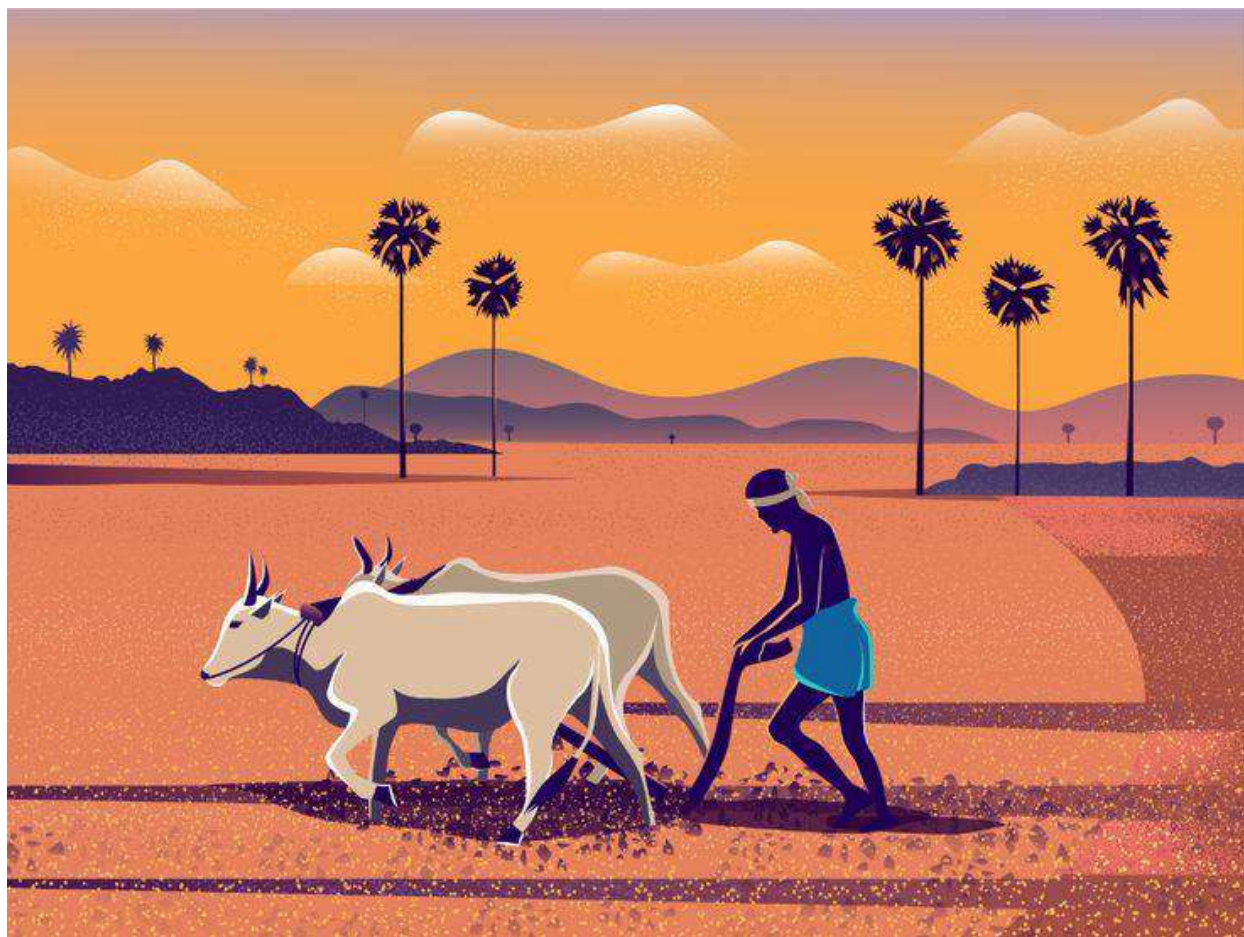


ANNUAL REPORT 2022-2023



Faculty of Agriculture

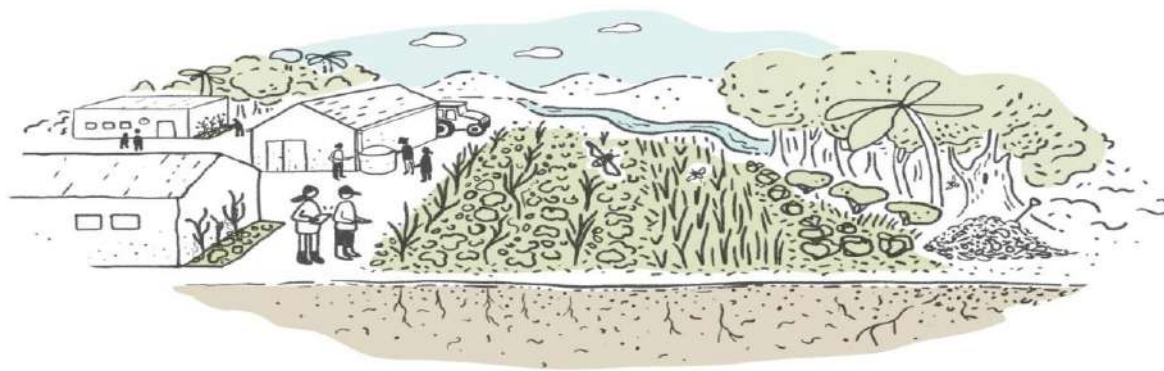
Sri Sri University | Sri Sri Vihar | Ward No. 3 | Cuttack 754 006 Odisha



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Foreword

Dear all,

We have come a long way in a short period of time to ensure the faculty of agriculture has built excellent education benchmark with ICAR accreditation. We are positioned ably to provide student centric quality education through increasingly embedded experiential learning in the course curriculum. We will be adopting the NEP 2020 as per the 6th Deans Committee Recommendations of ICAR in our course curriculum of all programs at UG and PG level. We have initiated PG programs from the academic year 2023. We will also be enrolling Ph.D students in from the academic year 2024.

We have built adequate laboratories, instrumentation and building infrastructure along with field scale with qualified and trained faculty members in various disciplines of agriculture.

We are grown to be largest faculty in the university with 3 batch of students graduated from us, who have made significant progress in their higher studies in prestigious institutions in India and abroad. Likewise, secured career opportunities. The progress made by our over 370 alumni is proud moment for us. We engage with our alumni to promote their professional goals and career through counselling and tracking their progress paths.

We plan to initiate activities to promote organic and natural farming practices by the farming community through farmers training/workshop/knowledge sharing/method demonstration under the centre of excellence on natural farming.

Our future focus has been to initiate and strengthen the research programs to solve the problems relevant to agriculture and allied sector.

We welcome prospective students to enroll with us to our UG and PG programs gain knowledge in spiritually enabled learning environment.

Prof. (Dr.) S. Kumaraswamy
Dean, Faculty of Agriculture



We are growing

Currently, we have 4-undergraduate programs including BSc. (Hons.) Agriculture, BSc. (Hons.) Horticulture, BSc. (Hons.) Agribusiness and BSc. (Hons.) in Food, Nutrition and Dietetics. Each program is professional in nature and spans a duration of four years. From the academic year 2023 onwards, we have launched Master's programs across various disciplines.

The Faculty of Agriculture is broadening its academic offerings by introducing new programs. We created 16 departments in various disciplines to serve as platforms for initiating targeted research and outreach activities. Simultaneously, we are in the process of recruiting faculty members for each discipline, aiming to ensure that each department has a minimum of five regular faculty members. In order to bolster the academic activities of the faculty, crucial staff members, including 11 laboratory assistants, have been recruited.

We adhere to a student-centric approach in our teaching-learning processes. As part of our academic activities, student counseling is conducted annually, focusing on understanding the learning limitations of students and implementing redressal mechanisms. We actively encourage students to engage in training, workshops, and internships. Similarly, we inspire students to participate in socially relevant activities to acquire life skills from

society. These programs are now well-organized, with a dedicated focus on establishing the necessary infrastructure for education and hands-on experiential learning at the field scale.

The Faculty of Agriculture is in the process of developing a short-term diploma program ranging from 1 to 2 years, slated to be introduced in the academic session of 2023. Additionally, there are plans to launch doctoral programs in all disciplines, with a significant emphasis on problem-solving innovative research. To fortify the academic and research programs, faculty members with specific expertise are being recruited.

The Faculty of Agriculture has experienced promising growth, marked by numerous academic and allied initiatives aimed at promoting quality education and experiential learning. The course curriculum has been formulated as a Learning Outcome-based Course Curriculum Framework (LOCF), placing a significant emphasis on providing experiential learning opportunities in each offered course throughout the semester. This framework is also in alignment with the National Educational Policy of 2020. Furthermore, there is an ongoing effort to design and incorporate new courses into the curriculum, focusing on integrating interdisciplinary topics.

