



ANNUAL REPORT

2022-2023



SWAMI VIVEKANANDA UNIVERSITY

CAMPUS ADDRESS

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1.About University

Swami Vivekananda University was established in the year 2019 by Swami Vivekananda Group of Institutions (RERF) and over the last couple of years has grown in rapid strides to transform it into a reputed University. RERF is lead educational conglomerate in the state of West Bengal and leading Private-sector Educational Group with over 28 institutions dedicated to impart demand-driven education in Pure and Applied Science, Engineering, Technology, Management, Agriculture, Life Science, Allied Health Science, Humanities and Social Sciences, Journalism and Mass communication and related areas with high quality consciousness in various Under graduate, Post Graduate and Doctoral programs.

Swami Vivekananda University (SVU) aims to actualize Swami Vivekananda's educational vision of life building, and character-making education by combining the best elements of the East and the West. He envisioned an educational system wherein the rich cultural and spiritual heritage of our country with its hoary tradition of values like 'sacredness of knowledge', 'shraddha', 'devotion to truth', etc., would be blended with modern science, and predominantly western values like scientific temper, rationality of outlook, fearless and objective investigation into the nature of the physical world, technological skill, work efficiency, team work, etc. Swami Vivekananda's emphasis on man-making and character-building education is always being kept in view in all the programs and courses of study in the University bearing his hallowed name.

In the direction of thought of the Hon'ble Chairman's dream – *Excellence -Innovation-Entrepreneurship* –the University has taken several new educational initiatives in the recent past. The prime focus continues to drive us towards achieving increased standard of education and wider research outreach program. It is imperative, therefore, to be both creative & innovative in the approach to lead the University towards a University of Excellence.

The University is established through the Act no. XV of 2019 of the State Legislature of West Bengal in the year 2019 w.e.f 5th December 2019 and subsequently enlisted by the University Grant Commission in the year 2020 as a State Private University. The University from inception keeping a self-compliance of quality standard so as to comply accreditations immediately after becoming eligible on completion of graduation of batches. This is in place through its own Internal Quality Assurance Cell (IQAC).

Located in its sprawling 12 acres lush 'Green Campus' at the Township of Barrackpore with a smooth tripartite connectivity of rail-road-air, within 15 kilometers from Airport, little distance from the junction point Wireless more of Barrackpore-Barasat and Kalyani Expressway, in a close vicinity from Barrackpore railway station, the University already attains a strength of over 2000 + students pursuing various graduate and post graduate programs including around 150 research scholars only in its second session. The Campus has an ideal educational ambience with Classrooms, Laboratories, Auditorium, Smart Classrooms, Seminar Halls, Conference Halls, Computer Centre, Central Library, Gymnasium, Store and Canteen with campus WI Fi connectivity. Some of the highlights are Integrated hi-tech eco-friendly campus, highly equipped technical and language laboratories, well-furnished library with of more than 10,000 books, 5000 titles, and 100 national and international Journals, smart Classrooms in all the disciplines, Wi-Fi enabled smart campus, Sports, Swimming pool, Gymnasium, canteen & cafeteria facilities, Multipurpose Hall, Medical Harbour, Banking Services, Campus Vigilance and Security System, Industry Relevant Curriculum.

2.From the 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, the University's Undergraduate, Postgraduate, and Doctoral Programs 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."

4.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 SVU as the national leader in delivering value to its students and offering a transformative educational and life experience.

The office works collaboratively across the University Constituent 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 the pinnacle of success.

From the 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 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 best academic, administrative and research atmosphere in the campus.

6.The Departments

6.1.Department of Computer Science & Engineering & Computer Application

Computer Science serves as the foundation for various technological advancements that the world sees today. The field has grown by leaps and bounds. The future innovations that it brings along never seem to slow down. Yet another beauty of computer science is that it finds a place in many interdisciplinary fields as well. With these, there also comes a necessity to keep up to the global demand of finding highly skilled engineers and scientists. Swami Vivekananda University, one of the top-ranked universities in India drives on the purpose of providing quality education and improving competence among students thereby living up to its motto, 'Progress Through Knowledge'.

Courses Offered :

Diploma in Computer Science & Technology

B.Tech in Computer Science & Engineering

M.Tech in Computer Science & Engineering

Bachelor of Computer Applications

Master of Computer Applications

Master of Science in Data Science

B.Sc.(H) in Advanced Networking and Cyber
Security

Ph.D. in Computer Science & Engineering

Ph.D. in Computer Science

Faculty Details :

Name of the Teacher	Specialization
MS. PARAMITA SARKAR	Data science
DR. RANJAN KUMAR MONDAL	Cloud Computing, Internet of Things
MR. SOURAV SAHA	Machine Learning, Image Processing, Artificial Intelligence
MR. SOHAM MUKHERJEE	Generative AI
MS. SHARDHA ROYCHOWDHURY	Machine Learning, Deep Learning, Multimodal Large Language Models
Dr. Subir Gupta	Generative AI
MR. DEBAYAN BHATTACHARYYA	AI, ML
MR. SAYAN CHAKRABORTY	AI and Machine Learning
MS. LIPIKA MUKHERJEE PAL	Machine learning

MS. DIYOTIMA GHOSH	Time Series Analysis, Data Visualization, High-Performance Data Processing, Scalable Machine Learning
MS. ARIMITRA BASU	Computer Vision & Image Processing
DR. SOMSUBHRA GUPTA	Machine Intelligence
Dr. Rana Majumdar	Data science
Dr. Santanu Roy	Explainable AI (XAI), Natural Language Processing (NLP)
Dr. Anindya Bose	Generative AI
Mr. Saikat Banerjee	AI, ML
Mr. Subhashis Adhikari	Machine Learning, Deep Learning, Multimodal Large Language Models
Mr. Ranjit Senko	Computer Vision & Image Processing
Ms. Tanusree Gupta	AI, ML
Ms. Rakhi Chakraborty	Machine Learning, AI, Generative AI, Android Development, IOS Development, NLP, Virtual Reality(VR) and Augmented Reality(AR), Blockchain
Ms. Dipannita Basu	Data Science
Ms. Saswati Rakshit	Machine Learning, Deep Learning, Multimodal Large Language Models
Mrs. Swarnali Daw	Cloud Computing
MS. PARAMITA KUNDU MAJI	Machine Learning, AI, Generative AI, Android Development, IOS Development, NLP, Virtual Reality(VR) and Augmented Reality(AR), Blockchain
Dr. Sahana Das	Machine Intelligence
Ms. Chandrima Sinha Roy	Machine Learning, Natural Language Processing
Mr. Abhisek Roy	Machine Learning
Ms. DIPANNYTA NANDI	Web Techonology
Dr. Santanu Modak	Machine Learning, AI, Generative AI, Android Development, IOS Development, NLP, Virtual Reality(VR) and Augmented Reality(AR), Blockchain

External Members on the Board of Studies:

Dr. Amlan Chakraborty	Head, IT & Tech. Innovation Cell , Dept. of Higher Education, Govt. of West Bengal & Professor & Director, A.K. Choudhury School of I.T. University of Calcutta.	External Expert from Academia
Dr. Matangani Chatterjee	Professor School of Education Technology Jadavpur University, Kolkata -700032	External Expert from Academia
Dr. Soumya Sen	Professor, Calcutta University, Kolkata, West Bengal.	External Expert from Academia
Prof. Dr. Joytsa Kumar Mandal	Vice Chancellor, Raiganj University Erstwhile Professor, Kalyani University, Kalyani, West Bengal.	External Expert from Academia
Mr. Debabrata Ghosh	Tata Consultancy Services Kolkata, West Bengal	External Expert from Industry
Mr. Jayant Kumar	Emerson, New Delhi	External Expert from Industry
Mr. Asimava Bera	Qualcomm Kolkata, West Bengal.	External Expert from Industry

Publications Details (Conference / Patent / Research Papers)

Patent

“IoT based Solar Powered Waste Water Harvesting and Irrigation System” Abhishek Dhar, Anusmita Bhowmik, Avirup Chakraborty, Saurabh Adhikari, Sourav Saha, Brati Acharya, 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 202131033100A]

“IoT based Rain Water Harvesting System for Washing Machine by using Raspberry PI”, Abhishek Dhar, Sudip Das, Bidisha Paul, Bishal Chakraborty, Saurabh Adhikari, Ariftr Chakraborty, Sourav Saha, 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 202131026295A]

“Multi Sensor Based Smart Medical Ring for Health Monitoring System”, Abhishek Dhar, Bidisha Paul, Bishal Chakraborty, Saurabh Adhikari, Ariftr Chakraborty, Sourav Saha, 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 202131026296A]

“HUMOBOT – Multipurpose robot assistant in Post Pandemic”, Abhishek Dhar, Soumya Ghosh, Saurabh Adhikari, Rituparna Mitra, Arijit Mukherjee, Sayan Paul, Titas Kumar Nag, Sourav Saha, 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 202231038993A]

“IoT Based Solar Powered Battery less Street Light”, Abhishek Dhar, Saikat Majumdar, Saurabh Adhikari, Titas Kumar Nag, Sourav Saha, Rituparna Mitra, Avik Datta, Koushik Chatterjee, 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 202231035362A]

“Solar Powered Automated Rooftop Shielding Mechanism”, Abhishek Dhar, Saikat Majumdar, Sayan Paul, Saurabh Adhikari, Soumya Ghosh, Titas Kumar Nag, Arijit Mukherjee, Sourav Saha, Rituparna Mitra, Avik Datta, 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 202231038246A]

“Hydraulic Ram Pump System for Water Lifting in hilly region”, Soumya Ghosh, Abhishek Dhar, Saurabh Adhikari, Sourav Saha, Sayan Paul, Arijit Mukherjee, Dr. Ranjan Kumar, 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 202231035645A]

“Smart Solar Grass Cutter”, Sayan Paul, Abhishek Dhar, Soumya Ghosh, Saurabh Adhikari, Arijit Mukherjee, Dr. Ranjan Kumar, Sourav Saha, 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 202231038992A]

“Artificial Intelligence Based Smart Charger for Electric Vehicle” Abhishek Dhar, Saurabh Adhikari, Arif Chakraborty, Sourav Saha, and Swarna Biswas, Intellectual Property Australia, Australian Government [Patent Number-2021105728, Filing Date: 18-08-2021, Expiry Date- 18-08-2029]
<http://pericles.ipaustralia.gov.au/ols/auspat/applicationDetails.do?applicationNo=2021105728>

Conference:

Mr. Sayan Chakraborty, Data-Driven Approach for Bio-medical and Healthcare, Semi-structured Patient Data in Electronic Health Record, International, 978-981-19-5183-1, Springer

Mr. Sayan Chakraborty, Explainable AI for Predictive Analytics on Employee Attrition, 2022 4th International Conference on Soft Computing and its Engineering Applications (icSoftComp2022), 20-12-2022, (*Accepted) ISBN/ISSN Not available Yet, Springer.

Mrs. Paramita Kundu Maji, Computational Linguistic with Predicate Calculus in MRI document image analysis for measuring effect of music in human brain, International Conference on Literature Media and Cultural Studies 2023, Accepted.

Ayan De, Saswati Rakshit, Debayan Bhattacharya,. Handwritten Digit Classification and performance analysis of different machine Learning Algorithms and CNN. International Conference on Engineering Design & Computing, 2023, Accepted. Submission Id: 1986204746.

A Roy, S Gupta, “ New-normal Object-Oriented Dynamic Learning Environment (NOODLE) to address Digital Divide”, accepted for publication in Proceedings of International Conference on Intelligent Systems (ICIS) 2022, AIP proceedings (**both Scopus and WoS**), ISSN:1551-7616, 2022 (In press)

A Datta, S Gupta, “Ubiquitous Devices Safety using Cyber Security”, accepted for publication in Proceedings of International Conference on Intelligent Systems (ICIS) 2022, AIP proceedings (**both Scopus and WoS**), ISSN:1551-7616, 2022 (In press), (Ibn -Zohr Univ., Agadhir, MOROCCO)

A Banerjee Majumder, S Gupta, D. Singh, S. Majumder, “A COVID-19 Prediction Model using Bagging under the framework of Machine Learning”, accepted for publication in Proceedings of International Conference on Intelligent Systems (ICIS) 2022, AIP proceedings (**both Scopus and WoS**), ISSN:1551-7616, 2022 (In press),

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P. Das, S. Gupta, B. Neogi, “Music Therapy for hearing impaired: Measuring impact of vibration on deaf and dumb using Digital Signal Processing and Machine Intelligence “, accepted for publication in Proceedings of International Conference on Intelligent Systems (ICIS) 2022, AIP proceedings (**both Scopus and WoS**), ISSN:1551-7616, 2022 (In press),

S. Saha, A. Dhar, S. Gupta, “Mining Math-Bio rule in recognizing pattern using Machine Intelligence”, accepted for publication in Proceedings of International Conference on Intelligent Systems (ICIS) 2022, AIP proceedings (**both Scopus and WoS**), ISSN:1551-7616, 2022 (In press),

B. Sutradhar, S. Rakshit, S.Gupta, “Multimodal identification of face mask as a precautionary measure using Digital Image Processing”, accepted for publication in Proceedings of International Conference on Intelligent Systems (ICIS) 2022, AIP proceedings (**both Scopus and WoS**), ISSN:1551-7616, 2022 (In press),

Mou Majhi, Subhojit Mukherjee and Ratul Nandy.” SMART HEALTHCARE BEST LIVING EXTENDING SMART HOME USING INTERNET OF THINGS”, International Conference on

Engineering Design and Computing 2023.

Annwesha Banerjee, Somsubhra Gupta, Dharmpal Singh and Sourav Majumder." AN EXPLAINABLE HYBRID INTELLIGENT SYSTEM FOR PREDICTION OF CARDIOVASCULAR DISEASE", International Conference on Engineering Design and Computing 2023.

Dibakar Dasgupta, Amit Chakraborty, Pratyay Roy and Subhojit Mukherjee , " Chronic Kidney Disease Detection using Ensemble Learning", International Conference on Engineering Design and Computing 2023.

Maumita Das, Swarnali Daw, Prasenjit Kumar Patra and Sayan Chakraborty." Metaverse in Education Sector: Current theories, Research, and Future Directions", International Conference on Engineering Design and Computing 2023.

Koustav Dey and Pratik Bera," User Profiling behavior and activity of persistent surveillance of user activity in complex networks", International Conference on Engineering Design and Computing 2023.

Bidyut Roy, Bablu Pramanik and Manoj Kumar Srivastav," Study of Online pre-admission enquiry prediction under the framework of k-Nearest Neighbor (k-NN) algorithm", International Conference on Engineering Design and Computing 2023.

Manoj Kumar Srivastav and Somsubhra Gupta," An approach for exploring practical phenomena in Social Network Analysis", International Conference on Engineering Design and Computing 2023.

Book Chapter:

Ms. Sraddha Roy Choudhury. Artificial Intelligence Techniques in Human Resource Management, Fabric Defect Detection and Fault Identification of a Fabric Video for Purpose of ERP in Industry 4.0: An Image Processing Technique, 9781774911686, CRC Press

Bishal Chakraborty, Bidisha Paul, Abhishek Dhar, Saurabh Adhikari & Sourav Saha . Rainwater Harvesting for Washing of Clothes in Washing Machine by Using Raspberry Pi. In: Peng, SL., Lin, CK., Pal, S. (eds) Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science. Advances in Intelligent Systems and Computing, vol 1422. Springer, Singapore.

Runa Ganguli , Md. Jakir Hossain Molla , Punyasha Chatterjee , Saurabh Adhikari , Sourav Saha , Soumya Sen. A Generic Modelling on Neo4j to Recommend Students for Suitable Job Sectors Based on Different Skill Set Parameters . In: Peng, SL., Lin, CK., Pal, S. (eds) Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science. Advances in Intelligent Systems and Computing, vol 1422. Springer, Singapore.

Saurabh Adhikari , Sourav Saha , Anjan Dutta , Anirban Mitra , Soumya Sen. A Novel Indexing Scheme Over Lattice of Cuboids and Concept Hierarchy in Data Warehouse. In: Peng, SL., Lin, CK., Pal, S. (eds) Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science. Advances in Intelligent Systems and

Computing, vol 1422. Springer, Singapore.

Md Jakir Hossain Molla , Sk Md Obaidullah , Parveen Ahmed Alam , Saurabh Adhikari , Sourav Saha , Soumya Sen. Campus Recruitment Cost Analysis: A Roadmap for HR Managers. In: Peng, SL., Lin, CK., Pal, S. (eds) Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science. Advances in Intelligent Systems and Computing, vol 1422. Springer, Singapore.

