

School-wise list of publications
The Neotia University

School of Science and Technology, The Neotia University

List of Journal Publications

Department of Biotechnology

Publications in the year 2024

1. Das, S., Malik, M., Dastidar, D. G., Roy, R., Paul, P., Sarkar, S., ...& Tribedi, P. (2024). Piperine, a phytochemical prevents the biofilm city of methicillin-resistant *Staphylococcus aureus*: A biochemical approach to understand the underlying mechanism. *Microbial Pathogenesis*, 106601.
2. Roy, R., Paul, P., Chakraborty, P., Malik, M., Das, S., Chatterjee, S., ...& Tribedi, P. (2024). Cuminaldehyde and Tobramycin Forestall the Biofilm Threats of *Staphylococcus aureus*: A Combinatorial Strategy to Evade the Biofilm Challenges. *Applied Biochemistry and Biotechnology*, 1-26.
3. Malik, M., Das, S., Chakraborty, P., Paul, P., Roy, R., Gupta, A. D., ...& Tribedi, P. (2024). Application of cuminaldehyde and ciprofloxacin for the effective control of biofilm assembly of *Pseudomonas aeruginosa*: A combinatorial study. *Microbial Pathogenesis*, 106624.
4. Das, S., Roy, R., Paul, P., Chakraborty, P., Chatterjee, S., Malik, M., Sarkar, S., Gupta, A.D., Maity, D., & Tribedi, P. (2024). Piperine, a Plant Alkaloid, Exhibits Efficient Disintegration of the Pre-existing Biofilm of *Staphylococcus aureus*: a Step towards Effective Management of Biofilm Threats. *Applied Biochemistry and Biotechnology*.

Publications in the year 2023

1. Mitra, R., Gupta, A. D., Kumar, R. R., & Sen, R. (2023). A cleaner and smarter way to achieve high microalgal biomass density coupled with facilitated self-flocculation by utilizing bicarbonate as a source of dissolved carbon dioxide. *Journal of Cleaner Production*, 391, 136217.
2. Paul, P., Roy, R., Das, S., Sarkar, S., Chatterjee, S., Mallik, M., ...& Tribedi, P. (2023). The combinatorial applications of 1, 4-naphthoquinone and tryptophan inhibit the biofilm formation of *Staphylococcus aureus*. *Folia Microbiologica*, 1-11.
3. Paul, P., Sarkar, S., Dastidar, D. G., Shukla, A., Das, S., Chatterjee, S., ...& Tribedi, P. (2023). 1, 4-naphthoquinone efficiently facilitates the disintegration of pre-existing biofilm of *Staphylococcus aureus* through eDNA intercalation. *Folia Microbiologica*, 1-12.
4. Das, S., Paul, P., Dastidar, D.G., Chakraborty, P., Chatterjee, S., Sarkar, S., Maity, D., & Tribedi, P. (2023). Piperine Exhibits Potential Antibiofilm Activity Against *Pseudomonas aeruginosa* by Accumulating Reactive Oxygen Species, Affecting Cell Surface Hydrophobicity and Quorum Sensing. *Applied Biochemistry and Biotechnology*.

5. Chatterjee, S., Paul, P., Chakraborty, P., Das, S., Das Gupta, A., Roy, R., Malik, M., Sarkar, S., Sarker, R.K., & Tribedi, P. (2023). Combinatorial application of cuminaldehyde and gentamicin shows enhanced antimicrobial and antibiofilm action on *Pseudomonas aeruginosa*. *Folia Microbiologica*.
6. Chatterjee, S., Das, S., Paul, P., Chakraborty, P., Sarkar, S., Das, A., Tribedi, P. (2023). Synergistic interaction of cuminaldehyde and tobramycin: a potential strategy for the efficient management of biofilm caused by *Pseudomonas aeruginosa*. *Folia Microbiologica*, 4:1-3.
7. Debsharma, K., Dey, S., Das, D., Halder, S., Ortega-Castro, J., Sarkar, S., Dutta, B., Maity, S., Jana, K., Frontera, A., Ray, P. P. (2023). Designing of a Zn (ii)-isonicotinohydrazido thiophenyl based 2D coordination polymer: structure, augmented photoconductivity and superior biological activity, *CrystEngComm*, 25(1):162-72.