Students are actively encouraged to participate in extra-curricular activities, fostering the development of leadership abilities and interpersonal skills for overall personality development. Under the Student Ready Program-Rural Agricultural Work Experience (RAWE), students receive comprehensive orientation through a specific manual and engaging activities. Moreover, students have undergone study tours to gain exposure to various institutions involved in research and development, with a primary focus on agriculture.

The Faculty of Agriculture envisions becoming an interdisciplinary institute of agriculture and agribusiness, modeled as a center of excellence. Since its inception in 2017, the faculty has expanded to include ample building space, well-equipped laboratory infrastructure with instrumentation, and farm land to support student education and experiential learning. The library has been enriched with substantial volumes of reference books for the benefit of students. Looking ahead, the faculty plans to initiate Ph.D programs in select disciplines. The continuous pursuit of excellence aims to transform the faculty into an institution of eminence.

Salient achievements

Accreditation

The Faculty of Agriculture has received accreditation from the Indian Council of Agricultural Research (ICAR) until October 10, 2027.



Infrastructure

- Established student counselling room
- Created Central Instrumentation Facility
- Upgradation of laboratory equipment's

- IBM-Statistical Package for Social Science (SPSS), Version-21

Collaborations initiated (Memorandum of Understandings)

- ICAR-Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar, May 26, 2022
- Washington State University, August 12, 2022
- ICAR-National Rice Research Institute (NRI), Bhubaneswar, July 27, 2023
- CCS-Haryana Agricultural university, Hsar, July 24, 2023
- AKS University, Madhya Pradesh, July 24, 2023
- Maharaja Agrasen Hmalayan Garhwal University, Uttarakhand, July 24, 2023
- Hmalayan University, Arunachal Pradesh, July 24, 2023
- Geetanjali Devi Foundation, Hyderabad, July 24, 2023

Staff recruitment

Faculty Members	12
Laboratory Assistants	11

Student accomplishments

State Level Speech Competition

The students from the Faculty of Agriculture proudly represented Sri Sri University at a state-level speech competition organized by Samraj on the eve of Independence Day, August 14, 2022. Their noteworthy participation in the event earned them certificates in recognition of their commendable contribution.



Best UG student awards

Mr. Koushik Sahoo and Mr. Rutwikshree Dash, both pursuing B.Sc. (Hons.) Agriculture (Batch 2020-24), achieved the prestigious Best Undergraduate Student Award. This recognition was bestowed upon them during a one-day webinar titled 'Agriculture and Allied Science Education, Trends, and Needs'. The event was organized by the Society for Ecological Sustainability Odisha and Ms. Swaminathan School of Agriculture at Centurion University of Technology and Management, Odisha, India.



Inter-University level competition

Students from the Faculty of Agriculture, namely Mr. Devraj Pal, Ms. Kiran Prava Das, and Mr. Rajdeep Mohapatra, have achieved notable recognition by securing awards in the Inter-University Level Youth Leadership Training Programme held in Bhubaneswar.



State level Debate Competition

Students from the Faculty of Agriculture represented Sri Sri University in a State-Level Debate Competition and secured the 3rd position. The event was organized by THE SAMAJA in collaboration with THINKTANK ODISHA and MSWA ODIA SAMAJ to commemorate Gandhi Jayanti on October 2, 2022.



Participation at university level activities under Krushi Unnat Sahajogi, Govt. of Odisha

Students from the Batch (2020-24) of BSc. (Hons.) Agriculture, including Mr. Pritam Kumar Sahoo, Mr. Brundaban Sahoo, Mr. Sandip Kumar Patro, and Mr. Jit Sudarshan, proudly represented Sri Sri University at the Krishi Unnati Sammelan 2022. The event, organized by Krishi Jagran in association with Centurion University, took place on the 17th and 18th of October, 2022.



Participation at University level activities under ELP

Final year students from the Faculty of Agriculture, as part of their Experiential Learning Program (ELP) modules on Commercial Horticulture and Post-harvest Management, and Value-Addition of Horticultural Crops, actively participated in the annual flower show exhibition. The event took place at the Botanic Gardens Regional Plant Resource Centre (RPRC) in Bhubaneswar. During the exhibition, students showcased their creativity by presenting handmade products such as scented candles, floral resin earrings, keyrings, glasses, pendants, pot plants, herbal soaps, terrariums, lip scrubs, bath salts, and clay products.



Publications

SCOPUS indexed Original Research/Review Articles

1. Ahmad, R, Anjum, M A, & Balal, R M (2020). From markers to genome-based breeding in horticultural crops an overview. *Phyton*, 89(2), 183.
2. Anberbir, S.M, Satheesh, N, Abera, AA, Tenagashaw, MW, Asres, DT, Tiruneh, AT, Habbu, T.A, Awol, S.J. and Wudineh, T.A (2023). Effect of blending ratio and fermentation time on the physicochemical, microbiological, and sensory qualities of injera from teff, pearl millet, and buckwheat flours. *OJTA-Journal of Food* 27(1), pp.217-236.
3. Arebo, M A, Feyisa, J. D, Tafa, K D, & Satheesh, N (2023). Optimization of spray-drying parameter for production of better-quality orange fleshed sweet potato (*Ipomoea batatas* L.) powder: Selected physiochemical, morphological, and structural properties. *Heliyon*, 9(1).
4. Asfaw, W A, Tafa, K D, & Satheesh, N (2023). Optimization of citron peel pectin and glycerol concentration in the production of edible film using response surface methodology. *Heliyon*, 9(3).
5. Bansal, S, Mohapatra, S, Gohain, N, & Das, A (2022). Production status, market integration and the law of one price: An exploration of the major maize markets of India. *Indian Journal of Economics and Development*, 18(4), 832-841.
6. Bardhan, K, Parekh, V. B, Jena, S, More, S. J., & Padukkage, D (2022). Root system architectural and growth responses of crop plants to mineral nutrition under moisture stress and its implications in drought tolerance. In *Climate Change and Crop Stress* (pp. 171-207). Academic Press.
7. Bezabih, G, Satheesh, N, Workneh Fanta, S, Wale, M, & Atlabachew, M (2022). Assessment of farmers practices and perception on maize grain storage insect pest in Mecha woreda, Amhara regional state, Ethiopia. *Archives of Phytopathology and Plant Protection*, 55(6), 736-760.
8. Bhoi, T. K, Samal, I., Majhi, P. K, Komal, J, Mahanta, D K, Pradhan, A K, ... & Ashwini, M (2022). Insight into aphid mediated Potato Virus Y transmission: A molecular to bioinformatics prospective. *Frontiers in Microbiology*, 13, 1001454.

9. Chandra, R, Anjan Kumar Prusty, B, & Azeez, P. A (2022). Metal Hyperaccumulation in Plants: Phytotechnologies. *Sustainable Solutions for Environmental Pollution: Air, Water and Soil Reclamation*, 321–353.
10. Das, P., Panda, S., Modak, S., Das, L., Mohapatra, S., Chartejee, R., Mondal, S., Ali, G.T., Ghosh, S. and Pal, P.K (2022). Exploring the Status, Prospects and Constraints of Riverbed Cultivation in Cooch Behar district of West Bengal, India. *Ecology, Environment & Conservation*, 219–225
11. Datta, D, Senapati, A K, Behera, L, Zaidi, N W, Kumar, S, & Dey, P. (2023). Alleviating drought stress in rice plant through intervention of *Trichoderma* spp. *Journal of Environmental Biology*, 44(3), 373–379.
12. Debnath, D, Samal, I., Mohapatra, C, Routray, S, Kesawat, M S, & Labanya, R (2022). Chitosan: An Autocidal Molecule of Plant Pathogenic Fungus. *Life*, 12(11), 1908.
13. Guru, P. N, Midula, D, Dukare, A S, Ghodki, B M, Paschapur, A U, Samal, I, ... & Subbanna, A R (2022). A comprehensive review on advances in storage pest management: Current scenario and future prospects. *Frontiers in Sustainable Food Systems*, 6, 993341.
14. Hussain, Y., Sheereen, Z, Ganie, M A, Rout, S, & SA M N (2022). A Study on the Influence of Rainfall on Agriculture using IDF curve. *International Journal of Special Education*, 37(3).
15. Kesawat, M S, Kherawat, B S, Ram C, Singh, A, Dey, P., Gora, J. S, ... & Kumar, M (2022). Genome-Wide Identification and Expression Profiling of Aconitase Gene Family Members Reveals Their Roles in Plant Development and Adaptation to Diverse Stress in *Triticum aestivum* L. *Plants*, 11(24), 3475.
16. Khan, S, Gaira, KS, Asgher, M, Verma, S, Pant, S, Agrawala, DK, Alamri, S, Siddiqui, MH and Kesawat, MS (2023). Temperature Induced Flowering Phenology of *Olea ferruginea* Royle: A Climate Change Effect. *Sustainability*, 15(8), p.6936.
17. Khan, S, Gaira, KS, Asgher, M, Verma, S, Pant, S, Agrawala, DK, Alamri, S, Siddiqui, MH and Kesawat, MS (2023). Temperature Induced Flowering Phenology of *Olea ferruginea* Royle: A Climate Change Effect. *Sustainability*, 15(8), p.6936.
18. Kumar, P., Ranjan, S, Panwar, M, Ram H, Kumar, M, Pandey, H, Anuragi, H, Mishra, UN and Singhal, RK (2023). Crosstalk between small-RNAs and their linked with abiotic stresses tolerance in wheat. In *Abiotic Stresses in Wheat* (pp. 259–272). Academic Press.