Journal:

Dr. Sayan Chakraborty, Soumi Majumder, Soumalya Chowdhury. Interactive Web-interface for Competency-Based Classroom Assessment, International Journal of Education and Management Engineering(IJEME), 2305-3623, Accepted (In Press)

Dr. Sayan Chakraborty, Metaverse and its Impact in Healthcare, Path to a Knowledge Society-Managing Risks and Innovation PaKSoM 2022, 08.12.2022, Complex System Research Centre, Niš, Serbia; Mathematical Institute of the Serbian Academy of Sciences and Arts.

Dr. Sayan Chakraborty. Applications of Genetic Algorithm and its Variants, Genetic algorithm applications for challenging real-world problems: recent advances and future trends, *Accepted, Springer

Dr. Sahana Das, Sk Md Obaidullah, Mufti Mahmud, M Shamim Kaiser, Kaushik Roy, Chanchal K Saha, Kaushik Goswami, A Machine Learning Pipeline to Classify Fetal Heart Rate Deceleration with Optimal Feature Set, Scientific Reports, 2045-2322, 16-02-2023, Vol: 13, IF: 5.1, Web of Science, PubMed, PubMed Central, Scopus, SCI, Dimensions, Google Scholar, DOAJ and SAO/NASA ADS, 10.1038/s41598-023-27707-z.

Sahana Das, Himadri Mukherjee, Kaushik Roy, Chanchal K Saha. Sahana Das, Fetal Health Classification from Cardiotocograph for Both Stages of Labor—A Soft-Computing-Based Approach, Diagnostics, 2075-4418, International, 23-02-2023, Vol: 13(858), IF: 3.992, Scopus, SCIE (Web of Science), PubMed, PMC, Embase, Inspec, CAPus / SciFinder, 10.3390/diagnostics13050858,

Dr. Sayan Chakraborty, Applied Genetic Algorithm and its Variants: Case Studies and New Developments, Variants of Genetics Algorithm and their Applications, International, Springer.

Datta, Atanu and Gupta, Somsubhra, Proposed Safety and Security Model for Hand-Held Mobile Devices, Social Science Research Network Electronic Journal, ISSN: 1556-5068, SSRN, Elsevier , March 18, 2022, Available at SSRN <https://ssrn.com/abstract=4060930> or <http://dx.doi.org/10.2139/ssrn.4060930>

Gupta, Somsubhra and Kumar Srivastav, Manoj, “Analysis and Prediction of Friendship Model in Social Networks like Facebook using Binomial Distribution and Supervised Learning”, Social Science Research Network Electronic Journal, ISSN: 1556-5068, SSRN,

Elsevier, April 22, 2022. Available at

SSRN: <https://ssrn.com/abstract=4090505> or <http://dx.doi.org/10.2139/ssrn.4090505>

D. Barik, S. Som, S. Gupta, "Part of Speech Tagging in Toddlers' feedback in detecting Autism Spectrum Disorder (ASD) using quantum inspired algorithm", Third concept: An International Journal of ideas, ISSN: 0970-7247 (**UGC approved**) , April 2023.

A. Roy, P.Das, M.Sur, M. Maity, T. Majumdar, S. Gupta, "Technology-driven cost friendly Virtual Learning device for inclusive education", Third concept: An International Journal of ideas, ISSN: 0970-7247 (**UGC approved**) , April 2023

P.K. Maji, S. Dasgupta, S. Gupta, "Computational Linguistic with Predicate Calculus in MRI document image analysis for measuring effect of music in human brain", Third concept: An International Journal of ideas, ISSN: 0970-7247 (**UGC approved**) , April 2023. (In press through ICLMC 2023)

A. Chakraborty, R.K. Keshari, D. Dey, S. Gupta "Part of Speech Tagging in Toddlers' feedback in detecting Autism Spectrum Disorder (ASD) using quantum inspired algorithm A novel approach to find Personally Identifiable Information from an image using transfer learning with dilated convolutions in a CNN for a wide field of view", Third concept: An International Journal of ideas, ISSN: 0970-7247 (**UGC approved**) , April 2023. (In press through ICLMC 2023)

R. Maity, S. Dutta Ghoshal, S. Ghosh, S. Shaha, S. Chakraborty, S. Gupta, "Computational Linguistic and Machine Learning in analyzing lyrics of the music for therapeutic cause", Third concept: An International Journal of ideas, ISSN: 0970-7247 (**UGC approved**) , April 2023. (In press through ICLMC 2023)

S. Banik, N. Biswas, R. Singh, A. Chatterjee, P. das, S. Das, Y.K. Prasad, S. Gupta, "Emotion Analysis using PoS tagging of the online education participants under the framework of Natural Language Processing", Third concept: An International Journal of ideas, ISSN: 0970-7247 (**UGC approved**) , April 2023.

R. Jana, P. Pal, S.A. Ali, D. Das, S. Gayan, S. Gupta, "Part of Speech Tagging in Toddlers' feedback in detecting Autism Spectrum Disorder (ASD) using quantum inspired algorithm Processor to compile and execute algorithms written in Natural Language", Third concept: An International Journal of ideas, ISSN: 0970-7247 (**UGC approved**) , April 2023. (In press through ICLMC 2023) (Swami Vivekananda University)

Sourav Saha, Debashis Roy "CHALLENGES OF THE EDUCATION SYSTEM IN MODERN INDIA WITH REFERENCE TO IMPLEMENTATION OF NEP 2020" Journal Of the Oriental Institute ISSN: 0030-5324 M.S. University of Baroda (UGC CARE Group 1)

Edited Book :

Sourav Saha Associate editor in Modern Trends in Multidisciplinary Subjects, Volume 2 published by Redshine Publication, December 2022, ISBN: 978-93-954546-83-8.

Conferences, Workshops, Seminars organized

"Seminar on Outcome Based Education" - Prof Krishna Vedula M, Dean Emeritus UMassLowell USA 23rd August 2022.

"Seminar on Cryptography and Steganography" - Prof. JK Mandal, then Director IQAC Kalyani Univ. (Now VCI Raiganj Univ.)

.International Conference on Engineering Design and Computing 2023 - technically cosponsored by IEEE Kolkata Section - Conference Chair: Prof E Balagurusamy, renowned author of Computer books 28 -29 January 2023

"Webinar on Changes in Data landscape for last 15 years" - Mr. Pramit Mitra, Dell Technologies, USA 22nd April 2023

"Webinar on Business Analytics" - Prof Dr Anindya Biswas, Spring Hill College Alabama USA 13th May 2023

6.2. Department Of Electronics and Communication Engineering

The Department of Electronics and Communication is one of the first constituents of this college. From the very inception, this department has established itself as an efficient, self-reliant and quality conscious entity with the sole aim of producing the most energetic, enthusiastic and professionally competent Electronic Engineers with ability to take up the challenges posed to them.

To fulfill this dream, the department is manned by a group of well qualified, conscientious and dedicated faculty and technical staff. The salient aspects of the department such as facilities available, achievements, students forum etc are brought out in the succeeding sections.

Electronics & Communication Engineering deals with the electronic devices, circuits, communication equipments like transmitter, receiver, integrated circuits (IC). It also deals with basic electronics, analog and digital transmission & reception of data, voice and video (Example AM, FM, DTH), microprocessors, satellite communication, microwave engineering, antennae and wave progression. It aims to deepen the knowledge and skills of the students on the basic concepts and theories that will equip them in their professional work involving analysis, systems implementation, operation, production, and maintenance of the various applications in the field of Electronics and Communications Engineering.

Courses Offered :

B.Tech in Electronics & Communication Engineering

M.Tech in Electronics & Communication Engineering

Ph.D. in Electronics & Communication Engineering

Name of the Teacher	Specialization
Dr. Debasis Mondal	Electrical Biosensor, Statistical data analysis, IoT based healthcare system, Silicon fabrication technology, FEM based simulation
Ms. Shreya Adhikary	Medical image processing, microscopy development, early cancer detection
Tomal Suvro Sannyashi	Communication Engineering, VLSI
Dr. Debraj Chakraborty	IOT, Signals Processing, Chaotic Cryptography
Dr. Somdatta Paul	IOT, Embedded Systems, & Healthcare Analytics
Dr. Jenifar Sultana	Renewable Energy, Automation
Ms. Sayantani Bhattacharyya	Power Electronics, Electric Drives, Renewable Energy, Automation

Dr. Debasis Mondal	Cytosensor
Mr. Tomal Suvro Sannyashi	Communication
Dr. Debraj Chakraborty	Terahertz Semiconductor Devices and Applications

External Members on the Board of Studies:

Dr. Sanatan Chattopadhyay	Associate Professor, Department of Electronic Science	University of Calcutta
Dr. Anirban Bhattacharyya	Associate Professor, Department of Electronic Science	University of Calcutta
Dr. Dipankar Ghosh, HOD	HOD, Assistant Professor	Future Institute of Engineering and Management

Publications Details (Conference / Patent / Research Papers)

Ankita Das, Shreya Adhikary, Amit Roy Chowdhury, Ananya Barui, “Leveraging Substrate Stiffness to Promote Stem Cell Asymmetric Division via Mechanotransduction-Polarity Protein Axis and Its Bayesian Regression Analysis”, Rejuvenation Research, Vol. 25, Issue. 2, pp. 59-69, 2022. <https://doi.org/10.1089/rej.2021.0039>

Aritri Ghosh, Dwiteeya Chaudhuri, Shreya Adhikary, Kabita Chatterjee, Amit Roychowdhury, Asit Kumar Das, Ananya Barui, “Deep reinforced neural network model for cyto-spectroscopic analysis of epigenetic markers for automated oral cancer risk prediction”, Chemometrics and Intelligent Laboratory Systems, Vol. 224, pp. 1-11, 2022. <https://doi.org/10.1016/j.chemolab.2022.104548>

Conferences, Workshops, Seminars organized

Webinar on “Entrepreneurship and Innovation as Career Opportunity” Date: 16th April, 2022

Three days Workshop on “Exposure and field visit for problem identification in nanotechnology domain” Date: 26th – 28th April, 2022

6.3. Department of Electrical Engineering

The department offers a vibrant environment for education in Electrical Engineering. Our mission is to provide a high-quality education and prepare students to design and develop products as well as practical solutions to problems in public and private sectors. Currently, the department of Electrical Engineering offers B. Tech. in Electrical Engineering. Faculty members in the Electrical Engineering department hold B. Tech/ M. Tech/ PhD degrees from prestigious government institutions. Faculty members have specialization in diverse fields of Electrical Engineering such as Power systems, Electrical Machines, Electrical Drives, High Voltage Engineering, Control systems, Instrumentation, Biomedical Engineering, Signal Processing, and Data Mining. The faculty members have published a significant number of research and review articles in reputed

International Journals as well as in the Proceedings of various International and National Seminars, Conferences, Symposia and Workshops. Members of the faculty have also contributed chapters to books published by well-known international publishers.

Courses Offered :

Diploma in Electrical Engineering

B.Tech in Electrical Engineering

M.Tech in Electrical Engineering

Ph.D. in Electrical Engineering

Faculty Details:

Name of the Teacher	Specialization
Dr. Rituparna Mitra	Power Distribution, Power Quality
Dr. Rituparna Mukherjee	Power System Protection
Mr. Abhishek Dhar	Power Distribution, Power Quality
Mr. Avik Datta	Control and Instrumentation
Mr. Koushik Chatterjee	Power System Protection
Mr. Saikat Majumder	Hybrid Electric Vehicle
Ms. Arunima Mahapatra	Renewable Energy, Power System
Mr. Promit Kumar Saha	Power Electronics, Renewable Energy, Hybrid Electric Vehicle, High Voltage Engineering, IoT, Smart Grid
Mr. Titas Kumar Nag	Power system, renewal energy
Ms. Susmita Dhar Mukherjee	power system
Mr. Suvraujjal Dutta	Power system Protection

External Members on the Board of Studies:

Dr. SANDIP CHANDA	Ghani Khan Choudhury Institute of Engineering & Technology
Dr. ABHINANDAN DE	IEST
PRITAM KUMAR GYEN	Kalyani Government Engineering College
Dr. Prashant Kumar Tiwari	MNIT Allahabad
Dr. Sadhan Gope	NIT Agartala

Publications Details (Conference / Patent / Research Papers)

Journal Publication:

1. Sudip Das, Abhishek Dhar, Abakash Das, Pritam Kumar Gayen, Biswamoy Pal, Papun Biswas, "Design and Development of Fire Fighting System Using Hot Redundant PLC in COVID Situation", International Online Conference in Engineering Research, 2020, Impact Factor: 3.750. (SCOPUS INDEXED)
2. Sudip Das, Abhishek Dhar, Biswamoy Paul, Papun Biswas, Pritam Gayen and Subhojyoti Majumder, "Design and Development of IoT based Smart Security System in Covid19 Situation", International Online
3. Conference in Engineering Research, 2020. Impact Factor: 3.750 (SCOPUS INDEXED)
"Experimental investigations of resilient hybrid fiber reinforced SCC beam-column subassemblies under cyclic loadings", Structures, Elsevier, Volume 41, Pages 389-403, July 2022, <https://doi.org/10.1016/j.istruc.2022.05.026>

Book Chapter Published:

Chakraborty, B., Paul, B., Dhar, A., Adhikari, S., Saha, S. (2022). Rainwater Harvesting for Washing of Clothes in Washing Machine by Using Raspberry Pi. In: Peng, SL., Lin, CK., Pal, S. (eds) Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science. Advances in Intelligent Systems and Computing, vol 1422. Springer, Singapore. https://doi.org/10.1007/978-981-19-0182-9_20

Patent Published:

"HUMOBOT – Multipurpose robot assistant in Post Pandemic", Abhishek Dhar, Soumya Ghosh, Saurabh Adhikari, Rituparna Mitra, Arijit Mukherjee, Sayan Paul, Titas Kumar Nag, Sourav Saha, 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 202231038993A]

"IoT Based Solar Powered Battery less Street Light", Abhishek Dhar, Saikat Majumdar, Saurabh Adhikari, Titas Kumar Nag, Sourav Saha, Rituparna Mitra, Avik Datta, Koushik Chatterjee, 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 202231035362A]

“Solar Powered Automated Rooftop Shielding Mechanism”, Abhishek Dhar, Saikat Majumdar, Sayan Paul, Saurabh Adhikari, Soumya Ghosh, Titas Kumar Nag, Arijit Mukherjee, Sourav Saha, Rituparna Mitra, Avik Datta, 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 202231038246A]

“Hydraulic Ram Pump System for Water Lifting in hilly region”, Soumya Ghosh, Abhishek Dhar, Saurabh Adhikari, Sourav Saha, Sayan Paul, Arijit Mukherjee, Dr. Ranjan Kumar, 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 202231035645A]

“Smart Solar Grass Cutter”, Sayan Paul, Abhishek Dhar, Soumya Ghosh, Saurabh Adhikari, Arijit Mukherjee, Dr. Ranjan Kumar, Sourav Saha, 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 202231038992A]

“Design of an Army Jacket for Protection in Border Area” Abhishek Dhar, Saikat Majumder, Soumya Ghosh, Rituparna Mukherjee, Saurabh Adhikari, Promit Kumar Saha, 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 202231055777A Dated 21/10/2022].

“Analysis of a 15-level minimum component Inverter” Abhishek Dhar, Saikat Majumder, Saurabh Adhikari, Avik Datta, Promit Kumar Saha, 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 202231016266A Dated 24/03/2023].

“A Switch-Diode based 7-level Symmetrical Inverter for Industrial application” Abhishek Dhar, Saikat Majumder, Saurabh Adhikari, , Titas Kumar Nag, Rituparna Mukherjee 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 202331016321_A Dated 24/03/2023].

“An Ethical Hacking Pad design for system protection” Abhishek Dhar, Vibhor Raj, Saurabh Adhikari ,Saikat Majumder, Rituparna Mitra 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 202331016354_A Dated 24/03/2023]

“Analysis of a 15-level minimum component Inverter” Abhishek Dhar, Saikat Majumder, Saurabh Adhikari, Avik Datta, Promit Kumar Saha, 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 202331016266_A Dated 24/03/2022]

“Maximum Power Point Tracking without Inductor” Abhishek Dhar, Promit Kumar Saha, Saurabh Adhikari, Saikat Majumder Ariftrass Chakraborty ,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 202331016241_A Dated 24/03/2022]

Conferences, Workshops, Seminars organized

Workshop on “Dynamic distribution system-A New architecture” ,, Date: 12th February 2022 to 16th February 2022

Workshop on “Techno-Economic Scenario of power distribution network”Date: 13th February 2022

Workshop on “Dynamics, Control & conversion of electrical system” , Date: 23th February 2022

Workshop on “Dynamics, Control & conversion of electrical system” , Date: 22th February 2022

Workshop on “Dynamics, Control & conversion of electrical system”Date: 19th February 2022

Workshop on “Dynamic characteristics of electrical engineering”Date : 15th February 2022

One Day Industrial Visit at VECC Kolkata campus , Date : 15th September 2022

International Conference on Engineering Design and Computing ICEDC 2023 , Date: 28th January 2023 to 29th January 2023

6.4 Department of Mechanical Engineering

The vision of the department is to be one of the top rated departments in the world. To achieve this goal, the department strives to generate high quality graduates through rigorous coursework and cutting-edge research activities. The students in the department are exposed to the problems faced by today's societies, and are trained to address those problems through innovative thinking to develop appropriate technological solutions. The faculty members of the department drive these activities through their teaching and diverse research programs, covering numerous facets of Mechanical Engineering Science and Applications. In addition to the regular academic work, the students of the department are encouraged to participate in co-curricular activities.