Publication in the year 2022

1. Sarkar, S., Tribedi, P., & Bhadra, K. (2022). Structure-activity insights of harmine targeting DNA, ROS inducing cytotoxicity with PARP mediated apoptosis against cervical cancer, anti-biofilm formation and in vivo therapeutic study. *Journal of Biomolecular Structure and Dynamics*, 40(13), 5880-5902.
2. Ali, S. R., Sultana, S. S., Rajak, S., Tribedi, P., & Chakraborty, S. S. (2022). *Serratia sp.* sc11: isolation of a novel thermostable lipase producing microorganism which holds industrial importance. *Antonie van Leeuwenhoek*, 115(11), 1335-1348.
3. Mandal, S., Kundu, S., Uddin, M. R., Das, P., Paul, P., Roy, P., ...& Sahoo, P. (2022). Identification of a novel quinoline-based UV-protective pigment from a psychotropic Arctic bacterium. *Journal of Applied Microbiology*, 133(5), 3059-3068.
4. Majumder, D., Sarkar, C., Debnath, R., Tribedi, P., & Maiti, D. (2022). Mechanistic insight into the synergism of IL-27 and IL-28B in regulation of benzo (a) pyrene-induced lung carcinogenesis associated ROS/NF- κ B/NLRP3 crosstalk. *Chemico-biological interactions*, 354, 109807.
5. Singh, D. K. (2022). The Role of Epigenetics Regulation in Development and Metastasis of Cancer. *Research Reports* 6: 1-12.
6. Sarker, R. K., Chakraborty, P., Sarkar, S., Ghosh, M. M., Tribedi, P. (2022). Bioaugmentation of *Enterobacter cloacae* AKS7 causes an enhanced degradation of low-density polyethylene (LDPE) in soil: a promising approach for the sustainable management of LDPE waste. *Archives of Microbiology*, 204 (1): 1-2
7. Das, S., Paul, P., Chatterjee, S., Chakraborty, P., Sarker, R. K., Das, A., ...& Tribedi, P. (2022). Piperine exhibits promising antibiofilm activity against *Staphylococcus aureus* by accumulating reactive oxygen species (ROS). *Archives of Microbiology*, 204(1), 59.
8. Dastidar, D. G., Ash, A., Saha, D., Chakraborty, P., & Tribedi, P. (2022). Periodontal Film: A Potential Treatment Strategy for Periodontitis. *Drug Delivery Letters*, 12(3), 184-195.

Publication in the year 2021

1. Chatterjee, S., Paul, P., Chakraborty, P., Das, S., Sarker, R. K., Sarkar, S., Das, A., Tribedi, P. (2021). Cuminaldehyde exhibits potential antibiofilm activity against *Pseudomonas aeruginosa* involving reactive oxygen species (ROS) accumulation: a way forward towards sustainable biofilm management. *3 Biotech*, *11*(11): 1-2.
2. Majumder, D., Debnath, R., Nath, P., Libin Kumar, K. V., Debnath, M., Tribedi P, Maiti, D. (2021). Bromelain and *Olea europaea* (L.) leaf extract mediated alleviation of benzo (a) pyrene induced lung cancer through Nrf2 and NFκB pathway. *Environmental Science and Pollution Research*, *28*:47306-47326.
3. Parthiban, K., Tamarakar, P., Ghosh, M., Gopal, P., Tribedi, P., Das, B. (2021). An interesting approach for Biofilm disruption by Thermocouple device. *Current Trends in Biotechnology and Pharmacy*, *15*(5):545-549.
4. Paul, P., Chakraborty, P., Sarker, R. K., Chatterjee, A., Maiti, D., Das, A., Mandal, S., Bhattacharjee, S., Dastidar, D. G., Tribedi, P. (2021). Tryptophan interferes with the quorum sensing and cell surface hydrophobicity of *Staphylococcus aureus*: a promising approach to inhibit the biofilm development. *3 Biotech*, *11* (8): 1-2.
5. Paul, P., Das, S., Chatterjee, S., Shukla, A., Chakraborty, P., Sarkar, S., Maiti, D., Das, A., Tribedi, P. (2021). 1, 4-Naphthoquinone disintegrates the pre-existing biofilm of *Staphylococcus aureus* by accumulating reactive oxygen species. *Archives of Microbiology*, *203* (8): 4981-92.
6. Sarker, R. K., Paul, P., Das, S., Chatterjee, S., Chakraborty, P., Tribedi, P. (2021). Exploration of strategies for the enhanced biodegradation of Low-Density Polyethylene (LDPE) by a soil bacterium *Enterobacter Cloacae* AKS7. *Journal of Pure and Applied Microbiology*, *15*(3): 1266-78.
7. Roy, R., Mukherjee, G., Das Gupta, A., Tribedi, P., & Sil, A. K. (2021). Isolation of a soil bacterium for remediation of polyurethane and low-density polyethylene: a promising tool towards sustainable cleanup of the environment. *3 Biotech*, *11*, 1-14.

Publication in the year 2020

1. Chakraborty, P., Dave, R., Paul, P., Dutta, S., Sarkar, S., Tribedi, P. (2020). Exploration of strategies to increase the nitrogen and phosphate content of solid waste landfill soil. *Environmental Monitoring and Assessment*, *192* (4): 1-3.
2. Chakraborty, P., Paul, P., Kumari, M., Bhattacharjee, S., Singh, M., Maiti, D., Dastidar, D. G., Akhter, Y., Kundu, T., Das, A., Tribedi, P. (2020). Attenuation of *Pseudomonas aeruginosa* biofilm by thymoquinone: an individual and combinatorial study with tetrazine capped silver nanoparticles and tryptophan. *Folia Microbiologica*, *66* (2): 255-271.
3. Paul, P., Chakraborty, P., Chatterjee, A., Sarker, R. K., Dastidar, D. G., Kundu, T., Sarkar, N., Das, A., Tribedi, P. (2020). 1, 4-Naphthoquinone accumulates reactive oxygen species in *Staphylococcus aureus*: a promising approach towards effective management of biofilm threat. *Archives of Microbiology*, *203* (3): 1183-1193.

4. Sarker, R. K., Chakraborty, P., Paul, P., Chatterjee, A., Tribedi, P. (2020). Degradation of low-density poly ethylene (LDPE) by *Enterobacter cloacae* AKS7: a potential step towards sustainable environmental remediation. *Archives of Microbiology*, 202 (8): 2117-2125.