19. Labanya, R, Srivastava, P. C, Pachauri, S. P., Shukla, A K, Shrivastava, M, & Srivastava, P. (2023). Effect of micronutrients and sulfur enriched phyto-biochars on yield, tissue concentrations and uptake of these nutrients in fodder maize (*Zea mays* L.) and post-harvest soil properties. *Journal of Plant Nutrition*, 1-18.
20. Lal, MK, Sharma, E, Tiwari, RK, Devi, R, Mshra, UN, Thakur, R, Gupta, R, Dey, A, Lal, P., Kumar, A and Altaf, MA (2022). Nutrient-mediated perception and signaling in human metabolism a perspective of nutrigenomics. *International Journal of Molecular Sciences*, 23(19), p.11305.
21. Mahanta, DK, Komal, J, Samal, I., Bhoi, T.K, Dubey, V.K, Pradhan, K, Nekkanti, A, Gouda, MR, Saini, V., Negi, N and Bhateja, S. (2023). Nutritional aspects and dietary benefits of “Silkworms”: Current scenario and future outlook. *Frontiers in Nutrition*, 10, p.1121508.
22. Mahapatra, S R, Dey, J, Raj, T. K, Kumar, V, Ghosh, M, Verma, K K, ... & Suar, M (2022). The potential of plant-derived secondary metabolites as novel drug candidates against *Klebsiella pneumoniae*: molecular docking and simulation investigation. *South African Journal of Botany*, 149, 789-797.
23. Melese, B, Satheesh, N, Fanta, S W, & Bishaw, Z (2022). Effects of storage bags type and storage duration on seed quality and proximate composition of emmer wheat (*Triticum dicoccum* L.) in Ethiopia. *Heliyon*, 8(12).
24. Melese, B, Satheesh, N, Workneh Fanta, S, & Bishaw, Z (2022). Quantitative and qualitative post-harvest loss of emmer wheat in selected value chain in Bale zone, Ethiopia. *Cogent Food & Agriculture*, 8(1), 2147554.
25. Mshra, U N, Dey, P., Singhal, R K, Sahu, C, Jena, D, Nanda, S P., & Chauhan, J. (2023). Plant Phenolics As Antioxidants and Potent Compounds Under Multiple Stresses. In *Plant Phenolics in Abiotic Stress Management* (pp. 215-234). Singapore: Springer Nature Singapore.
26. Mshra, U N, Dey, P., Singhal, R K, Sahu, C, Jena, D, Nanda, S P., & Chauhan, J. (2023). Plant Phenolics As Antioxidants and Potent Compounds Under Multiple Stresses. In *Plant Phenolics in Abiotic Stress Management* (pp. 215-234). Singapore: Springer Nature Singapore.
27. Mshra, U N, Jena, D, Sahu, C, Devi, R, Kumar, R, Jena, R, ... & Kumar, A (2022). Nutrigenomics: an inimitable interaction amid genomics, nutrition and health. *Innovative Food Science & Emerging Technologies*, 82, 103196.
28. Mshra, U N, Jena, D, Sahu, C, Devi, R, Kumar, R, Jena, R, ... & Kumar, A (2022). Nutrigenomics: an inimitable interaction amid genomics, nutrition and health. *Innovative Food Science & Emerging Technologies*, 82, 103196.

29. Mshra, UN, Kandali, R, Doley, R, Singhal, RK, Abdelaziz, MA, Mustafa, SK, Abdulsalam, NM, Khateeb, NA, Alzuair, FM, Hadifa, A and EL SABAGH A (2023). Novel structured lipid synthesis with desired n-6: n-3 ratio using rice bran lipase. *Applied Ecology & Environmental Research*, 21(1).
30. Mohapatra, S, Mohapatra, S, Han, H, Ariza-Montes, A, & López-Martín, M D C. (2022). Climate change and vulnerability of agribusiness: Assessment of climate change impact on agricultural productivity. *Frontiers in Psychology*, 13, 955622.
31. Mondal, T., Jose, J. P. A, Rout, S, Kalra, R, Ramkumar, R, & Kirubakaran, D (2023) The ecology, evolution, environment and systematics, of mating and its evolutionary consequences in seed plants. *European Chemical Bulletin*, 12(4), 5296-5306.
32. Moullick, D, Bhutia, K L, Sarkar, S, Roy, A, Mshra, U N, Pramanick, B, ... & Hossain, A (2023). The intertwining of Zn-finger motifs and abiotic stress tolerance in plants: Current status and future prospects. *Frontiers in Plant Science*, 13, 1083960.
33. Moullick, D, Bhutia, K L, Sarkar, S, Roy, A, Mshra, U N, Pramanick, B, ... & Hossain, A (2023). The intertwining of Zn-finger motifs and abiotic stress tolerance in plants: Current status and future prospects. *Frontiers in Plant Science*, 13, 1083960.
34. Pandey, H, Chauhan, D, Bang, N T. H, Singhal, R K, & Mshra, U N (2023). Transposons as Natural Genetic Engineers of Genome Mutation, Evolution, and Speciation. In *Plant Transposable Elements* (pp. 125-145)
35. Ram C, Danish, S, Kesawat, M S, Panwar, B S, Verma, M, Arya, L, ... & Sharma, V. (2022). Genome-wide comprehensive characterization and expression analysis of TLP gene family revealed its responses to hormonal and abiotic stresses in watermelon (*Citrullus lanatus*). *Gene*, 844, 146818.
36. Ram C, Danish, S, Kesawat, MS, Panwar, BS, Verma, M, Arya, L, Yadav, S and Sharma, V. (2022). Genome-wide comprehensive characterization and expression analysis of TLP gene family revealed its responses to hormonal and abiotic stresses in watermelon (*Citrullus lanatus*). *Gene*, 844, p.146818.
37. Saikanth, D R K, Gupta, K, Srivastava, P, Saryam M, Rani, K S, Jena, P., & Rout, S. (2023). Environmental Sustainability and Food Security of Traditional Agricultural Practices in India: A Review. *International Journal of Environment and Climate Change*, 13(8), 1847-1856.
38. Samal, I., Bhoi, T.K, Majhi, P.K, Murmu, S, Pradhan, AK, Kumar, D, Saini, V., Paschapur, AU, Raj, MN, Manik, S and Behera, P.P. (2023). Combatting insects mediated biotic stress through plant associated endophytic entomopathogenic fungi in horticultural crops. *Frontiers in Plant Science*, 13, p.1098673.

39. Shabbir, R, Singhal, RK, Mishra, UN, Chauhan, J, Javed, T., Hussain, S, Kumar, S, Anuragi, H, Lal, D and Chen, P. (2022). Combined abiotic stresses: challenges and potential for crop improvement. *Agronomy*, 12(11), p.2795.
40. Sharma, N, Sheikh, Z N, Alamri, S, Singh, B, Kesawat, M S, & Guleria, S (2023). Chemical Composition, Antibacterial and Combinatorial Effects of the Essential Oils from *Cymbopogon* spp. and *Mentha arvensis* with Conventional Antibiotics. *Agronomy*, 13(4), 1091.
41. Siganani, S, Kolandhasamy, P., Behera, DP., Sarathy, P.P., Chandra, R, Aljarba, NH, AL-Hazani, T.M, Moovendhan, M and Dilipan, E (2023). Assessment of blue carbon sequestration potential of *Avicennia marina* in the semi-arid zone of Gulf of Kutch, Gujarat, India. *Regional Studies in Marine Science*, 62, 102937.
42. Kalyani, P. (2023). Studies on the phytochemicals, antibacterial, and antioxidants effects of *Cardiospermum halicacabum* leaf extracts. *International Journal of Zoological Investigations* 10(3), 109.
43. Tafa, K D, Satheesh, N, & Abera, W (2023). Mechanical properties of tef starch based edible films: Development and process optimization. *Heliyon*, 9(2).
44. Tafa, K D, Satheesh, N, & Abera, W (2023). Mechanical properties of tef starch based edible films: Development and process optimization. *Heliyon*, 9(2).
45. Thangamayan, S, Pradhan, K, Loganathan, G B, Sitender, S, Sivamani, S, & Tesema, M (2023). Blockchain-Based Secure Traceable Scheme for Food Supply Chain. *Journal of Food Quality*, 2023
46. Verma, N, Jose, J. P. A, Rout, S, Jain, B, Ashokkumar, N, & Chaudhary, S. (2023). The role and impact of conservation agriculture for sustainable and resilient agriculture. *European Chemical Bulletin*, 12(1), 5091-5103.