Courses Offered :

Diploma in Mechanical Engineering

B.Tech in Mechanical Engineering

M.Tech in Mechanical Engineering

Ph.D. in Mechanical Engineering

Faculty Details:

Name of the Teacher	Specialization
Dr. Ranjan Kumar	Design, Li-ion Batteries, Design Thinking, Aerospace structure, Finite element simulation and analysis, Material cracks, Vibration
Dr. Md Ershad	Thermal Engg., Fluid mechanics
Dr. Samrat Biswas	Aerodynamics, Fluid Mechanics, Turbulence, CFD, Sediment Interactions, Hydro Turbines
Mr. Soumya Ghosh	Thermal Engg., Fluid mechanics
Mr. Arijit Mukherjee	Wire Arc Additive Manufacturing, Advanced Machining
Mr. Soumak Bose	Surface treatments, Weld cladding, Corrosion Resistance properties
Mr Suman Kumar Ghosh	Manufacturing Technology, Fluid Mechanics, Tribology
Mr Sayan Paul	Thermal Engineering, CFD
Dr. Mohammad Zahid	Manufacturing, Additive Manufacturing Technology
Mr. Prosenjit singha	CFD, Sediment Interactions, Hydro Turbines
Mr. Anupam Mallick	Manufacturing, Additive Manufacturing Technology

External Members on the Board of Studies:

Prof. (Dr.) Biswajit Halder	NIT Durgapur,
NIT Durgapur	IIT-ISM, Dhanbad

Publications Details (Conference / Patent / Research Papers)

Conference

1. Arijit Mukherjee, Santosh Kumar, Syan Paul, Soumak Bose, Suman Kumar Ghosh, Samrat Biswas "Comparative Study of Wear Behaviour of Heat Treated 304 Austenitic and 410 Martensitic Stainless Steel" International Conference on Engineering Design and Computing (ICEDC-2023) (Accepted)
2. Samrat Biswas, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Arijit Mukherjee, Bireswar Majumdar, "Investigation of Transverse Velocity Component over Swept-Back Wing in Subsonic Flow.", International Conference on Engineering Design and Computing (ICEDC-2023) (Accepted)
3. Priyam Mondal, Ranjan Kumar, and Md Ershad. "Physico- Mechanical properties of CeLa substituted Bio-Glass Ceramics" International Conference on Engineering Design and Computing (ICEDC-2023) (Accepted)
4. Neeraj Gupta, Md Ershad, and Apurba Mandal. "Mechanical behavior and biocompatibility of boron trioxide on the bioactive glasses" International Conference on Engineering Design and Computing (ICEDC-2023) (Accepted)

Research Papers

1. Ranjan Kumar, Saikat Chatterjee, Sanjoy K. Ghoshal, Vinayak Ranjan [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.
2. Ranjan Kumar, Sudip Chakraborty, Saikat Chatterjee [2022], Effect of gap ratio on flow influenced actions of two circular cylinders in side-by-side arrangement, Journal of mines, metals & fuels, pp.15- 20
3. Ranjan Kumar, Joydip Naskar, Somnath Das, Nilanjan Roy [2023], Experimental investigation of cutting parameters during laser beam machining of aluminum alloy 7075, Materials Today: In Press, DOI: <https://doi.org/10.1016/j.matpr.2023.03.194>
4. Ranjan Kumar, Sumanta Jungli, Somnath Das, Arijit Mukherjee [2023], Experimental analysis of cutting forces under different machining parameters and carbide inserts during turning of hardened AISI 4340 steel, Journal of polymer & composites. Web link: <https://journals.stmjournals.com/jopc/article=2023/view=95514/>
5. Ranjan Kumar, Joydip Kumar Mondal, Somnath Das, and Mriganka Maity [2023], Multicriteria decisionmaking process for position analysis in FDM 3D printed objects, Materials Today: Proceedings- In Press, DOI: <https://doi.org/10.1016/j.matpr.2023.02.292>

6. Ranjan Kumar, Mriganka Maity, Somnath Das, Joydip K. Mondal [2023], Experimental investigation for enhancing surface quality in 3D printing technology using non-planar layer method, Lecture notes in mechanical Engineering, Springer
7. Arijit Mukherjee, Santosh Kumar, Syan Paul, Soumak Bose, Suman Kumar Ghosh, Samrat Biswas "Comparative Study of Wear Behaviour of Heat Treated 304 Austenitic and 410 Martensitic Stainless Steel" Journal of Mines, Metals & Fuels. (Accepted)
8. Samrat Biswas, Sayan Paul, Soumya Ghosh, Suman Kumar Ghosh, Arijit Mukherjee, Bireswar Majumdar, "Investigation of Transverse Velocity Component over Swept-Back Wing in Subsonic Flow.", Journal of Mines, Metals & Fuels. (Accepted)
9. Animesh Roy, Samrat Biswas, Prabir Kumar De, Bireswar Majumdar, " Analysis of Vortex Dominated Flow over Double Delta Wing.",
10. Md Ershad, Akher Ali, Ranjan Kumar, and Suryakant Kumar, "Enhanced Mechanical properties and Biocompatibility of Lanthanum and Aluminum oxide substituted Bioactive glasses" Journal of the Mechanical Behavior of Biomedical Materials, 2023. (Communicated)
11. Priyam Mondal, Ranjan Kumar, and Md Ershad. "Physico- Mechanical properties of CeLa substituted Bio-Glass Ceramics" Journal of Mines, Metals & Fuels, 2023. (Accepted)
12. Neeraj Gupta, Md Ershad, and Apurba Mandal. "Mechanical behavior and biocompatibility of boron trioxide on the bioactive glasses" Journal of Mines, Metals & Fuels, 2023. (Accepted)
13. Mukherjee, A., Kumar, S., Paul, S., Bose, S., Ghosh, S. K., Biswas, S., Comparative Study of Wear Behaviour of Heat Treated 304 Austenitic and 410 Martensitic Stainless Steel, Journal of Mines, Metals & Fuels, 2023. (Accepted)
14. Biswas, S., Paul, S., Ghosh, S., Ghosh, S. K., Mukherjee, A., Majumdar, B., Investigation of Transverse Velocity Component over Swept-Back Wing in Subsonic Flow, Journal of Mines, Metals & Fuels, 2023. (Accepted)
15. Ghosh, B., Kumar, R., Das, S., Mukherjee A., Optimization of Process Parameters of Gas Metal Arc Welding Using Taguchi Method, RAMMTE-2022, (Accepted)
16. Bhattacharyya, Suvanjan, Soumya Ghosh, Devendra Kumar Vishwakarma, Hritik Gupta, and Biswajit Halder. "Investigation of the influence of novel hybrid tape on thermohydraulic characteristics in a solar air heater: An Experimental Study." In Fluid Mechanics and Fluid Power (Vol. 3) Select Proceedings of FMFP 2021, pp. 547-552. Singapore: Springer Nature Singapore, 2023.

Patent

1. Patent application No. 202341004118, Ranjan Kumar, Atul, G.D. Deepak, "Pin- Ring Electrode base atmospheric pressure plasma jet generating".
2. Patent application No. 202241000018, Ranjan Kumar, G.D. Deepak, Atul "Atmospheric pressure plasma jet generating system".

3. Patent application No. 202241010368, Ranjan Kumar, G.D. Deepak, Atul "Human motion based energy harvesting device".
4. Patent application No. 202241018002, Ranjan Kumar, G.D. Deepak, Atul, Plasma filter for automobile exhaust". Sayan Paul, Soumya Ghosh, Arijit Mukherjee "Solar Powered Automated Rooftop Shielding Mechanism".
5. Patent application No.:202331022706 Dr. Md Ershad, Dr. Ranjan Kumar, Mr. Saurabh Adhikari, Mr. Abhishek Dhar, Dr. Saikat Majumdar, Mr. Soumya Ghosh, Dr. Samrat Biswas, "Fabrication and design of the solar powered 360-degree rotating vehicle."
6. Dr. Ranjan Kumar, Dr. Samrat Biswas, Mr. Abhishek Dhar, Mr. Saurabh Adhikari, , Dr. Saikat Majumdar, "Solar powered water pump."
7. Dr. Ranjan Kumar, Dr. Samrat Biswas, Mr. Abhishek Dhar, Mr. Saurabh Adhikari, , Dr. Saikat Majumdar, "Solar powered beard trimmer."
8. Mr. Soumya Ghosh, Mr. Arijit Mukherjee, Mr. Sayan Paul "Multiple robot assistant in Post Pandemic".
9. Patent application No. 202231035645 Mr. Soumya Ghosh, Mr. Sayan Paul, Mr. Arijit Mukherjee, Dr. Ranjan Kumar, "Hydraulic Ram Pump System for Water Lifting in Hilly Region".
10. Patent application No. 202231038992, Mr. Sayan Paul, Mr. Soumya Ghosh, Mr. Arijit Mukherjee, Dr. Ranjan Kumar "Smart Solar Grass Cutter".

Conference / Workshop Organized by :

1. One-week workshop on CAD & Solid modelling tools, -07th to 12th March 2022
2. One-day seminar on "Intellectual property rights" -26th April 2022
3. International Conference on Engineering Design and Computing (ICEDC)-2023- 27th -28 January 2023
4. Onsite Hands-on workshop on Virtual Lab in collaboration with IIT Kharagpur, supported by Ministry of Education, Govt. of India under National Mission on Education through Information and Communication Technology (NME-ICT)- 6th April 2023
5. Webinar on Microstructural and Mechanical Properties of Hybrid Metal Matrix Composites as a Function of Processing Parameters.-7th April 2023

6.5.Department of Civil Engineering

The Department focus on blending academics with research and innovation. We maintain active research groups in Structural Engineering, Geotechnical Engineering. This research culture we maintain has always inspired many of our students who could embrace higher studies in premier institutes of the world. The Department is known for its reputed and well qualified faculty having experience in diverse fields. The faculty is supported by experienced technical staff and well-equipped laboratories. The faculty strives its level best in imparting the latest technical knowledge to the students and conducting the high quality of research. The faculty also offers technical advice on the live and challenging civil engineering problems to various Government, semi-government and the Private organizations.

Courses Offered :

Diploma in Civil Engineering

B.Tech in Civil Engineering

M.Tech in Civil Engineering

Ph.D. in Civil Engineering

Faculty Details :

Name of the Teacher	Specialization
Dr. Abir Sarkar	Vibration mitigation, finite element analysis, soil dynamics, application of AI in civil engineering
Mr. Anand Shaw	Urban & Regional Planning
Dr. Partha Sarathi Nayek	Environmental Engineering.Water Resources Engineering
Mr. Saptarshi Sen	Materials Engineering
Mr.Soumya Sadhukhan	Coastal & Ocean Engineering
Mr. Bahnisikha Das	Surveying & Geomatics Engineering
Ms. Sneha Das	soil dynamics, application of AI in civil engineering
Mr. Bappaditya Halder	Geo informatics
Dr. Mofijul Molla	Environmental and geo environmental engineering, wastewater treatment
Ms. Sutapa Paul	Environmental and geo environmental engineering, wastewater treatment
Ms. Supriya Ghosal	Coastal & Ocean Engineering
Mr. Arghya Das	Soil stabilization, Ground improvement techniques

External Members on the Board of Studies:

Dr. Debjit Bhowmik	NIT Silchar
Dr. Maheshreddy Gade	IIT Mandi

Publications Details (Conference / Patent / Research Papers)

Sarkar, Abir & Bhowmik, Debjit. (2022). Prediction of Seismic Wave Velocity Using Artificial Intelligence. 10.1007/978-981-19-4055-2_42.

Conferences, Workshops, Seminars organized

One-day Seminar on Recent Advancements in Civil Engineering Thursday, September 1, 2022

6.5.Department of Physiotherapy

The Faculty in the Department are well qualified and highly experienced in their specialities. They are well versed in teaching learning methods, which aid to ensure that student engagement and practical training are delivered in the most effective manner to facilitate learning. The well-equipped labs in the College ensures a good learning experience along with a rich and diverse clinical exposure for students. The students trained at MAHE develop both inter-professional and intercultural skills that help them become global citizens. The department has established research collaborations with various international universities in the areas of musculoskeletal sciences, neurosciences, cardiopulmonary sciences, community physiotherapy, paediatrics and women's health physiotherapy. In addition, on going student exchange programs have been conducted to enhance exclusive research based learning and clinical experience with collaborated universities across the globe.

Courses Offered :

Bachelor of Physiotherapy (4½ Year)

Faculty Details :

Name of the Teacher	Specialization
Dr. Mainak Sur (PT)	Sports rehabilitation
Dr. Patralika Nath (PT)	Critical care rehabilitation
Dr. Barnana Roy (PT)	Musculoskeletal rehabilitation, chronic Pain management, sports injury prevention and recovery, Paediatric orthopedic Physiotherapy, neuro-orthopedic Physiotherapy
Dr. Sujata Deb Roy (PT)	Cardio and Respiratory Rehabilitation, Manual Therapy, Prehabilitation for athletes, Advanced evidence-based physiotherapy treatments, Sports Physiotherapy
Dr. Arpita Chakraborty	Pulmonary rehabilitation
Dr. Koushik Bhattacharya	neuro-orthopedic Physiotherapy
Dr. Bikramaditya Sahoo (PT)	Neuroplasticity, Graded Motor Imagery, Neurorehabilitation
Dr. Suvradeep Ganguly (PT)	Cardio and Respiratory Rehabilitation, Manual Therapy, Prehabilitation for athletes, Advanced evidence-based physiotherapy treatments, Sports Physiotherapy

External Members on the Board of Studies:

Dr. Subhanjan Das (PT)	Consultant Physiotherapist, Ex. Associate Professor	Garden City University
Dr. Anwesh Pradhan	Associate Professor	Nopany Institute of Healthcare Studies
Dr. Sampurna Sett (PT)	Chief Physiotherapist	Woodlands Hospital

Publications Details (Conference / Patent / Research Papers)

Research Paper:

Pattanayak A, Tewari S, Sur M, Majumder T. Malnutrition and immunity: A review. The Pharma Innovation Journal 2022; 11(5): 2491-2494.

M Sur, S Ray, A Pattanayak, S Tewari, P Pramanik. Effect of diet and physiotherapy for reducing gout-associated symptoms. Journal of Current Research in Food Science 4 (1), 91-94.

K. Bhattacharya, P. Nath, S. D Roy, B. Roy, A. Chakraborty, D. Maji, N. Paul, M.Sur. Assessment of Some Selected Anthropometric Parameters To Evaluate The Cardiometabolic Risk Among The Young

Obese Individuals. Conference Publication, 31st Annual Conference of the Physiological Society of India (PHYSIOCON-2019)

Pal, T. K., Roy, S. D., Agarwal S, & Pradhan, A. (2022). Effectiveness of Theraband Exercises on C Reactive Protein as Biomarker in Patients with Osteoarthritis of Knee. International Journal of Research and Analytical Reviews, 9(2), 808-818.

Bhattacharya K*, Dutta S, Sengupta P, Bagchi S. Reproductive tract microbiome and therapeutics of infertility. Middle East Fertil Soc J 28, 11 (2023) [doi.org/10.1186/s43043-023-00136-8] (Journal's Impact Factor: 0.69)

Bose C, Kinge AD, Sultana J, Biswas AK, Bhattacharya K, Syamal AK. Impact of a lifestyle intervention program on cardio-metabolic parameters among obese adults: A comparative population-based study in West Bengal, India. J Med Life 2023; 16(4):559-570.