Publication in the year 2019

1. Chakraborty, P., Dastidar, D.G., Paul, P., Dutta, S., Basu, D., Sharma, S.R., Basu, S., Sarker, R.K., Sen, A., Sarkar, A., Tribedi, P. (2019). Inhibition of biofilm formation of *Pseudomonas aeruginosa* by caffeine: a potential approach for sustainable management of biofilm. *Archives of Microbiology*, 202 (3): 623-635.
2. Chakraborty, P., Sarker, R. K., Roy, R., Ghosh, A., Maiti, D., Tribedi, P. (2019). Bioaugmentation of soil with *Enterobacter cloacae* AKS7 enhances soil nitrogen content and boosts soil microbial functional-diversity. *3 Biotech*, 9 (7): 253.
3. Chakraborty, P., Tribedi, P. (2019). Functional diversity performs a key role in the isolation of nitrogen-fixing and phosphate-solubilizing bacteria from soil. *Folia microbiologica*, 64 (3): 461-70.
4. Goswami, M., Chakraborty, P., Mukherjee, K., Mitra, G., Bhattacharyya, P., Dey, S., Tribedi, P. (2019). Bio-augmentation and bio-stimulation: a potential strategy for environmental remediation. *Journal of Microbiology and Experimentation*, 6 (5): 223.

Publication in the year 2018

1. Bhattacharyya, P., Agarwal, B., Goswami, M., Maiti, D., Baruah, S., Tribedi, P. (2018). Zinc oxide nanoparticle inhibits the biofilm formation of *Streptococcus pneumoniae*. *Antonie Van Leeuwenhoek*, 111:89-99.
2. Chakraborty, P., Daware, A. V., Kumari, M., Chatterjee, A., Bhattacharyya, D., Mitra, G., Akhter, Y., Bhattacharjee, S., Tribedi, P. (2018). Free tryptophan residues inhibit quorum sensing of *Pseudomonas aeruginosa*: a potential approach to inhibit the development of microbial biofilm. *Archives of Microbiology*, 200 (10):1419-25.
3. Chakraborty, P., Joardar, S., Ray, S., Biswas, P., Maiti, D., Tribedi, P. (2018). 3, 6-Di (pyridin-2-yl)-1, 2, 4, 5-tetrazine (pytz)-capped silver nanoparticles (TzAgNPs) inhibit biofilm formation of *Pseudomonas aeruginosa*: a potential approach toward breaking the wall of biofilm through reactive oxygen species (ROS) generation. *Folia microbiologica*, 63 (6):763-72.
4. Dey, S., Tribedi, P. (2018). Microbial functional diversity plays an important role in the degradation of polyhydroxybutyrate (PHB) in soil. *3 Biotech*, 8(3):171.

Publication in the year 2017

1. Goswami, M., Bhattacharyya, P., Tribedi, P. (2017). Addition of Rubber to soil damages the functional diversity of soil. *3 Biotech*, 7:1-7.
2. Tribedi, P., Dey, S. (2017). Pre-oxidation of low-density polyethylene (LDPE) by ultraviolet light (UV) promotes enhanced degradation of LDPE in soil. *Environmental Monitoring and Assessment*, 189:1-8.

Department of Basic Sciences

Publications in the year 2024

1. Hashemzadeh, F., Khoshmardan, M. E., Sanaei, D., Ghalhari, M. R., Sharifan, H., Inglezakis, V. J., ...& Biswas, J. K. (2024). Adsorptive removal of anthracene from water by biochar derived amphiphilic carbon dots decorated with chitosan. *Chemosphere*, 352, 141248.
2. Kumar, A., Bhattacharya, T., Shaikh, W. A., & Biswas, J. K. (2024). Valorization of invasive plant and leaf litter wastes into biochar: Production, properties and potential for arsenic removal. *Groundwater for Sustainable Development*, 24, 101066.
3. Goswami, S., Gupta, P., Mahanta, S.P., Bedanta, S., Goswami, S., Chakraborty, M., & De, D. (2024). Tuning exchange bias in silica-coated Co-CoO core-shell nanostructure. *Journal of Nanoparticle Research*, 56:1-11.
4. Chatterjee, T., Gogoi, U. R., Samanta, A., Chatterjee, A., Singh, M. K., & Pasupuleti, S. (2024). Identifying the Most Discriminative Parameter for Water Quality Prediction Using Machine Learning Algorithms. *Water*, 16(3), 481.
5. Samanta, A., Chatterjee, A., & Singh, M. K. (2024). A Study on the Coexistence of Anthropogenic and Natural Sources in a Three-Dimensional Aquifer. *Water*, 16(1), 177.
6. Roy, R., Adhikari, S. K., Das, S. C., Roy, R., Pramanick, S., De, K., ...& Chatterjee, S. (2024). Impact of incomplete martensitic phase transition on the magnetic behavior of Co-doped MnNiGe 1.05 alloys. *Physical Review B*, 109(14), 144420.
7. Adhikari, S. K., Roy, R., Numan, M., Das, A., Roy, R., Das, S. C., ... & Chatterjee, S. (2024). Exploring the impact of Cr-doping on the crystallographic and magnetic structure of Mn₅Si₃ antiferromagnetic alloy. *PHYSICAL REVIEW MATERIALS*, 8, 064405.