Web of Science indexed Research/Review Articles

1. Koshariya, A K, Priyadarshini, B, Ramalakshmi, V, Pradhan, K, & Balamuralitharan, S (2022). Recognition of early blight and late blight diseases on potato leaves based on CNN algorithm. *NeuroQuantology*, 20(7), 2711.

2. Msra, R, Pattnayak, C, Joshi, I. (2023) Effectiveness of nutrition education programme on knowledge, attitude and practices of college going girls, *International Journal of Creative Research Thoughts*, 11(6), 918-925.
3. Pattnayak, C, Joshi, I., Mshra, K (2023). Indian Spices and Perception of College Students in terms of its Acceptability and Health Benefits. *International Journal of Creative Research Thoughts (IJCRT)*, 11(6), 791-796.
4. Rout, Sandeep & Barik, Swarup & Panigrahi, Sonia & Dash, Lipsa. (2023). Gauging the role of Agricultural marketing in Indian Agribusiness.

NAAS indexed Research/Review Articles

1. Badu, M, Naresh, P., Sahu, G S, Tripathy, P., & Veera, N D U R (2022). Evaluation of F2 population for yield and yield attributing characters in Chilli (*Capsicum annum* L.).
2. Badu, M, Naresh, P., Sahu, G S, Tripathy, P., Das, N, & Veera, U R (2022). Mean performance of F3 genotypes for yield and yield attributing characters in chilli (*Capsicum annum* L.). *International Journal of Plant & Soil Science*, 34(21), 865-871.
3. Das, D, Kumar, S, Poonam A, Bhaduri, D, Pattnaik, R, Rajwade, O, & Nayak, J. K (2022). Effect of organic nutrient management on growth and yield attributes of rice (*Oryza sativa* L.) Cultivars under transplanted condition.
4. Dash, D, Pattanaik, D, Panda, D, Dey, P., Baig, M J, Rout, G R, ... & Gupta, A K (2022). Effect of Low Light Stress on Plant Height, Tiller Number, Panicle Number, Leaf Area and Yield of Long Duration Rice (*Oryza sativa* L.) Varieties. *International Journal of Environment and Climate Change*, 12(10), 1177-1183.
5. Dash, D, Pattnaik, D, Panda, D, Dey, P., Baig, M J, Rout, G R, ... & Gupta, A K (2022). Effect of Low Light Stress on Leaf Chlorophyll a, b, a+b, a/b, Catalase, Peroxidase, SOD and Yield of Long Duration Rice Varieties (*Oryza sativa* L.). *International Journal of Plant & Soil Science*, 34(22), 184-193.

6. Datta, D, Senapati, A K, Panda, A G P, Boblina, B, Mshra, M K, Srinivas, P, ... & Saha, D (2022). Effect of Different *Trichoderma asperellum* Formulations on Management of Sheath Blight of Rice. *International Journal of Plant & Soil Science*, 34(24), 1136-1143.
7. Pattanayak, C, Joshi, I., & Mshra, K (2023). The effect of CORD waves on dietary transformation among college going girls. *International Journal of Home Science*, 9(1), 4-8.
8. Rai, U, Jena, D, Nanda, S, Rayaguru, K, Devadarshini, C, & Msra, R (2023). Studies on development of ready-to-eat functional food and its storability. *The Pharma Innovation Journal*, 12(6), 152-155.
9. Saikanth, D R K, Gupta, K, Srivastava, P., Saryam M, Rani, K S, Jena, P., & Rout, S (2023). Environmental Sustainability and Food Security of Traditional Agricultural Practices in India: A Review. *International Journal of Environment and Climate Change*, 13(8), 1847-1856.
10. Upadhyay, A, Rai, A K, Verma, S K, Upadhyay, L, Khan, A, Singh, O, & Rout, S (2023). Integrated Management Practices against Desert Locust, *Schistocerca gregaria* (Forsk.) in India: A Review. *International Journal of Environment and Climate Change*, 13(7), 617-629.
11. Veera, U R, Sahu, G S, Tripathy, P., Das, S, Dash, M, Badu, M, ... & Pramanik, K (2022). Assessment of genetic variability for fruit yield and quality traits in cucumber (*Cucumis sativus* L.) in eastern coastal plains of Odisha.

Book chapters

1. Badu, M (2022). Vertical Gardening of Vegetable Crops–Need of the Hour.
2. Singh, S, Bhoi, T. K, Khan, I., Vyas, V., Athulya, R, Rath, A, & Samal, I. (2023). Climate Change Drivers and Soil Microbe-Plant Interactions. In *Climate Change and Microbiome Dynamics: Carbon Cycle Feedbacks* (pp. 157-176). Cham Springer International Publishing.
3. Rout, S (2023). Agroforestry Practices for Sustainable Agriculture, Research Floor.
4. Msra, R and Neela, S (2023). Kodo Millet (*Paspalum scrobiculatum*): A Nutri-rich Millet Crop: Nutritional Composition, Health Benefits and Food Product Developments.
5. Dakua, A and Msra, R (2023). Socio-Economic Implication in Agriculture and Nutritional Security after Covid-19.

6. Msra, R and Pattnayak, C. (2023). Summer Fruits Preserved Products, Trends in Agriculture and Horticulture.

Conference proceedings

1. Rout, S (2023). International conference on new generation horticulture for prosperity.
2. Koshariya, A K, Rout, S, & Venu, N An enhanced machine learning approach for identifying paddy crop blast disease management using fuzzy logic.
3. Rao, B S, Priya, P., Nadiger, S, Rout, S, Pathade, K N, & Singh, K (2023, June). A Novel Approach for Crop Yield Prediction based on Hybrid Deep Learning Approach. In 2023 8th International Conference on Communication and Electronics Systems (ICES) (pp. 1310-1315). IEEE
4. Rout, S (2023). Sustainable land use and resource management through agroforestry, international conference on development vs wellbeing of south asian societies.

Popular articles

1. Msra, R (2023). Association between the prevalence of obesity and other lifestyle diseases, Agriculture & Food E-Newsletter.
2. Badu, M (2023). Grafting: An improved production technique in vegetable crops.

FDPs/Webinars/Guest Lectures

FDPs

i. Attended

Name of faculty member	Title of the program	Duration (from – to) (DD-MM-YYY)
Dr. Rini Labanya	International Training cum Workshop Program on Agriculture 4.0: The Future of Farming Technology and Agripreneurship Development	10-11-2022 to 24-11-2022

	Refresher Course in Botany	02.11.2022 to 15.11.2022
	Training Programme on “Good Horticulture Practices for Better Marketing”	14-11-2022 to 16-11-2022
	Training program on “Green roofs and Green walls- A novel approach for Urban farming”	20-09-2022 to 22-09-2022
	Training Program on “Promotion of Biofortification for ensuring Nutritional Security”	27-07-2022 to 29-07-2022
	Training program on “Agri-entrepreneurship Development for Women”	11-07-2022 to 15-07-2022
	Training Program on Participatory Gender Approaches for Agriculture Development	23-01-2023 to 28-01-2023
Dr. Anupama Singh	Refresher Course in Botany	02.11.2022 to 15.11.2022
	Training program on “Management and Utilization of Plant Genetic Resources”	01-02-2023 to 21-02-2023
	Four Week Faculty Induction Program	23-04-2023 to 22-05-2023
Dr. Mahipal Singh	Training program on “Management and Utilization of Plant Genetic Resources”	01-02-2023 to 21-02-2023
Dr. Prajnal Dey	One Week Training program on “Molecular Docking and Analysis”	12-12-2022 to 17-12-2022
	Training program on “Management and Utilization of Plant Genetic Resources”	01-02-2023 to 21-02-2023
	Four Week Faculty Induction Program	23-04-2023 to 22-05-2023
	Training program on “Tools and Techniques for Analysis of Biomolecules”	18-01-2023 to 31-01-2023
Dr. Chinmayee Mohapatra	Training program on “Agri-entrepreneurship Development for Women”	11-07-2022 to 15-07-2022
	Refresher Course in Botany	02.11.2022 to 15.11.2022
	Training program on “Management and Utilization of Plant Genetic Resources”	01-02-2023 to 21-02-2023

	Four Week Faculty Induction Program	23-04-2023 to 22-05-2023
Dr. Meenakshi Badu	Four Week Faculty Induction Program	23-05-2023 to 21-06-2023
Dr. Shruti Mohapatra	One Week FDP on Research Writing and Methodology	03-04-2023 to 07-04-2023
	Training program on "CSR development in Agriculture"	12-01-2023
	FDP on Induction Training	05-06-2023 to 09-06-2023

