

ANNUAL REPORT 2023-24

The Annual report for the year of 2023-24 consists of reports from various academic departments of SVU



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ANNUAL 2023 REPORT 2024



Swami Vivekananda University (SVU) has emerged as a premier institution in West Bengal since its establishment in 2019 under the Regent Education and Research Foundation (RERF). As part of the esteemed Swami Vivekananda Group of Institutes, SVU offers a wide array of programs spanning science, engineering, technology, management, and more, aligning with Swami Vivekananda's vision of holistic education. SVU's mission is to fuse Eastern values with Western knowledge, emphasizing character-building alongside academic excellence. The university is committed to innovation and entrepreneurship, echoing the aspirations of its Hon'ble Chairman for excellence in education.



Formally recognized by the State Legislature of West Bengal and accredited by the University Grants Commission (UGC), SVU upholds rigorous quality standards through its Internal Quality Assurance Cell (IQAC). Located in Barrackpore, SVU's sprawling 12-acre green campus boasts state-of-the-art facilities, including smart classrooms, well-equipped laboratories, a central library with an extensive collection, and recreational amenities like a gymnasium and swimming pool. With over 2000 students enrolled across various programs and a focus on industry-relevant curriculum, SVU is poised to excel as a center of academic excellence and innovation.

In defining our mission, vision, and goals, we lay the foundation for our organization's purpose, direction, and aspirations. These guiding principles serve as the compass that steers our actions, shapes our decisions, and fuels our collective efforts toward meaningful impact and sustainable growth. Through clarity of purpose and steadfast commitment, we endeavor to inspire, innovate, and make a positive difference in the world we serve.

VISION

To transform the University into a globally recognized institute of excellence with tripartite wellspring relational objectives centered on learning, innovation, and entrepreneurship.

MISSION

- As a skill-oriented university, to instill skills in every student for their growth and sustainability.
- To prepare students as the next generation of leaders with human values and social responsibilities.
- To create an innovative, learning-centric environment with optimal knowledge transfer.
- To escalate innovation, startups, and entrepreneurship towards self-reliance.





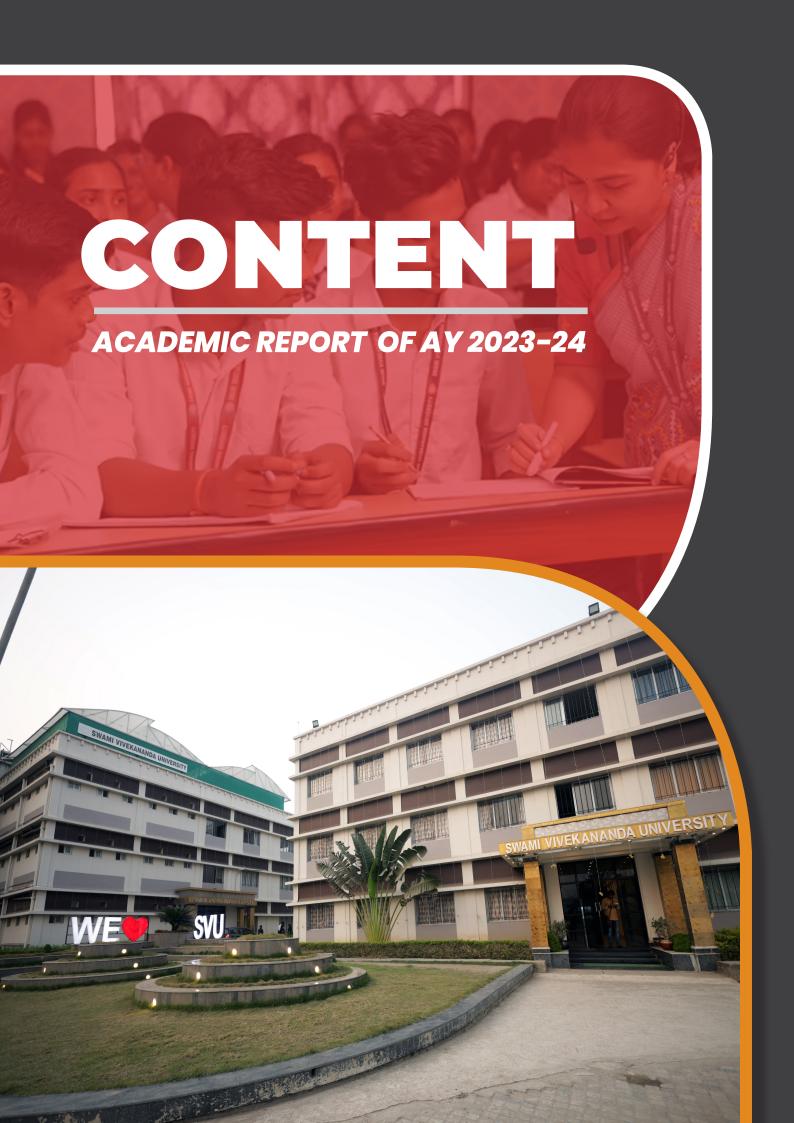


GOAL

Driven by a commitment to **excellence, innovation, and entrepreneurship**, our overarching goals embody our dedication to fostering a dynamic learning environment, empowering students to thrive as creative thinkers, problemsolvers, and leaders in their respective fields.

Act on the educated young men, bring them together, and organise them.

- Swami Vivekananda



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Dr. Nandan Gupta

Hon'ble Chancellor Swami Vivekananda University



MESSAGE FROM

THE CHANCELLOR'S DESK

The world as we know now and as we knew back in 20th century has changed tremendously. The upcoming of life changing technologies and different fields that are now open to academic research and employment as made one thing sure that knowledge will be the key to everything that has to come and will be highly sought after has it has the power to change anything and everything. We believe that Education is not preparation for life. Education is life itself. We believe that in professional as well as personal life that we all have, we have to learn how to educate ourselves always, develop and evolve ourselves in a better way. We have to learn how to be responsible towards the society in which we live and to promote it towards growth. At SVU, we not only promote the evolution of individual but also the growth of society as a whole.

AT SWAMI VIVEKANANDA UNIVERSITY, WE BELIEVE EDUCATION IS LIFE ITSELF. WE FOSTER INDIVIDUAL AND SOCIETAL GROWTH THROUGH CONTINUOUS LEARNING, HIGH MORAL VALUES, AND CREATIVITY. BY PROVIDING THE RIGHT ENVIRONMENT AND STATE-OF-THE-ART FACILITIES, WE ENSURE OUR STUDENTS EXCEL, AND IN TURN, WE EXCEL WITH THEM.

We have to realize that education alone is not sufficient and so we train our students in regions of respect for the society, Having High Morales, Personality Development, Creativity etc. These are some things which are very important in long run. We realize that right environment is equally important in making a student learn and grow and so at SVU we aim at creating that right environment for students by giving them the proper facilities they need to grow. We also regularly tie up with industries and companies to provide our students with excellent opportunities to work and learn with industry experts. We leave no stone unturned when it comes to providing the state of the art Education to our students. As we believe that when our students excel we excel.



Mr. Saurabh Adhikari

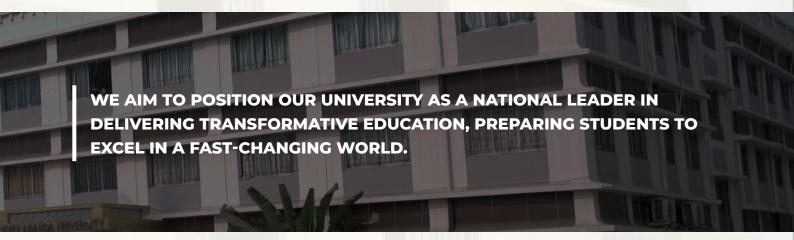
Hon'ble Chief Operating Officer Swami Vivekananda University



MESSAGE FROM

THE CHIEF OPERATING OFFICER'S DESK

It is a great privilege and honour to be a part of the mission to make "Swami Vivekananda University" a name to reckon within the academic fraternity by giving a strong impetus to creating an environment of knowledge, application and holistically inspiring youth to become leaders of tomorrow. I believe that the rigours of the contemporary world will require knowledgeable professionals who could withstand the dynamics of the fast-changing world. It is a great privilege and honour to be a part of the mission to make "Swami Vivekananda University" a name to reckon within the academic fraternity by giving a strong impetus to creating an environment of knowledge, application and holistically inspiring youth to become leaders of tomorrow. I believe that the rigours of the contemporary world will require knowledgeable professionals who could withstand the dynamics of the fast-changing world. Hence "Making a Difference in the Life of Every Student" is the Priority of my administration. We look forward to a deep engagement with Students, Industry, Faculty, and Community to position Andhra university as the national leader in delivering value to its students and offering a transformative educational and life experience. The COO's office works collaboratively across the University to ensure that every student has the best possible education and experience. In



the journey, there will be tough times and there will be easier ones, but we shall work hard with no regrets, and be victorious. The University faculty are here to be the mentors and facilitators to help the students in all round progress. The parents are here to understand the strength and weaknesses of their wards and encourage them, in choosing a study of their passion. The students are here to understand that the rules and regulations in the university are put in a place to help them in achieving dreams. There must be an aspiration to excel and serve the society, and hence there must be measuring standards. We the faculty and students as a University must excel and set standards to impact society and future generations.Let's move ahead with a clear line of action to excel in academics, fortify our research initiatives through quality publications, strengthened industry - institute interactions, product development, Start-Up ventures and honestly contributing for the upliftment and growth of people and humanity at large. Our challenge is to help to generate ideas that will benefit society, and to educate and train people to work in fields where they will be valued both for their knowledge, and for their ability to research, communicate and solve problems. I offer my best wishes to all students, faculty and staff to grow and excel in this challenging and competitive era and reach the pinnacle of success.



Hon'ble Vice Chancellor Swami Vivekananda University



MESSAGE FROM

VICE CHANCELLOR'S DESK

Its indeed a privilege to be at the forefront of an emerging university, our SVU. It is a matter of pride and satisfaction that ever since the inception in 2020, SVU has been striving for excellence in Higher Education, Research and Extension activities. Gratitude to the guidance of Hon'ble Chancellor and thanks to the efforts of our Colleagues for flourishing the University's Undergraduate, Postgraduate, and Doctoral Programmes in the areas of Engineering, Management, Agriculture, Computer Science, Life Sciences, Allied Health Science, Humanities and Social Sciences.

Our research programs range across all disciplines and total commitment is essential to achieve the goals. As we look to the future, one thing is certain - technology and knowledge will be key resources, most sought after within the country and around the world. Therefore, it is our paramount duty to help generate ideas that will benefit society, and to educate and train people to work in fields where they will be valued for their specialized knowledge. Our acumen to research, communicate and solve issues is



to be improved upon from time to time. To meet these challenges, alliances with research institutions, partnership with Government and other agencies are to be undertaken expeditiously. We should leave no stone unturned to ensure the quality of our academic programs and excellence of our teaching, learning and research.

This is the byproduct of dedication and concerted efforts from all corners. In the rapidly evolving society of today, it has become more important than ever for the University to adapt, evolve and be the cornerstone of creating knowledge. The excellence of the University has always come from the individual strengths of our extremely diverse members. With many more miles to go, let us shoulder the responsibility and work together to take this institution to greater heights.

In the words of Helen Keller, "Alone we can do so little, together we can do so much."



Prof. (Dr.) Pinak Pani Nath

Hon'ble Registrar Swami Vivekananda University



MESSAGE FROM

REGISTRAR'S DESK

We have pleasure in welcoming you to Swami Vivekananda University, Barrackpore. The University is striving hard to have qualitative improvement in the level of education, environment and economy of this region. The university has a visionary mission to contribute in multidimensional growth and development of the region in general and holistic development of the students in particular. We hope that the inspiring students, under the guidance of dedicated teachers and a far-sighted leadership of the top administration would lead this University to a coveted and recognized position in the galaxy of higher education in the country.

Swami Vivekananda University's aspiration is to be a world class centre of excellence in training, research and innovation in cutting edge technologies. We are in the sincere process of creating a positive image whereby our name becomes synonymous with excellence, innovation, honour, integrity and outstanding quality and service. Always we will keep our vision goal focused ensuring to reach greater heights in the days ahead. As we embark on developing the University, all the dedicated personnel at SVU need to be unswerving in defending our vision. We shall focus on the



individuals' strengths and use their strengths in a very goal-directed niche within our institution.

The University offers an array of subjects that cater to the capabilities of different individuals at various levels of education.

Our primary objective is to enrich and support the individual in his/her endeavour towards the attainment of knowledge and wisdom, as well as to apply that knowledge in coherence with the aims and ambitions of the individual in particular and for the greater good of human kind in general. Industries and renowned institutions are always welcome to collaborate for R & D activities with faculty members and research scholars. As regards to the students who are our main stakeholders, we look forward to a healthy working relationship where dialogue becomes the pillar of our understanding. We remain open to your deserved needs and not demands and our focus will be to make you all-round graduates ready for the market and responsible citizens of this great country.

I assure you the best possible academic, administrative and research atmosphere in the campus.

ABOUT DEPARTMENT:

The department of Mechanical Engineering has a vision to emerge as an excellent centre of skill-based learning in Mechanical Engineering to develop professionals who are technically competent, ethical and capable of addressing the changing societal needs with credibility. The department offers up to date curriculum with a focus to cater the overall anticipation of industry and academia. In addition to curriculum courses, the department contributes to skill-based training, value added courses, guest lecture by industry experts, industrial visits and various add on activities for the students to make them future ready technocrats of academia & industry. The department has perfect blend of Industry-academia environment which develops students with practical hands-on sessions offering a dynamic teaching program for creating a vibrant and successful community of professionals who can develop both concepts and skills essential for the design, analysis, manufacturing, and maintenance of various kinds of mechanical systems and machinery. The Department is dedicated to conducting high-quality research in the field of cuttingedge technologies, innovative products, and solutions that hold the potential to make a significant impact on society, the economy, and various industries. Since the University's establishment in 2020, the department has consistently demonstrated its dedication to conducting exceptional research, yielding noteworthy outcomes in the form of numerous publications in reputable journals and granted patents. At present, the Department of Mechanical Engineering has a Center of Excellence in partnership with Bosch Rexroth and has set up a state-of-the-art research laboratory known as the Material Development and Characterization Lab, equipped with NABLcertified instrumentation. Our department boasts a team of dedicated Master's and Ph.D. scholars, along with esteemed faculty members, actively engaged in research pursuits spanning a range of fields, including Hydrogen Engine technology, Biomaterial development, vibration analysis, additive manufacturing, and gas turbine research. Several of these research endeavors involve collaborations with renowned institutions such as Rowan University in the USA, Jadavpur University, BITS Pilani, Aliah University, CMERI, and NIT Durgapur. We are constantly enhancing our research infrastructure and facilities, aiming to position ourselves as a distinguished center for research in the near future. We are committed to work in emerging areas and developing sustainable technologies & innovations to shape the future of Mechanical Engineering and allied sectors.

FACULTY DETAILS



Dr. Ranjan Kumar Associate Professor & HOD

Research Area: Li-ion batteries, Hydrogen engine, Aerospace structure, Material cracks, Bio Materials, Vibration



Dr. Md. ErshadAssistant Professor

Research Area: Advanced materials, Composites, and Additive Manufacturing



Dr. Suresh Gain Assistant Professor

Research Area: Solid state welding, Additive manufacturing, Composite materials



Mr. Soumak Bose Assistant Professor

Research Area: Manufacturing Process, Weld Cladding, Surface treatment, Corrosion resistance properties



Mr. Abhishek Poddar Assistant Professor

Research Area: Nano Materials, Nano fluidics, Thermal analysis etc.



Dr. Ranjan Kumar Professor

Research Area: Tribology, Machining



Dr. Samrat BiswasAssistant Professor

Research Area: Fluid Mechanics, Aerodynamics, Turbulence



Mr. Soumya Ghosh Assistant Professor

Research Area: Thermal Engineering & Fluid Mechanics



Mr. Sayan Paul Assistant Professor

Research Area: Thermal, Design CFD



Dr. Ravi NigamAssistant Professor

Research Area: Vibration, Failure analysis, Structural health monitoring



Dr. Arnab Das Assistant Professor

Research Area: Micromachining, Ultra-precision machining, Advanced manufacturing technology, Composite materials, Li-ion batteries



Mr. Arijit Mukherjee Assistant Professor

Research Area: Wire Arc Additive Manufacturing, Advance Machining



Mr. Suman Kumar Ghosh Assistant Professor

Research Area: Manufacturing Technology, Thermo- fluid

PUBLICATIONS

a. Journal

- Ranjan Kumar, Saikat Chaterjee, Vinayak Ranjan, Sanjoy K. Ghoshal [2023], "Simulation Studies on Combined Effect of Variable Geometry, Rotation and Temperature Gradient on Critical Speed of Gas Turbine Disc", Multidiscipline Modeling in Materials and Structures, Vol. 19 No. 2, pp. 277-291. (SCI Indexed, Impact factor 3.6). Doi: https://doi.org/10.1108/MMMS-07-2022-0139
- Basma Souayeh, Suvanjan Bhattacharyya, Soumya Ghosh, Huda Alfannakh, Mir Waqas Alama, Biswajit Halder [2024] Effects of a novel hybrid turbulator tape on the thermohydraulic performance and irreversibility of a solar air heater, Case Studies in Thermal Engineering. (SCI Indexed)

Doi: https://doi.org/10.1016/j.csite.2024.104132

3. Ravi Nigam, Ramnivas Kumar, Sachin Kumar Singh [2024], Numerical and experimental investigation on crack detection in a beam using maximal overlapping discrete wavelet transform, Structural Health Monitoring.

Doi: https://doi.org/10.1177/1475921723121493 (SCI Indexed)

4. Chandan K. G., Patil Mallikarjun B., Soumya Ghosh & Suvanjan Bhattacharyya [2024] Entropy analysis for two-dimensional double-diffusive mixed convective flow of a Williamson nanofluid through a porous medium. Numerical Heat Transfer, Part B: Fundamentals. (SCI Indexed)

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- 5. Joydip Naskar, Ranjan Kumar, Somnath Das, Nilanjan Roy, Sayan Paul [2023], Experimental investigation of cutting parameters during laser beam machining of aluminum alloy 7075, Materials Today: Proceedings- In Press (Scopus Indexed). Doi: https://doi.org/10.1016/j.matpr.2023.03.194
- 6. Joydip Kumar Mondal, Somnath Das, Ranjan Kumar and Mriganka Maity [2023], Multicriteria decision-making process for position analysis in FDM 3D printed objects, Materials Today: Proceedings- In Press (Scopus Indexed).

Doi: https://doi.org/10.1016/j.matpr.2023.02.292

7. Sudip Chakraborty, Madhujit De, Ranjan Kumar and Sudipta Nath [2023], Identification of different features of the reported alternative fuels using Exploratory data analysis (EDA)" Journal of mines, metals & fuels, Vol. 71 (10), pp. 1657-1662 (Scopus Indexed)

Doi: https://doi.org/10.18311/jmmf/2023/35864

8. Priyam Mondal, Ranjan Kumar, Md Ershad [2023], Mechanical properties of CeLa substituted Bio- Glass Ceramics. Journal of mines, metals & fuels, Vol. 71 (10), pp. 1639-1644 (Scopus Indexed)

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- Mriganka Maity, Somnath Das, Ranjan Kumar, Joydip K. Mondal [2023], Experimental investigation for enhancing surface quality in 3D printing technology using non-planar layer method, Lecture notes in mechanical Engineering, pp. 191-200, Springer (Scopus Indexed). Doi: https://doi.org/10.1007/978-981-19-8517-1 14
- Atul, G Divya Deepak, Ranjan Kumar [2024] A Review on the Approach towards Cyber Physical Manufacturing System Architecture for Mining and production industries- Journal of Mines, Metals and Fuels, Vol. 71 (12A), pp. 21-29. (Scopus Indexed). Doi: https://doi.org/10.18311/jmmf/2023/43064
- 11. Ranjan Kumar, Bidyut Ghosh, Ravi Nigam, Arijit Mukherjee, Somnath Das [2024], Optimization of Process Parameters of Gas Metal Arc Welding using Taguchi

Method. Journal of mines, metals & fuels, Vol. 71 (12A), pp. 6-14. (Scopus Indexed)

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12. Md Ershad, Ranjan Kumar, Neeraj Gupta, Arijit Mukherjee, Soumya Ghosh, Apurba Mandal [2024] CoO Substituted Borate 1393B3 Glass Scaffold with Enhanced Metallurgical Performance. Journal of mines, metals & fuels, Vol. 71 (12A), pp. 15-20(Scopus Indexed).

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13. Prashant Kumar Choudhary, Ranjan Kumar, Subodh Kumar [2023], Free Vibration Response of Functionally Graded Porous Metallic Plates Embedded with Piezoelectric Layers, Journal of Mines, Metals and Fuels, 71(10): 1645–1656. (Scopus Indexed).

DOI: https://doi.org/10.18311/jmmf/2023/35867

14. Sudipta Nath, Ranjan Kumar, Shahanwaz Khan, Somnath Das and Vinayak Ranjan [2023], A review on performance and emissions of a compression ignition engine powered by hydrogen-diesel mixtures: effect of operational parameters Journal of Mines, Metals and Fuels, 71(11): 2056-2068 (Scopus Indexed).

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15. Ravi Nigam, Ramnivas Kumar, Nisit Kumar Parida, Ranjan Kumar, Soumya Ghosh, Sayan Paul [2024], Damage Localization in a Beam by Lifting Wavelet Scheme and Photographic based Experimentation. Journal of mines, metals & fuels, Vol. 71 (12A), pp. 153-159 (Scopus Indexed).

Doi: https://doi.org/10.18311/jmmf/2023/43926

- 16. Arijit Mukherjee, Santosh Kumar, Ranjan Kumar, Sayan Paul [2023], Comparative Study of Wear Behaviour of Heat Treated 304 Austenitic and 410 Martensitic Stainless Steel, Journal of Mines, Metals and Fuels, 71(11): 2110-2115(Scopus Indexed). DOI: https://doi.org/10.18311/jmmf/2023/36038
- 17. Neeraj Gupta, MdErshad., & Apurba Mandal. (2023). Metallurgical Behavior and Biocompatibility of Boron Trioxide on the Bioactive Glasses. Journal of Mines, Metals & Fuels, 71(11).(Scopus Indexed).

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- 18. Ravi Nigam, Niraj K Saha, Sachin K Singh, [2024] "Delamination Damage Detection in a Composite Beam Using Discrete Wavelet Transform", Mechanisms and Machine Science (2024), DOI: https://doi.org/10.1007/978-981-99-8986-7_1
- 19. Animesh Roy, Samrat Biswas, Prabir Kumar De, Bireswar Majumdar, Analysis of Vortex Dominated Flow over Double Delta Wing, JMMF, pp-1620-1630(Scopus Indexed)

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 Ranjan Kumar, Sumana Biswas, Somnath Das, Md. Ershad [2023], Experimental Investigation of Welding Parameters On Mild Steel Using Metal Active Gas Welding, Journal of Mines, Metals and Fuels, 71(11): 2078-2083 (Scopus Indexed).Doi: https://doi.org/10.18311/jmmf/2023/36094

b. Books

- Mechanical Engineering in Biomedical Applications: Bio-Materials, Implant Design, Bio-3D Printing, Computational, Tissue & Biofluid Mechanics, [2024] Editors: Ranjan Kumar et al. Publisher: Wiley, USA, ISBN: 978-1-394-17452- (Indexed by Scopus, Web of Science) - Year: 2024, https://scrivenerpublishing.com/cart/title.php?id=882
- 2. Mechanical Engineering Advancements: Current trends and Future Prospects, Swami Vivekananda University (Institutional Publisher) ISBN: 978-81-964878-1-2, Year: 2023
- 3. Recent research advancements in mechanical engineering: Material, Design, and Production, Swami Vivekananda University (Institutional Publisher) ISBN: 978-81-964878-0-5, Year: 2023

c. Book Chapters

- Md Ershad., Ranjan Kumar [2024]. Mechanical Behavior of Bioglass Materials for Bone Implantation. Mechanical Engineering in Biomedical Applications: Bio\(\text{Bio}\)3D Printing, Biofluid Mechanics, Implant Design, Biomaterials, Computational Biomechanics, Tissue Mechanics, 261-275. ISBN: 978-1-394-17452-2 (SCOPUS)
- 2. Ranjan Kumar, Mohammad Shahid Raza [2023] Process monitoring in metal additive manufacturing, Mechanical Engineering Advancements: Current trends and Future Prospects, Swami Vivekananda University (Institutional Publisher) ISBN: 978-81-964878-1-2
- 3. Samrat Biswas, Ranjan Kumar [2023], Sea water desalination and hydrogen generation, Mechanical Engineering Advancements: Current trends and Future Prospects, Swami Vivekananda University (Institutional Publisher) ISBN: 978-81-964878-1-2
- 4. Ranjan Kumar, "Process Monitoring In Metal Additive Manufacturing", Mechanical Engineering Advancements: Current Trends and Future Prospects, Chapter 1, page 15 35, 2023.
- 5. Ravi Nigam, "Damage Detection Analysis In The Beam System: A Technical Review", Mechanical Engineering Advancements: Current Trends and Future Prospects, Chapter 2, page 36 58, 2023.
- 6. Md. Ershad, "Composite Materials: Overview, Processing, And Engineering

- Applications", Mechanical Engineering Advancements: Current Trends and Future Prospects, Chapter 3, page 59 76, 2023.
- 7. Sayan Paul and Soumya Ghosh, "Exploring The World Of 3d Printing Technology", Mechanical Engineering Advancements: Current Trends and Future Prospects, Chapter 4, page 77 103, 2023.
- 8. Samrat Biswas and Ranjan Kumar, "Sea Water Desalination and Hydrogen Generation", Mechanical Engineering Advancements: Current Trends and Future Prospects, Chapter 5, page 104 120, 2023.
- 9. Arijit Mukherjee and Suman Kumar Ghosh, "A Brief Introduction To Wire-Arc Additive Manufacturing Process", Mechanical Engineering Advancements: Current Trends and Future Prospects, Chapter 6, page 121 131, 2023.
- 10. Soumak Bose, "Generation of Electricity Through Speed Breaker", Mechanical Engineering Advancements: Current Trends and Future Prospects, Chapter 7, page 131 143, 2023.
- 11. Ranjan Kumar, "Pioneering Breakthroughs In The Realm Of Internal Combustion Propulsion", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 1, page 1 14, 2023.
- 12. Md. Ershad, "Mechanical Properties Of Materials With Biomedical Applications", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 2, page 15 25, 2023.
- 13. Ravi Nigam, "Vibration Based Analysis On Damaged Composite Beams", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 3, page 26 35, 2023.
- 14. Soumya Ghosh, "Advancements in Renewable Energy-Based Cooling Systems: A Comprehensive Review And Future Prospects", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 4, page 36 47, 2023.
- 15. Suman Kumar Ghosh, "Diminutive Abrasive Surface Profiling Apparatus", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 5, page 48 59, 2023.
- 16. Abhishek Poddar, "Advanced Materials Analysis Through X-Ray Diffraction Technique", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 6, page 60 - 76, 2023.
- 17. Samrat Biswas, "Understanding Wind Turbines: Harnessing The Power Of The Wind (Part 1)", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 7, page 77 92, 2023.
- 18. Sayan Paul, "Understanding Wind Turbines: Harnessing The Power Of The Wind (Part 2)", Recent Research Advancements In Mechanical Engineering Material

- Design & Production, Chapter 8, page 93 110, 2023.
- 19. Soumak Bose, "Effect Of Process Parameters And Heat Input On Weld Bead Geometry Of Austenitic Stainless Steel Wire Electrode Using Gas Metal Arc Welding", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 9, page 111 – 122, 2023.
- 20. Arijit Mukherjee, "Exploring Advanced Materials: In-Depth Analysis Using X-Ray Diffraction Methodology", Recent Research Advancements In Mechanical Engineering Material Design & Production, Chapter 10, page 123 137, 2023.

d. Patents

- "Pin electrode based plasma jet", Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application Number 202341004118A].
- 2. "Fabrication and design of the 360-degree rotating vehicle" Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202331022706A]
- 3. "Solar powered Automatic Tobacco/non tobacco products Vending Machine" Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202431024111 A]
- 4. "Hydraulic ram pump system for water lifting in hilly region" Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202231035645A]
- 5. "Plastic-Based Composite for Concrete Production", Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202331055315A]
- "Transformation of Dairy Byproduct into Sustainable Biodegradable Material". Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202431028476A]
- 7. "Intelligent Autonomous Wheel Driven Sprayer System for Precision Agriculture". Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and

- Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202431028477]
- 8. "Fabrication and design of the Solar Air Cooler", Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202331057258A]
- "Automatic Electromagnetic Brake Using Ferromagnetic Material Scrap", Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202331057359A]
- 10. "Power generation using Speed Breaker", Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202331054862A]
- 11. "Mini Blet grinder", Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202331054863A]
- 12. "Solar Air Heater", Intellectual Property India, Office of the Controller General of Patents, Design and Trade Marks, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India. [Patent Application No: 202431028487]

e. Conference Publications

- [1] Ranjan Kumar et al., Optimization of Process Parameters of Gas Metal Arc Welding Using Taguchi Method. Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023), Swami Vivekananda University, Barrackpore, West Bengal, India. September 28-30, 2023.
- [2] Ranjan Kumar et al., Experimental and numerical analysis of tool wear in single point cutting tools. Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023), Swami Vivekananda University, Barrackpore, West Bengal, India. September 28-30, 2023.
- [3] Ranjan Kumar et al., Analysis of MRR and Surface Roughness Modeling in Stainless Steel Using Response Surface Methodology. Proceedings of the International Conference on Integrative Science and Engineering (ICISE-2023), Swami Vivekananda University, Barrackpore, West Bengal, India. September 28-30, 2023.
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- [101] Suman Kumar Ghosh, Sayan Paul, Samrat Biswas, Soumya Ghosh, Abhishek Poddar, Soumak Bose, "Analysis of Turbulent Eddy Dissipation for Flow Field around Horizontal Axis Wind Turbine Blade", Proceedings of the International Conference on Engineering Design and Computing (ICEDC-2024), Swami Vivekananda University, Barrackpore, West Bengal, India. February 22-24, 2024.
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f. Project submission for funding to Government agency

- Dr. Ranjan Kumar, Project titled "Sustainable Treatment, Reuse and Management of electronic Waste (e-waste) plastics into Value-Added Efficient, Affordable and Synergistic Construction Materials. Submitted to SERB-SUPRA. (Reference Id: SPR/2023/000129 Status: Accepted for Evaluation)
- Dr. Ranjan Kumar, Dr. Ravi Nigam, Project titled "Detection and localization of faults in industrial rotor system". SERB-SURE (Reference ID: SUR/2023/005259)
- 3. Dr. Ranjan Kumar, Dr. Arnab Das, Mr. Riki Biswas, Project titled "Enhancing electronic performance of Li-ion batteries exploiting sustainable advancements of Lithium Vanadium Phosphate cathode". Submitted to Department of Science and Technology (DST), New Delhi. (Reference ID: Registration No.: TPN / 110068 Status: Accepted for Evaluation)

5. Activities (Seminar, Conference & Workshop)

- International Conference on Integrative Science and Engineering (ICISE)
 -28-30September, 2023
- 2. 2nd International conference on Engineering Design and Computing (ICEDC) 22-24 February, 2024
- 3. Organized, SVU Innovation 2023: A Magnificent Showcase of Creativity and Ingenuity
- 4. Organized Tech Fest in association with IIT Kharagpur.
- 5. Organized Engineers Day Celebration in association with Institution's Innovation Council (IIC)
- 6. Workshop on the Expansive Scope of Modeling in Collaboration with Genex Engineering & Management Solutions.
- 7. Active participation on Ministry of Education and AICTE sponsored national event "Innovation, Design and Entrepreneurship (IDE) Boot Camp.
- 8. Organized Techno Mania & Project Exhibition cum competition.
- 9. Summit school visit to 3D printing lab and Advance manufacturing lab.
- 10. Organized a Workshop on Entrepreneurship Awareness Programme:
- 11. Organized Vikshit Bharat Sampark awareness programme in association with NSS team.