Publications in the year 2023

1. Samanta, A., Chatterjee, A., & Singh, M. K. (2023). Impact of air pollution on groundwater contamination through water reservoir. *Geosystem Engineering*, 26(3), 75-84.
2. Reeves, A., Shaikh, W. A., Chakraborty, S., Chaudhuri, P., Biswas, J. K., & Maity, J. P. (2023). Potential transmission of SARS-CoV-2 through microplastics in sewage: A wastewater-based epidemiological review. *Environmental Pollution*, 122171.
3. Biswas, A., Mondal, S., & Chatterjee, A. (2023). Solution of Lane-Emden Type Differential Equations by Using Differential Transform Method. *Journal of Mines, Metals & Fuels*, 71(5).
4. Mondal, S., Biswas, A., & Chatterjee, A. (2023). Generalized Differential Transform Method–Application to Integral Equations of Fractional Order. *Journal of Mines, Metals & Fuels*, 71(5).

5. Mandal, P., & Chatterjee, A. (2023). Mathematical Modelling of Transmission of Covid-19 in Indian Context: An Impact of Lockdown. *Journal of Mines, Metals & Fuels*, 71(5).
6. De, D., Goswami, S., & Chakraborty, M. (2023). Magnetic memory effect: Unfolding magnetic metastabilities. *Journal of Magnetism and Magnetic Materials*, 170175.
7. Kumar, A., Bhattacharya, T., Shaikh, W. A., Roy, A., Chakraborty, S., Vithanage, M., & Biswas, J. K. (2023). Multifaceted applications of biochar in environmental management: a bibliometric profile. *Biochar*, 5(1), 11.
8. Shaikh, W. A., Chakraborty, S., Kumar, A., Biswas, J. K., Jha, A. K., Bhattacharya, T., ...& Hossain, N. (2023). Tailor-made biochar-based nanocomposite for enhancing aqueous phase antibiotic removal. *Journal of Water Process Engineering*, 55, 104215.
9. Adhikari, S. K., Roy, R., Das, S. C., Pramanick, S., De, K., Ivashko, O., ...& Chatterjee, S. (2023). Influence of Ge-doping on the collinear and non-collinear antiferromagnetic phases of Mn₅Si₃ alloy. *Journal of Magnetism and Magnetic Materials*, 171591.

Publication in the year 2022

1. Goswami, S., Gupta, P., Nayak, S., Bedanta, S., Iglesias, Ò., Chakraborty, M., & De, D. (2022). Dependence of exchange bias on interparticle interactions in Co/CoO Core/shell nanostructures. *Nanomaterials*, 12(18), 3159.
2. Kasera, N., Kolar, P., & Hall, S. G. (2022). Nitrogen-doped biochars as adsorbents for mitigation of heavy metals and organics from water: A review. *Biochar*, 4(1), 17.
3. Kumar, A., Bhattacharya, T., Shaikh, W. A., Chakraborty, S., Sarkar, D., & Biswas, J. K. (2022). Biochar modification methods for augmenting sorption of contaminants. *Current Pollution Reports*, 8(4), 519-555.
4. Shaikh, W. A., Kumar, A., Chakraborty, S., Naushad, M., Islam, R. U., Bhattacharya, T., & Datta, S. (2022). Removal of toxic dye from dye-laden wastewater using a new nanocomposite material: isotherm, kinetics and adsorption mechanism. *Chemosphere*, 308, 136413.
5. Agrawal, P., Sinha, A., Pasupuleti, S., Sinha, J., Chatterjee, A., & Kumar, S. (2022). A mathematical approach to evaluate the extent of groundwater contamination using polynomial approximation. *Water Supply*, 22(6), 6070-6082.
6. Kumar, R., Chatterjee, A., Singh, M. K., & Tsai, F. T. (2022). Advances in analytical solutions for time-dependent solute transport model. *Journal of Earth System Science*, 131(2), 131.
7. Goswami, S., Chakraborty, M., & De, D. (2022). Electro-Magnetic switching in NiO-Graphene film. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1225, No. 1, p. 012051). IOP Publishing.
8. Goswami, S., Banerjee, A., Chakraborty, M., & De, D. (2022). Synthesis and characterization of Ni grafted RGO—A nanocomposite with tunable magnetic properties. *Solid State Communications*, 342, 114602.

Publication in the year 2021

1. Goswami, S., Gupta, P., Bedanta, S., Chakraborty, M., & De, D. (2022). Coexistence of exchange bias and memory effect in nanocrystalline CoCr₂O₄. *Journal of Alloys and Compounds*, 890, 161916.
2. Bera, S., Banerjee, T., & Samanta, A. (2021). Evaluation of enzymatic delignification of rice straw residues for bioethanol production. *International Journal of Renewable Energy Technology*, 12(2), 99-117.
3. Dutta, S., Jana, T. K., Maiti, R., De, K., & Chatterjee, K. (2021). α -Fe₂O₃ Nanoparticles Embedded in ag-C₃N₄ Nanocomposite: Optical, Magnetic and Electrochemical Study. *Chemistry Select*, 6(42), 11759-11767.
4. Banerjee T., and Samanta A. (2021). Chemical Computational Approaches for Optimization of Effective Surfactants in Enhanced Oil Recovery. *Physical Sciences Review*, 20200098.