Workshops/Webinars/Seminars/Training programs

i. Conducted

Name of the faculty member	Name of the workshop/ Webinars/ seminars/ training programs conducted	Date From – To
Dr. Prajjal Dey	Application of Nanotechnology in Crop Protection: Current Status and Future Prospects	09.01.2022
Dr. Suchismita Jena	Virtual workshop for floripreneurs in India	12.01.2022
Dr. Chinmayee Pattnayak	National Webinar on Thyroid Awareness Month	27-29.01.2022
Dr. Rini Labanya	International Webinar on Climate Change & Soil Health	08.01.2022
Dr. Ipsita Samal	Tasar Sericulture: A Livelihood for Tribal Population of India"	08.01.2022
Prof. Kumaraswamy	Workshop on 'NEP 2020 Implementation'	09.03.2023
Dr. Seema Tripathy	Workshop on 'Upskilling the Youth on Commercial Beekeeping'	14.03.2023
Dr. Seema Tripathy	Training Program on 'Honey Bee Farmer'	26.04.2023
Dr. Seema Tripathy	Training Program on 'Comb Honey Production'	29.04.2023
Dr. Prajjal Dey & Dr. Ankita Mohanty	Plastic Mulch: The Good, The Bad, and Transformative ways to improve sustainable agriculture	09.10.2023
Dr. Prajjal Dey & Dr. Ankita Mohanty	Agriculture and Environment: Building Interdisciplinary Perspectives	21.09.2023
Dr. Prajjal Dey	Status of Indian Agriculture	22.07.2023
Dr. Chinmayee Pattnayak	Webinar on National Nutrition Week	07.09.2023
Ms. Anwesha Sahoo	Webinar on World Breast feeding week	04.08.2023

Guest Lectures

i. Conducted

Name of the faculty	Guest lectures conducted	Date From – To
Ms. Suman Sarita Mohapatra	Guest Lecture on “Impacts and implications of tropical atmospheric oscillations”	25.08.2023
Dr. Seema Tripathi	Guest lecture on ‘General and seasonal management of an apiary’	10.01.2022

Membership in professional societies

Sl. No.	Name of faculty member	Membership in professional bodies	Types of professional bodies (Journal/ Newsletter/Societies)	Types of Membership (Annual/Lifetime)	Editor/Reviewer	Membership (If any)
1	Dr. Suvalaxmi Palei	Society for Promotion in Horticulture	Society	Life time		
2	Dr. Prajjal Day	Society For Advancement of Agricultural Innovations	Society	Life time		
		American Journal of Plant Biology New York, NY 10020	Journal		Editorial member	

		USA			
		Agrospheresma			Editorial
		gazine,			member
		Current	e-Magazine		Editorial
		Agriculture			member
		Trends			
		eNewslette			
		Plant gene, Gene	Journal		Reviewe
		and Meta gene			r
3	Dr. Chinmayee Mohapatra	Indian	Society	Annual	
		phytopathologic			
		al society			
		Agriblossom	Emagazine	Annual	
4	Dr. Shruti Mohapatra	The Society of	Society	Life Member	
		Economics and			
		Development			
		Agricultural	Society	Life Member	
		Economics			
		Research			
		Association			
		(India)			
		Asian Journal of	Journal		Reviewe
		Economics,			r
		Business and			
		Accounting			
		SABUJEEMA	e-MAGAZINE	Annual	Editorial
					member
		AGRILOSSOM	e-MAGAZINE	Annual	

		Agriculture and Food-e Newsletter	Magazine(News letter)	Annual	
		Current Journal of Applied Science & Technology	Journal	Annual	
5	Dr. Ambika Mishra	Oryza, Indian Society of Soil Science	ICAR- Journal	Annual	
6	Ms Eldusi Tripathy	Agriculture and food eNewsletter	Magazine(News letter)	Annual	Editorial member
7	Dr. Sandeep Rout	International Journal of Botany Studies	Journal	Life	Editorial Board Member
		International Journal of Plant & Soil Science	Journal	Annual	Reviewer
		The Journal of Applied Biology & Biotechnology	Journal	Annual	Reviewer
		Krusha O Paribesh	Magazine	Life	Managing Editor
		Green O2	Magazine	Life	Managing Editor
		Society for Learning Technologies, Andhra Pradesh	Society	Life	Vice President, Odisha

		Shikshak Kalyan Foundation, New Delhi	Society	Annual	Chapter State Convener, Odisha State Society Board member
		Society for Ecological Sustainability, Odisha	Society	Life	Society Board member
		Krishi Pravahika : e - Samachar Patrika	E-Magazine	Life	Editorial Board Member
		Sunshine Agriculture: eNewsletter	E-Magazine	Life	Editorial Board Member
		South Asian Journal of Agricultural Sciences	Journal	Annual	Assistant Editor
		Current Agriculture Trends eNewsletter	E-Magazine	Life	Editorial Board Member
8	Dr. Kalyani Pradhan	Odisha Horticulture Society	Society	Life	
		Society for Scientific	Society	Life	

		Development in Agriculture and Technology Indian Society of Vegetable Science.	Society	Life	
9	Dr. Seema Tripathy	The Society for Plant Protection and Environment Journal of Experimental Agriculture International	society journal	Life reviewer	
10	Dr. Anupam Dakua	International Journal of Food Science and Nutrition International Journal of Agriculture and Food Science International Journal of Academic Research and Development Journal of Emerging	Journal Journal Journal		Editor Editor Reviewe r

		Technology and Innovative Research				
		Agriculture and Food-e Newsletter	Magazine(News letter)	Annual	Editor	
		Vigyan Varta	e-Magazine	Monthly	Editor	
11	Dr. Udit Nandan Mishra	All India Council For Technical Skill Development	Society			AICTSD/PR OFESSOR/21714 Fellow number: AF 1150/2021
		Indian Society of Chemists And Biologists	Society	Annual		
		Society for Plant Biochemistry and Biotechnology	Society	Life time		L-938 (2021)
		International Journal of Research and Innovation in Applied Science (JRIAS)	Journal		Reviewer	
12	Ms Chinmayee Pattnayak	Nutrition society of India	Society	Life member		
		Home science Association of India	Society	Life member		

13	Dr. Subhrajyoti Panda	Indian Society of Extension Education Society for Community mobilization for Sustainable Development	Society	Life member		
14	Dr. Debanjana Debnath	Agri blossom e newsletter	E-Newsletter	Annual member	Reviewer	
		Agriculture and food e magazine	E-Newsletter		Editorial Member	
		Society for Advancement in Wheat and Barley Research Institute	Society	Annual member		
		Current Agriculture Research Journal	Journal		Reviewer	
15	Dr. Rini Labanya	Indian Society of Soil Science	Society	Annual membership		M/L/115
16	Dr. Mahipal Singh				Editorial Board Member for American Journal	

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Awards

Name of the	Type of award	Name of the Awarding Agency with contact details	Year of
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Awardee			Award
Dr. Ipsita Samal	Young Scientist Award (Entomology)	6th International Conference on "Current Issues in Agricultural, Biological and Applied Sciences for Sustainable Development (CIABASSD-2022)"	13.06.2022
Dr. Shruti Mohapatra	Young Scientist Award -2022	6th International Conference on "Current Issues in Agricultural, Biological and Applied Sciences for Sustainable Development (CIABASSD-2022)"	13.06.2022
Dr. Mahipal Singh Kesawat	Young Scientist Award (Agricultural Biotechnology)	Astha Foundation, 14th International Conference on Innovative and Current Advances in Agriculture & Allied Sciences (ICAAAS-2022)	14.06.2022
	Research Excellence Award	Institute of Scholars (InSc), International Publishers, Bengaluru, Karnataka	12.06.2022
	Excellence in Research Award	5th National Conference on Doubling Farmers Income for Sustainable & Harmonious Agriculture (DISHA-2022)	8.2022
Dr. Sandeep Rout	Excellence Award in Forestry	Research Education Solutions, Noida (International Conference on Industrial Revolutions & Innovations in Management Science & Technology, Education and Humanities)	24.04.2022
	Excellence Research Fellow Award	PLANITICA - APSR, Dehradun	11.07.2022
	Best Teacher Award in Forestry	Sidvi Foundation, Nilkanthrao Shinde Science and Arts College, Maharashtra at International Conference on Multidisciplinary Innovative Research and Development 2023 and International Award Ceremony	02.07.2023
Dr. Rini Labanya	Young Scientist Award	Society for Biotic and Environmental Research (SBER) at International Conference on Recent Advances in Agricultural, Biological and Applied Sciences Research,	08.08.2022

	Assam	
Student	College of Agriculture, GB Pant University of Agriculture	2022
Excellence	and Technology, Pantnagar	
Award-2022		

List most significant collaborations & MoU

- ICAR-Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar, May 26, 2022
- Washington State University, August 12, 2022
- ICAR-National Rice Research Institute (NRI), Bhubaneswar, July 27, 2023
- CCS-Haryana Agricultural university, Hsar, July 24, 2023
- AKS University, Madhya Pradesh, July 24, 2023
- Maharaja Agrasen Himalayan Garhwal University, Uttarakhand, July 24, 2023
- Himalayan University, Arunachal Pradesh, July 24, 2023
- Geetanjali Devi Foundation, Hyderabad, July 24, 2023