Bhattacharya K*, Sengupta P, Dutta S, Syamal AK. Optimization of estrogen dosage for uterine receptivity for implantation in post-coital bilaterally ovariectomized mice. Mol Cell Biochem 2023; 478(2):285-289. (Journal's Impact Factor: 3.516)

Bose C, Ghosh S, Syamal AK, Bhattacharya K. Pattern of dietary intake and physical activity among obese adults in rural vs urban areas in West Bengal: a cross-sectional study. Res J Pharm Technol 2022; 15(9):3924-0. (Scopus)

Bhattacharya K, Saha I, Sen D, Bose C, Ray Chaudhuri G, Dutta S, Sengupta P, Bhattacharya S, Barman SS, Syamal AK. Role of anti-mullerian hormone in polycystic ovary syndrome. Middle East Fertil Soc J 27, 32 (2022) (Journal's Impact Factor: 0.69)

Ray Chaudhuri G, Das A, Kesh SB, Bhattacharya K, Dutta S, Sengupta P, Syamal AK. Obesity and male infertility: multifaceted reproductive disruption. Middle East Fertil Soc J 27, 8 (2022). (Journal's Impact Factor: 0.69)

Conferences, Workshops, Seminars organized

1. Three days National Workshop on “Neuroanatomy and its' clinical applications & Work from Home: Ergonomic Perspective & Postural Analysis” , Date: 14/02/2022 To 16/02/2022
2. Three days National Workshop on “Non-invasive Neuromodulation: Current Trends and future directions”, Date: 25th, 26th & 27th April 2022
3. One day Webinar on “AWAKENING TO SELF REALIZATION”, Date: 21.06.2022
4. One day Webinar on “Adult Neurogenesis”, Date: 11.05.2022
5. Celebration of World Physiotherapy Day- Date: 09.09.2022
6. Celebration of National Epilepsy Day- Date: 17.11.2022

6.5.Department of Optometry

SVU offers a 3year undergraduate programme in B. Optom. (Bachelor of Optometry) where students learn about various types of visual disorders, conditions, diseases and abnormalities of the human eye. SVU offers one of the best optometry programmes in West Bengal with a problem based learning (PBL) and case-based learning (CBL) approach to improve clinical decision making ability in students.

Students are taken for study tours of tertiary eye hospitals to know about the ophthalmic examinations techniques practised in these places. Their hands-on training is also facilitated through participation in eye screening camps as optometrists. The final year of this 4-year long programme is devoted to internship which allows students to gain sufficient industry exposure before venturing into full-time jobs.

Courses Offered :

Bachelor of Optometry

Faculty Details :

Name of the Teacher	Specialization
Prabirendranath Sinha	Clinical Optometry & Disease
Partha Pratim Seal	Pediatric Optometry
Nalini Ranjan Singh	Geriatric Optometry
Sriparna Das	Binocular Vision & Orthoptics
Raya Sinha	Contact Lens Specialist
Subhra Chandra Chandra	Vision Therapy & Neuro-Optometry

External Members on the Board of Studies:

Mr. Soumendra Nath Ghosh	HOD of Optometry	NSHM knowledge Campus
Mr. Chiranjib Majumder	Guest lecturer of Optometry	George College of Management and science
Mr. Anirban Dey	Consultant Optometrist	Aurobindo Nethralaya
Mr. Wasique Albasar	Senior Regional Optometry Trainer & Manager	Lenskart

Conferences, Workshops, Seminars organized

Name of event: "Dynamic Theory of Vision" Workshop on clinical Aspect of Optometry
Date: 8th - 10th March' 22

Name of event: World Optometry Day Celebration " Expanding Optometrist's Role , Date: 23/03/23

Department of Optometry; Swami Vivekananda University proudly celebrates World Optometry Day 2023.

Celebration of World Optometry Day , This year's theme: "Expanding Optometry's Role...The Time is Now!" Keynote speaker: Dr. Ranadeb Banerjee. Senior Optometrist, Industry Expert & Private Academico-Clinical Mentor."A quest to know our own Identity - Optometry" , Date : 23.03.2023

Workshop on Optometry Instruments for Clinical Practice by Three Instruments Program starts from 11 AM, 23.03.2023

Name of event: Health week celebration Seminar on Community eye care Topic: "Importance of School eye screening" , Date: 16/05/23

Webinar on "Seeing is Believing" , Date: 12th-14th February 2022

6.6.Department of Food & Nutrition

The department focuses on providing quality education to students and carrying out cutting-edge research and development in the concerned fields. The curriculum of the department is designed in such a manner as to focus that our students get career opportunities in reputed educational and industrial institutes. The department has initiated since its beginning, with a high standard of academic and infrastructural development. The outstanding academic program of the department is enhanced by the quality teaching and research, laboratory experience, as well as community outreach activities, supported by easy access to a department library, computers and other necessary facilities. The well catered curriculum has been expanded to convene the emerging needs and challenges in the area of Food and Nutrition. This has been achieved through not only course work but also with prominence given to research, community work focusing on capacity building of an underprivileged section of the population, seminars, internship/training in hospitals, food industries, and related organizations, educational tours, conferences, and workshops. To augment the students' perspective, the department holds seminars, workshops, and lectures from time to time by distinguished people working in the field of Nutrition and Food Technology or in collaboration with organizations related to these fields. Apart from this, the students and faculty are encouraged to participate and present papers at various National and International conferences.

Courses Offered :

B.Sc.(H) in Clinical Nutrition & Dietetics

M.Sc. in Food & Nutrition

Ph.D. in Nutrition

Faculty Details :

Name of the Teacher	Specialization
Dr. Manisha Maity	Microbial biotechnology, Enzyme Technology, Waste valorization
Ms. Paromita Mukherjee	Functional Food Product Development
Dr. Souvik Tewari	Probiotics & Functional Food Product Development
Dr. Rupali Dhara Mitra	Nutraceuticals, Food product development, Food product analysis, Chromatography, Biostatistics, Structured lipid, Biopolymer
Ms. Ishani Ganguly	Technology of spice, Product analysis
Ms. Arpita Benerjee	Food Product Development

External Members on the Board of Studies:

Dr. Pubali Dhar	Department of Home Science	University of Calcutta
Dr. Anindita Ray Chakravarty	Assistant Professor and HOD , Department of Food and Nutrition	Maharani Kasiswari College, University of Calcutta

Publications Details (Conference / Patent / Research Papers)

Patent

Somsubhra Gupta, Manisha Maity, Mainak Sur, Titlee Majumder, Alok Roy and Paromita Das. Title: Interactive technology –driven Low cost Virtual Learning device NOODLE for equity to address digital divide Number: 202331012519A , Publication date: 10.03.2023 , Position: 2nd

Nakhale, S., Rao, S.J., Tewari, S., Khan F.M. and Puthilibai, G. (2023). A process for high protein nutritious baked snack food. Indian patent Application no.: 202321003299 A Date of Filing: 17/01/2023, Date of Publication: 10/02/2023.

Research Papers :

Feroz, F., Sarkar, A., Afreen, A., Mukherjee, M., Paul, T., Chakraborty, S., Tewari, S & Maity, M. (2023). Illuminating 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: A REVIEW. Journal of Survey in Fisheries Sciences, 10(1S), 6195-6203.

Bedi, S., Maity, M., Bandhopadhyay, 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.

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.

Manisha Maity, D. K. Bhattacharyya and Jayati Bhowal (2023), Improvement of β -galactosidase production by solid state fermentation using cauliflower (*Brassica oleracea* var. botrytis) waste by *Enterobacter aerogenes* KCTC2190, Research Journal of Biotechnology, 18 (3), 18-23

Maity, M., Majumdar, S., Bhattacharyya, D. K., Bhowal, J., Das, A., & Barui, A. (2022). Evaluation of Prebiotic Properties of Galactooligosaccharides Produced by Transgalactosylation Using Partially Purified β -Galactosidase from *Enterobacter aerogenes*

KCTC2190. Applied Biochemistry and Biotechnology, <https://doi.org/10.1007/s12010-022-04073-6>

Uppal, A., Kanjilal, A., Nath, M., Das, T., Mondal, S., & Ghosal, S. (2023). A Review of Recent Advances in Plant-Based Meat Processing. *Journal of Survey in Fisheries Sciences*, 10(1S), 6146-6153.

Mandal, S., & Ghosal, S. (2023). CAVIAR THE GOLD IN YOUR SPOON. *Journal of Survey in Fisheries Sciences*, 10(1S), 6180-6187.

Mukherjee, P., Mondal, I., Dey, D., Dan, E., Khatun, F., & Tewari, S. (2023). An Overview on Microbial Enzymes and their Industrial Applications. *Journal of Survey in Fisheries Sciences*, 10(1S), 6154-6160.

Uppal, A., Roy, P., Tewari, S., Mukherjee, P. (2023). Sorghum (*Sorghum bicolor* L.) phytochemicals and their potential impact' on 'Nutritional and health-enhancing qualities', Seminar on Millets- Future super food of India, 39-40, ISBN: 978-81-956407-2-0.

Pattanayak, A., Manna, E., Mukherjee, P., Roy, P.R. and Nakhale, S. (2022) Overview on Anorexia Nervosa: An eating disorder. *International Journal for Modern Trends in Science and Technology*, 8(06), 263-266

Chowdhury, S., Tewari, S., Mukherjee, P., Pattanayak, A. (2022) A short review on medicinal value of Indian blackberry (*Syzygium cumini* L.). *International Journal of Food Science and Nutrition*, 7(03), 158-161

Tewari, S., Pattanayak, A., Zanwar, S., Vaishnav, S. (2023). Physico-chemical analysis of newly prepared prebiotic chocolates by using Galacto Oligosaccharides (GOS), *Journal of Survey in Fisheries Sciences*, 10 (4S), 1752-1763.

Feroz, F., Sarkar, A., Afreen, A., Mukherjee, M., Paul, T., Chakraborty, S., Tewari, S., Maity, M. (2023). Illuminating focus on the health benefits of fermented foods against cancer. *Journal of Survey in Fisheries Sciences*, 10(1S):6188-6194.

Uppal, A., Roy, P., Tewari, S., Mukherjee, P. (2023). Sorghum (*Sorghum bicolor* L.) phytochemicals and their potential impact' on 'Nutritional and health-enhancing qualities', Seminar on Millets- Future super food of India, 39-40, ISBN: 978-81-956407-2-0.

Pramanik, P., Tewari, S. (2023). Pearl millet (*Pennisetum glaucum* L.)' on 'Nutritional and health-enhancing qualities', Seminar on Millets- Future super food of India, 13-18, ISBN: 978-81-956407-2-0.

Mukherjee, P., Mondal, I., Dey, D., Dan, E., Khatun, F., Tewari, S. (2023). An Overview on Microbial Enzymes and their Industrial Applications. *Journal of Survey in Fisheries Sciences*, 10(1S):6154-6160.

Ganguly, I., Mondal, E., Majumdar, S., Ghosh, S., Tewari, S. (2023). Effects of Malnourishment on the immune system: a short review. *Journal of Survey in Fisheries Sciences*, 10(1S):6111-6117.

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.

Pramanik, P., Tewari, S., Mukherjee, P., Banka, R., Sen, S. (2023). Indian traditional plants: medicinal properties and Human health. *Journal of Survey in Fisheries Sciences*, 10(1S):6170-6179.

Madan, S. G., Singh, A.K., Shukla, R. N., Masih, H., & Tewari, S. (2022). Physico-Chemical Properties of Different Corn (*Zea Mays*) Varieties, *Int J Food Nutr Sci*; 11(3): 557-564.

Tewari S, Vaishnav S, Biswas S, Khalua RK, Chakraborty R, Chakraborty A. (2022). Fish Liver Oil: Omega-3 Fatty Acid and Human Health. *Uttar Pradesh Journal of Zoology*, 43(24), 307-310.

Barik, M., Chowdhury, S., & Tewari, S. (2022). Preventive and therapeutic role of functional foods: a review. *Int J Food Nutr Sci*; 11(7): 361-371.

Tewari, S., Chakravarti, A.R., & Nakhale, S. (2022). Probiotics and gastrointestinal health: mechanism of gastrointestinal immunomodulation and neuromodulation. *Int J Food Nutr Sci*; 11(6):201-209. 10.4103/ijfans_200_22.

Tewari, S, Samanta, C. and Agarwal, R. (2022). Coronavirus: Role of zinc as an immune booster, *The Pharma Innovation*, 11 (01): 905-908.

Chandrakant, K.R., Pattanayak, A., Tewari, S. (2022). Physico-chemical analysis of cookies by using chia seeds (*Salvia hispanica* L.). *International Journal of Food Science and Nutrition*, 7 (4): 32-36

Maske Sachin V, Dr. John David and Tewari, S. (2022). Studies on development and cost evaluation of shrikhandwadi prepared from goat milk chakka, Banana pulp, papaya pulp with ashwagandha powder. *The Pharma Innovation Journal*; 11(10S): 117-121.

Maske Sachin V, David, J., Tewari, S. (2022). Quality evaluation of goat milk Shrikhandwadi enriched with papaya pulp, banana pulp and ashwagandha powder. *International Journal of Food Science and Nutrition*, Volume 7, Issue 4, Pages 3-7

Bhattacharjee, S., Das, S., Ghosh, S., Maity, D., Saha, P., Roy, S., & Mitra, R. D. (2023). Regulation of uncontrolled cell growth (cancer) by curcumin and piperine-A Review. *Journal of Survey in Fisheries Sciences*, 10(1S), 6104-6110.

Ganguly, I., Mondal, E., Majumdar, S., Ghosh, S., & Tewari, S. (2023). Effects of Malnourishment on the immune system: a short review. *Journal of Survey in Fisheries Sciences*, 10(1S), 6111-6117.

Ganguly, I., Das, P., Ghosh, M., Chakraborty, S., Paul, D., Paul, P., & Tewari, S. (2023). Chia seed: a super food for human health. *Journal of Survey in Fisheries Sciences*, 10(1S), 6099-6103.

Singh, R., Agarwal, R. K., Tewari, S., & Ganguly, I. (2013). Probiotics: Mechanisms and Immunomodulatory Effects. *system*, 1, 8.

Conferences, Workshops, Seminars organized

One day seminar on “World Breast Feeding Week-2022” , Date: 05.08.2022

Inter-institutional Educational Skit Competition , Date: 02.09.22

Celebration of National Nutrition Month- 2022 on the theme of “Poshan Bhi Padhai Bhi” (An outreach program) , Date: 02.09.2022

Celebration of SVU health Week (Optimum Nutrafit) , Date: 24.11.2022

Free mega health camp arranged by Sumit School, Barrackpore, in collaboration with Swami Vivekanda University. , Date: 11.02.2023

International Conference on Agriculture, Life Sciences and Food and Nutrition 2023 (ICALF 2023) , Date: 27-28th February, 2023

6.9.Department of Psychology

Psychology is a scientific study of mental processes associated with the behaviour. As a human mind perceives and understands its stimuli, various factors contribute to converting them into behaviour. Psychology studies these factors and their impact to analyse how the person behaves in different circumstances.

An understanding of Psychology helps with in all success fields- be it in hiring the right people, resolving conflicts, selling, teaching children, even making movies. The Department of Psychology at SVU has designed its curriculum and pedagogy on the fundamental idea that "Understanding oneself is the first necessity to understand others". As we dwell deep into the inbuilt complexities of the human mind, we ensure that you are equipped with the tools and knowledge to study human behaviours, thought processes and their interpretations.

The Department of Psychology offer a completely professionally curated curriculum to brace yourself for a successful career in psychology, with internships, research programs, laboratory sessions, industry visits, tools such as psychometric analyses, and counseling sessions. We believe in experiential learning where you learn to understand yourselves, accept yourself, and further to analyze and understand others.

Courses Offered :

B.Sc.(H) in Psychology

M.Sc. in Applied Psychology

Ph.D. in Psychology

Faculty Details :

Name of the Teacher	Specialization
Dr. Nilanjana Mitra	Positive Psychology, Rehabilitation Psychology, Marginalized community & wellbeing
Dr. Papia Mukherjee	Positive Psychology, Social Psychology, Developmental Psychology, Stress Management
Ms. Lina Sarkar	SOCIAL PSYCHOLOGY, DEVELOPMENTAL PSYCHOLOGY, CLINICAL PSYCHOLOGY
Ms. Rudrani Mitra	Clinical Psychology, Abnormal Psychology, Counselling Psychology, Cognitive Psychology, Personality Psychology.
Ms. Madhurima Hazra	Marginalized community & wellbeing
Ms. Ishita Banerjee	Rehabilitation Psychology
Ms. Sharmishtha Chanda	Social Psychology
Ms. Mousumi Mayra	Abnormal Psychology

External Members on the Board of Studies:

Dr. Manisha Dasgupta	Head & Associate Professor, Department of Psychology	Calcutta University
Dr. Atanu Kr. Dogra	Department of Psychology	Calcutta University

Publications Details (Conference / Patent / Research Papers)

Conference Publication :

Presented paper entitled 'Parental Attitude Towards Inclusive Education: A comparative study' at International Conference on Literature, Media and Cultural studies: Symbiosis and Emerging trends ", 2023, organized by Swami Vivekananda University, Barrackpore.

Presented paper entitled 'A Curious Voyage into the world of Mystery and Fantasy: Literary work of Shirshendu Mukhopadhyay' at International Conference on Literature, Media and Cultural studies: Symbiosis and Emerging trends ", 2023, organized by Swami Vivekananda University, Barrackpore.