Publication in the year 2020

1. Goswami, S., Chakraborty, M., De, D. (2020). Nanostructured CoCr₂O₄ Embedded in Silica Matrix: Studies on Synthesis and Magnetic Properties. *AIP Conference Proceedings*, 2352, 040037.
2. Banerjee, T., Samanta, A., Mandal, A. (2020). Mathematical regression models for rheological behavior of interaction between polymer-surfactant binary mixtures and electrolytes. *Journal of Dispersion Science and Technology*, 1-13.
3. De, K., Dhak, P., De, S., Dutta, P., Dey, K., Mukherjee, S., Chatterjee, S., Das, S. (2020). De-stabilization of charge order state through in-homogeneity in random ionic distribution in the particles of polycrystalline Eu_{0.2}La_{0.3}Sr_{0.2}Ca_{0.3}MnO₃ sample. *Bulletin of Materials Science*, 43, 112.
4. Goswami, S., Manna, P. K., Bedanta, S., Dey, S. K., Chakraborty, M., De, D. (2020). Surface driven exchange bias in nanocrystalline CoCr₂O₄. *Journal of Physics D: Applied Physics*, 53, 305303.
5. Goswami, S., Chakraborty, M., De, D. (2020). Effect of Dilution of Volume fraction on Exchange Bias Effect in Ni-NiO Core-Shell Nanostructure. *AIP Conference Proceedings*, 2265 (1): 030579.
6. Chatterjee, A., Singh, M. K., & Singh, V. P. (2020). Groundwater contamination in mega cities with finite sources. *Journal of Earth System Science*, 129, 1-10.
7. Kumar, R., Chatterjee, A., Singh, M. K., & Singh, V. P. (2020). Study of solute dispersion with source/sink impact in semi-infinite porous medium. *Pollution*, 6(1), 87-98.
8. Kumar, R., Chatterjee, A., Singh, M. K., & Singh, V. P. (2020). Mathematical modelling to establish the influence of pesticides on groundwater contamination. *Arabian Journal of Geosciences*, 13, 1-10.

9. Pal, A., De, K., Maiti, R., Manna, S. C., & Chatterjee, K. (2020). Electro-catalytic hydrogen evolution and magnetic behavior of N-doped-rGO supported Ni x P y. *SN Applied Sciences*, 2, 1-13.

Publication in the year 2019

1. Gupta, S., Ahmed, M., & Misra, J. C. (2019). Effects of periodic corrugated boundary surfaces on plane SH-waves in fiber-reinforced medium over a semi-infinite micropolar solid under the action of magnetic field. *Mechanics Research Communications*, 95, 35-44.
2. Gupta, S., Ahmed, M., & Verma, A. K. (2019). Analysis of Rayleigh waves in micropolar thermoelastic solid over a dual-phase-lag semi-infinite thermoelastic substrate under interfacial imperfections. *International Journal of Geomechanics*, 19(5), 04019038.
3. Jana, T. K., Jana, S. K., Kumar, A., De, K., Maiti, R., Mandal, A. K., ...& Chatterjee, K. (2019). The antibacterial and anticancer properties of zinc oxide coated iron oxide nanotextured composites. *Colloids and Surfaces B: Biointerfaces*, 177, 512-519.

Publication in the year 2018

1. Das, S., Roychowdhury, P., De, S., Roy, A., Chatterjee, S., & De, K. (2018). Magnetic and electrical transport of the cation-deficient LaMnO₃: common origin for both Sr-doping and self-doping effects. *Physics B: Condensed Matter*, 544, 17-22.
2. Basu, P., De, K., Das, S., Mandal, A. K., Kumar, A., Jana, T. K., & Chatterjee, K. (2018). Silica-Coated metal oxide nanoparticles: magnetic and cytotoxicity studies. *Chemistry Select*, 3(25), 7346-7353.
3. Gupta, S., Kundu, S., Pati, P., & Ahmed, M. (2018). Torsional waves in fluid saturated porous layer clamped between two anisotropic media. *Geomechanics and Engineering*, 15(1), 645-657.

Department of CSE

Publication in the year 2024

1. Chatterjee, T., Gogoi, U. R., Samanta, A., Chatterjee, A., Singh, M. K., & Pasupuleti, S. (2024). Identifying the Most Discriminative Parameter for Water Quality Prediction Using Machine Learning Algorithms. *Water*, 16(3), 481.
2. Gogoi, U. R. (2024). WVEHDD: Weighted Voting based Ensemble System for Heart Disease Detection. *AIUB Journal of Science and Engineering (AJSE)*, 23(1), 25-33.
3. Biswas, P., Daniel, A., Neogi, S. G. (2024). Spider Monkey Optimization with Deep Learning-based Hindi Short Text Sentiment Analysis. *Journal of Intelligent Systems and Internet of Things*, 12(01); 97-109.
4. Ohri, P., Daniel, A., Neogi, S. G. & Muttoo, S. K. (2024). Blockchain-based security framework for mitigating network attacks in multi-SDN controller environment. *International Journal of Information Technology*. DOI: <https://doi.org/10.1007/s41870-024-01933-8>

Publication in the year 2022

1. Haldar, B., Sinha, R., & Paul, P. (2022). Creating a Framework to Strengthen Cryptographic Security for Group Communication by Distributing Processed Keys. *Mathematical Statistician and Engineering Applications*, 71(4), 4673-4679.
2. Shrivastava, A. K., & Sharma, R. (2022). Developing a hybrid software reliability growth model. *International Journal of Quality & Reliability Management*, 39(5), 1209-1225.