6. Achievements of the Department

- Department has commenced a new Journal entitled with Journal of Mechanical Engineering Advancements
 Weblink: https://www.swamivivekanandauniversity.ac.in/jmea/
- 2. Centre of Excellence (Hydraulics) in association with BOSCH Rexroth.
- Industry Collaboration with Astram Technologies, South Africa.
- 4. Industry Collaboration with efficient CNC.
- 5. Industry Collaboration with Pointo.
- 6. Industry Collaboration with Bosch Rexroth (A MNC Company)
- 7. Industry Collaboration with KYB Motorcycle Suspension India Pvt. Ltd. (A MNC Company)
- 8. Industry Collaboration with Dhoot Transmission, Aurangabad.
- 9. Academic Collaboration with IIT Kharagpur (Virtual Lab Project)
- 10. Academic Collaboration with Aliah University, Kolkata.
- 11. Student Chapter establishment with The Institution of Engineers.
- 12. Collaboration with Tata Strive.
- 13. Establishment of Centre of material testing and characterization (NABL Certified Instrumentation)
- 14. Establishment of Centre of advanced manufacturing.



ABOUT DEPARTMENT:

Electrical engineering is a fascinating field that revolves around the study of electricity, electronics, and electromagnetism. As an electrical engineer, you'll delve into designing, analysing, and implementing various electrical systems, devices, and technologies. The curriculum covers essential areas such as circuit analysis, power engineering, digital systems, and control systems. These professionals play a crucial role in shaping our world. Whether it's developing communication systems, microelectronics, or power generation solutions, electrical engineers contribute to a wide range of projects. From the initial design phase to system installation and testing, their responsibilities span across diverse industries, including electric power generation, agriculture, research, and control instrument manufacturing. Continuous learning keeps their skills up-to-date, ensuring they meet industry standards and government regulations while addressing consumer needs.

EXTERNAL MEMBERS ON THE BOARD OF STUDIES:

SL.	NAME	DESIGNATION
1.	Dr. Sandip Chanda	Associate Professor, Department of Electrical Engineering, GKCIET
2.	Dr. Abhinandan De	Associate Professor, Department of Electrical Engineering, IIEST, Shibpur
3.	Dr. Subhra Jana	Assistant Professor, CEM, Kolaghat
4.	Dr. Pritam Kumar Gayen	Assistant Professor, Kalyani Govt. Engineering College

FACULTY DETAILS



Abhishek Dhar
Associate Professor & HOD

Research Area: Renewable
Energy Sources, Smart Metering



Dr Rituparna Mitra
Professor

Research Area: Power quality,
Electricity Markets, Electric
distribution systems



Avik Dutta
Assistant Professor
Research Area: Power System



Titas Kumar Nag
Assistant Professor
Research Area: Renewable arid integration



Assistant Professor

Research Area: Power
Electronics, Renewable
Energy, Hybrid Electric
Vehicle, Solar Technology

Promit Kumar Saha



Dr. Rituparna Mukherjee Assistant Professor Research Area: Power system protection



Suvraujjal Dutta
Assistant Professor

Research Area: Power system



Susmita Dhar Mukharjee Assistant Professor Research Area: Power system



Arunima Mahapatra
Assistant Professor
Research Area: Power



Sujoy Bhowmik
Assistant Professor
Research Area: Power
Electronics & Drives



Dr Suryendu Dasgupta
Assistant Professor
Research Area: High

PUBLICATIONS

Conference

- 1. Suvraujjal Dutta , Titash Kumar Nag , Promit Kumar Saha "Optimal PMU Placement Methods in Power Systems: A Review of Phasor Measurement Unit Integration" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 2. Suvraujjal Dutta, Avik Datta, Rituparna Mitra "HVDC Protection Strategies: An In-Depth Survey and Analysis" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 3. Suvraujjal Dutta ,Papun Biswas, Sandip Chanda "Enhancing Power System Reliability: Three-Zone Distance Protection for Transmission Line Contingencies" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 4. Rituparna Mukherjee 'Abhishek Dhar'Saurabh Adhikari "Ensemble Security Predictor based Power System Dynamic Security State Predictor" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)

- 5. Rituparna Mukherjee ,Abhishek Dhar ,Saurabh Adhikari "Power System Transient Stability Analysis using Kohonen Neural Network Security Classifier a Case Study on the IEEE 57-Bus System" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 6. Promit Kumar Saha, Suvraujjal Dutta, Rituparna Mukherjee, Susmita Dhar Mukherjee, Aritras Chakraborty, Rituparna Mitra, Avik Datta, Titas Kumar Nag "A Literature Review on High Gain dc-dc Boost Converter" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 7. Promit Kumar Saha, Rituparna Mitra, Rituparna Mukharjee "A Review on Application of Solar Energy in Agriculture Sector" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 8. Susmita Dhar Mukherjee ,Rituparna Mukherjee ,Suvraujjal Dutta "Review of the growth prospects for renewable energy in several countries" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 9. Susmita Dhar Mukherjee, Rituparna Mukherjee, Rituparna Mitra "A Comparative Review of the Use, Difficulties, and Future of Renewable Energy" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- Arunima Mahapatra "Comprehensive study on-sizing of hybrid renewable-energy. system using traditional methods "International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 11. Arunima Mahapatra "A detailed study on-methods of optimization used in.hybrid renewable-energy system" "International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 12. Arunima Mahapatra "An extensive study on-management methods of.hybrid renewable-energy system" "International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 13. Promit Kumar Saha, Rituparna Mukharjee, Suvraujjal Dutta, Rituparna Mitra, Avik Datta, Titas Kumar Nag "Islanded Microgrid Adaptive Control of Power Electronics Load Considering User Intention" International Conference on Integrative Science and Engineering (ICISE-2023) (Accepted)
- 14. Rituparna Mitra, Avik Datta, Susmita Dhar Mukherjee, Titas Kumar Nag, Promit Kumar Saha, Suvraujjal Dutta "Review on Wind Energy Based Electricity Market Price and Load Forecasting" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 15. Rituparna Mitra, Avik Datta, Titas Kumar Nag, Promit Kumar Saha, Rituparna Mukherjee, Susmita Dhar Mukherjee "An overview on reactive power supervision in deregulated energy markets" Inter-

- national Conference on Engineering Design and Computing (ICEDC-2024) (Accepted)
- 16. Suvraujjal Dutta, Avik Datta, Titas Kumar Nag, Rituparna Mukharjee "Shipboard Power System Intelligent Protection System Design" International Conference on Engineering Design and Computing (ICEDC-2024) (Accepted)
- 17. Suvraujjal Dutta,Avik Datta,Rituparna Mitra,Rituparna Mukharjee"Indian Power System Frequency Analyses" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 18. Suvraujjal Dutta, Avik Datta, Rituparna Mitra, Rituparna Mukharjee "The Method of Operation Condition Assessment and How It Can Be Usefully for Protection Systems" International Conference on Engineering Design and Computing (ICEDC-2024) (Accepted)
- 19. Suvraujjal Dutta 'Avik Datta 'Rituparna Mitra 'Rituparna Mukharjee "An investigation on how variations in PV power generation model parameters affect power systems" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 20. Suvraujjal Dutta ,Titas Kumar Nag , Promit Kumar Saha, Susmita Dhar Mukharjee "Diagnosis of power system protection issues: a few factors of power system transformation" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 21. Rituparna Mukherjee , Susmita Dhar Mukherjee , Abhishek Dhar , Avik Datta , Rituparna Mitra , Promit Kumar Saha "Machine Learning Techniques for Power System Protection from a Utility Perspective" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 22. Rituparna Mukherjee , Susmita Dhar Mukherjee , Abhishek Dhar , Avik Datta , Rituparna Mitra , Promit Kumar Saha "Review of machine learning applications to power systems studies" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 23. Rituparna Mukherjee , Susmita Dhar Mukherjee , Promit Kumar Saha, Abhishek Dhar, Suvraujjal Dutta, Titas Kumar Nag "Power System Relay Protection Technology: Its Development and Use" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 24. Rituparna Mukherjee , Abhishek Dhar, Titas Kumar Nag, Susmita Dhar Mukherjee, Suvraujjal Dutta , Promit Kumar Saha "OPTIMIZATION TECHNIQUES IN POWER SYSTEM: REVIEW" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 25. Rituparna Mukherjee , Abhishek Dhar, Titas Kumar Nag, Susmita Dhar Mukherjee, Suvraujjal Dutta , Promit Kumar Saha "A Practical Approach to Machine Learning Techniques in Power System Protection" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 26. Titas Kumar Nag , Rituparna Mitra, Suvraujjal Dutta, Rituparna Mukherjee , Avik Dutta , Susmita Dhar Mukherjee "Energizing smart grid: An in-depth analysis of energy storage technology and applications

- with integration of renewable energy" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 27. Titas Kumar Nag , Rituparna Mitra, Rituparna Mukherjee , Avik Dutta , Suvraujjal Dutta, Promit Kumar Saha "A evaluation of the integration of renewable energy sources and electric vehicles in the smart grid" International Conference on Engineering Design and Computing (ICEDC-2024) (Accepted)
- 28. An in-depth look at the day-ahead electricity market and important aspects of major global changes in electric power
- 29. Titas Kumar Nag, Rituparna Mitra, Avik Dutta, Rituparna Mukherjee, Promit Kumar Saha, Susmita Dhar Mukherjee "Wind Energy Grid Integration Challenges" International Conference on Engineering Design and Computing (ICEDC-2024) (Accepted)
- 30. Titas Kumar Nag, Rituparna Mitra, Avik Dutta, Rituparna Mukherjee, Suvraujjal Dutta, Susmita Dhar Mukherjee "Renewable energy sources connected to the grid: An overview of the most modern integration specifications and control techniques" International Conference on Engineering Design and Computing (ICEDC-2024) (Accepted)
- 31. Titas Kumar Nag , Rituparna Mitra, Rituparna Mukherjee , Susmita Dhar Mukherjee , Suvraujjal Dutta, Promit Kumar Saha "Applications of grid-scale energy storage in the integration of renewable energy sources: A survey" International Conference on Engineering Design and Computing(ICEDC-2024) (Accepted)
- 32. Sujoy Bhowmik*, Avik Datta, Rituparna Mitra, Suryendu Dasgupta, Arunima Mahapatra "A Review Solar Power in India Present Scenario, Challenges and Opportunities", International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 33. Sujoy Bhowmik*, Suryendu Dasgupta, Avik Datta, Suvraujjal Dutta, Rituparna Mukherjee "A Conceptual Review on Electrical Power Generation" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 34. Sujoy Bhowmik*, Susmita Dhar Mukherjee, Arunima Mahapatra, Rituparna Mitra, Suvraujjal Dutta "Review on Microgrid Technology" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 35. Sujoy Bhowmik*, Rituparna Mukherjee, Rituparna Mitra, Avik Datta, Susmita Dhar Mukherjee "Introduction to Machine Learning" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 36. Sujoy Bhowmik*, Rituparna Mitra, Suryendu Dasgupta, Avik Datta "An Analytical Study of Power System under the Fault Conditions using different Methods of Fault Analysis" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 37. Suryendu Dasgupta, Avik Datta, Rituparna Mitra, Sujoy Bhowmik "A

- Review of Applications of High Voltage" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 38. Suryendu Dasgupta,Rituparna Mitra, Avik Datta,Sujoy Bhowmik "A Review of Partial Discharge Tests Pertaining to DC Applications" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- Suryendu Dasgupta, Avik Datta, Rituparna Mitra, Sujoy Bhowmik "An Examination of Techniques for Partial Discharge Detection and Diagnosis in High Voltage Power Cables" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 40. Suryendu Dasgupta, Avik Datta, Sujoy Bhowmik, Rituparna Mitra "An Examination of the Aging Effectiveness of Polyethylene Insulation Materials Cross-linked with Direct Current" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 41. Suryendu Dasgupta, Sujoy Bhowmik, Rituparna Mitra, Avik Datta "Examining the methods for partial discharge monitoring employed in high-voltage equipment" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 42. Rituparna Mitra, Avik Datta "Study and Investigation of Force Quality for an Electric Power Appropriation Framework Contextual analysis: Moscow Locale" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 43. Rituparna Mitra, Avik Datta "A Look at the Issues with Power Quality and How to Fix Them" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 44. Rituparna Mitra, Avik Datta "Examination of Force Quality Varieties in Conveyed Age Frameworks" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 45. Rituparna Mitra, Avik Datta "A review of the effects of electric vehicle integration on distribution network power quality and the associated mitigation measures" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 46. Rituparna Mitra, Avik Datta "Power Quality Improvement in Power Appropriation Framework: Momentum and Future Patterns in Exploration" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 47. Avik Datta, Rituparna Mitra, Sujoy Bhowmik, Suryendu Dasgupta, Rituparna Mukherjee, Titas Kumar Nag "Thorough Survey on Power Market Cost and Burden Forecasting Using Wind Power" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 48. Avik Datta, Rituparna Mitra, Promit Kumar Saha, Susmita Dhar Mukherjee, Suvraujjal Dutta, Rituparna Mukherjee "Review of Domestic and International Electricity Market Reform" International

- Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 49. Avik Datta, Rituparna Mitra "An Examination of the Electricity Market Architecture" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 50. Avik Datta, Rituparna Mitra "A look at market power in the electricity market that is not regulated" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 51. Avik Datta, Rituparna Mitra "An in-depth look at the day-ahead electricity market and important aspects of major global changes in electric power" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 52. Suvraujjal Dutta, Avik Datta, Rituparna Mitra, Rituparna Mukharjee "Real-Time Power System State Estimation via the Alternating Direction Method of Multipliers" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 53. Suvraujjal Duttal, Sujoy Bhowmik, Rituparna Mitra, Suryendu Dasgupta "Adversarial Deep Learning Techniques Targeting Power System State Estimation" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 54. Suvraujjal Dutta,Promit Kumar Saha,Arunima Mahapatra, Susmita Dhar Mukharjee "Machine Learning Applications to Power Systems" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 55. Suvraujjal Dutta, Sujoy Bhowmik, Rituparna Mitra, Suryendu Dasgupta "PMU Based Real Time Power System State Estimation using ePHASORsim" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 56. Suvraujjal Dutta1,Sujoy Bhowmik,Titas Kumar Nag3, Suryendu Dasgupta4 "DynamicStateEstimationinPowerSystemsUsing Kalman Filters" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 57. Promit Kumar Saha, Rituparna Mukherjee, Abhishek Dhar, Aritras Chakraborty, Susmita Dhar Mukherjee "A Structural Overview of Complex Inverters Based on Main Submodules" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 58. Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha Rituparna Mitra Avik Dutta "Anoverview of the obstacles and problems facing electric cars in India as well as the vehicle to gridoptimization "International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 59. Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha Titas Kumar Nag, Suvraujjal Dutta "An analysis of India's Electric Vehicle Adoption: The Mediating Effect of Attitude "International Conference on Integrative Science and Engineering (ICISE-2024)

(Accepted)

- 60. Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha Sujay Bhowmik, Arunima Mahapatra "Review on Research trends on electric vehicles" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 61. Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha "Industrial Automation System Utilizing PLC" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 62. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha Rituparna Mitra Avik Dutta "An overview of programmable logic controllers' (PLCs') uses" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 63. Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha "An overview of the power systems studies' use of machine learning" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 64. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha Rituparna Mitra Titas Kumar Nag "DETECTION OF TRANSMISSION LINE FAULTS: A REVIEW" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 65. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha Suvraujjal Dutta Titas Kumar Nag "A Review on Fault Detection and Allocation Techniques in Power System" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 66. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha Sujay Bhowmik, Arunima Mahapatra "POWER SYSTEM AND FAULTS: A REVIEW" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 67. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha Sujay Bhowmik, Arunima Mahapatra "A Review on Fault Detection on DC Microgrid" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 68. Titas Kumar Nag "OVERVIEW OF TRANSMISSION CONGESTION MAN-AGEMENT IN DISTRIBUTION NETWORK" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 69. Titas Kumar Nag "AN OVERVIEW ON VARIOUS ATTRIBUTES OF TRANS-MISSION LINE CONGESTION MANAGEMENT" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 70. Titas Kumar Nag "PERSPECTIVES ON TRANSMISSION LINE CONGESTION MANAGEMENT "International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 71. Titas Kumar Nag "OVERVIEW ON RECENT ADVANCEMENT IN TRANS-

- MISSION LINE CONGESTION" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 72. Titas Kumar Nag "SYNOPSIS ON CONGESTION MANAGEMENT FOR DE-REGULATED POWER SYSTEM" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 73. Arunima Mahapatra, Nitai Pal, Ratan Mandal "A Comprehensive Study of Hydrogen Energy: Mechanisms, Technologies, Benefits, Challenges, Applications and Future Prospects" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 74. Arunima Mahapatra, Nitai Pal, Ratan Mandal "An In-Depth Review of Fuel Cells: Operation, Technologies, Applications, and Future Outlook" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 75. Arunima Mahapatra, Rituparna Mukherjee, Suvraujjal Dutta, Sujoy Bhowmik "Advancements and Challenges in Tidal Energy: A Comprehensive Study" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 76. Arunima Mahapatra*, Sujoy Bhowmik, Suvraujjal Dutta, Rituparna Mukherjee "Extensive Study on Magnetohydrodynamics (MHD): Fundamentals, Technologies, Applications, and Future Prospects" International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 77. Arunima Mahapatra, Nitai Pal, Ratan Mandal "Advancements and Challenges in Wave Energy Harvesting: A Comprehensive Review "International Conference on Integrative Science and Engineering (ICISE-2024) (Accepted)
- 78. S. Bhowmik, S. Chowdhury and A. Mitra, "Analysis of Active Power Transfer to Grid from a Specific EV A V2G Technology," IEEE 3rd International Conference on Control, Instrumentation, Energy & Communication (CIEC), Kolkata, India, 25 27 January, 2024, Electronic ISBN: 979-8-3503-1370-3, Print on Demand (PoD) ISBN: 979-8-3503-1371-0, pp. 384-389, DOI: 10.1109/CIEC59440.2024.10468540.
- 79. S. Bhowmik and A. Mitra, "Design of PID Controller for Separately Excited DC Motor and Its Performance Analysis", published in the proceedings of International Conference on Energy, Systems, Drives, Power Electronics, Measurement & Sensors (ESDPEMS 2K23), organized by Department of Electrical Engineering, Narula Institute of Technology (IEEE PES Student Chapter) on 16th and 17th February, 2023, Ideal International E-Publication, 1st edition, Vol. 1, ISBN: 978-93-89817-95-9, pp. 103-107.
- 80. S. Bhowmik, P. K. Gayen and A. Mitra, "Performance Comparison between PI based Control and Model Predictive Control of Voltage Source Inverter under Load Variations," IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), Kolkata, India, 26 27 November, 2022, Electronic ISBN: 978-1-6654-7205-0, Print on Demand (PoD) ISBN: 978-1-6654-7206-7, pp. 344-348, DOI: 10.1109/EDKCON56221.2022.10032916.
- 81. S. Bhowmik, A. Mitra, S. Sarkar, S. Mukherjee, K. Banerjee and P. Dutta, "Design and Performance Analysis of DC-DC Sepic Converter for Specific In-

- put Range," IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), Kolkata, India, 26 27 November, 2022, Electronic ISBN: 978-1-6654-7205-0, Print on Demand (PoD) ISBN: 978-1-6654-7206-7, pp. 6-11, DOI: 10.1109/EDKCON56221.2022.10032921.
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- 85. Mitra, S. Bhowmik and S. Chowdhury, "V/f Control of PMSM Drive fed from PR Current Controller Based Single-Phase AFE Rectifier," IEEE 3rd International Conference on Control, Instrumentation, Energy & Communication (CIEC), Kolkata, India, 25 27 January, 2024, Electronic ISBN: 979-8-3503-1370-3, Print on Demand (PoD) ISBN: 979-8-3503-1371-0, pp. 337-342, DOI: 10.1109/CIEC59440.2024.10468398.
- 86. Mitra, S. Bhowmik, S. Mukherjee, P. Dutta, K. Banerjee and S. Sarkar, "Performance Comparison and Design of Passive Components for DC-DC Buck-Boost, Cuk and Sepic Converter," IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), Kolkata, India, 26 27 November, 2022, pp. 12-17, Electronic ISBN: 978-1-6654-7205-0, Print on Demand (PoD) ISBN: 978-1-6654-7206-7, DOI: 10.1109/EDKCON56221.2022.10032936.
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- 88. S. Bhowmik, D. P. Goswami, and D. Dey, "Cluster formation of HRV in AF patients: a comparison with normal people", 2nd National Conference on Science, Technology and Communication Skills (NCSTCS 2K19), organized by Narula Institute of Technology, 5th April, 2019, ISBN: 978-93-86675-98-9, pp. 59.
- 89. "Three zone distance protection of modern power system with transmission line contingency", International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE 2016).
- 90. Suvraujjal Dutta, Dr. Sandip Chanda, Dr. Papun Biswas, Dr. Abhinandan De, "Development of PMU data-based fault classification in smart electrical power networks", ICTCS 2022, Chandigarh, India.

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- 92. Suvraujjal Dutta, Dr. Sandip Chanda, Dr.Papun Biswas, Dr. Abhinandan De, A Survey on Dynamic state estimation strategies of power system networks, ICICASEE 2023, Malda, India.
- 93. Suvraujjal Dutta, Dr. Sandip Chanda, Dr.Papun Biswas, Dr. Abhinandan De, A Survey on Dynamic State Estimation strategies deployed for protection and control of modern Power Grid, CCSN 2023, Mumbai, India.

Books:

- 1. Advancement of Power Electronics Abridgement with Power Quality Issues ISBN: 978-81-964878-1-2
- 2. Electrical Engineering Developments in Recent Years ISBN: 978-93-340-1849-3
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Book Chapter:

- Arkendu Mitra, Subhra Mukherjee, Pallav Dutta and Sujoy Bhowmik, "Recent Advancements in Power Electronics" has been published in edited book titled "Advances in Electrical Engineering (Volume -7)", ISBN: 978-93-6135-603-2, by AkiNik Publications.
- 2. Subhra Mukherjee, Arkendu Mitra, Kamalika Banerjee and **Sujoy Bhowmik**, "**Different Types of Solar Photovoltaic Cells along with Recent Developments in Perovskite Materials**" has been published in edited book titled "Advances in Electrical Engineering (Volume 7)", ISBN: 978-93-6135-603-2, by AkiNik Publications.
- 3. Mitra, **S. Bhowmik**, A. Halder, S. Karmakar and T. Paul, "**Performance Analysis of Series Load Resonant (SLR) DC-DC Converter**", Power Converters, Drives and Controls For Sustainable Operations, Scrivener Publishing, WILEY, Chapter 5, ISBN 978-11-19791-91-1, pp. 149-158, 23rd June, 2023, DOI: https://doi.org/10.1002/9781119792918.ch5.
- 4. Bose, A. Mitra, S. Mukherjee, **S. Bhowmik**, "**Solar Tracking System to Harvest Photovoltaic Energy with Higher Efficiency**", published in the edited book on Emerging Technology & Management Trends in Environment and Sustainability (EMTES-2022), CRC Press, Taylor & Francis Group, Chapter 9, ISBN: 978-1-032-41095-1 (pbk), ISBN: 978-1-003-35623-3 (ebk), pp. 93-101, 26th May, 2023, DOI: https://doi.org/10.4324/9781003356233.
- 5. Suvraujjal Dutta, Dr. Sandip Chanda , Dr.Papun Biswas, Dr. Abhinandan De (31 May 2023). "Development of PMU Data-Based Fault Classification in Smart Electrical Power Networks". In: Joshi, A., Mahmud, M., Ragel, R.G. (eds) Information and Communication Technology for Competitive Strategies (ICTCS 2022). ICTCS 2022. Lecture Notes in

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Research Papers

- Rituparna Mukherjee, Abhinandan De, Promit Kumar Saha, Susmita Dhar Mukherjee, Abhishek Dhar, Saurabh Adhikari, <u>A Convolutional Neural Network based Pattern Classification Approach for Dynamic Security Assessment with Inadequate Energy Sources</u>, <u>Journal of Mines</u>, <u>Metals and Fuels</u>: <u>Volume 71</u>, <u>Issue 12A</u>, <u>2023</u>
- 2. Rituparna Mukherjee, Abhinandan De, Promit Kumar Saha, Susmita Dhar Mukherjee, Abhishek Dhar, Saurabh Adhikari, <u>Power System Transient Stability Analysis using Decision Tree Classifier- A Case Study on the IEEE 57-Bus System</u>, <u>Journal of Mines</u>, <u>Metals and Fuels: Volume 71</u>, <u>Issue 12A</u>, 2023
- 3. Susmita Dhar Mukherjee, Abhishek Dhar, Saurabh Adhikari, Rituparna Mukherjee, Suvraujjal Dutta, Promit Kumar Saha, <u>A Review on Electric Vehicles and Renewable Energy Synergies in Smart Grid</u>, <u>Journal of Mines</u>, <u>Metals and Fuels: Volume 71</u>, Issue 12A, 2023
- 4. Mahapatra, A., & Pal, N. (2024). Comprehensive Study on Sizing of Hybrid Renewable Energy System Using Commercial Software. *Journal of Mines, Metals and Fuels*, 71(12A), 47–53. https://doi.org/10.18311/jmmf/2023/43192
- 5. Das, P., Mitra, R., Dey, B., Das, S., Pal, B., Sasmal, M., Upadhaya, D., Roy, G., Pandey, A., & Roy, B. (2024). A Review on Techniques of Power Transmission Lines Congestion Management in Deregulated Electricity Market. *Journal of Mines, Metals and Fuels*, 71(12A), 394–397. https://doi.org/10.18311/jmmf/2023/43065
- 6. A. Mitra, S. Das, **S. Bhowmik** and S. Chowdhuri, "Performance Improvement of Three-Phase AFE Rectifier During Switching of Loads with Fractional Feedback Current Control," Sādhanā Journal, Vol. 49, No. 203 (2024) Springer (SCIE), I.F = 1.6.
- "Design and Development of Three-Zone Distance Relay Protection Scheme at MATLAB Platform" ISSN 2250-2106, published in Journal(SCOPUS) of The Institution of Engineers (India): Series B in 2nd Nov 2020.

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

- International Conference on Engineering Design and Computing (ICEDC)-2023- 27th-28 January 2023
- International Conference on Integrative Science and Engineering (ICISE-2023)
- 3. International Conference on Engineering Design and Computing (ICEDC)-2024)
- 4. International Conference on Integrative Science and Engineering (ICISE-2024)



DEPARTMENT OF BIOTECHNOLOGY

ABOUT DEPARTMENT:

The Department of Biotechnology at Swami Vivekananda University, established in 2019, has consistently aimed to position itself as a department of excellence, bridging academia and industry. With a distinguished and competent faculty, the department strives to instill the latest tenets and trends of modern biotechnology in its students, encouraging them to dream. The department's comprehensive laboratory facilities serve undergraduate, postgraduate, and PhD research students, providing an excellent foundation for advanced study and research.

