumann, A.W., Swain, K.C., Percival, D.C., Arshad, M. and T.J. Esau, (2009). Evaluation of cost-effective real-time slope sensing system for wild blueberry, Precision Agriculture' 09, Wageningen Academic Publishers, pp. 257-264. ISBN 978-90-8686-113-2.

***Invited/Keynote Lectures***

- Delivered keynote address on "Smart Agriculture: Current Status and Future Trend in India" in 9th Asian-Australasian Conference on Precision Agriculture (ACPA) held at Udayan University, Indonesia during 29-31 October 2021.
- Presented lead paper on "Machineries and Technique of ICT for Rainfed Agriculture" in National Seminar on "Rainfed Agriculture: Strategies for Sustainable Economy" held at Gunupur, Odisha during 15-16 February 2020.
- Delivered keynote address on Importance of Precision agriculture for developing country, in Asia-Australian conference on Precision Agriculture (ACPA) 2019 at Ludhiana, Punjab, India held 15-17 October 2019.
- Delivered lecture on "Machineries for Precision Agriculture" in the Agriculture Machinery Operator training programme under Skill India Programme of Agriculture Skill Council of India (ASCI) at ICAR, Central Research Institute for Jute and Allied Fibres (CRIJAFT, ICAR) on 15.02.2019.
- Given invited lecturer on Application of GIS and Remote Sensing for Rural Agriculture" at Bankers Institute of Rural Development (BIRD), Kolkata during 28-30 January 2019.

***Periodical Publication/ Practical Manual***

- Swain, K.C., Kandasamy, P. and Bhattacharyya, D. (2022). Practical manual for Green Technology and Renewable Energy Sources.
- Swain, K.C., Kandasamy, P. Chatterjee, A.K. (2019). Practical manual for Farm Machinery and Power.
- Ray, S., Malairarisoon, S., Li, L., Bermando, M.A., Canullas, R.D., Lacoul, M. and Swain, K.C., (2007). RAS0024 NSDS: National Sustainable Development Strategy and Action Plan, Progress Report January-August 2007, UNEP, Bangkok, Thailand.

***Selected Conference Papers***

- Swain, K.C. (2024). Traditional Indian Knowledge System for Sustainable Agricultural Mechanization: A Review, in Two Day National Seminar on Sustainable Development and Social Work: Exploring the Road Ahead, Organized by Department of Social Work, PSV, Visva-Bharati, Sriniketan during 25-26 March 2025.
- Swain, K.C. (2024). Land suitability analysis for rice and potato crops through Machine learning technique in West Bengal, India in 1st International Conference on Innovation to Achieve Climate Resilient Smart Agriculture for Ensuring Global Food & Nutrition Security (IACRSAEGNS-2024) jointly organized by ICAR-Indian Institute of Sugar Research, Lucknow, Agriculture Entrepreneur Environment & Technology Development Society, Lucknow & Uttar Pradesh Council of Agricultural Research, Lucknow, U.P. on November 18-19, 2024.
- Swain, K.C. (2024). Utilization of Sentinel 1 SAR data for Rice crop growth monitoring through machine learning models, in National Seminar On Sustainable Agriculture, Rural Development and Future Food Security in India: An Interdisciplinary Approach, organized by Department of Agricultural Economics at Institute of Agriculture, Visva-Bharati, during 1-2 March 2024.
- Swain, K.C. (2024). Rice crop growth monitoring with Microwave remote sensing data through machine learning models using GEE cloud computing platform, in 11th Annual Convention and National Webinar, Organized by Society for Fertilizers and Environment, during 23-24 February 2024.
- Swain, K.C. has presented paper in International Conference on Biotic and Abiotic Stress of Crop Plants and their Sustainable Management organised at Visa-Bharati during 02-03 February 2023.
- Swain, K.C. has Presented Paper in National Conference on "Natural fibre for sustainable societal development" at ICAR-NINFET, Kolkata during January 03-04, 2023
- Swain, K.C. and Singha, C. (2019). Sustainable Agricultural Waste Management: A Review, in 1st International Conference On Bio-Resource, Environment and Agricultural Sciences (ICBEAS), February 4-6, 2019, Visva-Bharati, West Bengal, India.
- Swain, K.C. and Singha, C. (2019). Exploring the scope of Agri-tourism in Sriniketan and Surroundings in International Conference on Road Map for the Development of Eco-Tourism in and Around Santiniketan & Birbhum, at Lipika, Visva-Bharati, during 16-18 November 2019.
- Assessment of bio-diversity conservation using geospatial models in International Conference on Natural Resources,Environment and Development at Economics and Politics,Visva-Bharati, West Bengal during 19-20 January 2019.
- Swain, K.C. (2018). Exploring topography and cropping pattern of Birbhum District using GIS Mapping in International Conference on Development of Cultural Toursim in and Around Santiniketan & Birbhum, at Lipika,Visva-Bharati, during 16-18 November, 2018