Department of Robotics

Publication in the year 2021

1. Das, S. S., Majumder, B., & Ghosh, A. (2021). An analytical 2-D model of triple metal double gate graded channel junctionless MOSFET with hetero-dielectric gate oxide stack. *Solid State Communications*, 340, 114521.

Publication in the year 2020

1. Kumar, M., Shenbagaraman, V. M., Ghosh, A. (2020). Digital Transformation of Air Compressor Utilization Based on AI, ML in Smart Factory Management. *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, 10(3):9255-9264.
2. Shaw, R. N., Walde, P., & Ghosh, A. (2020). Review and analysis of photovoltaic arrays with different configuration system in partial shadowing condition. *International Journal of Advanced Science and Technology*, 29(9s), 2945-2956.
3. Shaw, R. N., Walde, P., & Ghosh, A. (2020). Enhancement of Power and Performance of 9x4 PV Arrays by a novel arrangement with shade dispersion. *Test Engineering & Management*, 82.

Publication in the year 2019

1. Shaw, R. N., Walde, P., & Ghosh, A. (2019). Effects of solar irradiance on load sharing of integrated photovoltaic system with IEEE standard bus network. *International Journal of Engineering and Advanced Technology (IJEAT)*, 9(1), 424-429.

Department of Mechanical Engineering

Publication in the year 2020

1. Habisyasi, B. N., Sarker, A., Molla, M. U. and Basu, A. K. (2020). Contingency analysis of a 10-bus power system using power world simulator. *Indian Journal of Power and River Valley Development*, 70(5), 79-85.

Publication in the year 2019

1. Das, D., Bhattacharya, S., & Sarkar, B. (2019). Material selection in product design under risk and uncertainty introducing the conditional logit in the madm framework. *Journal of Industrial and Production Engineering*, 36(7), 440-450.

List of Book Chapter Publications
School of Science and Technology, The Neotia University

Publications in the year 2024

Department of Biotechnology

1. Halder, S., Majumder, C., Manna, A., Sarkar, S., Bhattacharya, A. and Jana, K. (2024). Targeting reactive oxygen species ROS in the prevention of Non-Communicable Diseases: The Promise and Limitations of Antioxidant Therapy. In: *The role of reactive oxygen species in health and disease*. Editor Jana K; ISBN:979-8-89113120-0.

Publications in the year 2023

Department of CSE and Robotics and Automation

1. Dev, D. S., Rakshit, R. D., Choudhury, N., & Kisku, D. R. (2023). Machine Learning and Revolution in Agriculture: Past, Present and Future. In: *IET Book on Intelligent Multimedia Processing and Computer Vision: Techniques and applications*, 77 – 298.
2. Rakshit, R. D., Dev, D. S., Choudhury, N., & Kisku, D. R. (2023). Biometric-based computer vision for boundless possibilities: process, techniques, and challenges. In: *IET Book on Intelligent Multimedia Processing and Computer Vision: Techniques and applications*, 29 – 58.
3. Gogoi, U. R. (2023). Importance of Feature Selection Methods in Machine Learning-Based Obesity Prediction. In: *Artificial Intelligence-based Healthcare Systems*, 45-59. Cham: Springer Nature Switzerland.
4. Kamaruzzaman, Md., & Mukherjee, P. (2023) Unveiling the Potential of AI, Sensors, and Robotics in Plant Phenotyping and Precision Farming. In: *A Compilation of ISTD 6th Eastern Regional Conference Papers – Leveraging Sustainability through Technology for Agile Organizations*, ISBN: 978-81-957591-5-6.

Department of Basic Sciences

1. Banerjee, T., & Samanta, A. (2023). Chemical computational approaches for optimization of effective surfactants in enhanced oil recovery. *Physical Sciences Reviews*, 8(9), 2143-2172.

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Department of Biotechnology

1. Paul P, Ghorui S, Chakraborty P, Das S, Tribedi P, Dastidar DG (2022) Tryptophan: An Amino Acid to Manage Biofilm Threat Efficiently. In: *Advances in Health and Disease*. Volume 57.

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1. Banerjee, T., & Samanta, A. (2022). Bioclogging and microbial enhanced oil recovery. In: *Microbes and Microbial Biotechnology for Green Remediation*, 443-462. Elsevier.

Department of CSE

1. Mukherjee, P. K. (2022, February). Artificial Intelligence Based Smart Government Enterprise Architecture (AI-SGEA) Framework. In: *International Symposium on Artificial Intelligence*, 325-333. Cham: Springer Nature Switzerland.

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Department of Basic Science

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2. Banerjee, T. and Samanta, A. (2021). Metal oxides for cosmetics, sunscreens. In: *Metal-oxides for Biomedical and Biosensor Applications*. Elsevier (ISBN: 978-0-128-23033-6).