Biotechnology, at the forefront of science and technology, integrates Physics, Chemistry, Mathematics, and Biology, attracting students from these disciplines at the high school level. The department is dedicated to fostering innovation and entrepreneurship through its curriculum. Presently, 25 research scholars are engaged in diverse areas of biotechnology under the mentorship of experienced faculty. Key research areas include Molecular Biology, Bioinformatics, Drug Discovery & Protein Engineering, Environmental Biotechnology, and Applied Nanotechnology. Regular campus recruitment drives offer students diverse career opportunities, inspiring them to contribute to society and the nation. The department actively organizes international conferences and seminars, providing students with opportunities to interact with eminent scientists such as Prof. Sunil Kumar Khare, Prof. Subhra Chakraborty, Prof. Suman Kumar Dhar, Prof. Parthapratim Majumdar, and Prof. Debabrata Das. The establishment of the journal club promotes scientific research ideas among postgraduate students. Participation in initiatives like the Smart India Hackathon encourages students to pursue innovation and entrepreneurship. Under the guidance of Hon'able Chancellor Dr. Nandan Gupta, COO Mr. Saurabh Adhikari, and Vice Chancellor Subrata Kumar Dey, the department has published a book titled "Frontiers in Biotechnology: Emerging Approaches and Strategies" (ISBN 978-93-5980-245-9). This

book, featuring eight chapters on recent developments in oncology, computational biology, bioremediation, environmental pollution, bioprocess engineering, gene regulation sequencing, and nanobiotechnology, showcases contributions from esteemed faculty members. Faculty members regularly enhance their academic and professional skills through Faculty Development Programmes. Since 2019, the university has collaborated with various institutions and government organizations to foster interdisciplinary break throughs. We are pleased to announce that Dr. Priyajit Banerjee has received a grant for the project "Investigating Synergistic Antifungal Effects" of Bioavailable Curcumin and Berberine to Combat Drug-Resistant Candida albicans" from Polyfeenolix Research Laboratory (OPC) Pvt. Ltd. An advanced research laboratory equipped with high-end instruments such as UV-Visible Spectroscopy, High Performance Liquid Chromatography (HPLC), Atomic Absorption Spectroscopy (AAS), Fourier Transform Infrared Spectroscopy (FTIR), Gas Chromatography Flame Ionization Detector (GC-FID), Rotary Evaporator, and Filtration Assembly has been established for this project. Additionally, Dr. Srijan Haldar, Associate Professor, has received a grant to serve as Co-investigator for the project "Indoor Air Pollution Study in South Asian Countries," funded by the YESI Knowledge Exchange Fellows scheme.

In April-May 2024, biotechnology students from the department have been shortlisted for their outstanding participation in the E-YUVA Entrepreneurship Program, a BIRAC initiative by the Department of Biotechnology, Government of India.

FACULTY DETAILS



Dr Srijan Haldar Associate Professor

Research Area: Stem
Cell Biology, RNA Biology,
Environmental Biotechnology



Dr Semanti Ghosh
Assistant Professor

Research Area: Structural Biology & Bioinformatics



Dr Debjit De Assistant Professor

Research Area: Computational Biology, Bioinformatics, Metagenomics, Metatranscriptomics, Microbiome Study



Dr Sibashish Baksi

Assistant Professor

Research Area: Renewable Energy Research, Biomass Valorization, Bioprocess Engineering Research Interest: Renewable Energy Research, Biomass Valorization, Bioprocess Engineering



Dr Sabyasachi Ghosh Assistant Professor

Research Area: Nanotechnology, Environmental Remediation, Plant Protection,



Dr Priyankar Pal Assistant Professor

Food Safety

Research Area: To find out the extent of damages in different physiological systems by environmental toxicants and its possible amelioration



Dr Priyajit BanerjeeAssistant Professor

Research Area: Structure assisted drug designing and protein engineering



Dr Bidisha Ghosh Assistant Professor

Research Area: Nanosensing, Nanoremediation, Ligand-Protein Interaction

PUBLICATIONS

a. Conference Publications

- Sriya Choudhury, Sibashish Baksi, Bidyut Bandyopadhyay, Debjani Roy. "Assessment of Phytochemicals, Antioxidant Activity and Enzyme Production of Endophytic Fungi Isolated from Medicinal Plant Sources." International Conference on Scientific Advances in Life Sciences, Agriculture and Food & Nutrition (ICSA 2023) (Published)
- 2. Ayan Ghorui, Sibashish Baksi. "CRISPR/Cas9 Technology: Challenges and Drawbacks." International Conference on Scientific Advances in Life Sciences, Agriculture and Food & Nutrition (ICSA 2023) (Published)
- 3. Subha Mondal, Sibashish Baksi. "Bioremediation Of Industrial Wastewater: A Synergistic Approach." International Conference on Scientific Advances in Life Sciences, Agriculture and Food & Nutrition (ICSA 2023) (Published)
- 4. Ankita Guin, Sibashish Baksi. "RNA Interference: A Potential Approach For Silencing Splice Isoforms Associated With Human Diseases." International Conference on Scientific Advances in Life Sciences, Agriculture and Food & Nutrition (ICSA 2023) (Published)
- 5. Shreya Saha, Sibashish Baksi. "Illuminating The Shadows: Unveiling The Concealed Hazards And Intriguing Links Between Light Pollution And Cancer." International Conference on Scientific Advances in Life Sciences, Agriculture and Food & Nutrition (ICSA 2023) (Published)
- 6. Rupesh Dutta Banik, Uparna Dutta, Sneha Sahani, Shreya Saha, Subhankar Paul, Sibashish Baksi, Pritha Pal. "Impact Of Chronic Arsenic Toxicity on Human Health- A Review", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- 7. Krittika Ganguly, Lusi Dey, Sibashish Baksi. "Mycoremediation: Role of Mushroom in the Bioremediation of Heavy Metals",

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- International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- 8. Pritha Pal, Rittick Dutta, Shrabani Roy, Riya Majumder, Sibashish Baksi. "Severity Of Oral Carcinoma With Respect To Various Addictions- A Study In West Bengal", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- 9. Madhusmita Padhi, Moumita Mukherjee, Sibashish Baksi*, Pritha Pal*. "Study Of Extent of Global Uranium Contamination in Groundwater", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- 10. Uzma Ghazal, Pritha Pal, Sibashish Baksi. "HPV Vaccination: A Comprehensive Approach to Control Cervical Cancer", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- 11. Rupesh Dutta Banik, Pritha Pal, Sibashish Baksi. "Green Strategy for Reclaiming Ecosystem: Microbial Remediation of Leather Industry Wastes", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- Ananya Samanta, Semanti Ghosh. Molecular insight of Q126P PINK1 mutation in Parkinson's disease. International Conference on Engineering Design and Computing (ICEDC-2023) (Accepted)
- 13. Mouli Nahar, Semanti Ghosh. Comprehensive In-silico study of PLAT domain containing protein 1 upregulated from salinity stress in Oryza sativa. International Conference on Engineering Design and Computing (ICEDC-2023) (Accepted)
- 14. Deep Saha, Prabahan Nath, Semanti Ghosh. Gene enrichment, network mapping and identification of potential core genes associated with Parkinson's disease. Submitted in ICALF 2024.
- 15. Debojyati Datta, Semanti Ghosh, A Review on role of long non coding RNA in Dengue Fever. Submitted in ICALF 2024.
- 16. Srijani Karmakar, Sahely Roy, Ritika Roy, Semanti Ghosh. Phage Therapy: A Promising Paradigm Shift in Antibiotic Resistance.

- Submitted in ICALF 2024.
- 17. Ritika Roy, Riya Ghosh, Tilatoma Dasgupta, Srijani Karmakar, Semanti Ghosh.Role of *Helicobacter pylori* in gastric carcinogenesis. Submitted in ICALF 2024.
- 18. RajivGosai,SemantiGhosh.Medicinalimpactof*Costusigneus*on diabetes mellitus: Insulin Plant. Submitted in ICALF 2024.
- 19. JoysuryaKanthal, Semanti Ghosh. Nanotechnology-based immunotherapeutic medication for Cancer diagnosis and treatment. Submitted in ICALF 2024.
- 20. Manashi Paul, Semanti Ghosh. Functional effect of Secondary metabolites produced by Endophytic fungi. Submitted in ICALF 2024.
- 21. Pooja Kumari, Semanti Ghosh. Anticancer peptides: synthesis methods, modes of action, and future potential therapeutic uses for cancer treatment. Submitted in ICALF 2024.
- 22. Ramu Samanta, Semanti Ghosh. Functional effect of yogurt in human health.Submitted in ICALF 2024.
- 23. Krittika Das, Soumashree Mondal, Suranjana Dhara, Aditi Das, Daizy, Semanti Ghosh. Genetic diagnosis of Alagille syndrome: A genetic disorder. Submitted in ICALF 2024.
- 24. Pratim Patra, Srijita Ghosh, Ipsmita Pan, TandrimaTikadar, Shaloni Das, Monisha Sarker, Semanti Ghosh. CYSTIC FIBROSIS: An inherited life threatened genetic disorder. Submitted in ICALF 2024.
- 25. Banik, et al., "Phytotoxicity Study of Biogenic Mono-metallic and Bi-metallic (Au-Ag) Alloy NPs", Journal of Mines, Metals and Fuels, 2023, 71(11), 2084-2088.
- 26. Bose et al., A review on phytoremediation capability of Tagetes erecta Linn. against heavy metals, Journal of Advanced Zoology, 44 (S6), 2023, 2333-2338.
- 27. Nabi, A. et al., EFFECT OF NITRATE CONTAMINATION IN GROUNDWATER A WORLDWIDE CONCERN, Journal of Survey in Fisheries Sciences, 10(1S), 2023, 6493 6497.
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- 29. Chakraborty, A. et al., Potential Approach Of Mushrooms In Bioremediation A Short Review, Journal of Advanced Zoology, 44 (\$5), 2498–2501.
- 30. Das,D. et al., Aquatic Plants in phytoremediation of contaminated water: Recent knowledge and future prospects, Journal of Advanced Zoology, 44 (S6), 2023, 2322-2326.
- 31. Mistri et al., Importance of PGPR (Plant Growth Promoting Rhizobacteria) For Sustainable Agricultural Production, Journal of Advanced Zoology, 44 (\$6), 2023, 2373-2378.
- 32. Ghosh, K. et al., The Significance of Nanomaterials In Enhancing Soil Microbial Communitya Short Review, Journal of Advanced Zoology, 44 (\$5), 2023, 2700-2705.
- 33. Mondal,K. et al., Ornamental Plant in phytoremediation of contaminated soils: Recent progress and future directions, Journal of Advanced Zoology, 44 (S6), 2023, 2339-2344.
- 34. Bera et al., Antimicrobial activity of Plant Extract: A review of recent literature, Journal of Advanced Zoology, 44 (\$6), 2023, 2352-2356.
- 35. Roy et al., A review on organic nanoparticles for treatment of bacterial biofilms, Journal of Advanced Zoology, 44 (\$6), 2023, 2345-2351.
- 36. Roy et al., A Review on Bioinspired and Green Synthesis of Silver Nanoparticles with Their Antimicrobial Activity, Journal of Survey in Fisheries Sciences, 10(1S), 2023, 6353 6358.
- 37. Mandal, S., Role of Algae-Bacterial Consortium In Heavy Metal Contaminated Water Treatment, Journal of Survey in Fisheries Sciences, 10(1S), 2023, 2252 2257.
- 38. Mukherjee, S., Nanotechnology in edible films and its future directions: A short review, Journal of Survey in Fisheries Sciences, 10(1S), 2023, 2252 2257.
- 39. Mitra, S., Sarkar, S., De, D., Ghosh, S., Ghosh, B., & Sarkar, S. (2023).

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- REVIEW. Journal of Advanced Zoology, 44.
- 40. Biofertilizer Fertilizer And Food Scarcity Removal: A Path Towards Sustainable Agriculture In India: A Review. AdrijaNath, Arindum Roy, SrijanHaldar. 2652–2658.
- 41. Unlocking Agricultural Potential: Harnessing Zinc and Silicon Micro-Nutrient Releasing Bacteria as Biofertilizers for Sustainable Crop Growth". MonalisaMallik, SrijanHaldar. 2518–2522, 2023-12-05.
- 42. Nature's Defenders: Microbes as Bio-Pesticide Guardians: A review. SumanaMondal, SrijanHaldar2484-2487.
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- 44. Unlocking Nutrient Potential: Harness The Power Of Micro-Nutrient Solubilizing Bacteria: A Review . Trina Dey, SrijanHaldar. 2671–2676.

b. Book Chapter

- Recycling of waste water through natural filtration techniques:
 Possibilities and Challenges- Bidisha Ghosh, PijushMallick,
 Kaustuv Das, Sukhen Das.
- 2. Innovative and Hybrid Technologies for Waste water Treatment and Recycling ". Bidisha Ghosh, Suranjana Sarkar, Semanti Ghosh. CRC PRESS/Taylor & Francis Group (Communicated)
- 3. Carolina Krebs de Souza, Sabyasachi Ghosh, Swarup Roy, "Valorization of Agro-wasteDerived Materials for FoodPackaging Application", Book Title: Sustainable Materials for Food Packaging and Preservation, Chapter 9, [ELSEVIER, ISBN: 9780443135675] (Review completed andwill be published 1stSep, 2024).
- 4. Pal P, De D, Dutta Banik R, Paul S. An overview of the mechanistic approach to RNA interference, 2023 (Submitted)
- 5. Banik, R. D., DE, D., & Pal, P. (2023). Horizontal Gene Transfer in the

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Evolution of Microbial Genomes (Submitted)

- 6. Chourasia S, Pal P. Impactofchlordeconeexposureonreproductivesystem-a concise review (ICSA 2023) (Submitted)
- 7. Das R, Pal P. The mechanistic approach of arsenic mediated neurotoxicity-a concise review. (ICSA 2023) (Submitted)
- 8. Paul S, Pal P. Benzene-mediated hepato-toxicity: a review of the underlying mechanisms (ICSA 2023) (Submitted)
- 9. Mondal P, Pal P. Immunotoxicity caused by excessive mercury exposure: a brief overview. (ICSA 2023) (Submitted)
- 10. Banik, R.D., De, D., Pal, P. (2023). BOOK CHAPTER HORIZONTAL GENE TRANSFER IN THE EVOLUTION OF MICROBIAL GENOMES
- 11. Paul, S., De, D., Pal, P., Ghosh, B. (2023). BOOK CHAPTER UNVEILING EPIGENETICS AND HUMAN DISEASES: FOCUS ON CANCER EPIGENETICS. (In Submitted)
- 12. Pal, P., De, D., Banik, R.D., Paul, S. (2023). BOOK CHAPTER AN OVERVIEW OF THE MECHANISTIC APPROACHTORNA INTERFERENCE. (In Submitted)
- 13. De, D., Pal, P., Banik, R.D., Paul, S. (2023). BOOK CHAPTER UNRAVELING THE WONDERS OF GENOME SEQUENCING AND IT'S ADVANCE METHOD NEXT GENERATION SEQUENCING. (In Submitted)
- 14. De, D., Nayak, T., Dhal, P.K. (2023). BOOK CHAPTER METAGENOMICS AND BIOINFORMATICS IN MICROBIAL ECOLOGY: CURRENT STATUS AND BEYOND. (In Press)

C. Journal

- Samanta A, Ghosh S. (2023) Protein protein Interaction Mapping of Neurodegenerative Disease. *Journal of Survey in Fishery Sciences*. Vol. 10 No. 15 (Special issue 1), 6449 – 6450.
- 2. Nahar M, Ghosh S. (2023) Comparative in-silico Study of The Major Prolamin Protein of Wheat and Rice in Relation to Celiac Disease, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S

(Special issue 1), 6451 - 6453.

- 3. Ghosh, A., Naskar, P., Dey, S., Mukherjee, S., Biswas, S., Das, R., Sarkar, S., Ghosh, S., Ghosh, B., Sarkar, S. The Key to A Sustainable Future Algal Biofuel, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 15 (Special issue 1), 6395-6400.
- 4. Nayak, S., Chakraborty, S., Roy, S., Roy, S., Ghosh, K., Ghorui, A., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S
- 5. The Role of Plant Hormone on Root Development, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6401 6407.
- Ghosh, S., Ghosh, B., Ghosh, M., Paul, S., Pal, A., Dey, T., Sarkar, S., Ghosh, S., Ghosh, B., Sarkar, S. Phytoremediation- Friendlier and Affordable Approach to Remediate Heavy Metal Pollution, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6291-6296.
- 7. Pal, N., Das, P., Dutta, R., Sarkar, S., Mukherjee, S., Devi, P., Mukherjee, M., Dhar, S., Ghosh, S., Sarkar, S., Sarkar, S., Ghosh., B. Water Reclamation Through Nano-remediation & Bioremediation: A Weal Against Conventional Chemical Techniques, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 15 (Special issue 1), 6297-6305.
- 8. Banerjee, D., Sadhu, P., Das, S., Pal, S., Mitra, S., Ghosal, A., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar. S. Phosphate Solubilizing Bacteria: A potential biotic component for solubilizing phosphate in soil and its application as Biofertilizer: A Review. *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6306-6315.
- Biswas, D., Chourasia, A., Sasmal, A., Santra, S., Panigrahi, S., Kundu, M., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. Mycoremediation is a Potential Strategy for Environmental Clean-up of Heavy Metal: A Review, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6316-6327.
- Sen, A., Mondal, I., Das, S., Roy, S., Mondal, M., Roy, R., Sarangi, S., Banerjee, S., Sarkar, S., Ghosh, B., Sarkar, S., Ghosh, S. Analytical approach of micro-RNA interaction study in ovarian cancer, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6328-6335.
- Chakraborty, B., Gosai, R., Saha, D., Nayek, B., Biswas, P., Das Gupta, A., Ghosh, R., Ghosh, B., Sarkar, S., Sarkar, S., Ghosh, S. Structural and functional relationship study in plant salinity stress, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6336-6343.
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d. Books

• FRONTIERS IN BIOTECHNOLOGY: EMERGING APPROACHES AND STRATEGIES ISBN: 978-93-5980-245-9, Department of Biotechnology.

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

Seminars

- 1. National Technology Day Celebration.
- 2. Faculty Development Programme with Prof. Santasree Banerjee from Jilin University, China
- 3. Faculty Development Program by Dr. Saptarshi Chatterjee, Associate Director of Incubation & Chief Coordinator at the E-YUVA Centre, Adamas University, supported by BIRAC (Biotechnology Industry Research Assistance Council).
- 4. One day seminar by Dr. Subhra Chakraborty, Director of the National Institute of Plant Genome Research, and Prof. Prasanta Kumar Panigrahi, Director of IISER.
- 5. International Microorganism Day Celebration.
- 6. World Habitat Day Celebration.
- 7. World Cancer Awareness Day Celebration.
- 8. Seminar on Plant Genome Sequencing.
- 9. World Entrepreneurs' Day Celebration
- 10. Vivek Jyoti Ananya Samman Prof. Partha P. Majumder, a luminary in the field of academia and a distinguished National Science Chair for Scientific Excellence appointed by the Government of India.
- 11. World Cancer Day Celebration.
- 12. National Science Day Celebration.
- 13. National Vaccination Day Celebration.
- 14. World Down's Syndrome Day Celebration.
- 15. Journal Club- Department of Biotechnology.

Conference

- 1. ICSA- 2023
- 2. ICALF- 2024

Workshop

- 1. Student's Hands-on training on Molecular Biological Techniques conducted with Andragogy.
- 2-Month Crash Course on Modern Biological Techniques and Soft Skills Grooming Program
- 3. International Workshop on Computer-aided Drug Designing and Discovery by PreScience.
- 4. Bioinformatics & Communicative English Workshop conducted by department of Biotechnology & Department of English.
- 1. Dr. Srijan Haldar securing the York Environmental Sustainability Institute Knowledge Exchange Fellows scheme for the 2023-24 term marks an extraordinary achievement for the entire department, as the Co-Principal Investigator (CoPI).
- 2. MoU with Andragogy.
- 3. MoU with SynBiogenesis.
- 4. Departmental faculty participation in Regional Young Investigators Meet by Dr Sibashish Baksi and Dr Santanu Paul.
- 5. Department of Biotechnology securing 2nd Position in Tech-Fest, 2024.
- 6. Dr. Priyajit Banerjee received project grant for the "Investigating Synergistic Antifungal Effects of Bioavailable Curcumin and Berberine to Combat Drug-Resistant Candida albicans" from Polyfeenolix Research Laboratory (OPC) Pvt. Ltd.
- 7. Central advanced research laboratory facility equipped with high-end instruments such as UV-Visible Spectroscopy, High Performance Liquid Chromatography (HPLC), Atomic Absorption Spectroscopy (AAS), Fourier Transform Infrared Spectroscopy (FTIR), Gas Chromatography Flame Ionization Detector (GC-FID), Rotary Evaporator, and Filtration Assembly has been set up by the department.
- 8. Departmental book "FRONTIERS IN BIOTECHNOLOGY: EMERGING APPROACHES AND STRATEGIES"; ISBN: 978-93-5980-245-9 published.



SCHOOL OF AGRICULTURE

ABOUT DEPARTMENT:

The School of Agriculture, established in 2020, aims at achieving excellence in academics and research. Bachelor's degree courses in Agriculture, Agricultural engineering and Master's degree courses in Agribusiness management are offered by the school. The school has designed dynamic and focused curricula as per the guidelines of Indian Council of Agricultural Research (ICAR) to develop well-trained manpower for academics, agrobased industry and extension-oriented applications. The Department of Agriculture at Swami Vivekananda University plays a critical role in advancing agricultural education, research, and outreach. Its primary objective is to equip students with knowledge and skills related to agriculture and contribute to the advancement of the agricultural sector through research and community engagement. In general, studying agriculture is vital for ensuring food security, supporting economic growth, safeguarding the environment, and addressing pressing global challenges such as climate change and malnutrition. By investing in agricultural education and research, we can build a more sustainable and resilient future for our planet.

FACULTY DETAILS



Dr. Tanmoy Sarkar Assistant Professor & HOD

Research Area: Fruit Breeding; Production Technology of Fruits; Post- harvest Technology of Horticultural Crops; Germplasm Conservation



Dr. Sudip SenguptaAssistant Professor &
Programme Coordinator

Research Area: Agricultural Chemistry, Soil Science, Arsenic, Water Management, Soil pollution & contamination, Soil Chemistry, Soil Fertility



Dr. Avishek ChatterjeeAssistant Professor

Research Area: Plant biotechnology and molecular Breeding



Dr. Suprabuddha Kundu Assistant Professor

Research Area: Plant tissue culture, Genetic engineering, Germplasm conservation, Secondary metabolites, Molecular markers



Dr. Ria Mukhopadhyay Assistant Professor

Research Area: Biocontrol of plant pathogens



Dr. Sahely Kanthal Assistant Professor

Research Area: Conservation Agriculture, Weed Management, Rice-based Cropping System



Parijat Bhattacharya Assistant Professor

Research Area: Micronutrient, Plant nutrition, Soil Fertility, Soil Chemistry



Rakesh Das Assistant Professor

Research Area: Honey bee and pollinators; Economic Entomology



Tanmoy Majhi
Assistant Professor

Research Area: Surface water modelling, runoff and sediment yield modelling, remote sensing, soil and water conservation



Sayani Bhowmick
Assistant Professor

Research Area: Assessing rainfall change scenarios,

freshwater availability, climate

PUBLICATIONS

a. Conference Publications

- 1. Choudhury, R. K., Bhattacharya, P., Parveen, S., Bhattacharyya, K., & Sengupta, S. (2023). Modeling The Uptake Of Cationic Micronutrients And Rice Grain Yield At Different Graded Dose Of Nitrogen Fertilization. Journal of Survey in Fisheries Sciences, 10(1S), 7017-7021.
- 2. Sarkar, S., Sengupta, S., Bhattacharyya, K., Parveen, S., & Bhattacharya, P. (2023). Influence Of Varietal Duration And Nitrogen Fertilization In Augmenting Micronutrient Uptake And Yield Of Rice. Journal of Survey in Fisheries Sciences, 10(1S), 6973-6978.
- 3. Bhattacharya, P., Sengupta, S., & Bhattacharyya, K. (2023). Relating Soil Available Zinc with Physicochemical Properties in New Alluvial Zone of West Bengal, India. Journal of Survey in

- Fisheries Sciences, 10(1S), 7037-740.
- 4. Sarkar, T., Sengupta, S., Kundu, S., & Das, K. (2023). Vegetative Multiplication of Psidium Guajava L. Through Stem Cutting. Journal of Survey in Fisheries Sciences, 10(1S), 754-7056.
- 5. Salma, U., Giri, D., Sinha, M. K., & Kundu, S. (2023). Ethyl Methanesulfonate (EMS)-Mediated Fruit Mutants of Bitter Gourd (Meghna-2): A Popular Landrace of West Bengal. Journal of Survey in Fisheries Sciences, 10(1S), 6889-6894.
- 6. Sarkar, M., Kundu, S., Salma, U., & Mandal, N. (2023). In Vitro Tetraploidization Towards Enhancement of Charantin Biosynthesis in Momordica Charantia (L.). Journal of Survey in Fisheries Sciences, 10(1S), 6895-6902.
- 7. Bhattacherjee, S., Hazra, S., Hasan, W. U., Roy, P., Chatterjee, A., Maji, A., & Gorai, S. (2023). Genetic Analysis of Advanced Wheat (Triticum Aestivum L.) Lines Grown Under Different Sowing Conditions. Journal of Survey in Fisheries Sciences, 10(1S), 7057-7066.
- 8. Anjum, I., Bandyopadhyay, S., Chatterjee, A., Bhattacharya, S., Maji, A., & Ali, M. N. (2023). Genetic Analysis And Character Association In Bread Wheat (Triticum Aestivum L.) Under Terminal Heat Stress. Journal of Survey in Fisheries Sciences, 10(1S), 7045-7050.
- 9. Das, R., Layek, A., Nandi, T., & Jha, S. (2023). Luffa Cylindrica (L.) As Potential Foraging Source for Insect Pollinators During Post Monsoon Season—A Study in Gangetic Plain of West Bengal. Journal of Survey in Fisheries Sciences, 10(1S), 6913-6920.
- Layek, A., Pramanik, K., Das, R., & Seal, D. (2023). A Study on Bio Efficacy of Cyantraniliprole 10.6% OD Against Major Sucking Pests of Watermelon. Journal of Survey in Fisheries Sciences, 10(1S), 6903-6907.
- 11. Pal, A. K., Sarkar, N., & Majhi, T. (2023). Identification of a Suitable Probability Distribution for Rainfall Analysis of Bankura District in West Bengal. Journal of Survey in Fisheries Sciences, 10(1S), 7074-7081.
- 12. Majhi, T., & Biswas, R. K. (2023). Development Of Equation of Curve to Estimate Volumetric Soil Moisture Content in Case of Tensiometer to Overcome the Moisture Measurement Error

- Due to Time Lag Issues. Journal of Survey in Fisheries Sciences, 10(1S), 7067-7073.
- 13. Kanthal, S., & Garai, S. (2023). Identification Of Different Indigenous Technical Knowledge Application In Agriculture And Allied Sector In Some Selected Areas Of West Bengal. Journal of Survey in Fisheries Sciences, 10(1S), 7022-7025.
- 14. Mondal, T., Layek, S., Sarkar, T., Roy, S., Mohanta, R., & Bauri, F. K. (2023). Morpho-Physicochemical Studies Of Kusum (Schleichera Oleosa (Lour.) Oken): A Potential Multipurpose Tree Species. Journal of Survey in Fisheries Sciences, 10(1S), 6984-6986.
- 15. Layek, S., Mondal, T., Mohanta, R., Roy, S., Sarkar, T., & Majhi, D. (2023). Physico-Chemical Properties Of Star Gooseberry (Phyllanthus Acidus) Fruits Grown In New Alluvial Zone Of West Bengal. Journal of Survey in Fisheries Sciences, 10(1S), 751-753.

b. Book Chapter

- 1. Laha, A., Sengupta, S., Mandal, J., Bhattacharyya, K., & Bhattacharyya, S. (2023). The Journey of Arsenic from Soil to Plant. In Arsenic Toxicity Remediation: Biotechnological Approaches (pp. 3-14). Cham: Springer Nature Switzerland.
- Laha, A., Sengupta, S., Mandal, J., Bhattacharyya, K., Bhattacharyya, S. (2023). The Role of Plant Growth Promoting Bacteria on Arsenic Removal: A Review of Existing Perspectives. In: Kumar, N., Kumar, S. (eds) Arsenic Toxicity Remediation: Biotechnological Approaches. Environmental Science and Engineering. Springer, Cham
- 3. Das, R., Layek, A., Kunal, G. (2023). Ecosystem Diversity with Ecological Management for Insect Pollinators' Sustainability: A Need of The Hour. In Recent Advances in Agricultural Entomology Sr edu Publications, Telengana, India.
- 4. Mukhopadhyay, R., Nath, S., Kumar, D., Sahana, N., & Mandal, S. (2024). Basics of the Molecular Biology: From Genes to Its Function. In Genomics Data Analysis for Crop Improvement (pp. 343-374). Singapore: Springer Nature Singapore.
- 5. Ganguly, P., Mandal, J., Sengupta, S., & Sinha, B. (2024). Basics of Environment, Pollution, and Bioremediation Techniques. In En-

- vironmental Contaminants (pp. 1-17). Apple Academic Press.
- 6. Bhattacharya, P., Banerjee, P., Hazra, S., Sengupta, S., & Dey, S. (2024). Lead, Cadmium, and Chromium Contamination in Soil-Plant System: Global Situation, Impact, and Dietary Risk Delineation. In Environmental Contaminants (pp. 47-79). Apple Academic Press.
- 7. Sarkar, T., Sengupta, S., Kanthal, S., & Kundu, S. (2024). Climate Change Mitigation Through Agro-Forestry Improves Natural Resource and Livelihood Security. In Agroforestry to Combat Global Challenges: Current Prospects and Future Challenges (pp. 219-246). Singapore: Springer Nature Singapore.

c. Journal

- Thapa, S., Mahapatra, S., Baral, D., Chatterjee, A., Shivakoty, P., Subba, B., & Das, S. (2023). Morpho-molecular variability of different isolates of Ustilagonoidea virens causing false smut of rice. Archives of Phytopathology and Plant Protection, 56(6), 489-502.
- Chatterjee, A., Hazra, S., Sen, P., Gorai, S., Bhattacharya, S., Gupta, V., ... & Ali, M. N. (2023). Physico-biochemical traits and differential expression of genes linked with terminal heat tolerance in bread wheat (Triticum aestivum L.). Cereal Research Communications, 1-18.
- 3. Das, R., Layek, A., Kunal, G., & Jha, S. (2023). Status of Migratory Beekeeping with Apis Mellifera L in the Gangetic Plain of West Bengal. Indian Journal of Entomology, 01-09.
- 4. Baishya, A., Chowdhury, A., Chakrabarty, R., Sengupta, S., Das, A., Panda, A., ... & Mandal, D. (2023). Spatiotemporal Analysis and Trend Detection of Groundwater Levels Using Gis Techniques in Nadia District of West Bengal, India. Journal of the Geological Society of India, 99(6), 868-874.
- Phonglosa, A., Bhattacharyya, K., Pari, A., Ray, K., Banerjee, H., Haldar, S., Sengupta, S., Bhattacharya, P. and Mandal, J., (2023). Assessment of the suitability of selected extractants for boron in some inceptisols of Eastern India under sunflower (Helianthus annuus L.). Journal of Plant Nutrition, 46(17), 4340-4355.