The Team

S. No.	Name of the Faculty	Qualification	Ph.D. from which University	Department	Research Expertise
1	Mrs. Bidusi Tripathy	MSc. (Ag)	Uttar Banga Krishi Viswavidyalaya, West Bengal	Agronomy	Conservation agriculture, Cropping system research, Nutrient management
2	Dr. Madhab Kumar Datta	Ph.D	Bidhan Chandra Krishi Viswavidyalaya, West Bengal	Agronomy	Weed management
3	Dr. Susmita Das	Ph.D	Bidhan Chandra	Agronomy	Nutrient management, Climate

			Krishi Viswavidyalaya, West Bengal		change, Cropping system
4	Ms. Rasmirekha Pattnaik	MSc. (Ag)	Odisha University of Agriculture & Technology, Odisha	Agronomy	Nutrient Management
5	Dr Rini Labanya	Ph.D	G B Pant University of Agriculture and Technology, Pantnagar, Pantnagar Odisha	Soil Science and Agricultural chemistry	Soil Chemistry, Soil Fertility, Micronutrient status
6	Dr.Ambika Mshra	Ph.D	University of Agriculture & Technology, Odisha	Soil Science and Agricultural chemistry	Soil physics, Soil fertility and Pedology and Microbiology
7	Dr. Chinmayee Mohapatra	Ph.D	Banaras Hindu University, Varanasi	Plant Pathology	Molecular Plant pathology, Bioinformatics, Plant Diseases
8	Dr. Debanjana Debnath	Ph.D	Bidhan Chandra Krishi Viswavidyalaya, West Bengal	Plant Pathology	Host plant resistance, fungicide alternatives, bio control agent
9	Mr. Arya Goutam Panda	MSc. (Ag)	Odisha University of Agriculture &	Plant Pathology	Biological control of diseases, Mass production of bioagents, Grey mildew disease of Cotton

			Technology, Odisha Odisha		
10	Dr. Seema Tripathy	Ph.D	University of Agriculture & Technology, Odisha	Entomology	Host plant resistance, integrated pest management
11	Ms. Soumya Bharati Babu	MSc. (Ag)	University of Agriculture & Technology, Odisha	Entomology	Host plant resistant, Molecular Entomology
12	Dr. Suvalaxmi Palei	Ph.D	University of Agriculture & Technology, Odisha	Horticulture	Fruit Breeding, Biotechnological intervention in fruit crops, Post harvest physiology of fruit crops
13	Dr. Kalyani Pradhan	Ph.D	University of Agriculture & Technology, Odisha	Horticulture	Vegetable breeding, production , Nutritional aspect and value addition of vegetables
14	Dr. Meenakshi Badu	Ph.D	University of Agriculture & Technology, Odisha	Horticulture	Varietal evaluation ,breeding of chilli, resistance breeding
15	Ms. Lopamudra Jena	MSc. (Ag)	Odisha University of	Horticulture	Flower breeding, Plant Tissue Culture, Nanoparticle application,

			Agriculture & Technology, Odisha		Crop nutrition, Post-harvest Management and Value addition
16	Dr. Subhrajyoti Panda	Ph.D	Uttar Banga Krishi Viswavidyalaya, West Bengal	Agricultural Extension	Information and Communication Technology, New trends in agricultural extension, Agricultural Communication
17	Dr. Anupam Dakua	Ph.D	Banaras Hindu University, Varanasi	Agricultural Extension	Women and Tribals in Agriculture, Farmers' Distress, Group Dynamics in Agriculture.
18	Dr. Debasmita Nayak	Ph.D	Odisha University of Agriculture & Technology, Odisha	Agricultural Extension	Adoption and diffusion, Communication, Agripreneurship
19	Dr. Shruti Mohapatra	Ph.D	Punjab Agricultural University, Ludhiana, Punjab	Agricultural Economics	Agricultural Marketing, Agricultural Finance, Production Economics and Farm Management
20	Dr. Mahipal Singh Kesawat	Ph.D	Seoul National University, South Korea	Genetics and plant breeding	Plant Molecular Biology, Genomics and Molecular Breeding
21	Dr. Anupama Singh	Ph.D	G. B. Pant University of Agriculture and Technology, Pantnagar	Genetics and plant breeding	Conventional Breeding, Biotic and Abiotic stress resistance, Molecular breeding
22	Dr. Mandakini		Odisha	Genetics and plant	Conventional Breeding, Biotic and

23	Kabi	Ph.D	University of Agriculture & Technology, Odisha	breeding	Abiotic stress resistance, Molecular breeding
	Dr. Debanjana Saha	Ph.D	University of Agriculture & Technology, Odisha	Genetics and plant breeding	Plant tissue culture, Abiotic stress, molecular breeding
			Sam Higgin Bottom	Forestry	Forestry, Agroforestry, Medicinal Plants
24	Dr. Sandeep Rout	Ph.D	University of Agriculture, Technology and Sciences, Uttar Pradesh		
25	Dr. Prajjal Dey	Ph.D	University of Agriculture & Technology, Odisha	Plant Physiology	Abiotic stress, plant molecular biology
			Odisha	Plant Physiology	Abiotic Stress Physiology, Climate resilient Crop Improvement
26	Dr. Ankita Mohanty	Ph.D	University of Agriculture & Technology, Odisha		
27	Dr. Udit Nandan Mshra	Ph.D	Assam Agricultural University,	Crop Physiology and Biochemistry	Plant Stress Biology, Protein Chemistry, Agricultural Chemistry, Plant Biochemistry

			Jorhat, Assam		
28	Dr. Rachna Chandra	Ph.D	Bharathiar University, Coimbatore, Tamil Nadu	Environmental Science	Restoration ecology, metal pollution, climate change
29	Dr. Sanjeeta Biswas	Ph.D	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal	Agricultural Statistics	Regression Analysis, Forecasting and Modelling, Design of Experiment
30	Ms. Suman Sarita Mohapatra	MSc. (Ag)	Odisha University of Agriculture & Technology, Odisha	Agricultural Meteorology	Extreme weather Events,
31	Mr. Abhinab Mshra	Ph.D	Visva-Bharati, West Bengal	Agri. Engg.	Farm Machinery, Post harvest equipment
32	Dr. Prashant Kumar	Ph.D	National Dairy Research Institute, Karnal Swarni Keshwanand	Animal Sciences Agri-Business	Infrared thermography and its application in animal reproduction and welfare Consumer Behaviour, Agri- Input Marketing, Rural Marketing.
33	Dr. Subhaom Panda	Ph.D	Rajasthan Agricultural University, Bikaner, Rajasthan		
Guest Faculty					
Sl.	Name of the	Department	Courses offered		Program with Batch

Nb.	guest faculty			
1	Dr. Shubhaom Panda	Agribusiness	<p>Consumers Psychology in Business Management (CPB204) 2 (1+1)</p> <p>Office Procedures for Agribusiness (OPA204) 1(0+1)</p> <p>Organizational Behavior of Business Management (OBB204) 2(2+0)</p> <p>Agricultural Cooperation, Institutions and Management (ACM204) 3(2+1)</p> <p>Financial Management in Agribusiness (FMA306) 3(2+1)</p> <p>Managerial Accounting (MAC306) 2(1+1)</p>	<p>B Sc. (Hons) Agribusiness Batch- 2021-25</p> <p>4th Semester</p> <p>B Sc. (Hons) Agribusiness Batch- 2020-24</p> <p>6th Semester</p>
2	Mr. Debaprasad Mohapatra	Animal Science	<p>Livestock and Poultry Management (ASC101) 4(3+1)</p> <p>Livestock and Poultry Management (LPM101) 2(1+1)</p> <p>Value Addition in Animal Products (VAP102) 2(1+1)</p>	<p>BSc (Hons.) Agriculture Batch- 2021-25</p> <p>4th Semester</p> <p>BSc (Hons.) Agribusiness Batch- 2022-26</p> <p>2nd Semester</p>
3	Mrs. Pragnya Paramita Mshra	Genetics and Plant Breeding	<p>Breeding and Seed Production of Flower and Ornamental Plants (HBF306) 3(2+1)</p> <p>Production Management of Vegetable, Floricultural, Aromatic and Medicinal crops (VFM102) 3(2+1)</p>	<p>BSc (Hons.) Horticulture Batch- 2020-24</p> <p>6th Semester</p> <p>BSc (Hons.) Agribusiness Batch- 2022-26</p> <p>2nd Semester</p>