Publication in the year 2020

Department of Biotechnology

1. Bhattacharyya, C., Roy, R., Tribedi, P., Ghosh, A., Ghosh, A. (2020). Biofertilizers as substitute to commercial agrochemicals. In: *Agrochemicals Detection, Treatment and Remediation*. Elsevier, 263-290 (ISBN: 978- 0-08-103017-2).

Basic Sciences

1. Samanta, A. (2020). The Experience of Online Teaching of Chemistry during the COVID-19 Pandemic. In: *Redefining Teaching Learning in the Times of Social Distance*, Publisher: National Press Associates, New Delhi, 1-9. (ISBN: 978-81-947590-7-2).
2. Samanta, A. (2020). Bioenergy Potentials of Lignocellulosics for Sustainable Development. In: *Environmental Ethics & Sustainable Development*, Publisher: VL Media Solutions, New Delhi, India, 108-121 (ISBN: 978-93-879169-4-4).

School of Pharmacy, The Neotia University Journal Publications

Department of Pharmacy

Publications in the year 2024

1. Mazumder, S., Ghosh, S., Bose, S., Chakraborty, A. & Dinda, S. C. (2024). Archaeobotanical Elucidation of *Moringa oleifera*: It's Biological, Ethnopharmacological and Phytochemical Activities, *Journal of Natural Remedies*.
2. Roy, S., Ghosh, A., Majie, A., Karmakar, V., Das, S., Dinda, S. C., ...& Gorain, B. (2024). Terpenoids as potential phytoconstituent in the treatment of diabetes: from preclinical to clinical advancement. *Phytomedicine*, 155638.

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SHSY-5Y Cell Lines, Antimicrobial and Antioxidant Studies. *Recent Patents on Nanotechnology*, 17(3), 270-280.

2. Subramaniyan, N. K., Elumalai, K., Rajangam, J., N Palei, N., Talari, D., Balaji, A., & Surendran, V. (2023). Protective role of *Vernonia cinerea* against the Carmoisine induced brain injury and angiogenic effect in mice. *Egyptian Journal of Basic and Applied Sciences*, 10(1), 12-24.
3. Mishra, G., Singh, P., Molla, M., Yimer, Y. S., Dinda, S. C., Chandra, P., ...& Ewunetie, A. (2023). Harnessing the potential of probiotics in the treatment of alcoholic liver disorders. *Frontiers in Pharmacology*, 14, 1212742. DOI: 10.3389/fphar.2023.1212742.
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1. Bose, S., Mandal, S. K., Das, P., Nandy, S., Das, A., Dutta, D., ...& Dey, S. (2020). Comparative Evaluation of Anti-inflammatory, Antipyretic and Analgesic Properties of *Ixora coccinea* and *Mussaenda frondosa* (Rubiaceae) Leaves. *Jordan Journal of Pharmaceutical Sciences*, 13(3).

Book Chapter Publications

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Department of Pharmacy

1. Banerjee, S., Banerjee, S., Banerjee, S., Das, A., Bose, S. (2024). Fungi in nutraceutical and banking purposes. In book: Entrepreneurship with Microorganisms. Elsevier. <https://doi.org/10.1016/B978-0-443-19049-0.00016-5> .
2. Banerjee, S., Das, K., Pal, G., Bose, S. (2024). Acorus calamus L. (Sweet Flag): Bioactive Compounds, Medicinal Properties, and Biological Activity. In book: Advances in Medicinal and Aromatic Plants, Vol 1: Production, Processing and Pharmaceutics. Apple Academic Press.
3. Banerjee S, Chakraborty U, Bose S. (2024) Safed Musli: A critical review Bioactive Compounds, Medicinal Properties, and Biological Activity. In book: Advances in Medicinal and Aromatic Plants, Vol 1: Production, Processing and Pharmaceutics. Apple Academic Press.
4. Yadav, S., Pillei, N. N., Dinda, S. C., Dhar, A. K. (2024). Drug delivery in Biotechnology: present and future. In book: Concepts in Pharmaceutical Biotechnology and Drug Development. Springer-Nature Singapore, ISBN No: 978-981-97-1147-5.
5. Dhar, A. K, Pillei, N. N, Kandula, D. R. (2024). Vaccines and Oncolytic Virus for the Treatment of Lung Cancer. In book: Immunotherapy Against Lung Cancers: Emerging Opportunities and Challenges, Springer-Nature Singapore, 215 – 246. ISBN No: 978-981-99-7140-4, 978-981-99-7141-1 (eBook). <https://doi.org/10.1007/978-981-99-7141-1>
6. Dhar, A. K, Kandula, D. R, Pillei, N. N. (2024). Interplay between autophagy, gut microbiota and IBD. In book: Inflammatory Bowel Disease and Gut Microbiota, Apple Academic Press, Canada, Hard ISBN: 9781774919361.

7. Dhar, A. K., Anitha, K., Bhatt, S. (2024). Immune system and diabetes mellitus. In book: Biochemical Immunology of Diabetes and Associated Complications, Academic Press, Elsevier, 19- 36. ISBN: 978-0-443-13195-0.
8. Jena, B. R, Swain, S., Dinda, S. C., Das, S., Ghosh, D. (2024). Application of Quality by Design: A New-Rebellion to Drug Design and its importance in Regulatory Sciences. In book: Green Chemistry and Quality by Design in Process Analytical Technologies and Drug Design, Chembridge Scholar Publishing, 58 -75. ISBN: 978-1-0364-0256-3.