- Swain, K.C. (2018). Language dispersal in ancient agricultural systems, in the National Seminar on Debating Aspirational Indian Language: DIAL-2018 at Visva-Bharati, Santiniketan, 9-11 September 2018.
- Swain, K.C.(2018). Status and scope of greenhouse farming in India, In National Seminar on Dr. B.R. Ambedkar and Social Engineering, Lipika, Visva-Bharati, Santiniketan during 13-14 April 2018.
- Swain, K.C. and Singha, C. (2018). Forecasting of Indian monsoon pattern with Emperical and Dynamic models in International conference on Agriculture and allied Science: The productivity Food Security and Ecology, at Krishi Sanskriti, New Delhi 13-14 August 2018.
- Swain, K.C. (2018). Scope of Agro Tourism in Santiniketan agricultural farms, International Interdisciplinary Conference on Road Map for the Development of Eco-Tourism in and Around Santiniketan & Birbhum, at Lipika, Visva-Bharati, during 23-25 March 2018.
- Swain,K.C. (2018). Efficient renewable energy production using nano technology, in International Conference on Livelihood Promotion, Bio-diversity Conservation and Social Security in Indian Sunderbans at Jharkhali, Basanti, West Bengal 7-9 December, 2018.
- Swain, K.C. (2018). Integrated Geospatial technique for potential groundwater zone identification, in International Conference on Recent Trends in Agriculture, Food Science, Foresty, Horticulture, Aquaculture, Animal Sciences, Biodiversity,Ecological Sciences and Climate Change (AFHABEC 2018) at JNU, New Delhi, 9 September 2018.
- Swain, K.C. (2018). Hermetic storage technology for Small holder farmers in India, International Conference on Recent Trends in Science and Technology at Arts and Science College, Murtizapur during 22-23 March 2018.
- Swain, K.C. and Singha, C. (2018). Soil reflectance estimation for soil properties analysis, in National Seminar on Mixed Farming Seminar at Visva-Bharati, 24-25 March 2018.
- Swain, K.C. and Swain, S.K. (2017). Status mapping of landuse/land cover change of forest resources, in International Conference on Recent Trends in Agriculture, Food Science, Foresty, Horticulture, Aquaculture, Animal Sciences, Biodiversity,Ecological Sciences and Climate Change (AFHABEC 2017) at JNU, New Delhi on 16$^{th}$ September 2017.
- Swain, K.C. Duary, B. and Singha C. (2017). Automated Weed Identification Using Machine Vision Techniques, in 1$^{st}$ International Conference On Bio-Resource, Environment And Agricultural Sciences (ICBEAS),February 4-6, 2017, Visva-Bharati, West Bengal, India.
- Swain, K.C. and Singha C. (2016). Application of nanotechnology in agriculture and renewable energy sources, presented in National Seminar on Rural Impoverishment and agrarian Strategies, held at Department of Rural Studies, Visva-Bharati, during 30-31 March, 2016.
- Singha, C. and Swain, K.C. (2016). Greenhouse Gas Emission in Agriculture: Status and Mitigation, presented in National Seminar on Rural Impoverishment and agrarian Strategies, held at Department of Rural Studies, Visva-Bharati, during 30-31 March, 2016.
- Swain, K.C.(2016) Child labour in Agriculture: Trends and Regulations, Relevance of Dr. B.R. Ambedkar of Inclusive development in India at Visva-Bharati on 14$^{th}$ April 2016.
- Swain, K.C. (2016). Agricultural landuse suitability map analysis using AHP technique in GIS Environment in 36$^{th}$ INCA International Congress on Cartography for analysis and management of climate change, Department of Geography, Visva-Bharati, during 9-11$^{th}$ 2016.