4	Ms. Sayan Sagnika Mohapatra	Agricultural Extension	Horti-Business Management (HBM306) 2(2+0)	BSc (Hons.) Horticulture Batch- 2020-24 6 th Semester
			Agro-based Enterprises and Industrialization (AIN102) 2(1+1)	BSc (Hons.) Agribusiness Batch- 2022-26 2 nd Semester
5	Mr. Subrat Kumar Senapati	Horticulture	Production Technology for Ornamental Crops, MAP and Landscaping (HRT104) 2(1+1)	BSc (Hons.) Agriculture Batch- 2021-25 4 th Semester
6	Mr. Santosh kumar Behera	Entomology	Insect Pest of Fruit, Plantation,, medicinal and Aromatic Crops (HFP 204) 3(2+1)	BSc (Hons.) Horticulture Batch- 2021-25 4 th Semester
			Insect Pest of Vegetable, Ornamental and Spice Crops (HPV 306) 3(2+1)	BSc (Hons.) Horticulture Batch- 2020-24 6 th Semester
7	Mr. Sujit kumar Behera	Entomology	Disease of Fruit, Plantation, Medicinal and Aromatic Crops (HDC 203) 3(2+1)	BSc (Hons.) Horticulture Batch- 2021-25 4 th Semester
			Integrated Disease Management (IDM306) 2(1+1)	BSc (Hons.) Agribusiness Batch- 2020-24 6 th Semester
			Fundamentals of Crop Protection (FCP102) 3(2+1)	BSc (Hons.) Agribusiness Batch- 2022-26 2 nd Semester
8	Ms. Nandini Sahu	Entomology	Apiculture, Sericulture and Lac Culture (HAS 306) 2(1+1)	BSc (Hons.) Horticulture Batch- 2020-24 6 th Semester
9	Ms. Pragati Kabi	Genetics and Plant Breeding	Principles of seed Technology (GPB102) 3(1+2)	BSc (Hons.) Agriculture Batch- 2021-25

Lab Assistance

S N	Name	Qualification	Department
1	Ms. Pratikshya Lenka	M Sc. in Microbiology	Genetics & Plant Breeding, Seed Technology, Plant Tissue Culture
2	Shovnashree Priyadarshini Sethy	MSc. in Agricultural Extension Education	Agricultural Extension, Agricultural Economics
3	Abinash Debata	B Sc. in Botany	Crop Physiology and Biochemistry
4	Jyotirmayee Mohapatra	B Sc. in Zoology	Soil Science and Agricultural Chemistry
5	Ms Shradhankita Bhutia	M Sc. in Environmental Science	Environmental Science and Forestry
6	Ms. Sonali Nag	M Sc. in Applied Microbiology	Plant Pathology and Microbiology
7	Jayashree Jena	BSc. (Hons.) in Agriculture	Agronomy and Agro-meteorology
8	Namrata Gajendra	BSc. (Hons.) in Agriculture	Entomology
9	Tejaswini Sahoo	BSc. (Hons.) in Agriculture	Food nutrition and Dietetics
10	Sachhidananda Dash	BSc. (Hons.) in Agriculture	Horticulture

Farmers' Club and co-curricular activities

Essay Competition

On October 22, 2023, an Essay Competition took place at Room 301, Shruti Building, from 4:00 to 5:00 pm. The competition centered around the topic "Impact of Online Education in the Current Scenario." Approximately 25 participants enthusiastically took part in the event. Ms. Subhashree Panda, a student of B Sc. (Hons.) Horticulture, secured the first prize in the competition.

Debate competition

On October 22, 2023, a Debate Competition took place at Room 301, Shruti Building, from 2:30 to 3:30 pm. The topic for the debate was "Modern Agriculture: Pros and Cons." Approximately 15 participants actively engaged in the event. Mr. Binayak Pati, a student of BBA, earned the first prize in the competition.

Rangoli Competition

The Farmer's Club of the Faculty of Agriculture organized a rangoli competition, "Jhoti Pratiyogita," on November 22, 2022, to celebrate the auspicious month of "MARGASHIRSA." As part of our Odia tradition, this age-old ritual involves welcoming Goddess Laxmi with artistic white arts made from rice batter to create beautiful patterns. The event took place in the Shruti Courtyard, and approximately 18 students actively participated. Mr. Sidharth Sahoo and Ms. Pragyan Parimita Pradhan, both pursuing B.Sc. (Hons.) Agriculture, were awarded the first prize in the competition.



Photography competition

A photography competition, "PRATIBIMB 2023," was organized under the Farmer's Club of the Faculty of Agriculture on May 5, 2023. A large number of students enthusiastically participated in the event, showcasing their photographic skills and creativity.



Slogan writing competition

- On June 5, 2023, in commemoration of World Environment Day, the Department of Environmental Sciences at the Faculty of Agriculture (FoAG), SSU organized a slogan-writing competition. The esteemed panel of judges included Dr. Rachna Chandra, Dr. Neela Satheesh, and Dr. Seema Tripathy from FoAG, SSU. A total of 13 students from SSU participated in the competition, and the assigned topic was "Beat Plastic Pollution." After careful consideration by the jury, Ms. Arpita Priyadarshini of B.Sc. (Hons.) Agriculture, 2021–25, was declared the winner with her impactful slogan: "Rethink, Refuse, Reduce, Reuse: Together, we can beat plastic abuse!"
- On June 6, 2023, in observance of World Pest Day, the Department of Entomology at the Faculty of Agriculture (FoAG), SSU organized a slogan-writing competition. The panel of judges comprised Dr. Seema Tripathy, Dr. Rachna Chandra, and Dr. Neela Satheesh from FoAG, SSU. Seven students from SSU participated in the competition, and the assigned topic was "Sustainable solutions for pest control." Following the jury's deliberation, Ms. Khushbu Mohanty of B.Sc. (Hons.) Agriculture, 2022–26, emerged as the winner with her slogan: "East or West! Sustainable Control is Best for Pest!"

Elocution contest

On December 5, 2022, World Soil Day, a workshop titled "Recent Developments in Soil Science – an Advanced Approach" took place from 10:00 to 01:00 pm at Shruti Ground Hall, Sri Sri University. Distinguished professors from OUAT, Bhubaneswar, namely Prof. S K Pattnayak and Prof. A Mshra, graced the occasion as Chief Speakers, enlightening students with the latest advancements in Soil Science. Additionally, an elocution contest was organized as part of the World Soil Day celebrations, with approximately 20 students actively participating. Ms. Subhashree Panda was declared the winner of the program.



Significant activities

Cultural Events—Fresher party

The senior batch students of the Faculty of Agriculture extended a warm welcome to their newly admitted juniors through a Fresher's Party, named "PARICHAY 4.0," held on November 26, 2022, from 11:00 am to 05:00 pm at the Multipurpose Hall, Sri Sri University. A significant number of students participated and showcased various talents, engaging in diverse cultural activities to make the event memorable.



Cultural Events—Farewell party

The 3rd-year batch students of the Faculty of Agriculture orchestrated a Farewell event named "UDAAN" to celebrate the culmination of the 4-year journey of their seniors (Batch 2019 – 2023) on May 6, 2022. The event was presided over by Prof. S. Kumaraswamy, the Dean of the Faculty of Agriculture at Sri Sri University. The participation of all faculty members and students added vibrancy to the event, making it a memorable day for the graduating batch students.



Sports Events—Athleta 4.0

The Farmer's Club at the Faculty of Agriculture organized the Annual Sports Day on December 2nd and 3rd, 2022, as an integral part of the curriculum. All students were wholeheartedly encouraged to participate in the event, promoting a spirit of sportsmanship and camaraderie.



Farmers Exhibition

The Faculty of Agriculture organized a Farmers Empowerment Fair (Krishi Sashaktikarana Mela) on December 6, 2022, at Ratagada Nua Sahi, Cuttack. The fair featured 17 different department-wise stalls for exhibition, aiming to acquaint the farming community with new technologies and innovations in the field of agriculture. The success of this event was attributed to the proactive efforts of Dr. B R Sharma, Vice Chancellor, SSU Mrs. Gouribala Das, Sarapanch of Village, Mr. Gaurav Sharma, Director Operations, SSU and Dr. S. Kumaraswamy, Dean Faculty of Agriculture.



Teacher's Day Celebration

The students of the Faculty of Agriculture organized a celebration in honor of Teacher's Day on September 5th, 2022, at the Multipurpose Hall, Sri Sri University. During the event, the students warmly welcomed all the teachers and showcased various cultural activities to express their appreciation and gratitude.



Collage of photos of events/celebrations etc.

Students' Orientation, 2022

A formal induction/orientation program was organized for the students of the Faculty of Agriculture, Batch 2022-26, spanning from September 5 to 11, 2022.





Educational Tour to Maa-Mati

Dr. Subhrajyoti Panda organized a visit to the Maa-Mati integrated organic farm in Pipili on January 2, 2023, for the students of B.Sc. (Hons.) Agriculture from the batch (2020-24).