Presented paper entitled 'Impact of Social Networking On Academic Performance of the students in West Bengal' at International Conference on Literature, Media and Cultural studies: Symbiosis and Emerging trends ", 2023, organized by Swami Vivekananda University, Barrackpore.

Research Paper:

- Tewari, S., Sarkar, L., & Bhoi, S. R. (2021). Nutritional Psychiatry: Focuses on Improving Mental Health through Diet, 7 (12), 2455 3778.

6.10.Department of MLT & MRIT

The course of study enhances students knowledge and skills in several major categorical areas of Medical laboratory technology. The degree in MLT provides advanced skills to laboratory professional in health administration, leadership, quality assurance and health informatics. The course of study enhances students knowledge and skills in several major categorical areas of Medical laboratory technology. The degree in MLT provides advanced skills to laboratory professional in health administration, leadership, quality assurance and health informatics.

Radiology is a branch of medicine that uses radiation and imaging technology to diagnose and treat disease. It allows the radiologic technologist to produce images of various internal parts of the body, to aid in the detection of injury or disease by using radiations. Radiology is central to the clinical practice of medicine across a wide range of disciplines. It is the best practical way to diagnose, monitor treatment and detect progression or relapse of many important and common diseases in a minimally invasive and anatomically precise manner. As a consequence of the increasing sophistication and accuracy of clinical imaging, the

utilization and importance of radiology has increased dramatically and consistently over the last 20 years. In recent years, the increasing complexity of radiologic procedures has made Medical Radiology and Imaging technology a highly specialized and sophisticated science requiring competently trained personnel to maintain a high degree of accuracy in radiographic positioning and exposure technique. A qualified Medical Imaging Technologist is skilled in both interventional and Diagnostic Radiology.

Courses Offered:

B.Sc. in Medical Laboratory Technology

B.Sc. in Medical Radiology & Imaging Technology

Name of the Faculty Members	Research Area
Dr. Titlee Majumder (Modak)	Ergonomics, occupational safety, cognitive ergonomics, hematology, juvenile behavior analysis, psychosocial behavior analysis, endocrinology.
Dr. Rajen Dey	Basic neuroimmunology, Microglial response to infection, Cellular receptor modulation, Immunomodulatory drug interaction, Infectious disease model, Free radical biology and antioxidant system, Animal behaviour.
Mr. Manojit Bysack	Bacterial Microbiology: Macrophage
Mr. Subhranil Mukherjee	Radiographic Diagnostics

External Members on the Board of Studies:

Dr. Subrata Ghosh,	Associate Professor, Dept. of Physiology	Hooghly Mohsin College, Burdwan University, West Bengal.
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Dr. Subhashis Sahu	Associate Professor, Dept. of Physiology	Kalyani University, West Bengal.
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Publications Details (Conference / Patent / Research Papers)

Research Papers:

Anirban Pattanyak, Souvik Tiwari, Mainak Sur and Titlee Majumder*, "Malnutrition and immunity: A review", The Pharma Innovation Journal 2022, 11(5), (2491-2494)

Payel Kr. Roy, Anup Ghosal, Titlee Majumder and Swastika Pradhan, "Effect of Diet on human gut health: A review" International journal of Agriculture and food sciences, Vol. 5, Issue 1, Part B, 2023.

Book Chapter:

Tewari, S. Majumder, T. (2022), "Selenium: An overview, multidisciplinary review book", Taurean Delhi publication. ISBN: 978-93-91074-40-1

Patent:

Application No: 202331012519A, 10.03.2023, "Interactive technology driven low cost virtual learning device NOODLE for equity to address digital", G06Q 40/06 (International application number).Date of Publication 10.03.2023

Abstract proceedings published in:

Alok Roy, Paromita Das, Mainak Sur, Manisha Maity, Titlee Majumder, Somsubhra Gupta, "Technology driven cost friendly virtual learning device for inclusive education", ICLMC2023, Paper ID 66

Conferences, Workshops, Seminars organized

Organized departmental webinar at University Swami Vivekananda University on the topics namely; "Effect of Pandemic on Health care services" on 30th November 2022.

Organised a Departmental webinar on "The role of Pandemic commencing on different health status & lifestyles" on 17th December 2021.

Organized a Departmental workshop and seminar along with poster presentation competition on 27th April to 29th April 2022, entitled "Mental health and Stress Management", on behalf of Department of B.Sc in Medical laboratory technology (BMLT), School of Allied Health Sciences, Swami Vivekananda University.

Organized one day webinar on "Athletic Stress management- A team Approach" on 23rd April 2022 by Department of B.Sc in Medical laboratory technology (BMLT), School of Allied Health Sciences, Swami Vivekananda University.

Organized one day Seminar & Poster presentation on "World Radiology Day" on 9th of November 2022, at Swami Vivekananda University.

Organized one day Seminar & poster presentation on "Celebrating Physiology Friday" on

11th of November 2022 at Swami Vivekananda University.

Organized a “Blood Donation Camp” in collaboration with Lions Blood Bank Kolkata at Swami Vivekananda University on 21st November 2022, celebrated Health Week.

Organized a “Blood Donation Camp” in collaboration with Lions Blood Bank & National service scheme program Kolkata at Swami Vivekananda University on 8th May 2023, celebrated Health Week.

6.11.Department of Biotechnology & Microbiology

The Department of Biotechnology & Microbiology was established with the aim of offering quality higher education to the students in the field of Biotechnology & Microbiology and motivating them to reach the pinnacle of success. The Department presently offers course in accordance with the Choice Based Credit System (CBCS), which allows students to opt for subjects on the basis of their area of interest. Over the years, the department is working constantly to enhance and build young talents who can excel in research and different areas of life sciences. With the focus to provide an excellent environment for holistic development, the department is actively involved in organizing conferences, seminars, workshops, training and entrepreneurship programmes. The department coordinates guest talks by prominent resource persons and organizes field visits to Industrial and Research Institutes in order to benefit students with an exposure in research areas. Its pioneering curriculum with interdisciplinary areas focuses on practical training in environmental biotechnology, plant biotechnology, animal biotechnology, stem cell technology, molecular cell biology, immunology, recombinant technology, protein engineering, and bioinformatics.

Courses Offered :

B.Sc.(H) in Biotechnology

M.Sc. in Biotechnology

B.Sc.(H) in Microbiology

M.Sc. in Microbiology

Ph.D. in Biotechnology

Ph.D. in Microbiology

Faculty Details :

Name of the Teacher	Specialization
Dr Subhasis Sarkar	The Industrially important enzymes/ value added product generation from solid waste; Exploration of potential microorganism for waste remediation
Dr Pritha Pal	Oncology And Medical Biotechnology, Molecular Biology, Medical Microbiology, Toxicology, And Cytology
Dr. Aritri Laha	Agriculture Microbiology & Biotechnology
Dr. Pijush Mallick	Agriculture Biotechnology
Dr Semanti Ghosh	Protein structure function relationship, Computer- aided drug discovery, Molecular Dynamics study, Structural bioinformatics, Computational Biology.
Dr Bidisha Ghosh	Nano-Sensing, Nano-Ligand Interaction
Dr. Sibashish Bakshi	Bioenergy, Fermentation Technology
Dr Sabyasachi Ghosh	Environmental Nano Biotechnology
Dr. Mainak Mukhopadhyay	Enzymology

External Members on the Board of Studies:

Prof Nirmal Mandal	Department of Agril. Biotechnology , Faculty of Agriculture	Bidhan Chandra Krishi Viswavidhyalaya
Dr. Prajna Mandal	Associate Professor, Dept of Microbiology	APC College, New Barrackpore
Prof Rajib Bandyopadhyay	Department of Botany	University of Burdwan

Publications Details (Conference / Patent / Research Papers)

Journal Publication:

Pal, P., Halder, A. 2022. "A comparative study of arsenic exposure in humanpapilloma virus infection and oral squamous cell carcinoma- An alarminginterpretation". Contemporary Medical Biotechnology Research for HumanHealth: Vol. 1, pp: 65-72.

Pal, P., Sarkar, S. 2022. "Is there any impact of Human Papilloma Virus infectionin oral carcinoma?" Multidisciplinary Review Book. Taurean Publications, NewDelhi; ISBN- 978-93-91074-40-1.

Pal, P., Halder, A. 2021. "Arsenic in Ground Water: A Possible Impact on OralHealth". Acta Scientific Dental Sciences: Vol.- 6(1): 56-60, ISSN: 2581-4893.

Banik, R.D., Pal, P., Bakshi, S., Mandal, R.K., Das, B., Ghosh, S. (2023). Ecological safety study of biogenic mono and bimetallic (Au-Ag) alloy NPs. Journal of Mines, Metals & Fuels (Accepted).

Banik, R.D., Sahani, S., Roy, S., Saha, S., Bakshi, S., Pal, P. (2023). Impact of chronic arsenic toxicity on human health-A review. Journal of Survey in Fishery Sciences (Accepted).

Basak, T., Pal, P., Sarkar, S. Study of correlation of arsenic in fish flesh and occurrence of oral carcinoma in affected area of west Bengal (2022).Journal of Mines, Metals & Fuels. (Article in Press)

Banik, R.D., Pal, P., Bakshi, S. (2023). Green strategy for reclaiming ecosystem: Microbial remediation of leather industry wastes. Journal of Survey in Fishery Sciences (Accepted).

Pal, S., Ghosh, K., Ghorui, A., Pal, S., Mallick., M, Sengupta, S., Laha, A. (2023). Potential of plant growth promoting bacteria to alleviate chromium pollution. Journal of Survey in Fishery Sciences (Accepted).

Ghazal, U., Pal, P., Bakshi, S., HPV vaccination: a comprehensive approach to control cervical cancer. Journal of Survey in Fishery Sciences (Accepted).

A. Nabi, S. Gorai, P. Mondal, F. Pal, S. Ghosh and P. Pal, Effect Of Nitrate Contamination In Groundwater- A Worldwide Concern, (ICALF-2023).

S. Roy, A. Ghoshal, R. Panda, P. Pal, S. Ghosh, A review on bioinspired and green synthesis of silver nanoparticles with their antimicrobial activity, (ICALF-2023).

Bhattacharya, T., Ghosh, K., Laha, A., Pal, P. Study Of Acute Arsenic Toxicity On A Global Scenario. Journal of Survey in Fishery Sciences (Accepted).

Gharami, M., Chakraborty, S., Maira, S., Chatterjee, A., Pal, P. Impact Of Fluoride Toxicity- A Worldwide Threat. Journal of Survey in Fishery Sciences (Accepted).

Pal, P., Dutta, R., Baksi, S. Severity of Oral Carcinoma With Respect To Various Addictions- A Study In West Bengal. Journal of Survey in Fishery Sciences (Accepted).

Padhi, M., Mukherjee, M., Baksi, S., Pal, P. Study Of Extent Of Global Uranium Contamination In Groundwater. Journal of Survey in Fishery Sciences (Accepted).

Sarkar, Suranjana. "Mycoremediation-The promising thread between the present and future." International Journal of Chemical and Environmental Sciences 3.4 (2022): 34-45.

Sarkar, Suranjana, Neelanjan Bag, and Pijush Mallick. "Assessment of genome stability of pflFB hybrid generations through molecular DNA markers." International Journal of Advancement in Life Sciences Research 5.2 (2022): 30-36.

Cuminaldehyde exhibits potential antibiofilm activity against *Pseudomonas aeruginosa* involving reactive oxygen species (ROS) accumulation: a way forward towards sustainable biofilm management. (S Chatterjee, P Paul, P Chakraborty, S Das, RK Sarker, S Sarkar, A Das, 3 Biotech 11 (11), 1-12).

Bioaugmentation of *Enterobacter cloacae* AKS7 causes an enhanced degradation of low-density polyethylene (LDPE) in soil (2021): a promising approach for the sustainable management of LDPE waste. (RK Sarker, P Chakraborty, S Sarkar, MM Ghosh, P Tribedi, Archives of Microbiology 204 (1), 1-12).

Metabolic dynamics of soil microorganisms of the aquatic ecosystem is a key component for efficient sewage purification in single pond natural treatment wetlands at East Kolkata Wetland (2022). A Das Gupta, S Sarkar, J Singh, T Saha, AK Sil. Waste and Biomass Valorization, 1-14.

Analysis of deletion mutation in SMN 1 gene for spinal muscular atrophy in a tertiary care centre, Kolkata (2022). Sarnava Roy, Anindita Joardar, Dhrubajyoti Mridha, Atanu Biswas, Subhasis Sarkar. Journal of Mines, Metals & Fuels. (Article in Press).

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 (Accepted).

Nayak, S., Chakraborty, S., Roy, S., Roy, S., Ghosh, K., Ghorui, A., Sarkar, S., Ghosh, B., Ghosh,

S., Sarkar, S. The Role of Plant Hormone on Root Development, Journal of Survey in Fishery Sciences (Accepted).

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 (Accepted).

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 Nanoremediation &

Bioremediation: A Weal Against Conventional Chemical Techniques, Journal of Survey in Fishery Sciences (Accepted).

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 (Accepted).

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 (Accepted).

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 (Accepted).

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 (Accepted).

Dalalthakur, S., Singh, P., Singh, S., Sasmal, A., Deb, T., Karmakar, S., Dasgupta, T., Sarkar, S., Sarkar, S., Ghosh, B., Ghosh, S. Role of pathogenesis-related (PR) proteins in plant microbes defense mechanism, Journal of Survey in Fishery Sciences (Accepted).

Noor, S., Mondal, M., Singh, S., Sadhu, P., Chourasia, S., Patra, S., Ghosh, K., Pal, S., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B. Scavenging of Waste Water Using Oyster Mushrooms, Journal of Survey in Fishery Sciences (Accepted).

Saha, S., Devi, P., Das, S., Roy, S., Sing, P., Mitra, S., Banerjee, S., Mallick, J., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B. Study About the Absorption Pattern of Soil Chromium By Perennial Flowering Herbs, Journal of Survey in Fishery Sciences (Accepted).

Sharma, P., Das, S., Sadhu, P., Pal, S., Mitra, S., Ghoshal, A., Biswas, S., Roy, S., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. Therapeutic Role of Probiotics in Managing Various Diseases, Journal of Survey in Fishery Sciences (Accepted).

Ghoshal, A., Saha, P., Mallick, J., Sarkar, S., Chakraborty, M., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. Phytoremediation: A Way Forward Towards Heavy Metal Management, Journal of

Survey in Fishery Sciences (Accepted).

Dutta S, Bose D, Ghosh S, Chakrabarti A (2022) Spectrin: an alternate target for cytoskeletal drugs. Journal of Biomolecular Structure and Dynamics. DOI: 10.1080/07391102.2022.2109063.

Biswas, G. Ghosh S.*, Basu, S., Bhattacharya, D., Dutta, A.K., Banerjee R.* (2022) Can the Jigsaw Puzzle Model of Protein Folding Re-assemble a Hydrophobic Core? Proteins: Structure, function, Bioinformatics. DOI: 10.1002/prot.26321.

Samanta A, Ghosh S. (2023) Molecular insight of Q126P PINK1 mutation in Parkinson's disease. International Conference on Engineering Design and Computing (ICEDC) 2023 co-sponsored by IEEE Kolkata Section. Post Conference publication will be made in Scopus indexed international Journal of Mines metals and fuels. (Accepted in press).

Nahar M, Ghosh S. (2023) 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 co-sponsored by IEEE Kolkata Section. Post Conference publication will be made in Scopus indexed international Journal of Mines metals and fuels. (Accepted in press).

Ghosh S., Bagchi A. (2022). A short note on Computational biomolecular modelling and molecular docking. The Gen-Next Genomics Revolution. Bagchi P (Eds). ISBN: 978-81-952207-1-7 (online) ISBN: 978-81-952207-0-0 (print). Sarvasumanâ Association, India.

Samanta A, Ghosh S, Bagchi A. (2023) Protein – protein Interaction Mapping of Phospholipase. Phospholipases in Physiology & Pathology, V6: Stem cell, Nanotechnology, System Biology and Bioinformatics Approaches in therapy of phospholipases induced Diseases. Editor: Sajal Chakraborti. Hardcover ISBN: 9780323956871. Publisher: Elsevier. (Accepted in press).

Samanta A, Ghosh S. (2023) Protein – protein Interaction Mapping of Neurodegenerative Disease. Journal of Survey in Fishery Sciences (Accepted).

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 (Accepted).

Baksi, Sibashish., et al. Pretreatment of lignocellulosic biomass: review of various physicochemical and biological methods influencing the extent of biomass depolymerization. International Journal of Environmental Science and Technology (2023): 1 28.