- Swain, K.C. (2016). Nutrition status analysis of lactating mother: A Case study in Bankura, West Bengal in National Seminar on Nutrition and Wellness at Visva-Bharati,Sriniketan during 7-8 November 2016.
- Swain, K.C. (2016). Application of nanomaterials and nanotechnology in agriculture, in International Conference on Agriculture, Food Science, Natural Resource Management and Environment Dynamics: The Technology, People ad Sustainable Development, BCKV, Mohanpur, West Bengal during 13-14 August, 2016.
- Swain, K.C. and Singha, C. (2016). Climate change impact study: Open top Chamber Agriculture, presented in National Seminar on Sustainable Family Farming for Food, Nutritional & Livelihood Security, held at Visva-Bharati, Sriniketan during 5-6 March, 2016.
- Swain, K.C. (2016). Nanotechnology application in food processing, in All India seminar on Post harvest Management of Fruits and Vegetables at Institute of Engineers, Kolkata during 1-2 June 2016.
- Swain, K.C. and Singha, C. (2015). Status of child labour in agriculture: An analytical review, presented in National Seminar on 'Health Care, Woman Empowerment and Rural Development in India" Department of Economics, Visva-Bharati, during 20-21 November, 2015.
- Swain, K.C. and Singha, C. (2015). Soil nutrient based crop suitability analysis technique: A GIS approach, presented in National Seminar on Soil Health: Key to Sustainable Agriculture (SHKSA) organized by Institute of Agriculture, Visva-Bharati, during 14-15 November 2015.
- Swain, K.C. (2015). Impact of Indo-Aryan migration on Indian society: A Historical-Geography overview, presented in UGC sponsored National Seminar on 'Historical Geography of Ancient to Medieval Eastern India, held at Abhedanada Mahavidyalya, Sainthia, during 23-24 September, 2015.
- Swain, K.C. (2015). Climate change threat to sustainable agriculture, International Seminar on Human Development and Sustainability: Challenges and Strategies for the Asian Century, at Social Works, Visva-Bharati held during January 16-18, 2015.
- Swain, K.C, Chakraborty, N.R. and D. Panda (2014). Impact of nano materials on agricultural production system, presented in International Seminar on Integrating Agriculture & Allied Research: Prioritizing Future Potentials for Secure Livelihoods" (ISIAAR) at BCKV, West Bengal, held during November 6-9, 2014.
- Swain, K.C.(2014). Assessment of Climate change impact on rice yield, in the International Congress on Agriculture, Food Engineering and Environmental Science-Sustainable Approaches (AFEESA-2014) held at Jawaharlal Nehru University, New Delhi, during 29-30 March 2014.
- Swain, K.C. (2014). NanoTechnology for agricultural crops: A review, presented paper in National Seminar on Integrated Approaches in Horticulture for Sustainable Development (IAHSD'2014), held at Visva-Bharati, Sriniketan, 29-30 November, 2014.
- Singha, C. and Swain, K.C. (2014). Land suitability evaluation criteria in agriculture: A review, presented paper in National Seminar on Integrated Approaches in Horticulture for Sustainable Development (IAHSD'2014), held at Visva-Bharati, Sriniketan, 29-30 November, 2014.