- 6. Chatterjee, A., Sen, P., Chattopadhyay, T., Maji, A., Gorai, S., Sarkar, A., & Ali, M. N. (2023). Omics for Elucidating Heat Stress Tolerance Mechanisms in Wheat: A Review Update. Current Agriculture Research Journal, 11(2).
- 7. Sengupta, S., Bhattacharyya, K., Mandal, J., Bhattacharya, P., & Chattopadhyay, A. P. (2023). Zinc and iron enrichment of vermicompost can reduce the arsenic load in rice grain: an investigation through pot and field experiments. Journal of Cleaner Production, 419, 138267.
- 8. Baishya, A., Mishra, A., & Sengupta, S. (2024). Modelling and Assessment of Climate Change Impact on Rainfed Rice Cultivation in a Sub-humid Subtropical Region. Agricultural Research, 13(1), 85-95.
- 9. Sengupta, S., Patra, S. K., Laha, A., Poddar, R., Bhattacharyya, K., Dey, P., & Mandal, J. (2023). Replacing conventional surface irrigation with micro-irrigation in vegetables can alleviate arsenic toxicity and improve water productivity. Groundwater for Sustainable Development, 23, 101012.
- 10. Sengupta, S., Bhattacharya, P., Bhattacharyya, K., Pandian, B. J., & Chinchmalatpure, A. R. (2024). Assessment of the Suitability of Extractants for Predicting Plant Available Arsenic in Some Tropical Rice Growing Inceptisols of Eastern India. Communications in Soil Science and Plant Analysis, 55(2), 243-260.
- 11. Chintala, S., Laishram, R., Mondal, P., Pal, K., Kantamraju, P., Ghosh, S., Karmakar, K., Chakdar, H., Mukhopadhyay, R., Sen, R. and Choudhury, A. (2023). Turmeric (Curcuma longa L.) rhizome extract mediated silver nanoformulation exhibits enhanced antifungal property against Rhizoctonia solani and boosts innate immunity of rice. Industrial Crops and Products, 206, 117616.
- 12. Das, R., Kumar, R., Kunal, G., Goldar, S., Dutta, S., & Jha, S. (2023). Detection of Ascosphaera apis, causing chalkbrood disease in the colonies of European honey bee, Apis mellifera in West Bengal, India. Sociobiology, 70(4), e9192-e9192.
- 13. Laha, A., Sengupta, S., Bhattacharyya, S., Bhattacharyya, K., & GuhaRoy, S. (2024). Isolation and characterization of rhizobacteria from lentil for arsenic resistance and plant growth promotion. 3 Biotech, 14(1), 30.

- 14. Kumar, D., Chaudhury, R.S., Mandal, K., Pradhan, P., Bhattacharya, S., Das, B., Mukhopadhyay, R., Phani, V., Prudveesh, K., Nath, S. and Mandal, R., 2024. Identification of genes associated to ⊠-N oxalyl-L-⊠, ⊠-diaminopropionic acid and their role in mitigating salt stress in a low-neurotoxin cultivar of Lathyrus sativus. Plant Physiology and Biochemistry, 207, 108388.
- 15. Layek, A., Pramanik, K., Das, R., Nandi, P., & Debnath, P. (2024). Assessing the bioefficacy of Cyantraniliprole 10.26% OD against fruit borer and thrips on chilli under field condition. Environment Conservation Journal, 25(1), 41-49.
- 16. Sen, P., Chatterjee, A., Kumar, D., Bhattacharyya, S., Bandyopadhyay, S., & Sarkar, A. (2024). Genetic and functional mechanisms of yield-related genes in rice. Acta Physiologiae Plantarum, 46(3), 29.
- 17. Laha, A., Sarkar, S., Sengupta, S., Das, A., Paul, S., & Bhattacharyya, S. (2024). Unraveling the potential of Acinetobacter calcoaceticus for arsenic resistance and plant growth promotion in contaminated lentil field. South African Journal of Botany, 168, 61-70.
- 18. Das, S., Sengupta, S., Patra, P. K., & Dey, P. (2024). Limestone and yellow gypsum can reduce cadmium accumulation in groundnut (Arachis hypogaea): A study from a three-decade old landfill site. Chemosphere, 353, 141645.
- 19. Bhattacharya, P., Sengupta, S., & Bhattacharyya, K. (2024). Cationic micronutrient fractions in some tropical Alfisols and Inceptisols as affected by organic amendments and simulated moisture regimes: an incubation study. Journal of Plant Nutrition, 47(10), 1527-1545.

d. Books

- 1. Sarkar, T., Kundu, S., Sengupta, S., & Chatterjee, A. (2023). Modern Facets of Agriculture in India. Published by Swami Vivekananda University, India. ISBN: 978-93-5967-754-5
- 2. Sarkar, T., Kanthal, S., Bhattacharya, P., & Mukhopadhyay, R. (2024). Emerging Trends in Sustainable Agriculture. Published by Swami Vivekananda University, India. 978-93-3400-372-7

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

Workshops organized

Title of event: Bio-floc Fish Training Program

Date of the event: 13-20 July 2023

Delegates:

- Prof. Subrata Kumar Dey, Vice Chancellor, SVU
- Prof. Sukumar Mukhopadhyay, Comptroller of Examination, SVU
- Dr. Tanmoy Sarkar, HOD, Agriculture, SVU.
- Mr. Asim Kumar Basak, Specialist, Bio-floc Technology.



2. Title of event: Scientific Beekeeping Training

Date of the event: 23rd to 25th August, 2023 Delegates:

- Prof. Subrata Kumar Dey, Vice Chancellor, SVU,
- Dr. Tanmoy Sarkar, HOD, Agriculture, SVU.
- Mr. Rakesh Das, Asst Prof. Agriculture, SVU.



Title of event: Plantation and Beautification of Campus and Nursery Raising & Management

Date of the event: 13th to 18th September, 2023

Delegates:

- Prof. Subrata Kumar Dey, Vice Chancellor, SVU.
- Dr. Pinak Pani Nath, Registrar, SVU.
- Dr. Tanmoy Sarkar, HOD, Agriculture, SVU.



Conferences organized

1. Name: International Conference on Scientific Advances in Life Sciences, Agriculture and Food & Nutrition- ICSA 2023

Date: 28-30th September, 2023

Delegates:

- Prof. Suman Kumar Dhar, Professor, Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi
- Dr. Pradip Dey, Director, ICAR-ATARI Kolkata, Salt Lake, Kolkata 700097, West Bengal, India
- Prof. (Dr.) Madhumita Dobe MBBS, DCH, MD, MCH, Former Dean and Director, Professor (Public Health) and Former HOD, Department of Health Promotion & Education All India Institute of Hygiene & Public Health, Kolkata (Ministry of Health & Family Welfare, Government of India)
- Dr. Parag Prakash Sutar, Head, Department of Food

DEPARTMENT OF AGRICULTURE || 75

- Process Engineering, National Institute of Technology Rourkela, Odisha, India
- Prof. Koushik Pramanick, Professor, Department of Life Sciences, Presidency University
- Dr. Pier Paolo Piccaluga, Associate Professor,
 Department of Medical and Surgical Sciences,
 University of Bologna, Italy
- Prof. Shankarashis Mukherjee, Professor and Head, Dept.
 Food and Nutrition, WBSU, W.B., India
- Prof. Partha Saha, Dean of Science, Chemical and Life
 Sciences Division, Saha Institute of Nuclear Physics
- Prof. Debnath Chaudhury, Former Professor and Head,
 Department of Biochemistry and Nutrition, All-India
 Institute of Hygiene and Public Health, Kolkata
- Prof. Angshuman Bagchi Professor and BIF Coordinator,
 Department of Biochemistry and Biophysics, University of Kalyani
- Prof. Prasun Kumar Mukherjee, Head, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic Research Centre (BARC), Mumbai
- Dr. Jajati Mandal, School of Science, Engineering and Environment, University of Salford, Manchester, M5 4WT, United Kingdom



2. Name: 2nd International Conference on Technological Innovations in Agriculture, Life Sciences and Food & Nutrition- ICALF 2024

Date: 22-24th February, 2024

Delegates:

- Dr. Jajati Mandal, School of Science, Engineering and Environment, University of Salford, Manchester, M5 4WT, United Kingdom
- Dr. Rubina Khanam, Scientist, ICAR-National Rice Research Institute in Cuttack, Odisha
- Dr. Rakesh Bhowmick, Scientist, ICAR-CRIJAF, Barrackpore
- Dr. Raghupathi B., Scientist B, KSCSTE- Malabar Botanical Garden and Institute for Plant Sciences, Kozhikode, Kerala.
- Dr. Anindita Ray (Chakravarti), Assistant Professor and HOD,
 Department of Food & Nutrition, Maharani Kasiswari College
- Dr. Madhumita Dobe, Dean and Director Professor (Public Health) and Former HOD Department of Health Promotion & Education All India Institute of Hygiene & Public Health, Kolkata (Ministry of Health & Family Welfare, Government of India)
- Dr. Dilip Kumar Nandi, Professor of Allied Health Sciences,
 Midnapore City College
- Dr Pratiti Ghosh, Professor and Head of the Department of Physiology, West Bengal State University
- Dr. Chirantan Sarkar, Principal project Scientist, CSIR-National Environmental Engineering Research Institute-Kolkata.



DEPARTMENT OF PHYSIOTHERAPY

ABOUT DEPARTMENT:

The Department of Physiotherapy was set up to impart quality education interspersed with hands-on practice to the undergraduate students of Bachelor of Physiotherapy. Physiotherapy is a health-care profession that focuses on the use of physical techniques to promote health and prevent, treat, and manage disease and disability. It is the world's fourth largest healthcare profession, focusing on movement dysfunction and pain caused by musculoskeletal, neurological, respiratory, and chronic disability disorders, as well as mental illness and intellectual impairment. The department boasts of a fully equipped Electrotherapy and Exercise Therapy laboratory, installed with the latest equipment and instruments for the study of Physiotherapy.

FACULTY DETAILS



Dr Srijan Haldar Assistant Professor Research Area: Stem Cell Biology, RNA Biology, Environmental Biotechnology



Assistant Professor

Research Area: Renewable Energy
Research, Biomass Valorization, Bioprocess
Engineering Research Interest: Renewable
Energy Research, Biomass Valorization,
Bioprocess Engineering



Dr Priyajit Banerjee
Assistant Professor

Research Area: Structure
assisted drug designing and
protein engineering

PUBLICATIONS

Conference Publications: 0
Books: 0

Book Chapter: 0
Others (if any): 0

Journal: 0

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

NIL

ACHIEVEMENT OF THE DEPARTMENT

NIL

ELECTRONICS & COMMUNICATION ENGINEERING

ABOUT DEPARTMENT:

The department of Electronics & Communication Engineering (ECE) was established in the year 2019 with a moderate capacity of students. Based on available infrastructure and capabilities of faculties of this University, the intake has been grown rapidly. The undergraduate (UG), post graduate (PG) and PhD programs of the ECE department disclose innovative expertise among the stakeholders which help them to excel in their respective fields. There are various courses like electronic devices, electromagnetic waves, power electronics, information technology, microprocessor, robotics and control, communications, Nano-Electronics, VLSI and other circuits etc. The department puts all initiatives for making the students to compete internationally as per the cutting-edge requirement. Besides, different workshops as well as seminars organized by this department periodically are targeted towards the latest industrial trends in lieu with inter-alia between industry and academics.

FACULTY DETAILS



Shreya Adhikary Associate Professor & Coordinator

Research Area: Medical image processing



Sk. Babul Akhtar Assistant Professor

Research Area: Object Tracking



Dr. Debasis MondalAssistant Professor

Research Area: Electrical biosensor



Dr. Arindam Sadhu Assistant Professor

Research Area: Post CMOS technology, Low power VLSI design, Quantum dot Cellular Automata, Quantum Computing



Mr. Tomal Suvro Sannyashi Assistant Professor

Research Area: Communication



Dr. Tanmay Sinha Roy Assistant Professor

Research Area: Al & ML based Biomedical Signal Processing

PUBLICATIONS

Conference

- Rupam Ray Chaudhuri, Bidisha Mitra, Debasis Mondal, Shreya Adhikary, Congestive Heart Disease Prediction by using various Machine Learning Algorithms on two Dataset, International Conference on Integrative Science and Engineering (ICISE) 2023
- Nirmalya Samanta, Paulami Nayek, Kakali Senguta, Arup Ratan Biswas, Shreya Adhikary, Debasis Mondal, Determination of the quality of irrigation water by Fuzzy Logic based system in irrigation, International Conference on Integrative Science and Engineering (ICISE) 2023
- Priyanshi Das, Shreya Adhikary, Tomal Suvro Sannyashi, Debasis Mondal, Optical Imaging for Cancer Detection through Machine Learning Approaches, International Conference on Integrative Science and Engineering (ICISE) 2023
- Pradipta Maiti, TVWS scenario: Global and Indian Perspective, International Conference on Integrative Science and Engineering (ICISE) 2023
- Arnab Karmakar, Dipendu Mondal, Debasis, Shreya Adhikary, Future Smart Kitchen: A Modern Comfortable Packaging, International Conference on Integrative Science and Engineering (ICISE) 2023
- Sk Babul Akhtar, Pradipta Maiti, Debraj Chakraborty, Somdeb Chanda, Kalman Filter based Multiple Object Tracking using Hungarian Algorithm and performance tuning using RMS Index, International Conference on Integrative Science and Engineering (ICISE) 2023
- Somdeb Chanda , P Vanajakshi , Dilip Sing , Pradipta Maity, Debraj Chakraborty and Sk Babul Akhtar, Selection of Wavelength region for Prediction of Caffeine Content inInward Tea Leaves using Near Infrared Reflectance (NIR) Spectroscopy, International Conference on Integrative Science and Engineering (ICISE) 2023
- Shreya Adhikary, Debasis Mondal, Tomal Suvro Sannyashi, 5G Technology in Healthcare: A detailed Survey, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore.
- Debasis Mondal, Shreya Adhikary, Tomal Suvro Sannyashi,
 IoT- Based Health Care Monitoring For Marginalized People,
 2nd International Conference on Engineering Design and

- Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Saurabh Basak, Debraj Chakraborty, Predictive Photo Responsivity of FASnBr3 using simulation, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Debasis Mondal, Shreya Adhikary, Tomal Suvro Sannyashi, Electrical Characterization of Mammalian Cells in Real-time: A Comprehensive Review, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Shayeri Das, Tomal Suvro Sannyashi, Debasis Mondal, Shreya Adhikary, Prabhat Ranjan, Tanmoy Chakraborty, Computational study of FeAsn (n=1-4) clusters invoking DFT based descriptors, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Tomal Suvro Sannyashi Debasis Mondal, Shreya Adhikary, Advances and Innovations in Heart Disease Detection: A Detailed Survey, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Shreya Adhikary, Debasis Mondal, Tomal Suvro Sannyashi, Automated Detection and Classification of Mass Calcifications in Breast Cancer Mammograms using Image Processing Techniques, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Sk Babul Akhtar, Pradipta Maiti, Enhanced Performance in Multiple Object Tracking: Kalman Filter Integration with Hungarian Algorithm and RMS Index Optimization, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Sk Babul Akhtar, Optimizing Object Tracking Precision through Extended Kalman Filter Dynamics: A Comprehensive Investigation and Performance Evaluation, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Sk Babul Akhtar, Modeling Error Factors in GNSS Observations for Precise Point Positioning and Accurate Position Estimation of Low Earth Orbit Satellites, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING | 81

- Pradipta Maiti, TVWS landscape: International and Indian Outlook, 2nd International Conference on Engineering Design and Computing (ICEDC), 2024, Swami Vivekananda University, Barrackpore
- Tanmoy Sinha Roy et. al, Comparison of Different Machine Learning Algorithms for EEG Signal Analysis, ICDAI 2024, Springer Conference, 2024

Journal

 Tanmoy Sinha Roy et. al, Improvement in the Performance of Deep Learning Based on CNN to Classify the Heart Sound by Evaluating Hyper-Parameters, Soft Computing, Springer (SCIE), 2024 (Accepted)

Books

 New Developments in Electronics Editors: Shreya Adhikary, Debasis Mondal, Debraj Chakraborty, ISBN No.: 978-93-6039-440-0

Patent

Patent application No. 6304212, Pradipta Maiti,
 "Al based Hand hygiene monitoring".

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

 Patent application No. 401672-001, Pradipta Maiti "IOT BASED WATER PURIFIER".

Conference / Workshop Organized:

- International Conference on Integrative Science and Engineering (ICISE) 2023 at SVU
- 2nd International Conference on Engineering Design and Computing (ICEDC)-2024 at SVU



DEPARTMENT OF MICROBIOLOGY

ABOUT DEPARTMENT:

The Department of Microbiology within the School of Life Sciences at Swami Vivekananda University is renowned for its exceptional faculty and commitment to nurturing an environment of experiential learning, entrepreneurship, and innovation. Our department delves deeply into the intricate world of microorganisms, highlighting their profound influence on the environment, health, and industry. We emphasize the mastery of advanced microbiological techniques and the cultivation of scientific acumen, ensuring our students can collaborate seamlessly with professionals across various scientific disciplines. This holistic approach not only enhances international understanding and collaboration but also equips our students for a multitude of rewarding career opportunities in research and development, healthcare, industry, academia, pharmaceuticals, environmental sciences, and beyond. To further enrich our students' expertise, the department consistently organizes events, hands-on training workshops, and seminars. These initiatives are designed to impart practical skills and professional knowledge, thereby preparing our students to excel in their chosen fields and contribute meaningfully to scientific and industrial advancements.

Department of Microbiology currently mentors approximately 21 research scholars under the guidance of dedicated and student-centric supervisors. The Department has a distinguished history of hosting numerous national and international conferences, seminars, and expert lectures, including prestigious events such as IACL-2023, ICSA-2023, and ICAL-2024. These events have featured honorable and diverse internal and international resource persons, including Prof. Suman Kumar Dhar from the Special Centre for Molecular Medicine, Dr. Rejina Afrin from the Department of Pharmacy at East West University, Dr. Subhra Chakraborty, Director

at NIPGR, Dr. Saptarshi Chatterjee, Associate Director of Incubation and Chief Coordinator at the E-YUVA Centre, Adamas University, amongst countless more stellar personalities. These eminent speakers and several other valued professionals have contributed their priceless insights, helping to shape the Department into its current dynamic and escalating form. Their participation has significantly enriched the academic environment, encouraging a culture of innovation and brilliance. The Department of Microbiology boasts a state-of-the-art central research laboratory facility equipped with advanced scientific instruments such as Fourier Transform Infrared Spectroscopy (FTIR), High Performance Liquid Chromatography (HPLC), Atomic Absorption Spectroscopy and Gas Chromatography-Mass Spectrometry (ASS), Thermal Cycler (PCR), Bioreactor, amongst others. This facility is designed to empower faculty members and scholars to engage in advanced scientific research, driving innovative contributions to their respective departments. Additionally, the department is preparing to launch a series of skill development workshops cum hands-on-training, like "Molecular Ecology and Molecular Farming", "Next Generation Sequencing & Computational Biology" and Nano-Biotechnology and Fourier Transform Infrared Spectroscopy (FTIR)", led by our esteemed faculties, to further enhance outside participation, strengthen scientific community reach and student expertise and broaden their academic horizons.

Additionally, the department has also launched a series of student skill development workshops combined with hands-on training. These include "Molecular Ecology and Molecular Farming," "Next Generation Sequencing & Computational Biology," and "Nano-Biotechnology and Fourier Transform Infrared Spectroscopy (FTIR)." led by our esteemed faculties, aim to enhance external participation, strengthen the scientific competence, and broaden student expertise and academic horizons. These workshops are specifically open to students from outside the university to help them enhance their technical expertise. The Department of Microbiology is committed to equip students for the demands of the modern workforce, fostering an entrepreneurial mindset and a scientific problem-solving approach. Our dedicated faculty members continuously develop innovative research areas to bridge the gap between academia and industry segments.

FACULTY DETAILS



Dr Pritha Pal
Assistant Professor

Research Area: Cancer genetics, environmental toxicology, medical microbiology, Research Interest. Cancer biology, meta remediation, microbiol gibrotechnology



Dr Subhasis Sarkar Assistant Professor Research Area: Antimicrobials & Bioremediation



Dr Aritri Laha
Assistant Professor

Research Area: Arsenic, Neary metal remediation, Plant Growth Promoting Bacteria Environment, Assessment, Bloocomulation of heavy metal Research Assessment, Bloocomulation of heavy metal.
Bloomerdiation, Agriculturu Microbiology, Ritzopher, Boterins Sollender, Sollender,



Dr Semanti Ghosh
Assistant Professor
Research Area: Structural
Biology & Bioinformatics



Assistant Professor

Research Area: Al Based

Drug Discovery for Human

Pathogenic Microbiota and

System Biology Study and

Therapeutics.

Ms. Suranjana Sarkar

PUBLICATIONS

a. Conference Publications

- Rupesh Dutta Banik, Uparna Dutta, Sneha Sahani, Shreya Saha, Subhankar Paul, Sibashish Baksi, Pritha Pal. "Impact Of Chronic Arsenic Toxicity on Human Health- A Review", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- Pritha Pal, Rittick Dutta, Shrabani Roy, Riya Majumder, Sibashish Baksi. "Severity Of Oral Carcinoma With Respect To Various Addictions- A Study In West Bengal", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- Madhusmita Padhi, Moumita Mukherjee, Sibashish Baksi*, Pritha Pal*. "Study Of Extent of Global Uranium Contamination in Groundwater", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- Uzma Ghazal, Pritha Pal, Sibashish Baksi. "HPV Vaccination: A
 Comprehensive Approach to Control Cervical Cancer", International Conference on Agriculture, Life Sciences, and Food
 Science 2023 (ICALF 2023) (published)
- Rupesh Dutta Banik, Pritha Pal, Sibashish Baksi. "Green Strategy for Reclaiming Ecosystem: Microbial Remediation of Leather Industry Wastes", International Conference on Agriculture, Life Sciences, and Food Science 2023 (ICALF 2023) (published)
- Mitra, S., Sarkar, S., De, D., Ghosh, S., Ghosh, B., & Sarkar, S. (2023).
 MANAGEMENT OF MICROBIAL BIOFILM USING NANO PARTICLE: A REVIEW. Journal of Advanced Zoology, 44.
- Das, D., Mandal, K., Bose, S.K, Chakraborty, Mistri, G., Laha, A., Ghosh, S., Aquatic Plants in phytoremediation of contaminated water: Recent knowledge and future prospects. *Journal of Advanced Zoology*.
- Ghosh, K., Pal, S., Das, D., Ghosh, S., Laha, A. The Significance of Nanomaterials In Enhancing Soil Microbial Community Short Review. Journal of Advanced Zoology.
- Datta, S., Sinha, A., Saha, A., Sardar, S., Bhattacharya, P., Laha,

- A. Phosphate Solubilizing Bacteria: A Promising Approach For Improving Phosphorus In Agricultural Soils.Laha, A. Journal of Advanced Zoology
- Pal, S., Ghosh, K., Das, Laha, A. Importance of PGPR in organic farming A Short Review. *Journal of Advanced Zoology*.
- Mandal, S., Chakraborty, A., Ghosh, S., Laha, A. Role Of Algae-Bacterial Consortium In Heavy Metal Contaminated Water Treatment. Journal of Advanced Zoology.
- Mandal, K., Das, D., Bose, S.K., Chakraborty, A., Mistri, G., Acharya, J., Laha, A. Ghosh, S. Ornamental Plant in phytoremediation of contaminated soils: Recent progress and future directions.
 Journal of Advanced Zoology.
- Das, D., Laha, A. Utilizing Nanomaterials Linked With Plant Growth-Promoting Bacteria For Agricultural Advancements A Short Review. *Journal of Advanced Zoology*.
- Saha,S., Maity,A., Laha, A. Phosphorus Solubilizing Microbes: Propitious Strategy For Biofertilization. *Journal of Advanced Zoology*.
- Bose, S.K., Chakraborty, A., Mandal, K., Das, D., Mistri, G., Kar, S., Laha, A., Ghosh, S. A review on phytoremediation capability of Tagetes erecta Linn. against heavy metals. *Journal of Advanced Zoology*.
- Sadhu, P., Sarkar, S., Laha, A., Ghosh, S., Ghosh, B., Sarkar, S., Oncolytic Viral Nanoparticles: A Combination Of Targeted And Immunotherapeutic Approach For Cancer Treatment: A Review. Journal of Advanced Zoology.
- Pal, S., Ghosh, K., Laha, A. Application Of Metagenomics In Agriculture. Journal of Advanced Zoology.
- Chakraborty, A., Mandal, S., Mandal, K., Das, D., Bose, S.K., Laha, A.,
 Ghosh, S.Potential Approach Of Mushrooms In Bioremediation

 A Short Review.
- Pal, S., Ghosh, K., Laha, A. Application Of Metagenomics In Agriculture. *Journal of Advanced Zoology*.
- Dutta, E., Ghosh, K., Pal, S., Laha, A. The importance of microbes in plastics degradation: A sustainable approach A Short Re-

- view. Journal of Advanced Zoology.
- Mistri, G., Mandal, K., Das, D., Kundu, S., Ghosh, S., Laha, A. Importance Of PGPR (Plant Growth Promoting Rhizobacteria) For Sustainable Agricultural Production. *Journal of Advanced Zoology*.
- Sutradhar, B.D., Ghosh, K., Halder, S., Sarkar, S., Laha, A.Revitalization Of Plant Growth Promoting Rhizobacteria As An Effective Bioinoculant To Enhance The Growth, Production, And Stress Tolerance Of Vegetable Crops. A Short Review. Journal of Advanced Zoology.
- Dutta, U., Jyote, S., Ghosh, K., Pal, S., Sengupta, S., Laha, A.Biore-mediation Of Contaminated Environments Through Mycology: A Review Of Current Advancements And Future Prospects A Short Review. *Journal of Advanced Zoology*.
- Bhattacharya, T., Ghosh, K., Laha, A., & Pal, P. (2023). STUDY OF ACUTE ARSENICTOXICITY ON A GLOBAL SCENARIO. Journal of Survey in Fisheries Sciences, 10(1S), 6442-6448.
- Ghorui, A., Pal, S., Pal, S., Ghosh, K., & Dutta, U. Laha, A (2023). Cadmium (Cd) Resistant Bacteria. Journal of Survey in Fisheries Sciences, 10(1S), 6463-6469.
- Pal, S., Ghosh, K., &Ghorui, A. Laha, A (2023). Potential of plant growth promoting bacteria to alleviate chromium pollution. *Journal of Survey in Fisheries Sciences*, 10(1S), 6454-6462.
- Banik, R.D., Mandal, R.K., Das, B., Pal, P., Baksi, S., Ghosh, S. "Phytotoxicity Study of Biogenic Mono-metallic and Bi-metallic (AuAg) Alloy NPs." Journal of Mines, Metals and Fuels, 71(11): 2084-2088; 2023. DOI: 10.18311/jmmf/2023/36098.
- Banik, R.D., Dutta, U., Sahani, S., Saha, S., Paul, S., Baksi, S., & Pal, P.
 "Impact of chronic arsenic toxicity on human health: A review."
 Journal of Survey in Fisheries Sciences, 10(1S), 2023; 6408-6413.
- Gharami, M., Chakraborty, S., Maira, S., Chatterjee, A., & Pal, P.
 "Impact of fluoride toxicity: A worldwide threat." Journal of Survey in Fisheries Sciences, 10(1S), 2023; 6486-6492.
- Nabi, A., Garai, S., Mondal, P., Pal, F., Ghosh, S., & Pal, P. "Effect of nitrate contamination in groundwater: A worldwide concern."
 Journal of Survey in Fisheries Sciences, 10(1S),2023; 6493-6497.