Baksi, Sibashish, et al. Conversion of biomass to biofuels through sugar platform: A review of enzymatic hydrolysis highlighting the trade-off between product and substrate inhibitions. Sustainable Energy Technologies and Assessments 55 (2023): 102963.

Dey, N., Baksi, S., Bandyopadhyay, B., Single-Run method for Antibiotics in Honey through UPLC-MS/MS. International Conference on Engineering Design and Computing (ICEDC) 2023 co-sponsored by IEEE Kolkata Section. Post Conference publication will be made in

Scopus indexed international Journal of Mines metals and fuels. (Accepted in press).

Routh, R., Guin, A., Baksi, S., Phytoremediation of heavy metals: mechanisms of decontamination and enhancements. Journal of Survey in Fishery Sciences (Accepted).

Ganguly, K., Dey, L., Baksi, s., Mycoremediation: Role of Mushroom in the bioremediation of heavy metals. Journal of Survey in Fishery Sciences (Accepted).

R. K. Mandal, S. Ghosh, T. P. Majumder, Comparative study between degradation of dyes (MB, MO) in monotonous and binary solution employing synthesized bimetallic (Fe-CdO) NPs having antioxidant property, Results in Chemistry, 2023, 5, 100788.

R.K. Mandal, A.S. Mondal, S. Ghosh, A. Halder, T.P. Majumder, Synthesis, characterisation and optical studies of CdO-NiO NCs for comparative dye degradation study between two hazardous dyes Congo red and Rose Bengal, Results in Chemistry, 2023, 5, 100810.

S. Ghosh, et al., Plant-mediated synthesis of mono and bimetallic (Au-Ag) nanoparticles: future prospects for food quality and safety, Journal of Nanomaterials, 2023, (Just Accepted). (IF: 3.791).

C. K. de Souza, S. Roy, S. Ghosh, Valorization of Agro-waste Derived Materials for Food Packaging Application (Book Chapter), 2023, (Submitted).

R.D. Banik, P. Pal, S. Baksi, B.Das, R.K. Mandal, S. Ghosh, Ecological Safety Study Of Biogenic Mono And Bimetallic (Au-Ag) Alloy NPs, (ICEDC-2023).

D. Banerjee, S. Saha, N. Paul, D. Desh, S. Ghosh, A review on Phyto-mediated Gold nanoparticles for efficient dye degradation, (ICALF-2023).

Ghorui, A., Pal S., Pal, S., Ghosh, K., Dutta, U., Dey, S., B., Das, D., Pal P., Laha, A. (2023). Cadmium (Cd) Resistant Bacteria. Journal of Survey in Fishery Sciences (Accepted).

Pal, S., Ghosh, K., Ghorui, A., Pal, S., Mallick., M, Sengupta, S., Laha, A. (2023). Potential of plant growth promoting bacteria to alleviate chromium pollution. Journal of Survey in Fishery Sciences (Accepted).

Book chapter

Pal, P., Sarkar, S. 2022. "Is there any impact of Human Papilloma Virus infection in oral carcinoma?" Multidisciplinary Review Book. Taurean Publications, New Delhi; ISBN- 978-93-91074-40-1.

Pal, P., Sarkar, S. 2022. "Probiotics are highly effective against Viral Infections: Towards illustrating the contributions of probiotics in combating with the viral pathogen" Multidisciplinary Review Book. Taurean Publications, New Delhi; ISBN- 978-93-91074-40-1

Ghosh S., Bagchi A. (2022) An Overview of Computational Tools And Databases. Multidisciplinary Review Book. Mallick P, Chakravarti A R, Tewari S. (Eds) ISBN: 978-93-91074-40-1. Taurean Publications. New Delhi.

Baksi, S. Bio preservation: New Strategies Towards Healthier Foods. In Multidisciplinary

Review Book (pp 23-37). Taurean Publications (2022). ISBN :978-93-91074-40-1.

Recycling of Waste Water through Natural Filtration Techniques: Possibilities and Challenges: Ghosh, B. et al. Multidisciplinary Review Book, Taurean Publications, New Delhi.

Patent:

Patent Published: Systematic Approach to Study the Impact of Bacteriophage Cocktail as Antibacterial Agents in Crop Protection (Application No. 202311001233 A) [Patent]

Conference/Seminar/Workshop Organized by :

Leadership Paradox The Cricketing Way: Speaker: Mr. Sandeep Ganguly Mentor & Cricket Coach , 22/01/2022

Celebration of World Leprosy Day: Speaker: Dr. Satarupa Mandol, SR of Dermatology, RG Kar Medical College & Hospital , 30/01/2022

Youth Entrepreneurship: Myth or Reality: Speaker: Mr. Arnab Chakraborty an Investment Banker , 04/02/2022

Two-Days National Workshop on Waste Management, organized by Department of Microbiology, School of Life Sciences, Swami Vivekananda University: Speaker: Dr. [Tapti Sengupta](#), West Bengal State University , 22-23 February, 2022

3-Days National Workshop On "ORAL ONCOLOGY AWARENESS: Speaker: Dr. Ranjan Raychowdhury, Consultant, Head & Neck Surgeon, Oxford University Hospitals, UK. Organized by Department of Microbiology, School of Life Sciences, Swami Vivekananda University , 15-17 March 2022

3-Days National Workshop On "Immunomodulation in connection to tumour microenvironment" Speaker: Dr. Kuntal Kanti Goswami, Assistant Professor, Ashutosh College, Kolkata Organized by Dept. of Biotechnology, School of Life Sciences, Swami Vivekananda University

National Workshop on "Delivery Systems for Biological Molecules": Speaker: Dr. Ruchira Mukherjee, Professor, Department of Basic Science, IEM Kolkata.Organized by Department of Microbiology, School of Life Sciences, Swami Vivekananda University , 26/04/2022

National Conference on Technological Interventions in Life Sciences, Food, Agriculture, & Allied Health Sciences- A Paradigm Shift Towards Better Future. 19-24 May, 2022

A Career in Biotechnology & Microbiology- Counselling Meet , 29/05/2022

Faculty Development Program"Organized by School of Life Sciences, SVU , 22-30 June, 2022

WORLD BIOFUEL DAY CELEBRATION , School of Life Sciences and IIC , Swami Vivekananda University , Guest speaker: Dr. Saswati Bhattacharya, Assistant Professor, Department of Botany, APJ Abdul Kalam Govt. College, New Town , 10/08/2022

Celebration of "World Water Conservation Week - August 2022" Organized by the School of Life Sciences and IIC. Speaker: Dr. Manoj Kumar Tiwari, School of Water Resources, IIT Kharagpur , 26/08/2022

National Cancer Awareness Day". We invited Dr. Arunima Biswas, Department of Zoology, University of Kalyani for a special lecture on cancer awareness , Organized by School of Life

Sciences

Expert Lecture by Prof. (Dr.) Suman Kumar Dey, Professor of Special Centre for Molecular Medicine of Jawaharlal Nehru University, India , 09/01/2023

International Conference on Agriculture, Life Sciences and Food & Nutrition (ICALF 2023) , 27/02/2023-28/02/2023

Expert Lecture by Dr. Subhra Chakraborty, Director of the National Institute of Plant Genome Research, India , 18/03/2023

Expert Lecture by Prof. Prasanta Kumar Panigrahi, Director of IISER. , 24/03/2023

FDP on the topic entitled 'Understanding Technological Innovations on Modern Biotechnology organized by School of Life Sciences. Speaker: Prof Santasree Banerjee, Principal Investigator/Research Director Rare Disease/Cancer Genetics/ Molecular Diagnostics, BGI-Research Institute, Schenzhen, Chaina , 18/05/2023

6.12.Department of Agriculture

The progression of agriculture has contributed to the growth of human development. Earlier a farmer could produce sufficient food only for his family but with the advancement of various irrigation methods, electricity assistance, machinery, genetically modified organisms and other modern technologies, today farmers can grow agricultural products for more than 50 families. To guarantee the perpetuation of agriculture, the country has had a high demand for qualified professionals along with modern scientific equipment and technology. Swami Vivekananda University provides a four-year B.Sc. honours degree in Agriculture & four-year B.Tech degree with the sole purpose to produce graduate students who have the competence to improve the agricultural sector and enhance productivity. The academic curriculum focuses on the principles of biology, science and technology. In addition to this, subjects like agronomy, plant genetics, soil science, agriculture engineering and horticulture make the basic framework of this program. In view of globalization and development of new technologies, the expert faculties ensure that the students meet international quality standards to always stay ahead of the learning curve. So, take the first step towards a vibrant journey in Agriculture.

Courses Offered :

B.Sc.(H) in Agriculture

B.Tech in Agriculture

Faculty Details :

Name of the Teacher	Specialization
Sudip Sengupta	Agricultural Chemistry, Soil Science, Arsenic, Water Management, Environmental Science, Soil pollution and contamination, Soil Chemistry, Soil Fertility and Nutrient dynamics, Soil physics
Suprabuddha Kundu	Plant tissue culture, Genetic engineering, Germplasm conservation, Secondary metabolites, Molecular markers, Mushroom technology
Parijat Bhattacharya	Agricultural Chemistry, Soil Science, Soil Chemistry, Soil Fertility & Nutrient dynamics, Soil pollution & contamination, Environmental Science
Rakesh Das	Germplasm Conservatio
Tanmoy Majhi	Surface water modelling, Flood routing, Sediment yield modelling, Soil conservation, Remote sensing, Drip and sprinkler irrigation, Watershed management, Water harvesting
Arpan Dey	modelling, Agroclimatic zones
Avishek Chatterjee	Agronomy, Conservation Agriculture, Bio-stimulants, Crop rotation, Rice based cropping system
Jayita Hore	Soil Chemistry, Soil Fertility and Nutrient dynamics, Soil physics
Achintya Kumar Pal	Crop rotation, Rice based cropping system

Puran Pokhrel	Plant Pathology, Plant Virology, Molecular Biology, Virus Transmission Biology, Virus-Vector Interaction Dynamics, Molecular Diagnostics, 3D viral protein modeling
Aniket Baishya	Agronomy, Conservation Agriculture, Bio-stimulants, Crop rotation, Rice based cropping system
Sukhram Thapa	Agronomy, Conservation Agriculture, Bio-stimulants, Crop rotation, Rice based cropping system
Sahely Kanthal	Plant Pathology, Plant Virology, Molecular Biology, Virus Transmission Biology, Virus-Vector Interaction Dynamics, Molecular Diagnostics, 3D viral protein modeling
Sujosh Nandi	Agricultural Meteorology, Climate change, Climate
Naznin Khatun	Soil Chemistry, Soil Fertility and Nutrient dynamics, Soil physics
Pranay Sarkar	Agricultural Meteorology, Climate change, Climate

External Members on the Board of Studies:

Prof. Champak Kumar Kundu	Bidhan Chandra Krishi Viswavidyalaya
Prof. Subrata Karmakar	Bidhan Chandra Krishi Viswavidyalaya
Prof. Susanta Kumar Pal	Bidhan Chandra Krishi Viswavidyalaya
Prof. Nirmal Mandal	Bidhan Chandra Krishi Viswavidyalaya
Dr. Arnab Roy	Mizoram Univ.

Publications Details (Conference / Patent / Research Papers)

Patra, S. K., & Sengupta, S. (2022). Effect of gravity-fed drip irrigation and nitrogen management on flowering quality, yield, water and nutrient dynamics of gladiolus in an Indian inceptisol. *Journal of Plant Nutrition*, 1-19.

Sengupta, S., Dasgupta, S., Bhattacharyya, K., Chakraborty, S., & Dey, P. (2022). A Pandemic Resilient Framework for Sustainable Soil Health and Food Security: Response beyond COVID-19. In *Innovation in Small-Farm Agriculture* (pp. 53-62). CRC Press.

Sarkar, T. and Sarkar, S.K. (2022) Pollination Characteristics and inter-varietal hybridization of *Psidium guajava*. *J. Crop and Weed*, 18(1): 01-08.

Sengupta, S., Bhattacharyya, K., Mandal, J., & Chattopadhyay, A.P. (2022). Complexation, retention and release pattern of arsenic from humic/fulvic acid extracted from zinc and iron enriched vermicompost. *Journal of Environmental Management*, 318, 115531.

Patra, S.K., Poddar, R., Brestic, M., Acharjee, P.U., Bhattacharya, P., Sengupta, S., Pal, P., Bam, N., Biswas, B., Barek, V., Ondrisik, P., Skalicky, M., & Hossain, A. (2022). Prospects of

Hydrogels in Agriculture for Enhancing Crop and Water Productivity under Water Deficit Condition. *International Journal of Polymer Science*, 2022, 4914836.

Panda R., Patra, S.K. & Sengupta, S. (2022) Assessment of the Potassium Supplying Capacity of Coastal Entisols and Inceptisols under Intensive Cropping and Fertilization, *Communications in Soil Science and Plant Analysis*, 1-14. DOI: 10.1080/00103624.2022.2094943

Laha, A., Sengupta, S., Bhattacharya, P., Mandal, J., Bhattacharyya, S., Bhattacharyya, K. (2022) Recent advances in the bioremediation of arsenic-contaminated soils: a mini review. *World Journal of Microbiology and Biotechnology* 38, 189.

Das, S., Sengupta, S., Patra, P.K., Acharjee, P.U., & Pal, S.K. (2022). Appraisal of environmental, ecological and carcinogenic risk due to heavy metals in a sewage and solid waste contaminated area, *Soil and Sediment Contamination: An International Journal*, 1-25.

Mondal, T., Sarkar, T., Alam, M., Sarkar, S. K., Rathod, K. H. and Bauri, F. K. (2023). Effect of foliar application of micronutrients on plant growth, yield and fruit quality of Thai guava (*Psidium guajava* L.). *J. Crop and Weed*, 19(1): 88-94.

Thapa, S., Mahapatra, S., Baral, D., Chatterjee, A., Shivakoty, P., Subba, B., & Das, S. (2023). Morpho-molecular variability of different isolates of *Ustilagoideae virens* causing false smut of rice. *Archives of Phytopathology and Plant Protection*, 1-14.

Banerjee, P., Bhattacharya, P., Bera, A., & Hossain, A. (2023). Plant Growth-Promoting Rhizobacteria (PGPR): An Indispensable Tool for Climate-Resilient Crop Production. In *Microbial Symbionts and Plant Health: Trends and Applications for Changing Climate* (pp. 209-231). Singapore: Springer Nature Singapore.

Patra, S. K., Sengupta, S., Poddar, R., & Bhattacharyya, K. (2022). Improving the growth, yield, and quality of ginger (*Zingiber officinale* Rosc.) through irrigation and nutrient management: a study from an Inceptisol of India. *Water SA*, 48(4), 487-498.

Nayak, P. P., Nandi, S., Bhunia, K., & Datta, A. K. (2022). Modelling the extraction process parameters of amorphous silica-rich rice husk ash using hybrid RSM– BPANN– MOGA optimization technique. *Materials Chemistry and Physics*, 293, 126944.

Banerjee, P., Bhattacharya, P., Kumari, V. V., Bera, A., & Nath, R. (2023). Modification in bio-physical properties of spring-summer black gram [*Vigna mungo* (L.) Hepper] through optimization of sowing dates and nutrient management towards production sustainability. *Field Crops Research*, 291, 108767.

Sengupta, S., Roychowdhury, T., Phonglosa, A., & Mandal, J. (2022). Arsenic Contamination in Rice and the Possible Mitigation Options. In *Global Arsenic Hazard* (pp. 35-48). Springer, Cham

Mandal, J., Jain, V., Sengupta, S., Rahman, M.A., Bhattacharyya, K., Rahman, M.M., Golui, D., Wood, M.D. and Mondal, D. (2023). Determination of bioavailable arsenic threshold and validation of modelled permissible total arsenic in paddy soil using machine learning. *J. Env. Quality*. 52(2):315-327.

T. Sarkar and S.K. Sarkar. 2022. Genetic diversity analysis of guava (*Psidium guajava*) genotypes in west Bengal, India. *J. applied Hort.* 24 (3).

Das R, Layek A & Kunal G. (2023). Ecosystem Diversity with Ecological Management for Insect Pollinators' Sustainability: A need of the hour. *Recent Advances in Agricultural Entomology (Vol-1)*. SR edu publication.

Patra, S. K., Sengupta, S., Das, S. S., & Mazumdar, D. (2023). Remediation of Lead Toxicity Using Phosphorus in Lead-Contaminated Agricultural Soils. *CLEAN–Soil, Air, Water*, 2200309

Patra, S. K., Sengupta, S., Bhattacharya, P., & Bhattacharyya, K. (2023). Enhancing yield of lettuce through irrigation and nitrogen management in a subtropical Inceptisol. *Israel Journal of Plant Sciences*, 1(aop), 1-15.