Workshop on 'NEP 2020 Implementation'

On March 9, 2023, Prof. Tej Partap actively engaged in a dynamic interaction with both faculty and students, focusing on the National Education Policy 2020 (NEP). During the discussion, he covered key aspects of NEP, emphasizing the pivotal role of faculty in its implementation. Additionally, he underscored the significance of adopting a student-centric approach in the educational process.



Workshop on 'Upskilling the Youth on Commercial Beekeeping'

The Faculty of Agriculture organized a one-day workshop on "Upskilling the Youth on Commercial Beekeeping" on March 14, 2023. The session featured Dr. Chitta Ranjan Satapathy, ICAR Emeritus Scientist and Former Professor (Entomology), who served as the resource person and chief speaker. Dr. Satapathy is also the Principal Investigator of AICRP on Honeybees and Pollinators at OUAT, Bhubaneswar.



Training Program on 'Honey Bee Farmer'

On April 26, 2023, a skill development training program on the theme 'Honey Bee Farmer' took place at the apiculture unit of the medicinal and ayurvedic garden. The training program was conducted by Dr. Seema Tripathy from the Department of Entomology, Faculty of Agriculture, and was encouraged by Mr. Ajay Rout, Head of the Skill Development Center at SSU. A skilled apiarist was invited to provide a demonstration on honeybee colony division and multiplication. The program aimed to sensitize students about monitoring bee hives and their management in different seasons.



Training Program on 'Comb Honey Production'

A Training cum Awareness programme on “Comb honey production” was organized by the Department of Entomology, Faculty of Agriculture, Sri Sri University (SSU), Cuttack, Odisha on 29th April 2023. The program was conducted under the Farmers' Club of SSU aiming to sensitize participants about the technique of comb honey production and its relevance in today's generation. The chief delegates for the event included Dr. Chitta Ranjan Satapathy, ICAR Emeritus Scientist, Former Professor (Entomology) and Principal Investigator, AICRP on Honeybees and Pollinators, OUAT, Bhubaneswar, Prof. (Dr.) Bisnu Prasad Dash, Director, IQAC, and Prof. (Dr.) S. Kumaraswamy, Dean, Faculty of Agriculture at SSU



Study Tour to 'Maa Mati Farm'

On May 4, 2023, Mrs. Bidusi Tripathy and Dr. Susmita Das from the Faculty of Agriculture organized a study tour for students to Maa Mati Farm located in Puri. The purpose of the visit was to explore the farm's operations, understand sustainable farming practices, and assess its impact on the local community.



Educational Tour to 'Centre of Excellence, Deras

Dr. Sandeep Rout organized an educational tour for BSc. (Hons) Agribusiness students to the Centre of Excellence in Deras, Bhubaneswar, on May 10, 2023.



Educational Tour 'Indian Institute of Water Management (IIWM)

An educational tour to the Indian Institute of Water Management (IIWM) was organized for BSc. (Hons) Agribusiness and BSc. (Hons) Horticulture students. The tour was led by Dr. Prajjal Dey and Dr. Susmita Das, along with supporting faculty members, including Dr. Udit Nandan Mishra and Dr. Bidusi Tripathy.



Educational Tour to CIFA, Bhubaneswar

An educational tour to ICAR-Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar, was organized for students



Educational Tour to MGM Greens, Bhubaneswar

An educational tour to MGM Green was organized for students of the Faculty of Agriculture.



LMS program

A Learning Management System (LMS) session on the course "Soil Water and Engineering" was conducted by Dr. DK Dwivedi on January 17, 2023.

Student Ready Programs

The final year students of the Faculty of Agriculture actively participated in various activities as part of the Students Ready Programs, including KUS (Krishi Uhnati Sammelan), AIA (Annual Industry Attachments), etc., as integral components of the curriculum

Types of activities	Duration
Orientation	27.06.2022 – 09.07.2022
Village Attachment	11.07.2022 – 02.09.2022
KUS	05.09.2022 – 05.11.2022
Agro-Industrial Attachment	06.11.2022 – 30.12.2022
Report Preparation and Viva	06.12.2022 – 15.12.2022p

KUS

Between September 5, 2022, and November 5, 2022, final year students were assigned to various government departments to gain insights into the implications of different government programs and policies. Under the Krishi Uhnati Sammelan (KUS) program, four students from the department—Mr. Partha Sarthi Behera, Ms. Elina Rout, Mr.

Juel Mohapatra, and Ms. Svetalina Behera—were recognized and awarded by the Government of Odisha for their efficiency and hard work during this period.



Agro-Industrial Attachment (AIA)

As part of the curriculum, the final year students of the Faculty of Agriculture were attached to 18 agro-based industries to provide them with practical exposure. This attachment period took place from November 6, 2022, to December 30, 2022.





List of associated organizations for AIA

S. No.	Name of the companies	Sl. No.	Name of the companies	Sl. No.	Name of the companies
1	Kasam	7	Siba Shakti Enterprises	13	Gurukripa
2	Birjhora Tea	8	Lall Jagatsinghpur	14	Bharat masala
3	Omfed	9	Vachan Dairy	15	Divya Multigrains
4	Maa Annapurna Mills	10	Murkara Biscuit	16	Kalinga Mushroom, Pipili
5	Odisha State Seed Corporation	11	Central Cattle Breeding	17	Ruchi masala
6	Kandhamal Appex Spices	12	Unibic	18	Merra Spices

Experiential Learning Program (ELP)

The final year students were actively involved in the Experiential Learning Program (ELP) as per the course curriculum. This program was conducted in two modules: Module 1 from December 27, 2022, to March 15, 2023, and Module 2 from March 16, 2023, to May 15, 2023. The modules included various aspects such as ELP-401: Production technology for Bio-fertilizer and Bio-Pest; ELP-406: Organic Production Technology; ELP-402: Mushroom Cultivation Technology; ELP-403: Commercial Bee Keeping; ELP-404: Commercial Horticulture; ELP-405: Post-harvest Management and Value addition of Horticultural crops.



Trainings for Laboratory Assistants

A training program for newly joined Laboratory Assistants at the Faculty of Agriculture was organized from July 3 to July 5, 2023.



A brief note on any other significant activities of the faculty

Patents awarded

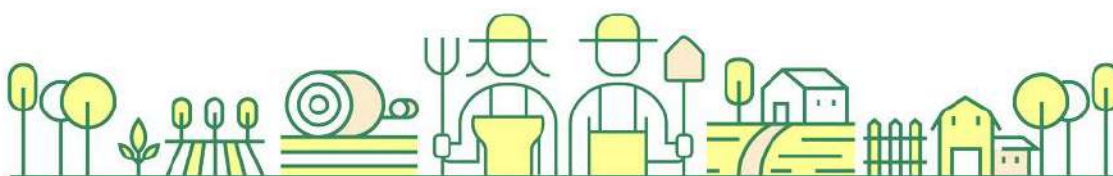
Congratulations to Dr. Susmita Das, Dr. Sanjeeta Biswas, and Dr. Devegowda SR of the Faculty of Agriculture. The Patent Office, Government of India, awarded Certificate of Registration of Design No. 380508-001 for the design "Solar Biomass Integrated Crop Dryer" on March 1, 2023.

Research Proposals

S. No.	Title of the proposal	Organization	Budget	Faculty members	Status
1	Source-to-Sink spatio-temporal variability in sediment fluxes and their control on coastal sediment dispersal systems in Gujarat	Ministry of Earth Sciences, Government of India.	10 lakhs	Dr. Rachna Chandra	Ongoing (since 16.09.2022)
2	Exploring Consumer Buying Behaviour for Finger Millet Products in Odisha	ICSSR, Government of India.	9.32 lakh	Dr. Shubhaom Panda, Dr. Sanjeeta Biswas, Dr. Susmita Das, & Dr. Suchismita Jena	Submitted (10.07.2023)
3	Development of natural farming practices for tomato and okra in coastal Odisha with special reference to pest management	OSHEC, Government of Odisha	10.58 lakhs	Dr. Seema Tripathy	Submitted (30.09.2023)
4	Identification and Characterization of High-temperature Responsive Genes in Hot Pepper (<i>Capsicum annuum</i>)"	Department of Science and Technology (DST), Government of India.	60 lakhs	Dr. Mahipal Singh	Submitted (31.10.2023)
5	Climatic Influence on Finger Millet (<i>Eleusine coracana</i>) Landraces of India to assess both Productivity and Biomolecules of Pharmaceutical and Nutritional Importance	Department of Science and Technology (DST), Government of India.	30 lakhs	Dr. Mahipal Singh	Submitted (30.11.2023)

Salient accomplishments

FDP/STTP/Workshops/Seminars organized	7
Publications	SCOPUS: 42; Web of Science (6); UGC CARE (6); NAAS (11); Peer Reviewed (5); (Edited Books (3); Book Chapters (14); Popular Articles (3); Conference Proceedings (1)
Patents/ copyrights/Industrial Designs Published	12
FDP/STTP/Workshops/Seminars attended	21
Awards received outside SSU	16



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