DEPARTMENT OF MICROBIOLOGY|| 87

- Padhi, M., Mukherjee, M., Baksi, S., & Pal, P. "Study of the extent of global uranium contamination in groundwater." Journal of Survey in Fisheries Sciences, 10(1S),2023; 6470-6479.
- Bhattacharya, T., Ghosh, K., Laha, A., & Pal, P. "Study of acute arsenic toxicity on a global scenario." Journal of Survey in Fisheries Sciences, 10(1S), 2023; 6442-6448.
- Roy, S., Ghoshal, A., Panda, R., Pal, P., & Ghosh, S. "A review on bio-inspired and green synthesis of silver nanoparticles with their antimicrobial activity." Journal of Survey in Fisheries Sciences, 10(1S), 2023; 6353-6358.
- Ghazal, U., Pal, P., & Baksi, S. "HPV vaccination: A comprehensive approach to control cervical cancer." Journal of Survey in Fisheries Sciences, 10(1S), 2023; 6480-6485.
- Banik, R.D., Pal, P., & Baksi, S. "Green strategy for reclaiming ecosystem: Microbial remediation of leather industry wastes."
 Journal of Survey in Fisheries Sciences, 10(1S), 2023; 6432-6441.
- Ghorui, A., Pal, S., Pal, S., Ghosh, K., Dutta, U., Sutradhar, B.D., Das,
 D., Pal, P., Laha, A. "Cadmium (Cd) bacteria." Journal of Survey in
 Fisheries Sciences, 10(1S),2023; 6463 6469.
- Barik, R., Pal, P. "Study of Impact of Dietary Factors on Prevalence of Colon Cancer." Journal of Advanced Zoology. Vol. 44
 No. S6, 2023; 1674–1683. https://doi.org/10.17762/jaz.v44iS6.2590.
- Maira, S., Dhar, S., Pal, P. "A Review on Association of Diet and Lifestyle with the occurrence of Hepatocarcinoma." Journal of Advanced Zoology. Vol. 44 No. S6, 2023;2557-2566. https://doi. org/10.53555/jaz.v44iS5.3280.
- Halder, S.D., Bandopadhyay, B., Pal, P. "Role of Live Microorganisms in Colon Cancer- A Review on Probiotic Effect." Journal of Advanced Zoology. Vol. 44 No. S6, 2023;2625-2629. https://doi.org/10.53555/jaz.v44iS5.3485.
- Juned, U., Pal, P. "Deciphering Nitrogen Fixing Role Of Various Fungal Species A Study." Journal of Advanced Zoology. Vol. 44
 No. S6, 2023;2507–2512. https://doi.org/10.53555/jaz.v44iS5.3216.
- Chourasia, A., Pal, P. "Black Pepper Being a Potent Anti-Carcinogen- A Short Review." Journal of Advanced Zoology. Vol. 44 No. S6, 2023;2665-2670. https://doi.org/10.53555/jaz.v44iS5.3477.

- Banik, R.D., Pal, P. "Study of Microbial Impact on Lead Remediation in Industrial Wastewater." Journal of Advanced Zoology. Vol. 44 No. S6, 2023;2472-2477. https://doi.org/10.53555/jaz. v44iS5.3209.
- Chatterjee, A., Pal, P. "Diet and Epidemiology- Their Effect on Esophageal Carcinoma." Journal of Advanced Zoology. Vol. 44 No. S6, 2023;2600-2606. https://doi.org/10.53555/jaz. v44iS5.3289.
- Dey, D., Pal, P. "Garlic A Diet Therapy for Various Cancers."
 Journal of Advanced Zoology. Vol. 44 No. S6, 2023;2368-2375.
- Chakraborty, S., Pal, P. "Impact of Lifestyle & Diet on Prevalence of Oral Cancer." Journal of Advanced Zoology. Vol. 44 No. S6, 2023;2591–2599. https://doi.org/10.53555/jaz.v44iS5.3287.
- Banik, R.D., Pal, P. "MicrobialRemediation as An Emerging Industrial Wastewater Treatment Process for Arsenic Extenuation." Journal of Advanced Zoology. Vol. 44 No. S6, 2023; 1621–1628. https://doi.org/10.53555/jaz.v44iS6.2581.
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b. Book Chapter

- Recycling of waste water through natural filtration techniques:
 Possibilities and Challenges- Bidisha Ghosh, PijushMallick,
 Kaustuv Das, Sukhen Das.
- Innovative and Hybrid Technologies for Waste water Treatment and Recycling ". Bidisha Ghosh, Suranjana Sarkar, Semanti Ghosh. CRC PRESS/Taylor & Francis Group (Communicated)
- Carolina Krebs de Souza, Sabyasachi Ghosh, Swarup Roy, "Valorization of Agro-wasteDerived Materials for FoodPackaging Application", Book Title: Sustainable Materials for Food Packaging and Preservation, Chapter 9, [ELSEVIER, ISBN: 9780443135675]
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- Pal P, De D, Dutta Banik R, Paul S. An overview of the mechanistic approach to RNA interference, 2023 (Submitted)

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- Chourasia S, Pal P. Impactofchlordeconeexposureonreproductivesystem-a concise review (ICSA 2023) (Submitted)
- Das R, Pal P. The mechanistic approach of arsenic mediated neurotoxicity-a concise review. (ICSA 2023) (Submitted)
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- Banik, R.D., De, D., Pal, P. (2023). BOOK CHAPTER HORIZONTAL
 GENE TRANSFER IN THE EVOLUTION OF MICROBIAL GENOMES
- Paul, S., De, D., Pal, P., Ghosh, B. (2023). BOOK CHAPTER UNVEIL-ING EPIGENETICS AND HUMAN DISEASES: FOCUS ON CANCER EPI-GENETICS. (In Submitted)
- Pal, P., De, D., Banik, R.D., Paul, S. (2023). BOOK CHAPTER AN OVER-VIEW OF THE MECHANISTIC APPROACH TO RNA INTERFERENCE. (In Submitted)
- De, D., Pal, P., Banik, R.D., Paul, S. (2023). BOOK CHAPTER UNRAV-ELING THE WONDERS OF GENOME SEQUENCING AND IT'S ADVANCE METHOD NEXT GENERATION SEQUENCING. (In Submitted)
- De, D., Nayak, T., Dhal, P.K. (2023). BOOK CHAPTER METAGENOM-ICS AND BIOINFORMATICS IN MICROBIAL ECOLOGY: CURRENT STATUS AND BEYOND.(In Press)
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C. Journal

- Ghosh, A., Naskar, P., Dey, S., Mukherjee, S., Biswas, S., Das, R., Sarkar, S., Ghosh, S., Ghosh, B., Sarkar, S. The Key to A Sustainable Future - Algal Biofuel, *Journal of Survey in Fishery Sciences*. Vol. 10 No. 1S (Special issue 1), 6395-6400.
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- Ankit Pal, Shreyoshi Pal, Saikat Manna, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Unlocking The Potential of Phytochemicals in Anti-Diabetic Therapy: Mechanisms, Challenges, And Future Prospects. *Journal of Advanced Zoology*, 44(S6), 2284–2289. https://doi.org/10.53555/jaz.v44iS6.3713
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- Anwesha Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Recombinant Hormones: Applications And Challenges. *Journal of Advanced Zoology*, 44(S6), 2279–2283. https://doi.org/10.53555/jaz.v44iS6.3712
- Deeti Das, Sudipta Chakraborty, Moumita Mukherjee, Susoma Garai, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. (2023). Revolutionizing the Biological Landscape: the Power of Genome Editing. *Journal of Advanced Zoology*, 44(S5), 2446–2450. https://doi.org/10.53555/jaz.v44iS5.3199
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- Pal, P., Dutta, R., Roy, S., Majumder, R., Baksi, S. 2023. "Severity of Oral Carcinoma with Respect to Various Addictions- A Study in WestBengal." Journal of Survey in Fisheries Sciences, 10(1S), 6658-6662.
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d. Books

"Microbiome Principles and Explorations", ISBN: 978-93-5980-246-6

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

Seminars

- 1. National Technology Day Celebration.
- 2. Faculty Development Programme with Prof. Santasree Banerjee from Jilin University, China
- 3. Faculty Development Program by Dr. Saptarshi Chatterjee, Associate Director of Incubation & Chief Coordinator at the E-YUVA Centre, Adamas University, supported by BIRAC (Biotechnology Industry Research Assistance Council).
- 4. One day seminar by Dr. Subhra Chakraborty, Director of the National Institute of Plant Genome Research, and Prof. Prasanta Kumar Panigrahi, Director of IISER.
- 5. International Microorganism Day Celebration.
- 6. World Habitat Day Celebration.
- 7. World Cancer Awareness Day Celebration.
- 8. Seminar on Plant Genome Sequencing.
- 9. World Entrepreneurs' Day Celebration
- 10. Vivek Jyoti Ananya Samman Prof. Partha P. Majumder, a luminary in the field of academia and a distinguished National Science Chair for Scientific Excellence appointed by the Government of India.
- 11. World Cancer Day Celebration.
- 12. National Science Day Celebration.
- 13. National Vaccination Day Celebration.
- 14. World Down's Syndrome Day Celebration.
- 15. Journal Club- Department of Biotechnology.

Conference

- 1. ICSA- 2023
- 2. ICALF- 2024

Workshop

1. Student's Hands-on training on Molecular Biological Tech-

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- niques conducted with Andragogy.
- 2-Month Crash Course on Modern Biological Techniques and Soft Skills Grooming Program
- 3. International Workshop on Computer-aided Drug Designing and Discovery by PreScience.
- 4. Bioinformatics & Communicative English Workshop conduct-

ACHIEVEMENT OF THE DEPARTMENT

ed by department of Biotechnology & Department of English.

- MoU with Andragogy.
- 2. MoU with SynBiogenesis.
- 3. Departmental faculty participation in Regional Young Investigators Meet by Dr Pritha Pal and Dr Aritri Laha.
- 4. Central advanced research laboratory facility equipped with high-end instruments such as UV-Visible Spectroscopy, High Performance Liquid Chromatography (HPLC), Atomic Absorption Spectroscopy (AAS), Fourier Transform Infrared Spectroscopy (FTIR), Gas Chromatography Flame Ionization Detector (GC-FID), Rotary Evaporator, and Filtration Assembly has been set up by the department.
- 5. Departmental book publication "Microbiome Principles and Explorations", ISBN: 978-93-5980-246-6.



DEPARTMENT OF OPTOMETRY

ABOUT DEPARTMENT:

Swami Vivekananda University is among one of the Best University in West Bengal for Optometry courses. Optometry means a health care professional that is autonomous, educated and regulated concerned with examination of eye and visual system, detection and management of refractive error, visual rehabilitation, investigative diagnosis and primary management of ocular diseases. Optometry as a profession has the primary health care responsibility for eliminating uncorrected refractive error. Optometrist as a comprehensive eye care practitioners have vital role in detecting potentially serious eye diseases such as cataract, glaucoma and Diabetic retinopathy, age-related maculopathy, as well as general health conditions such as hypertension, diabetes which means Optometrists also helps to reduce the burden of other causes of blindness. Optometry can and should play a leading role in eye care provision at the primary level, and can also assist at secondary and tertiary levels where possible, working with ophthalmologists and other eye care providers towards the unified goal of combating blindness.

The primary roles of our department of optometry is to educate and train future optometrists. This involves offering undergraduate and graduate programs in optometry, which typically include coursework in anatomy, physiology, optics, pharmacology, and clinical training. Departments of optometry also engage in research activities aimed at advancing the understanding of eye diseases, improving treatment methods, developing new technologies for vision correction, and exploring the relationship between eye health and overall health. In addition to academic programs, departments of optometry also provide clinical services to the community. That include routine eye exams, fitting contact lenses, managing eye diseases like glaucoma or macular degeneration, and providing vision therapy. Department of optometry frequently engage in outreach programs to educate the public about eye health and the importance of regular eye exams. This involve partnerships with schools, community centers, and healthcare organizations to provide screenings and educational materials.

Structure and Organization:

- Faculty: We have senior Optometrists, vision scientists, and other healthcare professionals as faculty members who teach students, conduct research, and provide clinical care.
- **Facilities:** Include clinics, laboratories, classrooms, and research spaces equipped with specialized equipment for diagnosing and treating eye conditions.
- Accreditation: Department of Optometry meets accreditation standards set by professional bodies and regulatory agencies to ensure that their educational programs and clinical services meet quality benchmarks.

Why Department?

Choosing a Bachelor of Optometry (BOPT) course at Swami Vivekananda University can offer several advantages and benefits. Here are some reasons why you might consider pursuing a BOPT course at this university:

- Swami Vivekananda University provides a well-structured and comprehensive curriculum that covers all the essential aspects of Optometry. You can expect to receive in-depth knowledge and practical training in various Optometric and vision science and procedures.
- This university is accredited by relevant educational authorities, ensuring that the program meets established standards.
- Swami Vivekananda University has experienced faculty members who are experts in the field of Optometry. They can provide valuable insights, mentorship, and guidance throughout your academic journey.
- This university has well-equipped laboratories and access to the latest instruments for eye examination. This ensures that you gain hands-on experience with advanced tools commonly used in the health care sectors.
- In our university, BOPT program incorporates clinical rotations or internships in eye hospitals. This allows you to apply your theoretical knowledge in clinical settings, preparing you for the demands of the profession.
- Here you are provided with a conducive environment for networking and collaboration. You have the opportunity to interact with peers, faculty, and professionals in the medical and healthcare fields, expanding your professional connections.
- Pursuing a degree at a university can contribute to your personal growth and development. Apart from academic knowledge, you can cultivate critical thinking, problem-solving skills, and effective communication abilities.
- A BOPT course from this university can serve as a stepping stone to advanced degrees or specialization in Optometry. If you have aspirations to pursue higher education, a university background can be beneficial.

FACULTY DETAILS



Dr. Dipanwita Ghosh Assistant Professor & Head

Research Area: Binocular Vision, Vision Therapy, Community Optometry



Dr. Prabirendra Nath Sinha Assistant Professor

Research Area: Pediatric myopia



Dr. Manas Chakraborty Assistant Professor

Research Area: Vision therapy, contact lens



Assistant Professor Research Area: Public health, Dry eye, Digital eye strain



Ms. Anusuva Das Assistant Professor Research Area: Community Optometry



Mrs. Rikta Paul Assistant Professor Research Area: Low Vision



Ms. Srimanti Sarkar Teaching Assistant Research Area: Vision Therapy, Occupational Optometry



Ms. Sudha Prasad Teaching Assistant Research Area: Vision therapy, Behavioural optometry

PUBLICATIONS

Conference:

- Dipanwita Ghosh. Does eye exercises along with physical training helps in achieving better sports performance? Effect of vision therapy on basketball players. Int. J. Ophthalmol. Optometry 2024;6(1):14-19. DOI: 10.33545/26648547.2024.v6.ila.26
- Juhi Verma and Dipanwita Ghosh. Association of congenital ptosis and prematurity of infants with refractive error, strabismus and Amblyopia and their prevalence in pediatric age group. Int. J. Ophthalmol. Optometry 2024;6(1):20-23. DOI: 10.33545/26648547.2024.v6.ila.27
- Arup Saha and Bulti Saha Debnath. A review study on prevalence of refractive error among school going, pre-school going and adults in urban and suburban areas. Int. J. Ophthalmol. Optometry 2024;6(1):01-06. DOI: 10.33545/26648547.2024. v6.i1a.24
- Monika Ojha B, Arup Saha, Dr. Manas Chakrabarty, Dr. Prabi-

rendra Nath Sinha and Bulti Saha Debnath. Prevalence of diabetic eye diseases among target population in urban area of India. Int. J. Ophthalmol. Optometry 2024;6(1):07-13. DOI: 10.33545/26648547.2024.v6.ila.25

Research Papers:

- Ghoshal, Rituparna & Ghosh, Dipanwita & Ghosh, Somnath & Mukherjee, Gopeswar. (2023). Impact of climate change and related environmental factors on eye health in India A narrative review. Ecology, Environment and Conservation. 29. 845-850. 10.53550/EEC.2023.v29i02.051.
- Ghoshal, R., **Ghosh, D.**, & Ghosh, S. (2023). Dichoptic Vision Therapy in Adults with Anisometropic Amblyopia: A Systematic Review. *Malaysian Journal of Medicine & Health Sciences*, 19(4).
- Saeed A, Razvi J, Dubey G, Kumari V, Ali J, Bano S, Chhugan M, Kamat O S, Sharma K, Paul R, Ocular morbidity pattern in Kashmir A hospital-based study. Indian J Clin Exp Ophthal-mol 2022;8(2):239-244.

Book Chapter:

- "Pearls of Clinical Optometry", ISBN 978-93-6076-131-8, by Dipanwita Ghosh, Arup Saha, Prabirendranath Sinha, Manas Chakraborty.
- "Contact Lens Practice Manual", ISBN 978-93-340-7136-8, by Dipanwita Ghosh, Rikta Paul, Arup Saha, Sudha Prasad, Prabirendranath Sinha, Manas Chakraborty, Srimanti Sarkar, Anu-

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

suya Das.

- Two Days workshop on "Contact Lens Conclave" on 7th & 8th July 2023
- Hands on Workshop on "Arts of Ophthalmic Dispensing" on 5th August 2023

- Hands on Workshop on "Decoding Patients Through Orthoptic Evaluation" on 22nd July 2023
- Hands on Workshop on "Pearls of Low Vision & Rehabilitation" on 21st August 2023.
- World Sight Day Celebration awareness campaign on 12th October 2023
- "Global Healthcon 2023" two days international conference on 28th and 29th September 2023
- Workshop on "Binocular Vision & Vision therapy" on 12th March 2024
- Hands on Workshop on "Scleral Contact Lens" on 13th March 2024
- Hands on Workshop on "Low Vision & Rehabilitation" on 15th March 2024
- Seminar on "Advancing Optometry Commitment to global Eye Care" to celebrate World Optometry Day on 23rd March 2024
- "Global Healthcon–2024 (Phase 1)" two days internation on 22nd & 23rd February'2024
- "Global Helathcon-2024 (Phase 2)" two days international conference on 21st & 22nd June'2024

Journal:

• "Journal of Vision Sciences & Clinical Optometry"

ACHIEVEMENT OF THE DEPARTMENT

- Best Poster Award at Bengal Optometry Conference 2024
- Best Poster Award at 2nd Mini ICLEP at LVPEI Eye Hospital



DEPARTMENT OF CIVIL ENGINEERING

ABOUT DEPARTMENT:

The Civil Engineering Department at Swami Vivekananda University is a hub of academic excellence, offering a comprehensive range of programs including Diploma, B. Tech, M. Tech, and Ph.D. The department is committed to providing a holistic education, blending theoretical knowledge with practical skills. With stateof-the-art laboratories, students have access to cutting edge equipment and technology, ensuring hands on learning experiences. Our distinguished faculty, hailing from prestigious institutions such as IITs and NITs, brings a wealth of expertise to the department. Their commitment to quality education and research enhances the overall academic environment. Additionally, the department fosters a culture of continuous learning and professional development, providing ample opportunities for students to engage in internships, industry collaborations, and skill building activities. Recognizing the importance of a smooth transition from academia to industry, the department places a strong emphasis on training and placement. Through strategic partnerships with leading companies, students benefit from exposure to real world challenges, preparing them for successful careers in civil engineering. At Swami Vivekanand University's Civil Engineering Department, we take pride in shaping the future leaders of the field.

FACULTY DETAILS



Dr. Abir Sarkar

HOD, Civil Engineering

Research Area: Vibration screening, Soil Dynamics, Finite Element modelling, soft computing, geophysical investigation



Mr. Sunil Priyadarshi
Assistant Professor

Research Area: Soil
Stabilization in Geotechnical
Engineering.



Dr. Ashes Banerjee
Assistant Professor

Research Area: Flow through porous media water quality

FACULTY DETAILS



Dr. Nilanjan TarafderAssistant Professor

Research Area: Structural Concrete, Advanced Concrete Materials, Analysis and Design of Reinforced Concrete (RC, Structures, Analysis and Design of Steel



Dr. Tamal KunduAssistant Professor

Research Area: Structural Health Monitoring, Retrofitting, Dynamic Analysis, Finite Element Analysis, Artificial Intelligence Optimization Techniques



Dr. Abhisek Adhikary Assistant Professor

Research Area: Environmental and Geo- environmental Engineering, Contaminant Transport, Wastewater Treatment



Mrs. Debanjali Adhikary Assistant Professor

Research Area: Geotechnical and Geo-environmental Engineering



Sushmita Ghosh Technical Assistant



Sarnali Sarkar Technical Assistant

Research Area: N/A

PUBLICATIONS

a. Conference Publications:

- Abir Sarkar, "Application of Soft Computing Techniques for Prediction of Seismic Wave Velocity," 9th International Conference on Control, Decision and Information Technologies (CoDIT), 2023.
- Avishek Adhikary, "Transformation of heavy metals and Amelioration of saline and sodic soils on Wetland Rice Fields," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 3. Avishek Adhikary, "Growth and effect on weed on Wetland Rice Fields," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 4. Avishek Adhikary, "Review on Soil Stabilization Techniques using Geopolymer," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 5. Avishek Adhikary, "Study on Partial Replacement of Cement by Rice Husk Ash in Concrete," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 6. Avishek Adhikary, "Arsenic laden drinking water treatment: A review," 2nd International Conference on Engineering Design

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- and Computing (ICEDC-2024).
- 7. Avishek Adhikary, Debanjali Adhikary, "Fly ash and Bentonite mixed Laterite Soil: A potential cost-effective and sustainable ash pond liner," International Conference on Integrative Science and Engineering (ICISE-2023).
- 8. Avishek Adhikary, Debanjali Adhikary, "Evaluation of Heavy Metal Contamination Levels in Industrial Areas Near Durgapur," International Conference on Integrative Science and Engineering (ICISE-2023).
- 9. Debanjali Adhikary, Avishek Adhikary, "Calcite precipitation caused by microbes bio-stabilizing cohesive soil," International Conference on Integrative Science and Engineering (ICISE-2023).
- 10. Debanjali Adhikary, Avishek Adhikary, "2,4-Dichlorophenoxyacetic Acid, (2,4-D) Contaminated Soil Electro-restoration: An Experimental Approach," International Conference on Integrative Science and Engineering (ICISE-2023).
- 11. Debanjali Adhikary, Avishek Adhikary, "Efficacy evaluation of laterite Soil as liner in waste containment structures for removal of Ni and Pb from leachate: Physical and numerical modelling," International Conference on Integrative Science and Engineering (ICISE-2023).
- 12. Debanjali Adhikary, Joy Kumar Mondal, "Correlation for estimating amplification factors due to sub-soil condition and input motion PHA for Guwahati," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 13. Debanjali Adhikary, "A review on the potential of Biomass Briquettes Ash (BBA), used as pozzolan in cement, as an alternative to Fly Ash (FA)," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 14. Debanjali Adhikary, "A Review on Performance Improvement of Differential Pressure Flowmeter," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 15. Debanjali Adhikary, "Review on the Positive Impacts of Blue-

- Green Algae and Azolla on Wetland Rice Fields," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 16. Debanjali Adhikary, "Role of ammonia Volatilization and phosphorus transformation on Wetland Rice Fields," 2nd International Conference on Engineering Design and Computing (ICEDC-2024).
- 17. Sunil Priyadarshi, "Optimizing the use of Reclaimed Paving Materials in Granular Sub Base for Road Construction: An Extensive Analysis," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 18. Sunil Priyadarshi, "Review on the Influence of Alccofine on Concrete Characteristics with Different Grades," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 19. Sunil Priyadarshi, "Biochar's Impact on Soil Mechanical Properties: A Comprehensive Review of Mechanisms and Implications," International Conference on Integrative Science and Engineering (ICISE)–2023.
- 20. Sunil Priyadarshi, "Reviewing the Landscape of Fiber Reinforced Concrete (FRC): A Comprehensive Examination of Enhancements for Structural Integrity," International Conference on Integrative Science and Engineering (ICISE)–2023.
- 21. Sunil Priyadarshi, "Innovative Roof Waterproofing Using Crushed Rubber Tire Crumb in M25 Concrete," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 22. Sunil Priyadarshi, "Enhancing black cotton Soil Stability through Bagasse Ash: A Comprehensive Study on Soil Stabilization Techniques," 2nd International Conference on Engineering Design and Computing (ICEDC)–2024.
- 23. Sunil Priyadarshi, "Exploring Sustainable Practices: A Study on the Utilization of Reclaimed Asphalt Pavement (RAP) Materials in Flexible Pavements," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.

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- 24. Sunil Priyadarshi, "Investigating the Impact of Silica Fume on Concrete tensile characteristics: A Comprehensive Review," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 25. Sunil Priyadarshi, "Utilization of Alternative Technologies and Materials for the Development of Rural Roads with Low Traffic Volume," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 26. Sunil Priyadarshi, "Bamboo's Contribution to Sustainable Development in the Construction Industry: A Comprehensive Review," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 27. Ashes Banerjee, "Optimized Water Supply Network Design for Rural West Bengal: A Case Study," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 28. Ashes Banerjee, "Proposing a Characteristic Length Definition for Flow Characterization in Porous Media: A Methodology for Estimating Hydraulic Radius," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 29. Ashes Banerjee, "Optimizing Furrow Irrigation for Sustainable Agriculture in a Changing World," International Conference on Integrative Science and Engineering (ICISE)–2023.
- 30. Ashes Banerjee, "Applicability of Random Forest Model for Predicting Groundwater Table in Birbhum District, West Bengal India," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 31. Ashes Banerjee, "Adaptive Strategies for Sustaining Sagar Island: A Comprehensive Review of Climate Resilience, Erosion Management, and Community Engagement," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 32. Ashes Banerjee, "A Comprehensive Review on the Strength Properties of Laterite Stabilized with Sand: Implications for Sustainable Construction Practices," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.

- 33. Ashes Banerjee, "Comprehensive Overview of Kamrup Metropolitan District: Demographics, Geography, and Challenges in Water and Energy Availability," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 34. Ashes Banerjee, "Improvement of Soil Index Properties by Adding Stone Dust Mix-A Review," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 35. Ashes Banerjee, "Integrated Coastal Management Strategy for Safeguarding Riverine Islands Against the Impacts of Climate Change," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 36. Ashes Banerjee, "Application of Machine Learning Techniques in Modeling Porous Media Flow for Enhanced Understanding and Predictive Analysis," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 37. Samir Kumar, "Review Paper on Eccentric Wings in Bridge Deck," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 38. Samir Kumar, "Reviewing the Landscape of Fiber Reinforced Concrete (FRC): A Comprehensive Examination of Enhancements for Structural Integrity," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 39. Samir Kumar, "Innovative Strategies for Enhancing Flutter Resistance in Bridge Structure: A Focus on EccentricWing Flutter stabilizer," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 40. Samir Kumar, "Advancement in Fiber Reinforcement Concrete: A Comprehensive Review," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 41. Samir Kumar, "Review Paper on Multistorey Building Structure and Seismic Analysis," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 42. Samir Kumar, "Innovative Solution for Sustainable Construction: A Comprehensive Study on Environment Challenges,

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- Structural Optimization, and Performance Evolution of Bubble Deck Slabs in Concrete Construction," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 43. Tamal Kundu, "Concept and Different Aspects of Artificial Intelligence," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 44. Tamal Kundu, "Advancements in Structural Engineering Through Artificial Intelligence: A Comprehensive Review," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 45. Tamal Kundu, "Advancements in Data Generation with Artificial Intelligence," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 46. Tamal Kundu, "Understanding Train Accidents Due to Rail Track Failure," 2nd International Conference on Engineering Design and Computing (ICEDC)–2024.
- 47. Tamal Kundu, "Train Accidents in India: Addressing the Need for Track Health Monitoring Systems," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 48. Abir Sarkar, "Effect Of Nano Silica On The Compressive Strength Of Concrete," 2nd International Conference on Engineering Design and Computing (ICEDC)–2024.
- 49. Abir Sarkar, "Improvement in Different Material Properties Using a Mix of Red Mud and Pond Ash as Filling and Embankment Material," 2nd International Conference on Engineering Design and Computing (ICEDC)–2024.
- 50. Abir Sarkar, "Enhancing Geotechnical Properties of Expansive Soil with Bagasse Ash, Lime, and Quarry Dust," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 51. Abir Sarkar, "Vulnerability Analysis Of Cantilever Retaining Wall Subjected To Pulse Like Ground Motion," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 52. Abir Sarkar, "Vulnerability Analysis Of Cantilever Retaining Wall

- Subjected Seismic Loading," 2nd International Conference on Engineering Design and Computing (ICEDC)-2024.
- 53. Bishnu Pada Bose, "Development of light weight bricks for energy efficient buildings using rice husk," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 54. Bishnu Pada Bose, "Effective utilizations of red mud with emphasis on circular economy," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 55. Abir Sarkar, "Dynamic seismic analysis of multi-storied buildings having different heights for all seismic zones in India," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 56. Abir Sarkar, "Modelling Approaches and Machine Learning In Structural Engineering," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 57. Abir Sarkar, "Experimental Study on Determination of Crack Depth Using Ultrasonic Pulse Velocity Test (USPV)," International Conference on Integrative Science and Engineering (ICISE)-2023.
- 58. Abir Sarkar, "Vibration screening by using High-density polyethylene," International Conference on Integrative Science and Engineering (ICISE)-2023.

b. Book Chapter:

1. Ashes Banerjee, and Asha Rani N. R (2023) Application of Artificial Intelligence and Machine Learning Technique for Nonlinear Flow Modelling Applicable in Petroleum Exploration and in Porous Media Flow. In International Symposium on Sustainable Energy and Technological Advancements, pp. 105-112. Singapore: Springer Nature Singapore.