Chatterjee, A., Hazra, S., Sen, P., Gorai, S., Bhattacharya, S., Gupta, V., Singh, G., Singh, G.P., Maji, A., 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 (Accepted)*

Conferences, Workshops, Seminars organized

Webinar on Sugarcane: A bio-refinery complex for product diversification sustainability issues , Date: 29th January, 2022

Webinar on The role of proteomics in understanding the molecular mechanisms related to stress tolerance in crop plants , Date: 19th February, 2022

TALK ON : AGRICULTURE: BACKBONE OF SOCIETY AND ECONOMY , Date: 23th April, 2022

National Conference on “Technological Interventions in Life Sciences, Food, Agriculture & Allied Health Sciences – A Paradigm Shift towards a Better Future” , Date: 19-24th May, 2022

Webinar on UPSC Civils and Forest Services Exam Guidance. , Date: 3rd September, 2022

International Conference on Technological Innovation in Agriculture, Life science and Food & Nutrition , Date: 27-28th Feb, 2023

Department of Journalism & Mass Communication

The fascination with journalism is here to stay. Keeping in mind the absolute essential of ethics and ethical journalism in print and broadcast outlets, the Department of Journalism and Mass communication shapes students with the zest to be journalists of tomorrow. Exposure to print, visual, Public Relations, and New Media is significant under the guidance of highly qualified and experienced faculty. Our students also focus on research in the final semesters, and many universities abroad are keen to absorb our students. Our students have also continued their higher education and graduated from Leeds University, Oklahoma University, etc. The Department also provides opportunities for students to work on an internship in various fields of Print, Electronic, and Online media. Students are guided by expert faculty during their specialized research projects.

Courses Offered :

B.A.(H) in Journalism & Mass Communication

M.A. in Journalism & Mass Communication

Ph.D. in Journalism & Mass Communication

Faculty Details :

Name of the Teacher	Specialization
Ms. Kankana Ghosh	Corporate /organisational Communication.
Ms. Dipika Mondal	New media and Global communication.
Ms. Ipsita Banerjee	Advertising, Media Management
Dr. Mahendra Jena	Public Relations, Political Communication
Mr. Sandipan Dey	Traditional media, Advertising
Ms. Pritha Misra	Health Communication, Development Communication
Ms. Monisha Shaw	Health Communication
Ms. Olivia Ghosh	Non-Fiction Entertainment, Sports Broadcasting
Ms. Sukanya Das	Advertising, Media Management

External Members on the Board of Studies:

Dr. Jatin Srivastava	Professor, Director	Institute for International Journalism (IIJ)
Dr. Santwan Chattopadhyay	Professor in Journalism and Mass Communication, Department of Adult, Continuing Education and Extension, Coordinator-Mass Communication,	Jadavpur University
Dr. Mausumi Bhattacharyya	Associate Professor and Head	Centre for Journalism and Mass Communication, Visva – Bharati.

Mr. Snehasis Sur	Former Dy. Director General	Doordarshan
Mr. Krishna Kumar Das	Chief of News Bureau	Sangbad Pratidin, Kolkata

Conferences, Workshops, Seminars organized

One Day Photography Workshop , 23.02.2023

National Seminar on Print, Culture, and Society: Interdependence and Emerging Trends , Date: 29th and 30th April, 2022

6.14.Department of English

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.

Courses Offered :

B.A.(H) in English

M.A. in English

Ph.D. in English

Faculty Details :

Name of the Teacher	Specialization
Ms. Rituparna Chakranorty	Postcolonial Studies, Gender Studies, Tagore Studies
Ms. Natasha Chatterjee	Postcolonial studies, Feminist Literature, Indian English Literature
Dr. Tirna Sadhu	Postcolonial Literature, Early Modern British Literature, Diaspora Studies, Dalit Studies, Partition Studies, Transgender Studies.
Dr. Manish Prasad	Tagore Studies, 19th Century Bengali Literature
Dr. Priyanka Dey	Critical Prison Studies, Genocide Studies, South Asian Literature, Phenomenology
Dr. Micah K Thambi	Postcolonial Literature, Early Modern British Literature, Diaspora Studies, Dalit Studies, Partition Studies, Transgender Studies.
Ms. Sonakshi Mukherjee	Cognitive Literary Studies, Narratology, Philosophy of Mind, Contemporary Literary Theory, Interface between AI and Literature
Mr. Debashis Roy	Gothic Literature, South and Southeast Asian Literature, Postcolonial Literature, Horror Literature and Cinema

External Members on the Board of Studies:

Dr. Sohel Aziz	Aliah University
Dr. Monisha Sarkar	East Calcutta Girls' College
Dr. Shubh Brat Sarkar	Rishi Bankim Chandra College

Publications Details (Conference / Patent / Research Papers)

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, 22nd 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 Human Health**

Author - Rituparna Chakraborty , Name of the journal - *International Journal of Research in English* , Title of the paper - Race, gender and religion : **A postcolonial reading of Kipling's The Light that Failed and Kim**

Published a paper titled "A Journey through Homes: Relooking the looking glasses of Geographical Partition", Debashis Roy, Journal of Digital Arts & Humanities, Vol.3(1), 2022, ISSN: 2712-8148 (https://doi.org/10.33847/2712-8148.3.1_2)

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 Delhi and

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

Conferences, Workshops, Seminars organized

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 Emerging Trends , Date: 29th and 30th April, 2022

6.15.Department of Management Studies:

The Department of Management Studies at aims to deliver competency based management and technology education with inter & multidisciplinary approach adopting global educational practices with emphasis on development of critical, analytical and problem solving abilities in its graduates and associates with a passion for lifelong learning and independent thinking. The Faculty would equally emphasize on creation of new knowledge in management and technology areas through research and also provide management and technology services to cater to the needs of the corporate and society.

Courses Offered :

B.B.A

M.B.A

B.H.M

M.H.A

Faculty Details:

Name of the Teacher	Specialization
Dr. Anirban Hazra	Microeconomics, econometrics, development economics
Prof. (Dr.) Kallal Banerjee	International Business, Unorganized Sector, E Waste Management, Trade Analytics
Mr. Neelanjan Mitra	Bank Merger, Acquisitions & Reforms, Retail Banking, Digital & Cashless Banking, Job Satisfaction, Consumer Behaviour, Social Impact of COVID - 19
Mr. Sourav Chatterjee	Consumer Purchasing Behaviour
Shafique Ahmed	Financial Market Connectivity
Sucharita Debnath	Trade Analytics
Mantosh Sharma	E Waste Management
Shivani Hazra	Behavioural Finance, Marketing Management, Strategic Planning, Financial Management
Ananda Mohan Paul	International Business, Unorganized Sector, E Waste Management, Trade Analytics
Bhaskar Karmakar	Financial Inclusion, Women Empowerment, Urbanisation, Sustainable Development
Moumita Saha	Microfinance, Entrepreneurship, Financial inclusion
Gargi Ghosh	Hospitality Management & Operations, Service Quality & Customer Experience, Cultural and Diversity Management, Crisis Management in Hospitality, Job Satisfaction
ARPITA DAS	Behavioural Finance, Marketing Management, Strategic Planning, Financial Management
Anshuman Das	Social Sector, Econometrics
MS. KASTURI GHOSH	Digital Marketing, Product Innovation, Healthcare Marketing
Dr. Tushar Kanti Dey	Marketing Research, Brand Management, Retail Management, Marketing Communication, Consumer Behaviour, Service Marketing, Human Psychology
BIKRAM PRASAD	Microfinance, Entrepreneurship, Financial inclusion
Moupiya Bose	Employee Well-Being & Organizational Growth, Cashless Systems, Societal Perception
Moumita Aich Som	Microfinance, Entrepreneurship, Financial inclusion
Dr Shantanu Chakraborty	Digital Marketing, Product Innovation, Healthcare Marketing

External Members on the Board of Studies:

Prof. (Dr.) Kaushik Kundu	Dept. of Management and Business Administration, Aliah University, New Town, Kolkata
Prof. (Dr.) Arup Kumar Baksi	Dept. of Management and Business Administration, Aliah University, New Town, Kolkata
Dr. Dev Narayan Sarkar	Director, PepsiCo East and Exports, PepsiCo Limited,

Publications Details (Conference / Patent / Research Papers)

Journal Publication

Kumar, K., Ahmed, S., Sur, S., Puli, J., Gupta, N. A study on the perception of rural MSME towards the adoption of Innovation. Journal of Statistics & Management Systems, Volume 26 No. 2, page 351-377

Ahmed, S., Sur, S., Khushwah, S.V. (2021) Indian Rural MSMEs and their perception towards innovation and creativity in uplifting their business. Acta Universitatis Bohemiae Meridionalis, Vol 24, ISSN 2336-429

Banerjee, K., (2022), Dedicated Freight Corridor (DFC) a Game Changer for The Indian Economy-An analytical study, Economics research network: Professional and practitioner papers Institutional and Transition Economics policy paper series. Vol 14 No 19.

Banerjee, K., (2022), Impact of Third Sector for countries Socio-Economic development particularly for PACS: A study with reference to West Bengal Journal of Electronics Information Technology Science and Management, Volume 12, Issue 7, 2022, pp 54- 75

Chatterjee, S., Banerjee, K., Theoretical Framework for Social Media Marketing, Education, Research and Analysis. Kalyani Foundation for Media Science and Community Research. Volume 9, Issue 2, 2022

Banerjee, K., (2022), Socioeconomic Benefits of Dedicated Freight Corridor: An Analytical Study. The IUP Journal of Supply Chain Management. Volume 19, No 2

Banerjee, K., (2022), FDI flow in Energy Sector among BCIM, BIMSTEC+1 and ASEAN+4 sub-regional alignments. Journal of Environmental Science and Economics. Vol 1 No 3

Banerjee, K., (2022), Assessment of Trade Scenario Among IBSA Member Countries and Way Forward. Journal of International Economics. Volume 13, No 1, January-June 2022 pp: 20-64

Biswas, J., Banerjee, K., (2023) Training and Development Programs in Indian Commercial Banks: Current Status and Implications. Innovation the Research Concept. VOL.- VIII, ISSUE- 2

Debnath, K.C., Banerjee, K., (2023) Credit Risk Management in Indian Banking Sector: Issues and Challenges. Anthology the Research, Vol.- VII, Issue- XII

Pal, S., Banerjee, K., (2023) Factors influencing entrepreneurial intention of students: A review. International Journal of Advances in Engineering and Management (IJAEM). Volume 5, Issue 3

Aich, A., Banerjee, K., (2023) HEALTH CARE SERVICE TRADE IN THE SOUTH EAST ASIAN REGION: BIMSTEC REGIONS. International Journal of Advance and Innovative Research. Volume 10, Issue 1 (II)

Nath, S., Lahiri, G., (2023) Comparative Study on Private Teachers Social, Financial, and Mental Problems During & Post Pandemic. SMS Journal of Entrepreneurship & Innovation. Vol-9, Issue-1, 2349-7920

Book Chapter

Nath, S. (2023) CSR Promotions on Social Media: Connecting with Consumers & Brand Image. Effectiveness of Social Media & Customer Engagement, ISBN (10): 9788195147342

Nath, S. (2023) Social Space in The 21st Century: Some Explorations. A Study on Educated Married Womens Decision Making Autonomy, ISBN (13): 9789394569362

Hazra, A. (2023), Innovation of Multidisciplinary Research in Present and Future Time (Volume: 5), The Hill Publication, ISBN - 978-81-962702-5-4

Mitra, N., (2023), Innovation of Multidisciplinary Research in Present and Future Time (Volume: 5), The Hill Publication, ISBN - 978-81-962702-5-4

Hazra, S. (2022), A study on behavioural voting intentions of 1st time voters in Kolkata. Interdisciplinary research in technology and management, ISBN - 978-1032416267

Patent

Patent Application no. 202241035872, Hazra, A., Impact on investment pattern with special reference to small and medium capitalization companies

Patent Application no. 20234102947, Banerjee, K., Chatterjee, S., Hazra, S., EXAMINING THE EFFECTS OF PRODUCT DESCRIPTIONS, REVIEWS, AND RATINGS ON CONSUMER PURCHASE DECISION

Patent Application no. 202321029331, Banerjee, K., Chatterjee, S., Hazra, S., AN INNOVATIVE TIME MANAGEMENT SYSTEM FOR INCREASED PRODUCTIVITY

Conferences, Workshops, Seminars organized

Panel discussion on Employment & Employability of Management Studies. (06.08.2022)

Entrepreneurship Awareness Program. (08.09.2022)

One day seminar on Medical Tourism and International Health Marketing. (16. 09. 2022)

Investors Awareness Program. (22.09.2022)

Leadership Talk. (18.11.2022)

Global conference on emerging technologies, Business, Sustainable Innovative Business practices and social well-being. (10.12.2022 and 11.12.2022)

Leaders Talk. (05.01.2023)

One-week national workshop on "Research Methods using SPSS" (06.02.2023 to 10.02.2023)

Entrepreneurship Attitude and Innovation as Career Opportunity. (15.02.2023 and 16.02.2023)

One week faculty development program on Behavioral Finance. (25.02.2023 to 04.03.2023)

Healthcare quality standards improves patient outcome. (14.03.2023)

Three-day National workshop (online) on Data Analysis using Advanced excel. (06.04.2023 to 08.04.2023)

Pedagogy and Syllabus Designing towards outcome-based teaching-learning (04.05.2023 to 06.05.2023)

7. Admissions

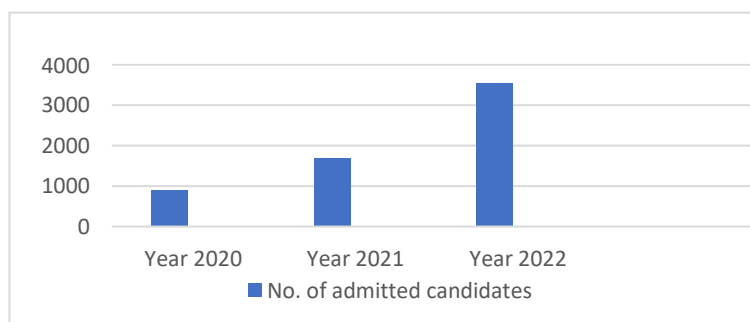
Swami Vivekananda University follows open and transparent procedure for admitting students to all its courses. The university invites applications from eligible candidates from Indian nationals and from foreign students through advertisements in both print and electronic media. Normally advertisements are made in national daily newspapers both in English and regional languages about six months ahead of the selection tests to be conducted for admission into various courses. In addition to this, advertisements made in Swami Vivekananda University website are hosted for public viewing. The advertisements include all relevant information pertaining to the application for admission, selection procedure, minimum eligibility criteria, various scheduled dates in the admission process, test centers, etc.

Admissions to the University in general are made by either drawing successful candidates from Entrance Examinations conducted at national level, such as, AIEEE, CAT, MAT, GATE, etc., by established agencies as the case may be and/or University's own Entrance Examinations (SVU CET) for various courses in a well-proportioned manner authorized by the statutes of the University.

The Quota Seats are distributed among different categories of candidates as follows. Separate Merit lists are prepared for each Category.

Reservation Category	Percentage of seats
Scheduled Caste (SC)	As per Government Norms
Scheduled Tribe (ST)	As per Government Norms
Physically Handicapped (PH)	As per Government Norms
Women's Quota	As per Government Norms

Candidates applying for SC/ST reserved category shall furnish SC/ST Certificate from the Tehsildar of the place of birth at the time of Counseling. Differently abled candidates are considered eligible for admission under PH Category, who is having 40% disabilities in consonance with Section-39 of the Persons with Disabilities (Equal Participation) Act, 1995. As the institution is not having adequate facilities, the candidates having locomotory disabilities are only eligible to apply under this category in SVU. All the unfilled reserved seats will be converted to General Category and reserved woman seats will be converted to General Women Category.