- Swain,K.C. (2014). Current status and scope of biofuel in India, National Seminar on Agriculture and Bio-security in Changing Scenario, Institute of Agriculture, Visva-Bharati, February 1-3, 2014.
- Swain, K.C. and Mishra, A. (2013). Prospectus of Greenhouse Agriculture, 5th Indian Youth Science Congress held in Visva-Bharati, Birbhum, West Bengal during 6-9 December 2013.
- Swain, K.C.(2013). Rice yield prediction in DSSAT using PRECIS climate model, in National Seminar on Recent Advances in Rice Genomics and Biotechnology held at Institute of Science, Visva-Bharati, Santiniketan during 23&24, 2013.
- Swain, K.C. (2013). Sensor based weed identification in wild blueberry in 1st International Conference on Bioresources and Stress Management in Kolkata during 6-9 February 2013.
- Swain, K.C. (2012). Impact-- of climate change on rice cropping, Golden Jubilee Conference, Visva-Bharati University, West Bengal, India 1-3 September 2012.
- Jayasuriya, H.P.W., Swain, K.C. and Samseemoung, G. (2012). Potential applications of Low-Altitude Remote Sensing (LARS) with radio-controlled helicopter platforms: Case studies on nutrient and pest management under agricultural systems in developing countries, International Conference on Agricultural Engineering, CIGR-AGENG-2012 held at Valencia, Spain, during 8-12 July 2012.
- Gora, A. and Swain, K.C. (2011). Potential and prospects of renewable energy resources in India, 4th International Congress on Environmental Research, at Surat, India, during 15-18 December 2011.
- Swain, K.C., Norremark, M, Green, O. and Bochtis, D.D. (2010). Automated weed identification mechanism using Hortibot Robots, CIGR Conference, Quebec City, Canada, 13-17, June 2010.
- Arshad, M., Zaman, Q., Swain, K., Madani, A., Havard, P. and Schumann, A. (2009). Electromagnetic Induction Methods for Water Management Enhancement, ASABE Paper No. 095580, 2009 ASABE Annual International Meeting, 21-24, June 2009, Reno, USA.
- Swain, K. C., Zaman, Q., Schumann, A. and Percival, D.C. (2009). Detecting weed and bare-spot in wild blueberry using ultrasonic sensor technology, ASABE Paper No. 096879, 2009 ASABE Annual International Meeting, 21-24, June 2009, Reno, USA.
- Bochtis, D.D., Sorensen, C.G., Norremark, M., Swain, K.C. and Hameed, I.A. (2009). Field Monitoring System Using a Small Robot, CIGR section V conference, 1-4 September, 2009, Rosario, Argentina.
- Hameed, I.A., Bochits, D.D., Swain, K.C., Green, O., Sorensen, C.G. and Norremark, M. (2009). Evaluation of field coverage algorithms for agricultural machines, 10th International Agricultural Engineering Conference, Pathumthani, Thailand, 7-10 December 2009.
- Norremark, M., Swain, K.C. and Melander, B. (2009). Advanced Non-Chemical and Close to Plant Weed Control system for Organic Agriculture, 10th International Agricultural Engineering Conference, Pathumthani, Thailand, 7-10 December 2009.
- Swain, K.C, Norremark, M., Bochtis, D., Olsen, H.J., Sorensen, C.G., Green, O. and Hameed , I.A. (2009). Automated Blob Spraying System for Agricultural Robots, 10th International Agricultural Engineering Conference, Pathumthani, Thailand, 7-10 December 2009.
- Sorensen, C.G., Bochtis, D.D., Folinas, D., Green O. and Swain, K.C. (2009). Monitoring machinery performance within the biomass supply chain, 10th International Agricultural Engineering Conference, Pathumthani, Thailand, 7-10 December 2009.

- Swain, K.C., Zaman, Q., Jayasuriya, H.P.W. and Zhang, F. (2008). Estimation of Rice Yield and Protein Content using Remote Sensing Images Acquired by Radio Controlled Unmanned Helicopter Platform, ASABE Meeting Paper No. 080038. Presented in 2008 Annual ASABE meeting, 29th June- 2 July 2008 at Providence, RI, USA.
- Swain, K.C. and Jayasuriya, H.P.W. (2007). IAS mounted LARS system for estimating the nitrogen-effects in rice crop using leaf reflectance values, 2nd Asian Conference on Precision Agriculture held in Pyeongtaek, South Korea, from 2-4 August, 2007.
- Dnyandeo, K.M., Jayasuriya, H.P.W., Swain, K.C. and Nalavade, P.K. (2007). Management zone based irrigation scheduling and soil moisture conservation practice for precision agriculture using GIS, 2nd Asian Conference on Precision Agriculture held in Pyeongtaek, South Korea, from 2-4 August, 2007.
- Swain, K.C. and Jayasuriya, H.P.W. (2006). Benefits of low-altitude remote sensing in mapping of agricultural attributes, MAP ASIA 2006 Conference held at Bangkok, Thailand, from 29th Sept to 1st Oct. 2006.
- Swain, K.C. and Jayasuriya, H.P.W. (2005). A GIS application in precision agriculture for land-use suitability criteria evaluation, First Asian Conference on Precision Agriculture (FACPA), held in Tokyo, Japan from 4-7 August, 2005.
- Swain, K.C. and Jayasuriya, H.P.W. (2004). A Land-use suitability criteria using GIS for evaluating the adoption feasibility of PA technology for soybean cultivation in Thailand, International Agricultural Engineering Conference held in Bangkok, Thailand during 6-9th December, 2004.
- Swain, K.C., Jayasuriya, H.P.W. and Salokhe, V.M. (2003). Precision agriculture for India: Potential, prospects and strategies, in 38th ISAE convention at Dapoli, India on 16th January 2004.