C. Journal:

1. Barman, R., Sarkar, A., & Bhowmik, D. (2023). Composite Sand-Crumb Rubber and Geofoam Wave Barrier for Train Vibra-

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- tion. Geotechnical and Geological Engineering. https://doi.org/10.1007/s10706-023-02674-4
- 2. Bisui, M., Chatterjee, S., Sarkar, A., & Ralli, R. (2023). Numerical and Experimental Analysis of Vibration Mitigation Using a Series of Hollow Boreholes. Journal of Vibration Engineering & Technologies, 0123456789. https://doi.org/10.1007/s42417-023-01181-3
- Sarkar, A., Mazumdar, A., & Bhowmik, D. (2023). Application of Soft Computing Techniques for Prediction of Seismic Wave Velocity. 2023 9th International Conference on Control, Decision and Information Technologies (CoDIT), 2532–2537. https://doi.org/10.1109/CoDIT58514.2023.10284120
- Sarkar, A., Bhowmik, D. (2023). Prediction of Seismic Wave Velocity Using Artificial Intelligence. In: Sil, A., N. Kontoni, DP., Pancharathi, R.K. (eds) Recent Trends in Civil Engineering. Lecture Notes in Civil Engineering, vol 274. Springer, Singapore. https://doi.org/10.1007/978-981-19-4055-2_42
- 5. Maitra, S., & Sarkar, A. (2024). Effect of nano-silica in construction practices. International Journal of All Research Education and Scientific Methods (IJARESM), 12(5), 4059. Available online at: www.ijaresm.com. ISSN: 2455-6211.
- 6. Das, B., & Sarkar, A. (2024). Improvement in different properties of material using pond ash & red mud mix as embankment & filling materials. International Journal of All Research Education and Scientific Methods (IJARESM), 12(5), 3766. Available online at: www.ijaresm.com. ISSN: 2455-6211.
- 7. Majumdar, H. G., & Sarkar, A. (2024). Improvement in geotechnical properties of expansive soil using different grain sizes of bagasse ash, lime, & quarry dust. International Journal of All Research Education and Scientific Methods (IJARESM), 12(5), 3432. Available online at: www.ijaresm.com. ISSN: 2455-6211.
- 8. Joy Kumar Mondal (2023). A new frequency domain framework of inverse ground response analysis for the determination of dynamic soil properties in a two-layered system. International Journal of Geomechanics. 31-08-2023. (SCOPUS, SCIE, Web of Science, 1532-3641).

- 9. Bishnupada Bose (2023). Valorization of iron ore tailing (IOT) waste through the circular economy concept: A sustainable solution. International Journal of Earth Sciences Knowledge and Applications. 25-08-2023. (2687-5993).
- 10. Sourav Ghosh & Debanjali Adhikary (2024). A review on the potential of biomass briquettes ash (BBA) used as pozzolan in cement as an alternative to fly ash (FA). Journal of Cement and Concrete Research. 03-04-2024. (Scopus Indexed Journal, 2292-1399).
- 11. Ashes Banerjee, Sunil Priyadarshi, & Samir Kumar (2024). Proposing a Characteristic Length Definition for Flow Characterization in Porous Media: A Methodology for Estimating Hydraulic Radius. Journal of Mines, Metals and Fuels, 71(12A), 398–403. (Scopus)
- 12. Soumya Guchhait, Ashes Banerjee, Ketan Kumar Nandi, Subashisa Dutta, Socio-Economic Dimensions of Assam Flood damage, Natural Hazards, Springer, SCIE, IF: 3.102 (Under Review) 16.
- 13. Ashes Banerjee, Ayan Chatterjee, Ashwin Singh, Srinivas Pasupuleti, Venkatesh Uddameri A Copula-Based Risk Assessment Approach for Monitoring Water Quality Parameters in Remote Rural Area under review Environmetal Science and pollution Research (Accepted, Springer, SCIE, I.F: 5.6)
- 14. Avishek Adhikary, Sandeep Kumar, Supriya Pal, Sudipta Ghosh, Hirok Chaudhuri, Mrinal Kanti Mondal (2023) "Efficacy evaluation of silty-sandy soil and Chrysopogon zizanioides to attenuate doxycycline from wastewater in a Constructed wetland system" Journal of Environmental Engineering (ASCE). 149 (6): 04023024. https://doi.org/10.1061/JOEEDU.EEENG-7117
- 15. Avishek, Tapabrata Chakraborty, Pradyumna Konar, Supriya Pal, Sudipta Ghosh (2023) "Attenuation of erythromycin-laden waste water using the constructed wetland technique" Environmental Geotechnics (ICE). https://doi.org/10.1680/jenge.22.00082
- 16. Avishek Adhikary, Suchhanda Mondal, Jhilik Gantait, Supriya

Pal, Sudipta Ghosh (2023) "Evaluation of Lightweight Expanded-Clay Aggregates as Bed Material in Constructed Wetlands for Attenuation of Antibiotics" Journal of Environmental Engineering (ASCE). 149 (11): 04023074. https://doi.org/10.1061/JOEE-DU.EEENG-7368

- 17. Abdul Waris Kenue, Eedy Sana, Avishek Adhikary, Supriya Pal, Majid Hussain (2023) "Assessment of Landfill Leachate and Its Surface and Subsurface Migration: Experimental and Numerical Investigations" Journal of Hazardous Toxic and Radioactive Waste (ASCE) 27(4): 05023003. https://doi.org/10.1061/JHTRBP.HZENG-1227
- 18. Chandrima Bhadra, Avishek Adhikary, Supriya Pal, Kalyan Adhikari (2023) "Modelling of Migration of Cr (VI) contaminant through clay liner using HYDRUS-3D" Sustainable Technologies for Industrial Pollution Control (Springer). Pp-271-286.

d. Books:

- 1. Integrated Perspectives in Civil Engineering: Geotechnical, Structural, Water Resources and Environmental Aspects, Volume I, 978-93-5967-828-3, (https://doi.org/10.5281/zenodo.11208122)
- Integrated Perspectives in Civil Engineering: Geotechnical, Structural, Water Resources and Environmental Aspects, Volume II, 978-93-5967-828-3, Second Edition: June, 2024 Publisher: Swami Vivekananda University (Institutional Publisher), Kolkata-700121, India

ACHIEVEMENT OF THE DEPARTMENT

- Organised keynote speech of 2nd International Conference on Integrated Science and Engineering, September, 2023.
- International Conference on Engineering Design and Computing (ICEDC)-2024- February, 2024.

• 2nd International Conference on Engineering Design ANANDA UNIVERSI and Computing (ICEDC)-2024- June, 2024.

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

- Provided quality assurance service over 20 construction projects in and around Barrackpore.
- **Placement Details:**

Company Name	No of Students selected
MKC Infrastructure	9
KAM Tower Ltd	16
5 VDC Kolkatta	5
KPR Ltd	11
JIS Infra	4
Bhate &Raje construction	16



DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

ABOUT DEPARTMENT:

The Department of Journalism and Mass Communication at Swami Vivekananda University, Barrackpore, is a prestigious academic division dedicated to cultivating skilled media professionals and scholars. The department offers a comprehensive range of programs, including undergraduate (graduation), postgraduate (masters), and doctoral (PhD) courses. These programs are meticulously designed to provide students with a robust theoretical foundation, practical skills, and a deep understanding of the ethical dimensions of journalism and mass communication. The department's curriculum is meticulously designed to be skill-centric, ensuring that students gain practical competencies alongside theoretical knowledge. The courses cover essential aspects of journalism and mass communication such as news writing, reporting, editing, multimedia production, public relations, and advertising. Emphasis is placed on hands-on learning, with students engaging in real-world projects, simulations, and workshops that mirror professional media environments. This approach ensures that graduates are industry-ready, equipped with the skills needed to thrive in the fast-paced media landscape. In line with the New Education Policy (NEP), the department offers a flexible and holistic educational framework. The NEP-aligned syllabus promotes interdisciplinary learning, critical thinking, and creativity. Students are encouraged to explore various domains within journalism and mass communication, fostering a broad understanding of the media industry. The Department provides students with unparalleled exposure to various professional media fields. Through partnerships with leading media organizations, students have access to internships, industry visits, and guest lectures from seasoned professionals. Recognizing the importance of visual storytelling, the department includes comprehensive courses on film and movie studies. Students learn the art and craft of filmmaking, from scriptwriting and direction to production and editing. One of the standout features of this department is its team of exceptional faculty members, who are excellent in their respective fields.

Undergraduate Program (Graduation)

The undergraduate program provides a solid foundation in journalism and mass communication, blending theoretical concepts with hands-on experience. Students are introduced to the fundamentals of media studies, including news writing, reporting, editing, and multimedia production. Courses cover a broad spectrum of topics such as media ethics, communication theories, public relations, advertising, and digital journalism. Emphasis is placed on developing critical thinking and analytical skills, fostering an understanding of the role of media in society, and preparing students for various careers in print, broadcast, and digital media. Internships and fieldwork are integral parts of the curriculum, offering students practical experience and professional networking opportunities. In adherence to the New Education Policy (NEP), the department offers a flexible and interdisciplinary educational framework. The NEP-aligned syllabus encourages critical thinking, creativity, and holistic learning. Students are exposed to a broad range of subjects within journalism and mass communication, promoting a well-rounded understanding of the media industry.

Postgraduate Program (Masters)

The master's program is designed for students seeking advanced knowledge and specialized skills in journalism and mass communication. It offers a deeper dive into media theory, research methodologies, and professional practices. Core courses include advanced reporting, investigative journalism, media management, and communication research. Students can choose from various electives to tailor their studies to their interests and career goals, such as international journalism, multimedia storytelling, political communication, and media law. The program also emphasizes the importance of media ethics and the social responsibilities of journalists. A key component of the master's program is the thesis or capstone project, which requires students to conduct original research or produce a substantial piece of journalistic work, demonstrating their ability to apply academic knowledge to real-world issues.

Doctoral Program (PhD)

The PhD program is geared towards individuals aiming to contribute to the academic and professional fields of journalism and mass communication through original research. Doctoral candidates engage in rigorous coursework in communication theory, research methods, and specialized areas of interest. The program fosters an environment of intellectual curiosity and critical inquiry, encouraging students to explore contemporary issues in media and communication. Research topics may include media effects, digital communication, media policy, and the impact of emerging technologies on journalism. Doctoral students are expected to produce a dissertation that offers new insights into the field, contributing to academic

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scholarship and potentially informing media practice and policy. The PhD program also prepares graduates for careers in academia, research institutions, and high-level professional roles within the media industry.

Mission

The Department strives to cultivate a dynamic and inclusive learning environment that fosters critical thinking, ethical journalism, and innovative communication practices. We are dedicated to equipping students with the theoretical knowledge and practical skills necessary to excel in the ever-evolving media landscape. Through rigorous academic training, hands-on experiences, and community engagement, we aim to produce responsible media professionals and scholars who are committed to truth, social justice, and the transformative power of communication.

Vision:

Our vision is to be a premier center of excellence in journalism and mass communication education, research, and practice, recognized globally for our commitment to excellence, innovation, and social impact. We strive to foster a vibrant intellectual community where creativity thrives, ideas flourish, and students are inspired to push the boundaries of media innovation. By fostering a culture of lifelong learning, interdisciplinary collaboration, and ethical leadership, we aim to empower our graduates to become influential voices in shaping the future of media, advancing social justice, and fostering positive change in our increasingly interconnected world.

FACULTY DETAILS



Dr. Pramiti Roy Director and Head School of Humanities and Social Science, School of Management

Research Area: Public Relation, Political Communication, Corporate / Organizational Communication



Ms. Riya Sikdar
Assistant Professor
Research Area: Not Applicable



Mr. Sujoy Goswami
Sr. Technical Officer. (Media Lab)

Research Area: Not Applicable



Dr. Mahendra Kumar Jena Assistant Professor Research Area: Rural Reporting. Development Journalism.



Ms. Pritha Misra
Teaching assistant &
Departmental Co-Ordinator
Research Area: Not Applicable



Mr. Kishor Kumar Hira
Technical Assistant (Senior
Graphic Instructor)
Research Area: Not Applicable



Dr. Moumita ChakrabortyAssistant Professor

Research Area: Development Communication, Traditional Media, Advertising, Global communication, media and culture. New media.



Mr. Ayan Roy
Teaching Assistant
Research Area: Not Applicable

AMANDA U

PUBLICATIONS

Conference:

- Pramiti Roy, "Independent Content Creation Empowering Filmmakers and Artists in OTT Era" International Conference On Media, Culture And Audience: Contemporary Issues And Challenges (ICMCA-2023) (Accepted).
- Pramiti Roy, "Narrative of Political Communication through Opinion and Exit Poll: An Experience in West Bengal, 2014– 2021" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 3. Moumita Chakrborty, "Health communication campaign, and their impact on behaviour An analysis." International Conference On Media, Culture And Audience: Contemporary Issues And Challenges (ICMCA-2023) (Accepted).
- 4. Moumita Chakrborty, "Digital media convergence: a transformative paradigm in the digital age"." International Conference On Media, Culture And Audience: Contemporary Issues And Challenges (ICMCA-2023) (Accepted).
- 5. Moumita Chakrborty, "Portrayal of transgender in Indian cinema, with special reference to Taali" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- Moumita Chakrborty, "Growth of Over the Top (OTT) Video Services: A Possible Threat to Traditional Pay Television Services- An Analysis". International Conference On Media, Culture And Audience: Contemporary Issues And Challenges (IC-MCA-2023) (Accepted).
- 7. Moumita Chakrborty, "Impact of Social Media on political and public opinion in India A comparative study". International Conference On Media, Culture And Audience: Contemporary Issues And Challenges (ICMCA-2023) (Accepted).
- 8. Pritha Misra, "The Role of Memes in Political Discourse and

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- Public Opinion Formation: A Study" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 9. Pritha Misra, "Depiction of Lonliness in the Films of Rituparno Ghosh: An Analysis of Selected Films" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 10. Pritha Misra, "Media Representation and the Reinforcement of Stereotypes regarding Women's Contraceptive Choices: An analysis of selected magazines", International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 11. Pritha Misra, "The Function of ICTs in Enhancing Government-Citizen Engagement and Public Service Delivery in India" International Conference On Media, Culture And Audience: Contemporary Issues And Challenges (ICMCA-2023) (Accepted).
- 12. Mahendra Kumar Jena, "Shifting Tides of Representation: Exploring the Fluidity of LGBTQA+ Characters in Cinema" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 13. Mahendra Kumar Jena, "The Rise of Citizen Journalism and User Generated Content: Implications for News Quality and Credibility" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 14. Mahendra Kumar Jena, "The Impact of AI and CGI Generated Content on the Media and Entertainment Industry" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 15. Mahendra Kumar Jena, "Impact of OTT Platforms on the Advertising Revenue of Traditional Broadcasting" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).
- 16. Mahendra Kumar Jena, "Sociological perspectives on Media,

Gender and cultural studies" International Conference on Media, Culture and Audience: Contemporary Issues and Challenges (ICMCA-2023) (Accepted).

Research papers:

- 1. Pramiti Roy, "Independent Content Creation Empowering Filmmakers and Artists in OTT Era; Theatre International" (ISSN-2278-2036).
- Pramiti Roy, "Narrative of Political Communication through Opinion and Exit Poll: An Experience in West Bengal, 2014-2021" International Journal of Cultural Studies and Social Sciences. (ISSN-2347-4777).
- 3. Moumita Chakraborty Growth of Over the Top (OTT) Video Services: A Possible Threat to Traditional Pay Television Services-An Analysis. Theatre International. ISSN- 2278-2036.
- 4. Moumita Chakraborty, "Impact of Social Media on political and public opinion in India A comparative study "International Journal of Cultural Studies and Social Sciences. ISSN-2347-4777.
- Pritha Misra," Beyond Deepfakes: An Ethical Framework for Al In Countering Disinformation", International Journal of Creative Research Thoughts (IJCRT), ISSN- 2320-2882.
- Pritha Misra, "Depiction of Lonliness in the Films of Rituparno Ghosh: An Analysis of Selected Films," Theatre International. ISSN- 2278-2036.
- 7. Pritha Misra, "The Role of Memes in Political Discourse and Public Opinion Formation: A Study "International Journal of Cultural Studies and Social. ISSN- 2347-4777.
- 8. Mahendra Kumar Jena, "Shifting Tides of Representation: Exploring the Fluidity of LGBTQA+ Characters in Cinema", Theatre International, (ISSN- 2278-2036).
- Mahendra Kumar Jena, "The Rise of Citizen Journalism and User Generated Content: Implications for News Quality and Credibility", International Journal of Cultural Studies and Social

DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION || 121

Sciences, ISSN- (2347-4777).

Book chapter:

- 1. Pramiti Roy, Book Editor, Sociological perspectives on Media, Gender and cultural studies. ISBN: 978-93- 91741-73-0.
- 2. Pramiti Roy, Book Editor, Media culture and Audience. ISBN: 978-93-5529-948-2.
- 3. Pramiti Roy, "Internet- A Competitive Displacement for Traditional Media on the News Domain", Media Gender and Society, Emerging Trends and Interpretations, ISBN: 978-87-967932-4-1, ISBN 10:81-967932-4-3.
- 4. Pramiti Roy, "The Indian Youth And The Changing Paradigm: From Television To The Internet." Emerging Trends in Media and Communication Studies. ISBN 978-93-6128-689-6.
- 5. Moumita Chakrborty, "Health communication campaign, and their impact on behaviour An analysis" Media culture and Audience, ISBN: 978-93-5529-948-2.
- Moumita Chakrborty, "Digital media convergence: a transformative paradigm in the digital age", Sociological perspectives on Media, Gender and cultural studies, ISBN: 978-93-91741-73-0.
- 7. Moumita Chakrborty, "Portrayal of transgender in Indian cinema, with special reference to Taali, An Indian web series-A critical review." Media Gender and Society, ISBN: 978-81-967932-4-1, ISBN 10:81-967932-4-3.
- 8. Moumita Chakrborty, "Journalism in the Era of Artificial Intelligence", Emerging Trends in Media and Communication Studies. ISBN 978-93-6128-689-6.
- 9. Pritha Misra, "Impact of Natural Disaster on Public Health and the role of Extension workers: An analysis of selected case studies", New Media Landscape in India: Dimensions, Issues, Trands and Future. ISBN- 978- 81963402-0-9.
- 10. Pritha Misra,"Media Representation and the Reinforcement of Stereotypes regarding Women's Contraceptive Choices: An

- analysis of selected magazines", Media culture and Audience. ISBN- 978-93- 5529-948-2.
- 11. Pritha Misra, "The Function of ICTs in Enhancing Government-Citizen Engagement and Public Service Delivery in India", Sociological perspectives on Media, Gender and cultural studies. SBN-978-93-91741-73-0.
- 12. Pritha Misra, "Cultural Imperialism in the Digital Age: Analyzing the Dominance of Western Media in Global Markets", La Panorama: An International Enthology of Critical Essays on Literature in English and on Media Culture. ISBN- 978-81- 965132-6-9.
- 13. Pritha Misra, "The Future of Print Media: Sustainability and Innovation in a Digital Age", Emerging Trends in Media and Communication Studies. ISBN 978-93-6128-689-6.
- 14. Mahendra Kumar Jena. "The Impact ΑI and CGI Generated Content on the Media Enterand tainment Industry," Media culture and Audience. ISBN: 978-93-5529-948-2.
- 15. Mahendra Kumar Jena, "Impact of OTT Platforms on the Advertising Revenue of Traditional Broadcasting", Sociological perspectives on Media, Gender and cultural studies. SBN- 978-93-91741-73-0.
- 16. Mahendra Kumar Jena, "Study of Impact of AI in Indian Print Media – Emerging Trends & Challenges". Emerging Trends in Media and Communication Studies. ISBN 978-93-6128-689-6.
- 17. Mr. Sujoy Goswami, "Podcasting Evolves as a new form of mass Communication in this Digital Era". Emerging Trends in Media and Communication Studies. ISBN 978-93-6128-689-6.
- 18. Mr. Kishor Kumar Hira, "Visual evolution: The Transformative role of Graphic Design in Media studies", Emerging Trends in Media and Communication Studies. ISBN 978-93-6128-689-6.
- 19. Mr. Ayan Roy, "Data Journalism: A Rising News Trend in Media Studies," Emerging Trends in Media and Communication Studies. ISBN 978-93-6128-689-6.

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

- 1. Anchor Hunt held on 11-08-2023, Resource person-Rhitobrata Bhattacharya, Group Editor-in-Chief, RPlus News.
- **2. Photography Exhibition**, held on 18-08-2023, Resource person-Mr. Nabonil Basu, Senior Photography Trainer.
- 3. Guest lecture series, held from 21-08-2023 to 25-08-2023, Resource person- Mr. Snehasis Sur, President, Press Club Kolkata; Mr. Anindya Jana, Editor, Anandabazar Digital; Ms. Pew Roy, Senior Assistant Editor, TV9 Bangla; Mr. Rupak Saha, Veteran Sports Journalist.
- 4. International Seminar held on 28-09-2023 To 30-09-2023, Resource person- Srinivas Melkote, professor emeritus, school of Media and Communication, Ohio, USA. Maithili Ganjoo, Director and Professor at Manav Rachna Educational Institutions. Kaberi Gayen, a Bangladeshi academic, author, and social activist .Shashwati Goswami, Professor at IIMC Delhi. Snehasis Sur, Senior Journalist Doordarshan. Dr. Sithara Venkatesh Puli, Dr. Rajesh Das, eacher-in-charge, Department of Mass Communication, University of Burdwan.Mr Rhitobrata Bhattacharya (coordinator)Group Editor-in-Chief, RPlus News.Prof. Vibodh Parthasarathi, Associate Professor, Centre for Culture, Media and Governance, Jamia Milia Islamia, New Delhi ,Dr. Mugdha Sengupta, Chairperson ,Assistant Professor, Department of Mass Communication ,The University of Burdwan .Prof. Buroshiva Dasgupta, Chairperson, Professor, School of Media and Communication, Sister Nivedita University, Kolkata .Dr. Rakesh Batabyal, Associate Professor, Centre for Media Studies, School of Social Sciences, Jawaharlal Nehru University, New Delhi. Prof. Ashutosh Ghosh, Former Vice Chancellor, Rani Rashmoni Green University.
- 5. Media Fest, held on 19.02.2024 to 21.02.2024, Resource person-Mr. Gourab Chatterjee (Gabu), Eminent Musician, Drummer of Lokkhichara Band ,Ms. Swarnali Sarkar, Eminent Anchor & Journalist, Republic TV,Ms. Sreelekha Mitra, Eminent Actress,Mr.

Pradipta Bhattacharya, National Award-Winning Director. RJ Pragya, Eminent RJ,Mr. Sanjoy Bhattacharya, Quiz Master,Dr. Ritendra Roy, HOD, Department of Visual Arts, University of Kalyani,Mr. Rajaditya Banerjee, Eminent Documentary Filmmaker,Ms. Suchandra Ghatak, Editor (Special Features) @ ABP Digital,Mr. Soumyadip Bhattacharya, Base Guitarist, Underground Authority,Mr. Navhonil Basu, Eminent Photographer,Mr. Soumyadip Bhattacharya, Base Guitarist, Underground Authority,Mr. Parambrata Chatterjee, Eminent Actor & Director,Ms. Sayani Ghosh, Eminent Actress,Mr. Debashish Sen Sharma, Eminent Director,Mr. Abhishek Ray, Eminent Fashion Designer and Academician.

6. Workshop on 'Film and Music Video Production', from 17th –18th April 2024, Resource person Dr. Arkaprava Chatyopadhyay, Filkmaker, Musician, Author & Assistant Professor, SRM University Sikkim.



DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY& MEDICAL RADIOLOGY AND IMAGING TECHNOLOGY

ABOUT DEPARTMENT:

Swami Vivekananda University is among the best medical laboratory technology colleges, and its BSc Medical Laboratory Technology Course is designed to equip students with the skills required to contribute effectively to the healthcare sector. The medical laboratory technician course emphasizes laboratory procedures, diagnostic techniques, and analytical skills necessary for accurate medical testing and research.

Medical Radiology & Imaging Technology (MRIT) is the degree course dedicated to utilization of modern techniques such as CT scan, MRI, X-ray, etc. for diagnosing diseases. Radiographic machinery takes internal images of the human body to enable diagnosis. Department of MRIT in Swami Vivekananda University is equipped with cutting edge instruments, biological models and professionals that enable students to understand the detailed internal image of the human body. The faculties of the University are at the forefront of research in their field and their expertise benefits students greatly.

FACULTY DETAILS



Dr. Titlee Maujmder
Assistant Professor, HOD, MLT
Research Area: Work Ergonomics

Research Area: Work, Ergonomics And Sports Physiology



Ms. Oly Banerjee
Assistant Professor, MLT

Research Area: Endocrinology And
Reproductive Physiology



Dr. Rajen Dey
Assistant Professor, Exam
Coordinator, MLT
Research Area: Immunology

Research Area: Immunology And Microbiology



Mr. Rupak Bera Laboratory Assistant, MLT

Research Area: Microbiology



Mr. Manojit Bysack Assistant Professor, Program Coordinator, MLT and MRIT

Research Area: Immunology



Mr. Subhranil Mukherjee Assistant Professor, Program Coordinator, MRIT

Research Area: Radiology

ANANDA UNIVER

PUBLICATIONS

a. Conference Publications: NIL

b. Book Chapter: 11

- Rajen Dey, Herpesviridae family: structure, classification and pathogenesis, Recent Trends in Hematology and Infectious Diseases. 2024: 11-22. ISBN: 978-93-6076-130-1.
- Manojit Bysack, An indepth exploration of the potental threat posed by staphylococcus aureus, Recent Trends in Hematology and Infectious Diseases. 2024: 23-44. ISBN: 978-93-6076-130-1.
- 3. Rupak bera, An In-Depth Analysis of the Consequences of Zoonotic Disease, Recent Trends in Hematology and Infectious Diseases. 2024: 45-53. ISBN: 978-93-6076-130-1.
- Titlee Majumder, Prevention of HCV: Exploring predictive measures for autoimmune indications. Recent Trends in Hematology and Infectious Diseases. 2024: 54-72. ISBN: 978-93-6076-130-1.
- 5. Titlee Majumder, Conception of hai (healthcare acquired infection): an illustrative scenario on recent approaches, Recent Trends in Hematology and Infectious Diseases. 2024: 73-84. ISBN: 978-93-6076-130-1.
- 6. Oly Banerjee, Approaches to minimize cross infections within healthcare environment, Recent Trends in Hematology and Infectious Diseases. 2024: 85-96. ISBN: 978-93-6076-130-1.
- 7. Oly Banerjee, A comprehensive examination of anemia: classifications, origins, indications, and therapeutic approaches, Regulatory Hematoindices, 2024; 1. 13–26. ISBN: 978–93–340–7137–5.
- 8. Rajen Dey, Acute myeloid leukaemia-types and treatment strategies, Regulatory Hematoindices, 2024; 1. 27-37. ISBN: 978-93-340-7137-5.
- 9. Rupak Bera, An In-Depth Analysis of Thalassemia: Causes, Di-

- agnosis & Management, Regulatory Hematoindices, 2024; 1. 38-47. ISBN: 978-93-340-7137-5.
- 10. Manojit Bysack, An in-depth investigation of risk factors associated with sepsis and the potential treatment modality, Regulatory Hematoindices, 2024; 1. 48-62. ISBN: 978-93-340-7137-5.
- 11. Titlee Majumder, Purpura fulminans: a hemorrhagic infarction, Regulatory Hematoindices, 2024; 1. 63-81. ISBN: 978-93-340-7137-5.

C. Journal: 26

- 1. Dey R, Bishayi B. Microglial Inflammatory Responses to SARS-CoV-2 Infection: A Comprehensive Review. Cell Mol Neurobiol. 2023;44(1):2. Published 2023 Dec 15. doi:10.1007/s10571-023-01444-3
- 2. Dey, R., Bhattacharya, K., Basak, A.K. et al. Inflammatory perspectives of polycystic ovary syndrome: role of specific mediators and markers. Middle East Fertil Soc J 28, 33 (2023). https://doi.org/10.1186/s43043-023-00158-2
- 3. Bhattacharya K, Dey R, Sen D, et al. Polycystic ovary syndrome and its management: In view of oxidative stress. Biomol Concepts. 2024;15(1):10.1515/bmc-2022-0038. Published 2024 Jan 19. doi:10.1515/bmc-2022-0038
- Banerjee O, Singh S, Prasad SK, et al. Exploring aryl hydrocarbon receptor (AhR) as a target for Bisphenol-A (BPA)-induced pancreatic islet toxicity and impaired glucose homeostasis: Protective efficacy of ethanol extract of Centella asiatica. Toxicology. 2023;500:153693. doi:10.1016/j.tox.2023.153693
- Sultana, J., Paul, T., Banerjee, O., Bhaduri, R., Roy, S. S., Ghosh, S., Bandyopadhyay, R., Mukherjee, S., & Syamal, A. K. (2023). Hazardous Impact of Coal Dust on Hematological Parameters of Underground Coal Mine Workers. Journal of Ecophysiology and Occupational Health, 23(3), 153–161. https://doi.org/10.18311/jeoh/2023/34029
- 6. Banerjee, O., Singh, S., Paul, T. et al. Centella asiatica mitigates the detrimental effects of Bisphenol-A (BPA) on pancreatic islets. Sci Rep 14, 8043 (2024). https://doi.org/10.1038/s41598-024-58545-2
- 7. Rajen Dey. (2024). Covid-19 Induced Neuroinflammation. Journal of Advanced Zoology, 45(2), 1544–1548. https://doi.org/10.53555/jaz.v45i2.4447.