Graph showing students admitted in SVU Year wise

Statistics of Student Admission (Year Wise)

Course	2020	2021	2022
Bachelor of Computer Application	16	55	264
B.A. (H) in Journalism and Mass Communication	6	9	7
B.B.A in Digital Marketing	0	0	17
B.B.A in Hotel Management	0	0	11
B.B.A(H)	37	55	118
B.Com(H)	5	0	0
B.Sc. (H) Clinical Nutrition and Dietetics	6	8	22
B.Sc. (H) in Agriculture	141	66	68
B.Sc in Medical Laboratory Technology	0	121	124
B.Sc Medical Laboratory Technology Lateral	0	3	6
B.Sc. in Medical Radiography & Imaging Technology	0	15	67
B.Sc. In Medical Radiology & Imaging Technology (Lateral)	0	0	3
B.Sc.(H) in Advanced Networking and Cyber Security	8	40	108
B.Sc.(H) in Biotechnology	25	7	47
B.Sc.(H) in Data Science	3	0	0
B.Sc.(H) in Microbiology	8	4	18
B.Tech Data Science	8	9	13
B.Tech in Agricultural Engineering	8	11	21
B.Tech in Civil Engineering	3	8	10
B.Tech in Civil Engineering(Lateral)	7	95	174
B.Tech in Computer Science & Engineering	64	90	302
B.Tech in Computer Science & Engineering (Lateral)	5	32	78
B.Tech in Data Science Lateral	0	1	1
B.Tech in Electrical Engineering	17	6	19
B.Tech in Electrical Engineering (Lateral)	10	85	292
B.Tech in Electronics & Communication Engineering	5	7	11
B.Tech in Mechanical Engineering	9	12	19
B.Tech in Mechanical Engineering (Lateral)	19	131	392
B.Tech Lateral in Agricultural Engineering	0	16	16
B.Tech Lateral in Electronics & Communication Engineering	0	8	23
B.A. (H) English	1	1	5

Bachelor in Hospital Management	69	120	250
B.Sc.(H) in Psychology	12	11	12
Bachelor in Public Health Administration	13	0	0
Bachelor of Physiotherapy	29	36	46
Bachelor of Optometry	24	25	42
Bachelor of Optometry(Lateral)	0	0	9
Bachelor of Physiotherapy (Lateral)	0	0	1
BBA in Agri-Business Management	8	4	0
Diploma in Civil Engineering	0	17	10
Diploma in Computer Science & Technology	21	18	55
Diploma in Electrical Engineering	25	14	42
Diploma in International Hotel & Hospitality Operation	1	0	0
Diploma in Mechanical Engineering	39	12	38
Diploma Lateral in Computer Science & Technology	0	3	10
Diploma Lateral in Electrical Engineering	0	18	18
Diploma Lateral in Mechanical Engineering	0	28	23
Executive M.B.A	16	23	16
M.A in English	4	5	5
M.A in Journalism and Mass Communication	2	22	12
M.B.A	15	20	78
Master of Computer Application	6	55	77
M.Sc in Data Science	5	0	6
M.Sc in Food and Nutrition	6	88	90
M.Sc. in Advanced Networking and Cyber Security	1	0	0
M.Sc. in Biotechnology	19	26	35
M.Sc. in Microbiology	18	28	43
M.Tech in Civil Engineering	58	69	67
M.Tech in Computer Science & Engineering	19	16	19
M.Tech in Electrical Engineering	14	10	28
M.Tech in Electronics & Communication Engineering	4	3	8
M.Tech in Mechanical Engineering	21	18	16
M.Sc. in Applied Psychology	5	34	30
Master in Hospital Administration	17	74	151
Master in Public Health Administration	1	0	0
MBA in Agri-Business Management	14	4	18

8.Training & Placement Cell

Mission

Our mission is to prepare students in fulfilling their career goals, and facilitate them to become leaders and also lay down a career path in front of them to be successful professionals of the future with relevant skills for the ever-changing industry needs.

Vision

Our vision is to nurture, train and develop best human resources, who would make contributions at their work place as fresher's and foster the growth of the economy and the society at large, we live in.

Aim

To prepare the young future technocrats to secure their dream job the TP Cell provides complete end to end assistance which include grooming, counseling, and managing their expectations to instill confidence in them to face the realities of their workplace. Over this period students have made their mark in leading companies around the country. Training Placement occupies an important position as the image enhancing department of the University. Reaching out to prospective employers to comprehend industry requirement is the main task of the department. Finally matching this with the available student's data bank so as to provide both with a cost effective recruitment solution is the ultimate goal. Good placements in terms of quality and quantity both to leading recruiters and sufficient numbers enhance the University marketability as an educational service provider brand in the competitive market.

Objectives

- Avail Suitable Placement opportunities for Final Year students in the Industry , both in terms of numbers and brand quality.
- Provide ample opportunities of Vocational Training during recess vacation for acquiring work exposure.
- Arrange for tie ups with organizations for short duration Internships as part of student curriculum.
- Overall career guidance, organize training workshops on popular trends and technologies which are in vogue in the industry.
- Groom students by imparting soft skills and inherent positive traits as part of a finishing school.

Roles and Responsibilities

- Corporate Relations ,Organizing - Final Placements / Company Visits / Internships Programs Empanelling & bringing corporate from various sectors for campus recruitment and summer internship projects.

- Fostering proper alumni relations, initiating tie ups with corporate for business development & other activities.
- Running Placement Cell & ensuring Placement assistance and internship to the students.
- Determining & conducting programs to enhance efficiency in operations towards accomplishment of corporate objectives.
- Managing the back office operations of the Placement & Training Department and processing all related data and information and keeping records.
- Internship programs & training by contacting the external sources and alumni.
- Work in the target oriented goal achievement of the campus numbers of placement and quality of recruiters.
- Arrange events, shows & other promotional activities inside the premises of Corporate / factory / Industries, through proper channel approvals.
- Departmental Placement Coordinator Programs , providing feedback from industry for coverage in class and pre-placement workshops .
- Arrange seminars, workshops & conferences on Industry Trends and needs.



9.Training

Grooming and preparing the students to face the industry is an integral part of our training process. Based on their study streams and the market requirements, the students are guided and made ready as they enter their pre final year for placement opportunities which start in their final year. The process of all round preparation, for tomorrow's challenging technologically advanced work environments starts quite early right from the first year by providing them relevant and valuable exposure through workshops, seminars, road shows, industrial visits, guest lectures by teams of professionals in accordance to their training needs, and soft skill enhancement requirements. Periodic assessment of traits and skills acquired are followed with vast scope of Industry Academia exchange of both, thought and content. The continuous Industry Institute Collaboration activities are in the forefront, providing students with much needed industry knowledge and trends providing expert technical inputs in constant collaboration with our participating partner organizations and recruiters. Few name of the companies:- Wipro, TCS, Outlook Group, Paytm, Alstom Transport Solutions, Mphasis, Cognizant, Tech Mahindra, Cipla, Pantaloon, gsk, IDBI Mutual Fund, Syntel, Nestle, Dabur, NRS Medical College, Belview Clinic, R.G. Kar Medical College and Hospital, Sagar Dutta Medical College and Hospital, Cafe Coffee Day, Aditya Birla Capital and many more. The Cell provides a launch platform to the final year students by providing grooming, counseling, preparing and managing their expectations to instill confidence in them in order to face the realities of their workplace by helping them to secure entry level job opportunities before they actually pass out.

10.Internship

Summer Winter Internships are part of the curriculum and students are encouraged to acquire exposure in the industry accordingly. Vocational training, short Internship programs for pre final year students through regular mentoring and guidance of departmental faculty members are given utmost importance so that students become productive when they join the industry and become a successful professional in their career.

11.Career Guidance Cell

Faculty members TPOs interact with students on a one to one basis providing them valuable guidance in selecting a career path for themselves. Workshops and sessions are arranged with internal members and external industry personnel for helping the students identify their strong attributes and chart a suitable career plan for themselves.

12.Industry Visits

As industry is the best place to learning in the field of technical education different industrial tour is been conducted for the practical insights of students into the work arena.

13.Central Research Facility

At Swami Vivekananda University research is considered to be an important constituent of academics, and as such boasts of a strong PhD programme. There are a number of research laboratories spread across the various departments to support Researchers and faculty members from various department collaborate with each other and also with other Institutes for carrying out multidisciplinary activities.

Project Submitted

- Project titled: “PROPULSING AWARENESS REGARDING HEALTH MANAGEMENT A RECIPROCAL APPROACH”: THE STUDY INVADING BENGAL SUBURBS, submitted in
- Dept of Science and Technology and Biotechnology, Govt of West Bengal.
- Project titled & IDENTIFICATION OF AGGRESSION- ANXIETY MODEL AMONGST YOUNGER GENERATION: A STEP TOWARDS GREEN WORLD, submitted in SERB-CRG
- Project titled: Implementation of drip irrigation at arsenic contaminated area: water conservative means , submitted in SERB CRG
- Project titled: Artificial Intelligence assisted antimicrobial peptide designing: a promising approach towards effective management of antimicrobial resistant (AMR) organisms isolated from East Kolkata Wetland , submitted in CSIR ASPIRE
- Project titled - Sustainable Treatment, Reuse and management of electronic waste (e-waste)plastic into Value Added Efficient, Affordable and Synergistic Construction Materials. , submitted in SERB
- Project titled : Studies on the Development and Application of a Novel ‘Synbiotic’ Health Drink Using Probiotic Strains and Bioactive Phytochemicals from Indigenous Food Items to Ameliorate carcinogenesis to Improve Female Health , submitted in SERB CRG
- Azadi Ki Amrut Mahotsav 2022 , submitted in ICSSR Seminar
- GrantLEARN with NOODLE , submitted in MIT Solve

14.Memorandum of Understanding

Collaboration with other colleges or industries is highly important in the context of a Ph.D. for several reasons:

Access to expertise: Collaboration allows Ph.D. students to tap into a diverse range of expertise

beyond their own research group or university. By collaborating with experts from other colleges or industries, students can gain valuable insights, knowledge, and perspectives that can significantly enhance their research and broaden their understanding of the field.

Networking opportunities: Collaborating with professionals and researchers from different institutions or industries expands your network. This can lead to future collaborations, job opportunities, and exposure to different career paths. Networking is crucial for establishing connections and building relationships that can be beneficial throughout your academic and professional career.

Access to resources: Collaborating with other colleges or industries can provide access to specialized facilities, equipment, datasets, or funding opportunities that may not be available at your own institution. This access to additional resources can greatly enhance the quality and scope of your research, enabling you to address more complex and challenging research questions.

Interdisciplinary research: Many research problems today require interdisciplinary approaches. Collaborating with researchers from diverse fields or industries allows Ph.D. students to tackle complex problems that transcend traditional disciplinary boundaries. This

interdisciplinary collaboration can lead to innovative solutions, fresh perspectives, and

novel research findings.

Validation and peer review: Collaborating with experts from different institutions or industries offers an opportunity for external validation of your research. Peer review from collaborators can provide valuable feedback, suggestions, and critiques that can help refine your research methodology, strengthen your arguments, and improve the overall quality of your work.

Publication and dissemination: Collaborative research often results in co-authored publications. Working with collaborators can increase the visibility and impact of your research by reaching a wider audience through joint publications, conferences, workshops, or industry-specific events. This dissemination of research outcomes is vital for establishing your credibility as a researcher and contributing to the scientific community.

Skill development: Collaboration fosters the development of essential skills such as teamwork, communication, negotiation, and project management. Working with individuals from different backgrounds and expertise enhances your ability to effectively communicate complex ideas, adapt to diverse working styles, and manage collaborative projects successfully. These skills are highly valuable both during your Ph.D. journey and in your future career.

In summary, collaboration with other colleges or industries is important in a Ph.D. as it offers access to expertise, networking opportunities, resources, interdisciplinary research possibilities, validation and peer review, publication and dissemination avenues, and skill development. These collaborations enrich the research experience, broaden perspectives, and increase the impact and quality of your work.

List of MoU

Kaziranga University, Assam
Peerless
ILS (GPT Group)
North City Hospital
School of Smart Students and Teachers ,Denmark
Bhairab Ganguly College
Acharya Sukumar Sen Mahavidyalaya
Dumkal College
Nabagram Amar Chand Kundu College
Shrachi Group
Siddhinath Mahavidyalaya, Medinipur.
Sadhan Chandra Mahavidyalaya,Falta
Policy Research Centre,Bangladesh
Women's Christian College, Kalighat
DEBGIRI AGRO PRODUCTS PRIVATE LIMITED
AMRI Hospitals, Dhakuria
Maharani Kasiswari College
K.K.Das College,
Kalyani Mahavidyalaya

Having Professors in Practice can bring valuable benefits to academic institutions and their students. Here are some reasons why having Professors in Practice can be necessary:

Real-world expertise: Professors in Practice typically have extensive industry experience and practical knowledge in their respective fields. They can bring real-world perspectives, insights, and examples into the classroom, bridging the gap between theory and practice. Their expertise can enhance the relevance and applicability of the curriculum, preparing students for the challenges they may face in their future careers.

Industry connections and collaborations: Professors in Practice often have established networks and connections within their industry. This can open up opportunities for collaboration between academic institutions and industry partners. These collaborations can lead to joint research projects, internships, co-op programs, and guest lectures, providing students with hands-on experiences and industry exposure.

Updated curriculum and course content: The rapid pace of technological advancements and evolving industry trends require academic programs to stay current and relevant. Professors in Practice can contribute to updating the curriculum and course content to reflect the latest industry practices, emerging technologies, and market demands. This ensures that students are equipped with the most up-to-date knowledge and skills needed in their field.

Mentorship and career guidance: Professors in Practice can serve as mentors and advisors to students, providing guidance and support in their academic and career development. Their industry experience can help students navigate career pathways, understand industry

expectations, and make informed decisions about their future. They can also provide valuable insights and advice on job opportunities, internships, and industry-specific certifications.

Professional development for faculty: Having Professors in Practice can also benefit the existing faculty members. They can engage in knowledge sharing and exchange of best practices with the Professors in Practice, gaining insights into current industry trends and practices. This can enhance the professional development of the faculty, keeping them updated and engaged with the latest advancements in their field.

Research and innovation: Professors in Practice can contribute to applied research and innovation initiatives within the academic institution. Their industry connections and expertise can lead to collaborative research projects that address real-world challenges and have practical applications. This can enhance the reputation of the institution and attract funding opportunities from industry partners and government agencies.

While not every academic institution may have Professors in Practice in every discipline, their inclusion can provide valuable benefits in terms of practical knowledge, industry connections, updated curriculum, mentorship, and research collaborations. The presence of Professors in Practice can enhance the overall educational experience for students and bridge the gap between academia and industry.

Name	Designation
DR. SOMENATH GORAIN MBBS, MD, DM	BHAGIRATHI NEOTIA WOMEN AND CHILD CARE CENTRE, NEW TOWN
DR. TRIDIB KUMAR CHATTERJEE , MBBS, MD,	BHAGTRATHI NEOTIA WOMEN AND CHILD CARE CENTRE, RONDawn STREET.
DR. SHABNAM AGARWAL	CHIEF PHYSIOTHERAPIST, BELLE VUE CLINIC; DIRECTOR EDUCATION, NOPANY GROUP OF INSTITUTIONS
DR. NIBEDITA CHATTERJEE , MBBS, MD	GROUP ,GPT GROUP ILS HOSPITALS
MR ANUPAM DAS , MBA, MHA	CHIEF MANAGER QUALITY ASSURANCE PEERLESS HOSPITALS, KOLKATA
MR. ARNAB BANERJEE (MBA)	HR-MANAGER HCG-ECKO , CANCER CENTRE NEW TOWN
MR. SOMAN SANYAL (MBA)	SR. HR-MANAGER , DESUN HOSPITAL , KOLKATA
DR. AMANYA MITRA	GENERAL MANAGER – OPERATIONS , RUBY GENERAL HOSPITAL KOLKATA
MR. GOLAK NATH DAS (MBA, MA)	DY. GENERAL MANAGER ,NORTH CITY HOSPITAL, KOLKATA
MR. SUBHABRATA CHAKRABORTY, (MBA, MBBS)	CHIEF MANAGER , ANTARA PSYCHIATRIC HOSPITAL, SONARPUR, KOLKATA
MR. SUBHOJIT MUKHERJEE	REGIONAL MANAGER-EASTERN ZONE. SRL DIAGNOSTICS LTD.
DR. SAMPURNA SETT	CHIEF PHYSIOTHERAPIST, THE WOODLANDS HOSPITAL, KOLKATA
DR. ARINDAM SETH	ASST. PROFESSOR,BIPS KALYANI & FOUNDER OF PHYSIO CARE CLINIC
DR. SUDIPTO NAG	FOUNDER OF S N NAG MEMORIAL FOUNDATION
DR. SATYEN BHATTACHARYA	ASSOCIATE PROFESSOR, BIMLS
DR. DEEPAK KUMAR	FOUNDER OF CAPRI SPINE CLINIC, DELHI
DR. SUBHANJAN DAS	FOUNDER OF PHYSILIFE
MR. RAJESH RANJAN	LEAD ENGINEER,TATA STEEL BSL, SAHIBABAD, INDIA
WASIM UDDIN	MANAGER,SANDVIK, FINLAND
DR. ABHISHEK KUMAR PANDEY	APPLICATION MANAGER, IDAKA PRECISION TOOLS INDIA PVT LTD, GURGAON, INDIA
MR. ANOOP CHOUDHARY,	ASSOCIATE MANAGER, HERO MOTOCORP, INDIA
MR. ANINDYA SUNDAR SINHA	SR. DATA ENGINEER , INDORAMA VENTURES GLOBAL BUSINESS SERVICES BANGKOK, THAILAND

Some Glimpses of Several Conferences held at University Campus



Some Glimpses of Industry Visit of our students