**Additional Contribution/responsibility**

-Act as Expert
-Act as Expert a Test Developer for AICE (JRF/SRF) 2021 for the subject "Agricultural Engineering and Technology"
-Act as Expert for Recruitment of posts of Agricultural Training Centre, Narendrapur, West Bengal during May 2018
-External Board of Study (BOS) Member for the Department of Farm Machinery and Power, Faculty of Agricultural Engineering, Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur, West Bengal during 2016-2025.
-Act as Expert for Thesis evaluation of M.Tech Students in Department of Farm Machinery and Power, Faculty of Agricultural Engineering, Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur in 2018.
-IQAC member, Visva-Bharati since 2022
-NAAC preparation committee member, Visva-Bharati 2022
-NSS programme officer, PSB/PSV unit, Visva-Bharati, Sriniketan since April 2019.
-RAWE Coordinator PSB Visva-Bharati
- Radio talks on plastic pollution

**Special Training**

- Successfully completed 10 dayTraining cum Workshop on "Airborne Hyperspectral Remote Sensing for Agriculture" organized by Centre for Advanced Agricultural Science & Technology (CAAST), National Agricultural Higher Educational Project (NAHEP), New Delhi during 16-25 January 2023.

- Successfully completed 3day international workshop on "Implementation of Machine learning algorithms by Python" by A2Z EduLearning Hub during 21-23 June 2022.
- Successfully completed "Certificate course on Tractors and Implements", organized by ETDC, Bengaluru during 1-31 July 2021.
- Successfully completed one week training programme on "Recent Advances in Space Applications for Forest Monitoring and Assessment" organized by Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP, Affiliated to the United Nations), Dehradun, during 12-16 April, 2021.
- Successfully completed 10 days national workshop on "Research Methodology using Statistical Tools, Techniques and Packages (SPSS & R), at Visva-Bharati during 15-24 February 2019.
- Successfully completed Swayam course on "Development Prospective of Agriculture" offered by BHU, Vananasi, UP on 30.03.2019.
- Successfully completed one week course on "Digital Image Processing", organized by Government of West Bengal at Kolkata during 24-28 September 2018.
- Successfully completed winter school on "Farmers Empowerment and Entrepreneurship Development" organized by University of Agricultural Science, Bengaluru during 24 October to 13 November 2017.
- Successfully completed Basic level Workshop on Manuscriptology and Paleography, organized by National Mission for Manuscript New Delhi at Visva-Bharati, during 4-24 march 2017.
- Successfully completed ICAR sponsored Short course on "Geoinformatics in Natural Resource Management and Climate Change Mitigation", held by ICAR- IISS, Bhopal during 20-29 November 2015.
- Successfully completed "1st Refresher Course in "Nano Science, Nano Technology & Application" at The Burdwan University, Burdwan during 11 June to 01 July 2014.
- Successfully completed the NIT training program with title "Solar Energy Sources and Applications, held at NIT, Silchar, Assam, during 29-31st March 2012.
- Successfully completed the UNEP-AIT Training program with title "Environmental Management Tools" held at AIT, Pathumthani, Thailand, on 27-31st March, 2006.
- Successfully completed the workshop on "Agro-ecological Zoning and GIS Applications in Asia with special emphasis on Land Degradation Assessment in Dry lands" organized by FAO collaboration with Land Development department, Thailand, at Bangkok during 11-14th November 2003.
- Successfully completed the "2002 International Course on "Food Processing Equipment & Side Line Produces" held in Beijing, China on 13-27 April, 2002.
- Successfully completed one month intensive training program on the Farm machinery equipment and tools, held in Hisar, Harayana, India, during 1-30 June, 2000.

**Computer/Programming Skill**

- Sound computer knowledge in software such as: Arc View, ENVI, ERMapper, MS Office, SPSS 15.0, ANN, C/VC++, Auto CAD/CAM, Solid Works, Lab View, Matlab, Dream Weaver 8.0, Dolphi and Debian/Linux OS.
- I have taught master level students for software, such as: AutoCAD, SolidWorks, C/C++, Lab View and Arc view GIS.

**Membership/Organization**

- Member of Institute of Engineers (IE.) since 2018.
- Life member of India Society of Agricultural Engineers (ISAE) since 2018.

- Member of American Society of Agricultural and Biological Engineers (ASABE) association.
- Life membership in Asian Association of Agricultural Engineers (AAAE) since January 2004

**Personal Information**

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| Name | : Dr. Kishore Chandra Swain |
| Date of Birth | : 12th October 1980 |
| Martial Status | : Married |
| Nationality | : Indian |
| Language Skill | : English, Oriya, Hindi |
| Permanent Address | : At: Tigiria; Po: Pakhad; Via: Garadpur<br>Dist: Kendrapara, Odisha, India-754153 |