- 8. Subhrajyoti Paul, Sudipta Patra, Ayan Mondal, Gungun Sharma Adhikari, Piu Ghosh, Manojit Bysack, & Rajen Dey. (2024). Pathogenesis And Consequences Of Zika Virus Infection. Journal of Advanced Zoology, 45(2), 1549–1553. https://doi.org/10.53555/jaz.v45i2.4448.
- 9. Rajen Dey, & Manojit Bysack. (2024). Ascorbic Acid: Therapeutic Implications In Neurodegenerative Diseases. Journal of Advanced Zoology, 45(2), 1554–1558. https://doi.org/10.53555/jaz.v45i2.4450.
- 10. Manojit Bysack, & Rajen Dey. (2024). Abrogation Of Gram Negative Bacteria Induced Inflammation. Journal of Advanced Zoology, 45(2), 1564–1573. https://doi.org/10.53555/jaz.v45i2.4453.
- 11. Ayan Sengupta, Priyanshu Ganguly, Preeti Patra, Ankita Ballav, Banashree Ash, Shayani Das, Rajen Dey, & Manojit Bysack. (2024). A Systematic Review On Consequential Interventions Of Mucuna Pruriens In Male Infertility. Journal of Advanced Zoology, 45(2), 1574–1580. https://doi.org/10.53555/jaz.v45i2.4455.
- 12. Rupak Bera, Titlee Majumder Modak, & Rajen Dey. (2024). Effect Of Selenium In Altering Hypertension Within Indian Population: A Review. Journal of Advanced Zoology, 45(2), 1600–1602. https://doi.org/10.53555/jaz.v45i2.4461.
- 13. Ballav A, Dey R. Staphylococcal brain abscesses: a review. The Bioscan. 2024(Supplement); 19(2): 19-21. https://doi.org/10.63001/tbs.2024.v19.i02.S1.pp19-21.
- Anwesha Samanta, Rabishankar Taladhi, Papon Mondal, Sayed Golam Tanbir, Mijanur Rahaman, Saumadip Fadikar, & Manojit Bysack. (2024). Review: Beneficial Effect Of Bark Extract Of Terminalia Arjuna On Human Heart. Journal of Advanced Zoology, 45(2), 1559–1563. https://doi.org/10.53555/jaz.v45i2.4452
- 15. Manojit Bysack, Ayan Sengupta, Banashree Ash, Preeti Patra, Ankita Ballav, Shayani Das, & Priyanshu Ganguly. (2024). A Review: Suppressed Activity Of Respiratory System After Covid-19. Journal of Advanced Zoology, 45(2), 1581–1586. https://doi.org/10.53555/jaz.v45i2.4456
- Rupak Bera. (2024). Procalcitonin, The Most Reliable Biomarker For Early Diagnosis Of Bacterial Septicaemia. Journal of Advanced Zoology, 45(2), 1587–1589. https://doi.org/10.53555/jaz.v45i2.4457
- 17. Oly Banerjee, Siddhartha Singh, Tiyesh Paul, & Sandip Mukherjee. (2024). Effect Of Folic Acid And Vitamin B12 On Nicotine Mediated Ovarian Dysfunction. Journal of Advanced Zoology, 45(2), 1594–1599. https://doi.org/10.53555/jaz.v45i2.4460
- 18. Neha Tyagi, Oly Banerjee, Tiyesh Paul, Titlee Majumder, & Sandip Mukherjee. (2024). Assessment Of Oral Mucosal Epithelium In

- Type 2 Diabetic Patients Using Exfoliative Cytology: A Preliminary Study. Journal of Advanced Zoology, 45(2), 1590–1593. https://doi.org/10.53555/jaz.v45i2.4458
- 19. Urmimekhala Das, Oly Banerjee, Siddhartha Singh, Sangeeta Das, Tiyesh Paul, & Sandip Mukherjee. (2024). Bisphenol A-A Major Concern For Ovarian Function: Protective Role Of Black Tea Extract. Journal of Advanced Zoology, 45(2), 1609–1614. https://doi.org/10.53555/jaz.v45i2.4463
- 20. Oly Banerjee, Siddhartha Singh, Tiyesh Paul, & Sandip Mukherjee. (2024). Catalase Deficiency Worsens Toxic Effects Of Bisphenol A (BPA) On Ovarian Steroidogenesis. Journal of Advanced Zoology, 45(2), 1603–1608. https://doi.org/10.53555/jaz.v45i2.4462
- 21. Rupak Bera. Iron deficiency anaemia in active pulmonory tuber-culosis patients: understanding the interplay and implications for management. 19(2): 30–32, 2024 (Supplement). DOI: https://doi.org/10.63001/tbs.2024.v19.i02.S1.pp30-32
- 22. Dr. Titlee Majumder, Dr. Subrata Ghosh, Mr. Shibam Koley, Miss. Anwesha Samanta, Miss. Poulami Modak, Miss. Aditi Paul, & Mr. Avijit Manna. (2024). Brain-Derived Nerve Factor, A Novel Marker For Aggression Correlating Cognitive Ergonomics: A Retrospective Analysis Supporting Anthropometry Amongst The Pre-Pubertal Children Of West Bengal. Educational Administration: Theory and Practice, 30(3), 2237 2240. Retrieved from https://kuey.net/index.php/kuey/article/view/3679.
- 23. Dr. Titlee Majumder, & Dr. Subrata Ghosh. (2024). Identification of A Novel Anthropometric Indices Correlating Aggression: A Case Study Based On Extremes Of Bengal. Educational Administration: Theory and Practice, 30(3), 2204–2210. https://doi.org/10.53555/kuey.v30i3.3664
- 24. Dr. Krishnendu Sarkar, Dr. Titlee Majumder, Dr. Subrata Ghosh, & Prof. Dr. Somnath Gangopadhyay. (2024). Musculoskeletal Disorders Among The Seed Sower Workers A Review. Educational Administration: Theory and Practice, 30(3), 2211–2214. https://doi.org/10.53555/kuey.v30i3.3667
- 25. Oly Banerjee, Urmimekhala Das, Tiyesh Paul, Siddhartha Singh, & Sandip Mukherjee. (2024). Prevalence of Lean Diabetes in West Bengal. Educational Administration: Theory and Practice, 30(3), 2226–2231. https://doi.org/10.53555/kuey.v30i3.3674

26. Oly Banerjee, Urmimekhala Das, Tiyesh Paul, Siddhartha Singh, & Sandip Mukherjee. (2024). Prevalence of Lean Diabetes in West Bengal. Educational Administration: Theory and Practice, 30(3), 2226–2231. https://doi.org/10.53555/kuey.v30i3.3674

d. Books: 02

- 1. Dr. Titlee Majumder, Dr. Rajen Dey, Mr. Manojit Bysack, Ms. Oly Banerjee, Mr. Rupak Bera. Recent Trends in Hematology and Infectious Diseases. 2024. ISBN: 978-93-6076-130-1.
- Dr. Titlee Majumder, Dr. Rajen Dey, Mr. Manojit Bysack, Ms. Oly Banerjee, Mr. Rupak Bera. Regulatory Hematoindices, Vol 1, 2024. ISBN: 978-93-340-7137-5.

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

- Global Healthcon 2023, Challenges & Explications, September 2023
- 2. Global Healthcon 2024, Challenges & Explications, February 2024
 - Seminar- 03
 - 1. Physiology, Friday, November 2023
 - 2. International Day of Radiology, November 2023
 - 3. National Cancer Awareness Day, November 2023

6. Achievement of the Department (If any): NIL



FOOD AND NUTRITION

ABOUT DEPARTMENT:

The Department of Food and Nutrition at Swami Vivekananda University, under the guidance of our respected Advisory Board Members, is striving each day to narrow down the gap between scientific findings and practical day-to-day life. We are trying to understand the several dynamics of food the chemical constituents, their biochemical aspects, as well as their interaction with the host and environment, across myriad geographical and demographic boundaries. We, the Faculties of Department of the Food & Nutrition, SVU, work diligently, dedicatedly and with a high level of efficacy in order to impart an optimal amount of knowledge to our students, which will help them with their future endeavors in the fields of Food Processing, Food Science & Nutrition. In this age of technological advancement, where industry trends change by the day, the institute understands the necessity of adapting to the technological requirements of the hour. Based on Swami Vivekananda's educational ethos, our department aims to adopt an analytical, detailed, job oriented and skillbased approach to education. We, the faculties of Food and Nutrition, SVU, work with a high level of efficacy to influence every facet of the student's growth and develop their innate potential; to bridge the gap between academic intellect and professional proficiencies by instilling an optimal amount of knowledge which will facilitate them in their future work.

FACULTY DETAILS



Dr. Manisha Maity Assistant Professor & HOD Research Area: Microbial biotechnology, Enzyme Technology, Waste valorization



Mrs. Paromita Mukherjee Assistant Professor and Departmental Co-ordinator Research Area: Funational Food **Product Development**



Dr. Souvik Tewari Assistant Professor R & D Co-ordinator Research Area: Probiotics & Functional Food Product Development



Dr. Rupali Dhara Mitra Assistant Professor Research Area: Nutraceuticals, Food product development, Food product analysis, Chromatography, Biostatistics, Structured lipid, Biopolymer



Assistant Professor Research Area: Food Product Development



Dr. Jagannath Ghosh Assistant Professor **Research Area:** Ergonomics, Community Health and Nutritional Survey



Dr. Moumita Dev Assistant Professor Research Area: Food product development, Technology of spice, Product analysis



Dr. Parul Thapar Associate Professor Research Area: Food Microbiology and Fermentation Technology



Dr. Moumita Das Assistant Professor Research Area: Bioactive disorder.



Ms. Megha Roy Teaching Assistant and Joint Placement Coordinator

Research Area: Community Nutrition

PUBLICATIONS

Conference Publications

- Maity, M., Hembram, A., & Bhowal, J* (2016). Screening and isolation of enzyme producing bacteria from soil, Research Scholars Colloquium, ISBN:978-93-80813-44-8
- Bedi, S., Ghosh, S., Bandyopadhyay, B., Bedi, S., & Maity, M*. (2023). Fermentation enhanced nutritional quality of food: A review. Journal of Survey in Fisheries Sciences, 10(1S), 6139-6145.
- Roy, P., Rana, R., Neogi, S., Dutta, K., Maity, M., & Tewari, S. (2023). Postbiotics: potential applications in early life nutrition and beyond. *Journal of* Survey in Fisheries Sciences, 10(1S), 6161-6169.
- Feroz, F., Sarkar, A., Afreen, A., Mukherjee, M., Paul, T., Chakraborty, S & Maity, M*. (2023). lluminating focus on the health benefits of fermented foods

- against cancer. Journal of Survey in Fisheries Sciences, 10(1S), 6188-6194.
- Koner, D., Ansari, G. A., Roy, P., Paul, A., Fatma, A., & Maity, M. (2023). Effects of Diet on Endometriosis. *Journal of Survey in Fisheries Sciences*, 10(1S), 6195-6203.
- Bedi, S., Maity, M*., Bandhopadyay, B., Bedi, S., & Ghosh, S. (2023). An insight into the health-promoting effects of foods to prevent Antibiotic-associated Diarrhoea: A Review. *Journal of Survey in Fisheries Sciences*, 10(1S), 6204-6211.
- Hazra, A., Saha, D., Banik, S., Banik, S., Das, S., & Maity, M*. (2023).
 INDUSTRIALLY IMPORTANT XYLANASE FROM MICROBIAL SOURCES AND THEIR APPLICATIONS. Journal of Survey in Fisheries Sciences, 10(1S), 6089-6098
- Singha, P., Karmakar, I., Ghosh, J. (2024). Prevalence of Malnutrition Among School Going Children: A Review. The Bioscan, 19(2): 16-18.
- Karmakar, I., Ghosh, J. (2024). A Comparative Study on Prevalence of Stroke and Associate Problems Among Physically Active Adults and Sedentary Adults

 A Review. The Bioscan, 19(1): 01-04.
- Chakraborty, R., Saha, R., Ghosh, J., Ghosh, P., & Haldar, P. (2023). Prevalence
 Of Work-Related Musculoskeletal Disorders Among Construction Workers.
 Journal of Advanced Zoology, 44.
- Saha, R., Chakraborty, R., Ghosh, P., Ghosh, J., & Haldar, P. (2023). Work-Related Musculoskeletal Disorder an Increasing Concern in Garment Industry.
 Journal of Advanced Zoology, 44.
- Mukhopadhyay, S., Bhattacharyya, D., & Ghosh, J. (2023). From Gut to Gray Matter: The Surprising Links Between The Microbiome and Brain. Journal of Advanced Zoology, 44.

b. Journal Publication:

- Paul, D. and Tewari, S. (2024). Utilization of banana peels in several industry: an overview. *The Bioscan*, 19(2): 5-8.
- Bedi, S. and Tewari, S. (2024). Nutritional composition, bioactive components, and health benefits of pumpkin seeds: an overview. *The Bioscan*, 19(2): 33-36.
- Mukherjee, P., Tewari, S., & Chakravarti, A. R. Nakhale, S., (2024)

"Formulation and Sensory Evaluation of Non-Dairy Synbiotic Chocolates Enriched with Almond Milk, Oats Powder and Probiotic Microorganism (Streptococcus thermophilus BURD PB 8)". *Acta Scientific Nutritional Health* 8 (6): 02-10.

- Bedi, S., Tewari, S., Bandyopadhyay, B., Parida, S., Pramanik, P., Chatterjee,
 P. (2024). Formulation and sensory evaluation of chapati fortified with different vegetable waste powders. International Journal of Research in Agronomy 7(4):142-147.
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Patent:

- **1.** Sampa Chowdhury, Dr. Anindita Ghosh, Sumona Mondal, Dr. Swati Nakhale, Dr. Souvik Tewari, Anirban Pattanayak (2024). Formulation of protein enriched powder from banana peel and pumpkin seed waste, Application No. 202431045489. Date: 21/06/2024
- 2. Maji D Sucheta, Giri A., Biswas Wendrila, Ghati A., Sarkar S., Sarangi K Ashok, Mitra D.R., Negi, P.N., Pandey P Ramendra, Chang M C., Koley (2024). An Enhanced Method of Immobilization of Microbial Alkaline Protease for Industrial Application. Indian patent Application no.: 202431038779, Date of Filing: 17/05/2024 Date of Publication: 31/05/2024

Book Chapter:

- Rupali Dhara Mitra. Fundamentals of Food Science and beyond, Chapter 7, Food Quality Evaluation, Pg-99-119. Swami Vivekananda University, Barrackpore (Institutional publisher), 1st edition, November, 2023, ISBN: 978-93-6039-536-0.
- Ishita Bhowmik, Rupali Dhara Mitra. A Review on Yam Bean Milk: Application in Production of Phytosterol Enriched Chocolate, Futuristic Trends in Agriculture Engineering & Food Sciences e-ISBN: 978-93-5747-615-7 IIP Series, Volume 3, Book 9, Part 3, Chapter 1, Page-47-52. Publishers (IIP) Selfpage Developer Pvt LTD.
- Thapar P, G. Niharika. Whey: An Emerging Solution for a Sustainable

Environment, Emerging Technology and Management Trends in Environment and Sustainability, Taylor and Francis Publisher, London, 2023, pp. 1-12. DOI: 10.4324/9781003356233

• Thapar P, Salooja M.K., Gatadi S. Single Nucleotide Polymorphism (SNP) in Gut Microbiome through Foods: A review, Ed- Laranjo, M. Exploring Lactobacilli - Biology, Roles and Potential Applications in Food Industry and Human Health, Intech Open Publications, London. Accepted for publication in 2024.

Books:

• Fundamentals of Food Sciences and Beyond (2023); Functional Foods, Swami Vivekananda University, 978-93-6039-536-0

Others (if any):

 Training on "Food Safety Supervisor (FSS) through Food Safety Training and Certification (FoSTaC) on 5th February, conducted by Bharat Chambers of Commerce in collaboration with Food Safety and Standards Authority of India (FSSAI).

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

- i. Hosted 1st International Conference on Scientific Advances in Life Sciences, Agriculture and Food and Nutrition-ICSA 2023, held on 28th-30th September, 2023, organized by department of Food and Nutrition, School of Agriculture and Life Sciences, Swami Vivekananda University, Kolkata West Bengal-700121.
- ii. Conducted 2nd International Conference on Technological Innovations in Agriculture, Life Sciences and Food & Nutrition- ICALF 2024, held on 22-24 February, 2024, department of Food and Nutrition, School of Agriculture and Life Sciences, Swami Vivekananda University, Kolkata West Bengal-700121.
- iii. Hosted 2nd International Conference on Scientific Advances in Life Sciences, Agriculture and Food and Nutrition-ICSA 2023, held on 20th-21st September, 2024, organized by department of Food and Nutrition, School of Agriculture and Life Sciences, Swami Vivekananda University, Kolkata West Bengal-700121.



SCHOOL OF MANAGEMENT

- DEPARTMENT OF BUSINESS MANAGEMENT
- DEPARTMENT OF HOSPITAL MANAGEMENT

ABOUT DEPARTMENT:

Department of Business Management

Department of Business Management of Swami Vivekananda University (SVU) offers skill-based and industry oriented Under Graduate (UG) programs such as Bachelor of Business Administration (BBA), Bachelor of Business Administration in Agri-business Management (BBA-ABM), and Post Graduate (PG) programs such as Master of Business Administration (MBA), Master of Business Administration in Agribusiness Management (MBA -ABM) which have been crafted with utmost care in collaboration with academicians and professionals. Besides that, our department also offers Doctorate of Philosophy (Ph.D.) programs for researchers in the field of Management. The entire curriculum of the Department of Business Management facilitates the development of skills, abilities and knowledge that enable students to handle their respective positions with lots of responsibilities in the corporate world and academia. In these years, the Department of Business Management has emerged as a professional Department with a focus on Business Management, agri-business, industry-academia interface, and sectoral business strategies. The focus is reflected in several major areas under this school like Innovation, Research, Expertise, and Entrepreneurship which leads to creating a knowledge hub of ultimate business excellence. The competency-directed curriculum puts together the latest carefully aligned inputs sourced from the best of leading B-Schools. Department of Management has emerged to establish itself as one of the best Management Department through its unique style of teaching & experiential learning.

Mission & Vision

Mission: To provide quality-based management education to build business leaders in a competitive global environment and conduct technology-based innovative research for imparting Knowledge in different management areas and promote young minds for entrepreneurship development for the betterment of society.

Vision: To attain global presence by implementing leadership, innovative ideas, and responsible corporate behaviour through flexible, skill-based management education driven by high-impact research areas.

Objectives:

- To impart professional education in modern management science to enable
 the students and researchers to appreciate the inter-relationship between
 the diverse and complex tasks of the modern business environment.
- To develop capacities among students and business executives for an improved understanding of various modern management-related issues.
- To conduct high-quality skill-based research that addresses domestic as well as modern business intelligence.
- To escalate demand-driven research, development, and innovation in the various field of Management and encourage innovation-start upentrepreneurship towards self-reliance.
- To develop holistic managers who internalize a synthesis of conventional and modern management – thinking and who can comfortably adapt to changing business requirements. Various management programs provide students with various routes to the industry, matching its requirements with their skills and predispositions.
- To provide the students with an opportunity to expertise themselves in the major functional areas: Finance, Marketing, Human Resources, Business Analytics, Management Information Systems, and Operations Management.
- To promote young minds for the development of entrepreneurship (to create entrepreneurs) as next-generation leaders with human values and social responsibilities.

Department of Hospital Management

The Department of Hospital Management at Swami Vivekananda University is emerging as a potential center of excellence in the healthcare industry. With a focus on providing high-quality education and practical training to its students, the department has established a strong reputation for producing skilled professionals who are well-equipped to thrive in the dynamic healthcare sector. One of the key strengths of the Department of Hospital Management is its team of highly qualified faculty members who bring a wealth of experience from both the industry and academia. These experts enrich the learning experience of students by incorporating real-world examples and case studies into their teaching methods, ensuring that

students are well-prepared to tackle the challenges of the healthcare industry. The department has established five active Memorandums of Understanding (MoUs) with leading healthcare institutions such as IDBG Hospital, Peerless Hospital, Apollo Hospital, CAMRI Hospital, and Antara Hospital. These partnerships provide students with valuable opportunities for hands-on training, industry exposure, and networking with professionals in the field. Students at the Department of Hospital Management have the opportunity to gain practical experience through internships in reputed hospitals. This hands-on training helps them develop essential skills and knowledge, preparing them for successful careers in the healthcare industry. The department boasts a robust placement cell that works tirelessly to connect undergraduate and postgraduate students with job opportunities in reputed hospitals and diagnostic chains. The strong industry connections and reputation of the department ensure that students have access to a wide range of career opportunities upon graduation. Students at the Department of Hospital Management are exposed to the guidelines and procedures of National Accreditation Board for Hospitals & Healthcare Providers (NABH) and National Accreditation Board for Testing and Calibration Laboratories (NABL). This exposure equips students with a thorough understanding of quality standards in healthcare delivery, enhancing their professional capabilities. Department of Hospital Management at Swami Vivekananda University is committed to nurturing the next generation of healthcare leaders. With its focus on academic excellence, practical training, industry partnerships, and career opportunities, the department is shaping the future of the healthcare industry by producing competent and skilled professionals who are poised to make a meaningful impact in the field.

Mission and Vision

Mission: The Mission of the hospital management department at Swami Vivekananda University is to educate and equip aspiring hospital management professionals with the necessary knowledge, skills, and values to excel in the ever-evolving hospital & healthcare industry.

Vision: To become a globally recognized center of excellence in hospital management education, producing competent and compassionate professionals who lead the transformation of healthcare delivery. By fostering a culture of continuous learning and embracing technology, we aim to create professionals who positively impact hospital administration, healthcare outcomes, patient experiences, and societal well-being.

Objectives of Hospital Management Department

Hospital Management is a rapidly evolving field that requires a unique blend of business acumen and healthcare knowledge. The students studying in the Hospital Management Department at Swami Vivekananda University focus on developing the necessary skills to effectively manage hospital & healthcare facilities.

- 1. Enhancing Leadership Skills
- 2. Implementing Quality Improvement
- 3. Managing Healthcare Operations

SWAMI VIVEKANANDA **FACULTY DETAILS**



Prof (Dr.) Kallal Banerjee Professor and Director, School of Management

Research Area: International Business, Unorganized Sector, Corporate Social Responsibility, E Waste Management, Trade Analytics



Prof (Dr.) Shantanu Professor and Director (R&D), School of Management

Research Area: Finance



Mr. Neelanian Mitra Assistant Professor

Research Area: Banking Restructuring, Bank Merger, Customer satisfaction, Consumer Behaviour, Digital Banking



Mr. Jeet Goswmi Assistant Professor

Research Area: Accounting & Finance, General Management



Ms. Arpita Das Assistant Professor

Research Area: Emotional Labour, Emotional Intelligence, Workplace Spirituality, Competency mapping



Dr Tridib Kumar Chatterjee Professor in Practice

Research Area: Medical and Hospital Management



Mr. Soumyabrata Som Assistant Professor

Research Area: Economics



Ms.Chandrika Banerjee Teaching Assistant

Research Area: N/A



Dr. Anirban Hazra Assistant Professor



Dr. Sanjan Bhattacharya





Ms. Soumi Chakraborty Assistant Professor

Research Area: Consumer behaviour, Nudge Marketing, Job Satisfaction



Dr. Mohammad Nivaz Ahmad Assistant Professor

Research Area: HR, Strategic HRM



Ms. Shivani Hazra

Assistant Professor

Research Area: Green Marketing, Consumer Behavior, Retail management



Mr. Souvik Maiumder

Professor in Practice

Research Area: Social Media Marketing, Entrepreneurship



Moumita Aich Som

Assistant Professor

Research Area: Healthcare



Mr. Soumen Nath

Assistant Prof and HOD, Dept. of Hospital Managem

Research Area: CSR, Entrepreneurship, Green Marketing, Health Care Innovations, Social Media & Gender Studies



Dr. Mainak Chakraborty

Associate Professor

Research Area: MSME, Working capital management, Stock market.



Mr. Sourav Chatterjee

Assistant Professor

Research Area: Consumer purchasing behaviour



Mr. Ayanangshu Mandal

Assistant Professor

Research Area: Hospitality, HR



Mr. Shafique Ahmed

Assistant Professor

Research Area: MSME, Entrepreneurship, Digital Marketing, Advertising, Branding



Dr. Kaushik Sinha

Assistant Professor

Research Area: Medical and Hospital Management



Ms. Moumita Acharya

Assistant Professor

Research Area: Accounting & Finance, General Management

PUBLICATIONS

Journals

Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Dr Kallal Banerjee	Unveiling cultural diversity in Indian Literature: A comparative Analysis	International Journal of Cultural Studies and Social Science	UGC CARE VOI XX No XXIII	2347-4777
Dr Kallal Banerjee	Chat-GPT & Its impact on writing skill development: A case study on students of private colleges in north 24 parganas	International Journal of Multidisciplinary Trends	Peer Reviewed	https://doi.org/10.22271/ multi.2024.v6.i4b.415
Dr Kallal Banerjee	A study on adaptation of youth preference in green cosmetic industry	International Journal of Research in Marketing Management and Sales	Peer Reviewed	https://doi. org/10.33545/26633329.2024. v6.ilb.163
Dr Kallal Banerjee	Women in small and medium enterprises: Embracing social media for women	International Journal of Financial Management and Economics	Peer Reviewed	https://doi. org/10.33545/26179210.2024. v7.i1.284

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Dr Kallal Banerjee	Change	International Journal of Research in Management	Peer Reviewed	https://doi. org/10.33545/26648792.2024. v6.ild.159
Dr Kallal Banerjee	A comparative analysis on	International Journal of Research in Management	Peer Reviewed	https://doi. org/10.33545/26648792.2024. v6.ild.158
Dr Kallal Banerjee	Impulsive purchasing patterns among women consumers: A study	International Journal of Research in Marketing Management and Sales	Peer Reviewed	https://doi. org/10.33545/26633329.2024. v6.ilb.159
Dr Kallal Banerjee	Green marketing and sustainable development in India: A comparative study	International Journal of Advanced Academic Studies	Peer Reviewed	https://doi. org/10.33545/27068919.2024. v6.i4a.1136
Dr Kallal Banerjee	Importance of Argo- Chemical Companies in Indian Agri Sector: An Analysis	International Journal of Agriculture and Food Science	Peer Reviewed	https://doi org/10.33545/2664844X.2024. v6.ilb.169

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Dr Kallal Banerjee	A study on smartwatch users in Kolkata: Health	International Journal of Financial Management and Economics	Peer Reviewed	https://doi. org/10.33545/26179210.2024. v7.11.270
Dr Kallal Banerjee	Economic and Geopolitical influence of India through BRICS summit: A brief analysis	International Journal of Foreign Trade and International Business	Peer Reviewed	https://doi. org/10.33545/26633140.2024. v6.ila.101
Dr Kallal Banerjee	Sentiment analysis using different machine learning models: A study for the prediction of customer's review	International Journal of Research in Marketing Management and Sales	Peer Reviewed	https://doi. org/10.33545/26633329.2024. v6.i1a.150
Dr Kallal Banerjee	Crisis Management in History: How Leaders Handled and Overcame Adversity in Different Time Periods	International Journal of Financial Management and Economics	PEER REVIEWED	https://doi. org/10.33545/26179210.2024. v7.il.268
Jeet Goswami	Historical Performance Analysis of Top IT Companies in India	International Journal of Research in Finance and Management	Peer Reviewed	https://doi. org/10.33545/26175754.2024. v7.ila.284

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Jeet Goswami	Impact of NPA on Profitability in Microfinance Industry of India: A	International Journal of Financial Management and Economics	Peer Reviewed	https://doi. org/10.33545/26179210.2024. v7.i1.285
Dr. Sanjay Bhattacharya	An Enquiry on the Impact of FDI: Response of Indian Insurance Sectors	International Journal of Financial Management and Economics	Peer Reviewed	DOI: 10.33545/26179210.2024. v7.i1.269
Dr Shantanu Chakraborty	Wealth to happiness: A study among retired non- Government employees of Kolkata	Foundry Journal	Scopus Indexed	DOI: https://foundryjournal. net/wp-content/ uploads/2024/03/16.FJ23C305. pdf
Dr Shantanu Chakraborty	Integration of artificial intelligence in digital financial inclusion: A conceptual study	International Journal of Computing and Artificial Intelligence	Peer Reviewed	DOI: https://doi. org/10.33545/27076571.2024. v5.ila.83
Dr Shantanu Chakraborty	Critical appraisal of vendor selection mechanism: A review in power sector companies of West Bengal	International Journal of Advanced Academic Studies	Peer Reviewed	DOI: https://doi. org/10.33545/27068919.2024. v6.i4b.1151

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Moumita Acharya	Role of HEIs in promoting social	EPRA International Journal of Multidisciplinary Research (IJMR)	Peer Reviewed	2455-3662
Soumen Nath	Chat-GPT & Its impact on writing skill development: A case study on students of private colleges in north 24 parganas	International Journal of Multidisciplinary Trends	Peer Reviewed	https://doi.org/10.22271/ multi:2024.v6.i4b.415
Soumen Nath	Green marketing and sustainable development in India: A comparative study	International Journal of Advanced Academic Studies	Peer Reviewed	DOI: 10.33545/27068919.2024. v6.i4a.1136
Soumen Nath	Unveiling Cultural Diversity in Indian Literature: A Comparative Analysis	In International Journal of Cultural Studies and Social Sciences	UGC Care Listed	https://doi.org/10.5281/ zenodo.11122908
Soumen Nath	Stress	International Journal of Research in Human Resource Management,	Peer Reviewed	https://doi. org/10.33545/26633213.2024. v6.ilb.178

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Soumen Nath	Impulsive purchasing patterns among women consumers: A study	International Journal of Research in Marketing Management and Sales	Peer Reviewed	https://doi. org/10.33545/26633329.2024. v6.ilb.159
Soumen Nath	A study on smart watch users in Kolkata: Health	International Journal of Financial Management & Foreign Trade,	Peer Reviewed	https://doi. org/10.33545/26179210.2024. v7.i1.270
Soumen Nath	A marketing analysis on Indian automobile industry: A comparative study of Hyundai, Maruti Suzuki and Ford	International Journal of Research in Management	Peer Reviewed	DOI: 10.33545/26648792.2024. v6.ilb.136
Soumen Nath	Economic and Geopolitical influence of India through BRICS summit: A brief analysis	International Journal of Foreign Trade & International Business	Peer Reviewed	https://doi. org/10.33545/26633140.2024. v6.i1a.101
Soumen Nath	Data visualization approach for business strategy	International Journal of Research in Management	Peer Reviewed	DOI: 10.33545/26648792.2024. v6.ilb.138

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Soumen Nath	Comparative Study on Private Teachers' Social, Financial and Mental Problems During & Post Pandemic Scenario	SMS Journal of	Peer Reviewed	DOI: https://doi.org/10.21844/ smsjei.v9i02.15307
Dr Kallal Banerjee		IJICBM, Inderscience	wos	10.1504/IJICBM.2023.10059092
Dr Kallal Banerjee	Assessing the	International Journal of Research in Human Resource Management	Peer Reviewed	https://doi. org/10.33545/26633213.2024. v6.ila.169
Dr Mohammad Niyaz Ahmad	Optimizing CSR: Addressing Regional Disparities	Journal of Electronics Information Technology Science And Management	Peer Reviewed	0258-7982
Dr Mohammad Niyaz Ahmad	Reshaping	METSZET Journal	Scopus Indexed	2061-2710

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Dr. Anirban Hazra	Significance of theories and antecedents of consumer adoption in driving the femtech services: A	International Journal of Research in Management	Peer Reviewed	DOI: https://doi. org/10.33545/26648792.2024. v6.ilc.150
Dr. Anirban Hazra	Competency For HR Professionals of The Software Industry In India Based on Situationalist Perspective - An Empirical Analysis	Education and Society	UGC Care	2278-6864
Dr. Anirban Hazra	Adoption of telemedicine system among patients and health care professionals: Prospects and constraints	International Journal of Research in Medical Science	Peer Reviewed	https://doi. org/10.33545/26648733.2024. v6.ila.55
Dr. Anirban Hazra	Exploring	International Journal of Research in Human Resource Management	Peer Reviewed	https://doi. org/10.33545/26633213.2024. v6.i1a.168
Dr. Anirban Hazra	Economic analysis of household savings behaviour: Insights from India	International Journal of Research in Human Resource Management	Peer Reviewed	https://doi. org/10.33545/26179210.2024. v7.il.271

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Dr. Anirban Hazra	Enhancing Healthcare Accessibility: A Study on the Affordability of Telemedicine in Rural India	Education and Society	UGC Care	2278-6864
Dr. Anirban Hazra	Ethical & Legal perspective of HR Analytics: Theoretical review	Research Review	Peer Reviewed	2321-4708
Dr. Anirban Hazra	A study on analysing customer attitudes towards online banking and its impact on bank customer relationship	International Journal of Advanced Academic Studies	Peer Reviewed	DOI: https://doi. org/10.33545/27068919.2024. v6.i4a.1150
Dr. Anirban Hazra	Bitcoin in Indian Context: A Study on Challenges & Future Scopes	International Journal of Financial Management and Economics	Peer Reviewed	DOI: 10.33545/26179210.2024. v7.il.286
Dr. Anirban Hazra	Acceptance of Cash less banking in Post Covid Era in Indian perspective- A Review	International Journal of Applied Research	Peer Reviewed	DOI: 10.22271/allresearch.2024. v10.i4c.11686

ANNUAL REPORT 2023 - 2024 || 154

Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Dr. Anirban Hazra	Unlocking the Potential India's Informal Financial Sector: Implications,	International Journal of Research in Finance and Management	Peer Reviewed	DOI: 10.33545/26175754.2024. v7.ilc.307
Dr. Anirban Hazra	Analyzing Customer Attitudes towards Online Banking and Its Impact on Bank Customer Relationship Management	Asian Journal of Management and Commerce	Peer Reviewed	DOI: 10.22271/27084515.2024. v5.ile.282
Dr. Anirban Hazra	Exploring the current consumer market status of chemical fertilizer Vs biofertilizer industries in West Bengal, India: An on-site investigation	South Asian Journal of Agricultural Sciences	Peer Reviewed	DOI: 10.22271/27889289.2024. v4.ilb.124
Neelanjan Mitra	Exploring	International Journal of Research in Human Resource Management	Peer Reviewed	DOI: 10.33545/26633213.2024 v6.ilg.168
Neelanjan Mitra	Economic analysis of household savings behaviour: Insights from India	International Journal of Research in Human Resource Management	Peer Reviewed	DOI: 10.33545/26179210.2024. V7.11.271

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Neelanjan Mitra	A study on analysing customer attitudes towards online banking and its impact on bank customer relationship	International Journal of Advanced Academic Studies	Peer Reviewed	DOI: https://doi. org/10.33545/27068919.2024. v6.i4a.1150
Neelanjan Mitra	Bitcoin in Indian Context: A Study on Challenges & Future Scopes	International Journal of Financial Management and Economics	Peer Reviewed	DOI: 10.33545/26179210.2024. v7.i1.286
Neelanjan Mitra	Acceptance of Cash less banking in Post Covid Era in Indian perspective- A Review	International Journal of Applied Research	Peer Reviewed	DOI: 10.22271/allresearch.2024. v10.i4c.11686
Neelanjan Mitra	Unlocking the Potential India's Informal Financial Sector: Implications,		Peer Reviewed	DOI: 10.33545/26175754.2024. v7.ilc.307
Neelanjan Mitra	Analyzing Customer Attitudes towards Online Banking and Its Impact on Bank Customer Relationship Management	Asian Journal of Management and Commerce	Peer Reviewed	DOI: 10.22271/27084515.2024. v5.ile.282

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Neelanjan Mitra	Exploring the current consumer market status of chemical fertilizer vs biofertilizer industries in West Bengal, India: An on-site investigation	South Asian Journal of Agricultural Sciences	Peer Reviewed	DOI: 10.22271/27889289.2024. v4.ilb.124
SOURAV CHATTERJEE	Unveiling cultural diversity in Indian Literature: A comparative Analysis	International Journal of Cultural Studies and Social Science	UGC CARE Vol XX No XXIII	https://doi.org/10.5281/ zenodo.11122908
SOURAV CHATTERJEE	A study on adaptation of youth preference in green cosmetic industry	International Journal of Research in Marketing Management and Sales	PEER REVIEWED	https://doi. org/10.33545/26633329.2024. v6.ilb.163
SOURAV CHATTERJEE	Change	International Journal of Research in Management	PEER REVIEWED	https://doi. org/10.33545/26648792.2024. v6.ild.159
SOURAV CHATTERJEE	Economic and Geopolitical influence of India through BRICS summit: A brief analysis	International Journal of Foreign Trade and International Business	PEER REVIEWED	https://doi. org/10.33545/26633140.2024. v6.i1a.101

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Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
SOURAV CHATTERJEE	Crisis Management in History: How Leaders Handled and Overcame Adversity in Different Time Periods	International Journal of Financial Management and Economics	PEER REVIEWED	https://doi. org/10.33545/26179210.2024. v7.il.268
SOURAV CHATTERJEE	The Role of Social Media in Promoting Sustainable Green Cosmetics	International Journal of Research in Management	UGC CARE	https://doi. org/10.33545/26648792.2024. v6.ilb.133
Dr Kallal Banerjee	Evaluation of the effectiveness of current employees' training and development programs adopted by the commercial banks,	International Journal of Research in Management	PEER REVIEWED	https://doi. org/10.33545/26648792.2024. v6.i1b.132
Dr Kallal Banerjee	Data visualization approach for business strategy	International Journal of Research in Management	Peer Reviewed	DOI: 10.33545/26648792.2024. v6.ilb.138
Dr Kallal Banerjee	Stress	International Journal of Research in Human Resource Management,	Peer Reviewed	https://doi. org/10.33545/26633213.2024. v6.ilb.178

Name of the Faculty	Title of the Paper	Name of the Journal	Index Type (Scopus/WOS/ UGC CARE/Peer Reviewed etc.)	DOI/ISSN
Dr Kallal Banerjee	Sentiment analysis using different machine learning models: A study for the prediction of customer's review,	International Journal of Research in Marketing Management and Sales	Peer Reviewed	https://doi. org/10.33545/26633329.2024. v6.i1a.150
Dr Kallal Banerjee	Crisis Management in History: How Leaders Handled and Overcame Adversity in Different Time Periods	International Journal of Financial Management and Economics	PEER REVIEWED	https://doi. org/10.33545/26179210.2024. v7.il.268
Soumi Chakraborty	A marketing analysis on Indian automobile industry: A comparative study of Hyundai, Maruti Suzuki and Ford	International Journal of Research in Management	PEER REVIEWED	https://doi. org/10.33545/26648792.2024. v6.ilb.136
Soumi Chakraborty	A study on smart watch users in Kolkata: Health	International Journal of Financial Management and Economics	PEER REVIEWED	https://doi. org/10.33545/26179210.2024. v7.il.270

Conference Publication

SI No	Name of the Faculty	Title of the Paper	Name of the Conference	ISBN / ISSN
1	Dr. Mainak Chakraborty	Using AI and Machine Learning to Predict Consumer Buying Be- havior: Insights from Behavioral Economics in Case of Alcoholic Beverages	3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)	doi: 10.1109/IC- TACS59847.2023.10389959

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SI No	Name of the Faculty	Title of the Paper	Name of the Conference	ISBN / ISSN
2	Dr. Mainak Chakraborty	Maslow's Hierarchy-Inspired AI-Driven Employee Satisfaction Improvement	3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)	doi: 10.1109/IC- TACS59847.2023.10390045
3	Dr. Mainak Chakraborty	Forecasting the Geopolitical Impact among Russia and Ukraine on Commodity Export Prices: An AI-Based Analysis	3rd International Conference on Technological Advancements in Computational Sciences (ICTACS)	doi: 10.1109/IC- TACS59847.2023.10390383
4	Dr Kallal Banerjee	A Study on Use of AI Enabled Technologies amidst Healthcare Sector in North 24 Parganas, West Bengal, India	Coherence 2024: International Management Conference on Application of Emerging Digital Technologies in Business Manage- ment Research & Practices	978-81-19524-67-9
5	Soumen Nath	A Study on Swathya sathi Scheme in West Bengal: A Sys- tematic Literature Review	National Conference on Develop- ment with DIgnity	978-81-19524-51-7
6	Soumen Nath	A Study on Use of AI Enabled Technologies amidst Healthcare Sector in North 24 Parganas, West Bengal, India	Coherence 2024: International Management Conference on Application of Emerging Digital Technologies in Business Manage- ment Research & Practices	978-81-19524-67-9
7	Dr Kallal Banerjee	Extended Analytics in Research Methodology across Various verticals: A Review	International Conference on Multi- disciplinary research methodology & IPR 2023	
8	Dr Kallal Banerjee	A Generic platform-independent Research Methodology Frame- work Converging in Product commercialization	International Conference on Multi- disciplinary research methodology & IPR 2024	
8	Dr Kallal Banerjee	Assessment of Quality in IPD and OPD services in Health care Sector: An empirical investiga- tion	2023 IEEE R10 Humanitarian Technology Conference (HTC)	
9	Dr Kallal Banerjee	Intra-regional trade on organic cosmetics and current status of value Chain among BIMSTEC regions	International Conference of KSAS and AnSI, 28-29 February, 2024	
10	Dr Kallal Banerjee	Importance and Implication of eWOM in Consumer Purchasing Behavior	World Conference on Economy, Business and Agricultural Develop- ment. (WCEBAD- 2024)	
11	Dr Kallal Banerjee	A study on adaptation of youth preference in the green cosmetic industry	World Conference on Economy, Business and Agricultural Develop- ment. (WCEBAD- 2024)	

b. Book Chapter

Name of the Faculty	Title of the Book	Name of the Pub- lishers	ISBN/DOI
Dr. Mainak Chakraborty	Perspective in Finance and Digital Transformations in Business by Taylor & Francis – Routledge Publication	Taylor & Francis (Routledge)	9.78103E+12
Dr. Mainak Chakraborty	Application of Data Analytics in Modern Business Decisions	Swami Vivekananda University	978-93-5980-076-9
Jeet Goswami	Application of Data Analytics in Modern Business Decisions	Swami Vivekananda University	978-93-5980-076-10
Dr. Sanjay Bhattacha- rya	Emerging Technologies in Digital Man- ufacturing and Smart Factories	IGI Global	ISBN13: 9798369309209, EISBN13: 9798369309216, DOI: 10.4018/979-8-3693-0920-9
Dr Shantanu Chakraborty	Application of Data Analytics in Modern Business Decisions	Swami Vivekananda University	978-93-5980-076-9
Soumen Nath	A Study on Educated Married Women's Decision Making Autonomy	MITTAL PUBLICA- TIONS (New Delhi, India)	ISBN: 978-93-94569-36-2
Soumen Nath	CSR Promotions on Social Media: Connecting With Consumers & Brand Image	Imprint Publication	ISBN 978-81-951473-4-2
Soumen Nath	Application of Data Analytics in Modern Business Decisions	Swami Vivekananda University	978-93-5980-076-9
Dr Kallal Banerjee	Application of Data Analytics in Modern Business Decisions	Swami Vivekananda University	978-93-5980-076-9
Dr. Anirban Hazra	Data Privacy and Ethical Compliance: A Comprehensive Guide	Swami Vivekananda University	978-93-5980-076-9

Name of the Faculty	Title of the Book	Name of the Pub- lishers	ISBN/DOI
Neelanjan Mitra	Neelanjan Mitra Application of Data Analytics in Modern Business Decisions		978-93-5980-076-9
Sourav Chatterjee	Application of Data Analytics in Modern Business Decisions	Swami Vivekananda University	978-93-5980-076-9

d. Books

Name of the Faculty	Department	Title of the Book	Name of the Publishers	ISBN
Dr. Anirban Hazra	Management	Principles and Practices of Management	Blue Hill Publication, New Delhi	978-93-5829-729-4
Dr. Anirban Hazra	Management	Organizational/Industri- al Psychology	Blue Hill Publication, New Delhi	978-93-5829-095-0
Neelanjan Mitra	Management	Principles and Practices of Management	Blue Hill Publication, New Delhi	978-93-5829-729-4
Dr Kallal Ba- nerjee	Management	Marketing Management (Referencing to Hospital Industry)	Taurean Publication	BOC7RZ8NQP

e. Others (if any)

Name of the Inventor	Name of the Innovation	Status (Filed / Pub- lished / Granted)	Details of Application No	Date of Filed / Published / Granted (DD/ MM/YYYY)
Dr. Mainak Chakraborty	Computing Device for Supply Chain Optimization	Granted	6341361	11-03-2024
Soumen Nath	Computing device for supply chain optimization through advanced AI & machine learning	Granted	UK 6341361	11-04-2024
Soumen Nath	Model to efficiently capture persistent surveillance of user activity and use profiling be- haviour in complex networks	Application Approved	IND 202331055339A	09-08-2023
Soumen Nath	Block chain & IOTs Role in the Indian Banking Sector's Digital Transition	Application Approved	IND 20233104474A	07-07-2023

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Name of the Inventor	Name of the Innovation	Status (Filed / Pub- lished / Granted)	Details of Application No	Date of Filed / Published / Granted (DD/ MM/YYYY)
Soumen Nath	Analysis of Students Time Spending for Newspaper Reading to Attain Effective English Communication	Application Approved	IND 202331042374A	30/6/23
Soumen Nath	Technical writing with AI in BM platforms	Application Approved	IND 409213-002	6-3-24
Soumen Nath	Wearable Sociometric Device	Granted	IND 409213-001	1-4-24
Dr Kallal Banerjee	Computing device for supply chain optimization through advanced AI & machine learning	Granted	UK 6341361	11-04-2024
Dr Kallal Banerjee	Innovative Wearable So- ciometric Device for Enhanced Analysis and Optimization of Workplace Team Dynamics	Granted	409213-001	
Dr Kallal Banerjee	A system for leveraging AI and data analytics for predic- tive modeling of consumer green purchasing behavior and method thereof	Application Approved	202331042494 A	
Dr Kallal Banerjee	Examining the effects of prod- uct descriptions, reviews, and ratings on consumer purchase decision	Application Approved	202341029247 A	
Dr Kallal Banerjee	An innovative time manage- ment system for increased productivity	Application Approved	202321029331 A	
Dr. Anirban Hazra	Wearable Sociometric Device	Granted	IND 409213-001	02-05-2024
Dr. Anirban Hazra	Blockchain & IOTs Role in the Indian Banking Sector's Digital Transition	Published	IND 20233104474A	07-07-2023
Dr. Anirban Hazra	Impact on investment pattern with special reference to small and medium capitalization companies	Published	202241035872 A	30/06/23
Neelanjan Mitra	Wearable Sociometric Device	Granted	IND 409213-001	02-05-2024
Neelanjan Mitra	Blockchain & IOTs Role in the Indian Banking Sector's Digital Transition	Published	IND 20233104474A	07-07-2023
Sourav Chatterjee	Computing device for supply chain optimization through advanced AI & machine learning	Granted	UK 6341361	11-04-2024

Name of the Inventor	Name of the Innovation	Status (Filed / Pub- lished / Granted)	Details of Application No	Date of Filed / Published / Granted (DD/ MM/YYYY)
Sourav Chatterjee	Innovative Wearable So- ciometric Device for Enhanced Analysis and Optimization of Workplace Team Dynamics	Granted	409213-001	
Sourav Chatterjee	A system for leveraging AI and data analytics for predic- tive modeling of consumer green purchasing behavior and method thereof	Application Approved	202331042494 A	
Sourav Chatterjee	Examining the effects of prod- uct descriptions, reviews, and ratings on consumer purchase decision	Application Approved	202341029247 A	

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

Departmental Activities

So far, 3 webinars, 4 seminars, 6 special lectures by industry experts, 2 workshops, and 4 faculty development programs have been organized.

- International Conference on Innovation and Advancements in Management and Social Science (ICIAMS-2023) held on 28th -30th September 2023.
- 2. 6 Industrial visit programs have been organized for UG and PG students for the Department of Business and Hospital Management.
- 3. International Conference on Transformations and Sustainable Growth for Business Development (ICTSGBD)-2024 organized on the last week of February-24.
- 4. SVU Management Fest 2024 was held on 1st week of Feb'24 with the following events: Exploria Business Quiz, Mind Mappers Start up competition, Speak up to Start up Business Plan Competition, and Smart Hospital System Prototype Design competition.



SCHOOL OF COMPUTER SCIENCE & ENGINEERING

ABOUT DEPARTMENT:

Department of Computer Science & Engineering (CSE) is a vibrant hub of innovation and learning, dedicated to advancing the field of computer science through rigorous education, ground-breaking research, and strong industry collaboration. We pride ourselves on fostering a dynamic and inclusive environment where students, faculty, and researchers can thrive and contribute to the technological advancements shaping our world. Our mission is to educate the next generation of computer scientists and engineers, drive cutting-edge research, and engage in meaningful service to society. We aim to equip our students with the knowledge, skills, and ethical grounding needed to tackle complex challenges and lead in a rapidly evolving technological landscape. The CSE department offers a comprehensive range of undergraduate and graduate programs designed to provide a strong foundation in both theoretical and practical aspects of computer science and engineering. Our curricula are continually updated to reflect the latest advancements in the field and to meet the demands of the industry. We emphasize hands-on learning, critical thinking, and problem-solving skills, preparing our students for successful careers in academia, industry, and entrepreneurship. Research is at the core of our department's identity. Our faculty and students are engaged in pioneering research across various domains, including: Artificial Intelligence and Machine Learning, Cybersecurity and Privacy, Data Science and Big Data Analytics, Human-Computer Interaction, Software Engineering and Systems. Our research initiatives are supported by state-of-the-art facilities and collaborative partnerships with leading academic institutions, industry players, and government agencies. We strive to address real-world problems and contribute to the broader scientific community through high-impact publications,

patents, and technology transfer. We believe in the power of collaboration and community engagement. The CSE department actively participates in outreach programs, workshops, and conferences, fostering a culture of continuous learning and exchange of ideas. We encourage interdisciplinary research and partnerships that bridge the gap between academia and industry, driving innovation and societal progress. Diversity and inclusion are fundamental values of our department. We are committed to creating a welcoming and supportive environment for all students, faculty, and staff, regardless of their background. We believe that diverse perspectives enhance creativity and innovation, leading to better outcomes for our community and society as a whole. As we continue to grow and evolve, the Department of Computer Science & Engineering remains dedicated to pushing the boundaries of knowledge, shaping the future of technology, and making a positive impact on the world. We invite you to explore our programs, research, and initiatives, and join us in our journey towards excellence and innovation.

Courses Offered:

- Diploma in Computer Science
- B Tech in Computer Science and Engineering
- MTech in Computer Science and Engineering
- Bachelor of Computer Application
- Master of Computer Application
- B Tech in in Data Science
- Master of Science in Data Science
- B.SC(H) In Advanced Networking and Cyber Security
- Ph.D. in Computer Science and Engineering

EXTERNAL MEMBERS ON THE BOARD OF STUDIES

SL.	NAME	DESIGNATION
1.	Prof. Amlan Chakraborti	Professor and Director, A.K. Choudhury School of Information Technology, University of Calcutta
2.	Dr. Soumya Sen	Assistant Professor (Stage-II), A.K. Choudhury School of IT, University of Calcutta
3.	Dr. Souvik Pal	Associate Professor, Sister Nivedita University
4.	Dr. Sunirmal Khatua	Assistant Professor, Department of Computer Science & Engineering. University of Calcutta.

FACULTY DETAILS



Prof. Somsubhra Gupta Professor

Research Area: Mult objective Decision Making, Machine Intelligent, Genetic Algorithm, Pattern Recognition, Digital Image Processing



Dr. Ranjan Kumar Mondal Assistant Professor & Head

Research Area: Cloud Computing, Mobile Computing



Associate Professor

esearch Area: Machine earning, Natural Language, ocessing Data Visualization



Dr. Sanjay Nag Associate Professor

Research Area: Biomedical Image Processing, Steganography, Genetic Computing



Sourav Saha Assistant Professor & Programme Coordinator

Research Area: Machine Learning, Cloud Computing



Sumana Chakraborty Assistant Professor

Research Area: Machine Learning, Image Processing



Subrata Nandi Assistant Professor

Research Area: Symmetric Key Cryptology, Quantum Cryptology, Blockchain



Sangita Bose Assistant Professor

Research Area: Machine learning, Artificial Intelligence, Deep Learning, IOT



Lipika Mukherjee Pal Assistant Professor

rch Area: Web Technology, IOT



Assistant Professor

Research Area: Cyber Security, Machine Learning, Cloud Computing



Jayanta Chowdhury Technical Trainer

Research Area: Machine learning



Pradip Sahoo Technical Trainer

Research Area: Artificial Intelligence



Aniket Dev Technical Trainer

Research Area: Artificial



Payal Bose Assistant Professor

Research Area: Image Processing, Artificial Intelligence and Machine Learning.



Technical Trainer

Research Area: IOT, Sensor



Sitikantha Chattopadhaya Assistant Professor

Research Area: Machine Learning, Deep Learning, Image Processing



Biiava Baneeriee Teaching Assistant

Research Area: Image Processing, Artificial Intelligence and Machine



Dipam Mishra Technical Trainer

Research Area: Artificial



Jayeeta Ghosh Assistant Professor

Research Area: Artificial Intelligence and Machine Learning

PUBLICATIONS

Conference

Banerjee Majumdar, S. Majumdar, S. Gupta, D. Singh, "A Heart Disease Prediction Model using Merged XGBoost-SVM

Classifier and Particle Swarm Optimization", Proceedings of the 5th Int. Conf. on Mobile Computing and Sustainable Informatics (ICMCSI) 2024, ISBN: 979-8-3503-9523-5/24, pp. 241-248, 2024. Available at IEEE Xplore (SCOPUS)

- 2. A Roy, S Gupta, "New-normal Object-Oriented Dynamic Learning Environment (NOODLE) to address Digital Divide", ICIS 2022, published as Research Article, AIP proceedings (both Scopus and WoS), ISSN:1551-7616, ISBN: 978-0-7354-4751-6, Vol: 2878, 020013-1-020013-6, 2023. (https://doi.org/10.1063/5.0171355) (lbn-Zohr Univ., Agadir, MOROCCO)
- 3. A Datta, S Gupta, "Ubiquitous Devices Safety using Cyber Security", ICIS 2022, published as Research Article, AIP proceedings (both Scopus and WoS), ISSN:1551-7616, ISBN: 978-0-7354-4751-6, Vol: 2878, 020014-1-020014-5, 2023. (https://doi.org/10.1063/5.0171358) (lbn-Zohr Univ., Agadir, MOROCCO)
- 4. A Banerjee Majumder, S Gupta, D. Singh, S. Majumder, "A COVID-19 Prediction Model using Bagging under the framework of Machine Learning", ICIS 2022, published as Research Article, AIP proceedings (both Scopus and WoS), ISSN:1551-7616, ISBN: 978-0-7354-4751-6, Vol: 2878, 020021-1-020021-6, 2023. (https://doi.org/10.1063/5.0171279) (lbn -Zohr Univ., Agadir, MOROCCO)
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Patent

- Published patent entitled "Interactive Technology driven Lowcost Virtual learning Devices NOODLE for equity to address digital divide", (Appl. No. 202331012519A) published on 10th March 2023. (Joint) [SVU]
- 2. Published patent entitled "MUSIC THERAPY DEVICE FOR DEAF AND DUMB", (Appl. No. 202331085483 A) published on 19th January 2024.(Joint) [SVU]
- 3. Published patent entitled "Robotic vehicle using ATMEGA328 microcontroller, ultrasonic sensor and Bluetooth for wireless controland data feedback, obstacle avoidance and autonomous manoeuvres with precise area scanning", (Appl. No. 202431006559 A) published on 9th February 2024.(Joint)



[SVU]

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ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

- International Conference on Integrative Science and Engineering (ICISE) 2023, Track -I- Next generation Computing, 28th -30th September
- 2. International Conference on Engineering Design and Computing (ICEDC)-2024, 22nd -24th February 2024



DEPARTMENT OF ENGLISH

ABOUT DEPARTMENT:

The department of English in the Pune University campus is striving for enrichment of the language and providing in depth aesthetic knowledge and an eagerness to appreciate the language in its ingenuity to the students who come here to avail themselves of the course. Papers like English Language Teaching (ELT), writing and Editing for Media, Creative Writing, Contemporary Critical Theory, Film Studies, Script Writing for Films, and Life Writing, taught in the UG & PG program make the Department distinct. The aim of the Department is to promote intellectual and critical thinking among students, and inculcating professionalism with humanitarian attitude, through teaching and training of English literature, language, and genre studies. The department's objective is to provide an environment for holistic development of the students.

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1.	Dr. Sohel Aziz	Aliah University	
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FACULTY DETAILS



Rituparna Chakroborty
Assistant Professor
& Head

Research Area: Postcolonial



Assistant Professor

Research Area: Modernism and

Dr. Shubham



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Research Area: Science Fiction



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Research Area: Cognitive literary studies



Agnideepto Dutta
Assistant Professor
Research Area: Psychoanalysis



Sonakshi Mukherjee
Assistant Professor
Research Area: N/A



Anirban Banerjee
Teaching Assistant
Research Area: Indian Mythology

PUBLICATIONS

Journal Publication:

- Author Rituparna Chakraborty, Name of the journal Bangla Journal, Title of the paper Women: Problems, Empowerment and Identity, Vol no., Issue no. 14th year, 22 nd Issue, ISSN 1488–0792
- Author Rituparna Chakraborty ,Name of the journal –
 International journal of Advanced Academic Studies , Title of the paper Crime and Punishment : Re-reading Agatha
- Christie's novel Murder on the Orient Express, DOI https://doi.org/10.33545/27068919.2022v4.i2c.806, E- ISSN: 2706-8927, P-ISSN: 2706 8919
- Author Souvik Tewari, Shraddha Vaishnav, Sunanda Biswas,

Ranajit Kumar Khalua, Rituparna Chakraborty and Aparupa Chakraborty, Name of the journal - *Uttar Pradesh Journal of Zoology*, Title of the paper - Fish Liver Oil: Omega-3 Fatty acid and HumanHealth

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Edited Book:

- Associate editor in Modern Trends in Multidisciplinary Subjects,
 Volume I
- published by Redshine Publication, November 2022, ISBN: 978-93-954546-62-3.
- Paper presentation in Seminars/Conference:-
- XV National Conference on Women's Studies "Women in a Changing World: Restructured Inequalities, Countercurrents and Sites of Resistance", Title of the paper – Speaking of the subaltern in Rabindranath Tagore's Dance Drama Chandalika and Nagraj Manjule's movie Fandry, Venue – University of Madras, Chennai
- Two Days' International Seminar on Negotiations between the Local and Global in Cultural Bengal: Community, Society and Politics, Title of the paper – Interrogating the politics of Colonialism and Nationalism: A Post-colonial reading of Tagore's novels Four Chapters and Gora, Venue – Acharya Brojendra Nath Seal College, Cooch Behar
- International Conference hosted by Shastri Indo-Canadian Institute, New Delhiand Department of English, School of

Humanities, Pondicherry University on Convergence and Divergence: Indian writing in a global context – Canadian and Indian Perspective, Title of the paper – **Problems of translating Nonsense: Situating Sukumar Ray in a Global Context**, Venue – Pondicherry University

- International Conference on Comparing Comparative Literature organized by Department of Comparative Literature Jadavpur University, Title of the paper – My Experience of studying Comparative Literature, Venue – Jadavpur University
- International Seminar on Understanding Environment in the context of contemporary society, culture and education organized by Department of Education, University of Gour Banga in collaboration with Byanjanbarna Foundation, Title of the paper – Delineation of environment in selected novels and stories of Arthur Conan Doyle, Venue – University of Gour Banga
- National Seminar on Print, Culture and Society: Interdependence and Emerging Trend, Title of the paper - Delineation of women in select fictions of Arthur Conan Doyle, Venue - Swami Vivekananda University

ACTIVITIES (SEMINAR, CONFERENCE & WORKSHOP)

- International Conference on Literature, Media and Cultural Studies:
 Symbiosis and Emerging Trends, Date: 25, 26, and 27th May, 2023
- National Seminar on Print, Culture, and Society: Interdependence and EmergingTrends, Date: 29th and 30th April, 2022





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In a conflict between the heart and the brain, follow your heart.

- Swami Vivekananda