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Department of Pharmacy

1. Dhar, A. K. (2023). Human Microbiome Modulation: A Potential Therapeutic Strategy for Pancreatic Cancer. In book: Synbiotics for the Management of Cancer (pp. 205-242). Singapore: Springer Nature Singapore.
2. Bhatt, S., Dhar, A. K., Samanta, M. K., & Suttee, A. (2023). Effects of Current Psychotropic Drugs on Inflammation and Immune System. In book: Neuroinflammation, Gut-Brain Axis and Immunity in Neuropsychiatric Disorders (pp. 407-434). Singapore: Springer Nature Singapore.
3. Kar, S.S., Dhar, A.K., Bhatt, S. (2023). Nanocarriers and its Role in the Treatment of Breast Cancer. In book: Therapeutic Nanocarriers in Cancer Treatment: Challenges and Future Perspective. Current Molecular Pharmacology. Bentham Science.
4. Bose, S.,Maji, S. B., Banerjee, S. (2023). Medicinal Spices and Herbs from India, 2-volume set: Volume 1: Introduction, Therapeutic Properties, and Commercial Products / Volume 2: Beneficial Health Effects of 20 Exotic Spices, Apple Academic Press (CRC Press, Taylor and Francis Group) ISBN: 9781774916926
5. Roy, S., Majumder, S., Das, S., Bhattacharjee, S., Bose, A., Mondal, S. (2023). The Evolving Epidemiology of Diabetes Mellitus in India and Emerging Herbal Therapies for Diabetes Management. In book: Current Overview on Pharmaceutical Science. B P International, pp. 33-55 (Print ISBN: 978-81-19039-73-9, eBook ISBN: 978-81-19039-71-5).
6. Ghosh, P., Mondal, S., & Bose, A. (2023). Miltefosine Nanoparticles against Leishmaniasis: Past, Present and Future. In book: Current Overview on Pharmaceutical Science Vol. 4, 74-87.
7. Paria, S., &Mondal, S. (2023). Phytoconstituents of Vitexnegundo may be an Effective Alternative in Parasitic Infection in Humans. In book: Current Overview on Pharmaceutical Science Vol. 4, 27-33.
8. Ghosh, P., &Mondal, S. (2023). Resistant Leishmaniasis Chemotherapy: Scenario of Drug Development. In book: Novel Aspects on Pharmaceutical Research Vol. 1, 75-83.
9. Dewan, D., **Ghosh, P.** (2023). A Review on Metallic Nanoparticles: A Noble Approach on Drug Delivery System. In book: B.P International Vol. 1, <https://doi.org/10.9734/bpi/acpr/v1/6941A>.

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2. Some A, Ghosh P. (2022) An Overview of the Phytopharmacological Effects of *Ocimum basilicum* (Lamiaceae) on Health. Aryabhat Publication House. 146-161; ISBN: 978-93-95463-01-0.

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1. Bose, S., Shukla, A. C., Baig, M. R., & Banerjee, S. (2024). Concepts in Pharmaceutical Biotechnology and Drug Development. ISBN: 978-981-97-1147-5. <https://doi.org/10.1007/978-981-97-1148-2>.

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1. Pathak, V. K, Joshi, R., Verma, V. S., Das, R. (2023). Pharmacy Practice, Published in Stallion Publication, ISBN: 978-93-95074-90-2.

Publications in the year 2022

1. Yada, K . K, Murthy, K.V.L.N., Raj, A., Ghosh, P. (2022). Pharmacy Practice and Development; Scientific International Publishing House. 1-155; ISBN: 978-93-5625-578-4.

School of Agriculture & Allied Sciences, The Neotia University

Journal Publications

Department of Horticulture & Food Science

Publications in the year 2024

1. Halder, S., Huirem, B., Karmakar, S., Hayat, A., & Bhattacharya, U. (2024). Value Addition of Fruits: An Effective Process to Combat Post-harvest Losses. *Journal of Experimental Agriculture International*, 46(5), 339-345.

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1. Chowdhury, R. S., Kumar, V., Bhattacharya, S., Mallick, P., Ghosh, A., Bhattacharjee, S., & Kothari, S. K. (2023). Effect of Gibberellic Acid (GA3) on Vegetative and Reproductive Growth and Yield Characters of Cucumber (*Cucumis sativus*) under Coastal Region of West Bengal, India. *International Journal of Plant & Soil Science*, 35(21), 90-96.
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mulching on physico-chemical attributes and post-harvest qualities of mango cv. Himsagar. *The Pharma Innovation Journal*, 12(8): 473-477.

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1. Saha, T., Das, A., Ghosh, B., Kundu, S. and Bhattacharya, S. (2020). Effect of micronutrients on fruit set, yield and quality of sweet orange (*Citrus sinensis Osbeck*) cv. Mosambi in the Gangetic alluvial region of West Bengal. *Journal of Pharmacognosy and Phytochemistry*, 9(3): 1793-1795.

Department of Agronomy & Agroforestry

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3. Mandal, T. K., Das, P., Mondal, M., and Khoso, I. (2023). Intervention of Soil Salinity in Agriculture of Indian Sundarbans: A Review. *International Journal of Bioresource Science*. 10(01): 117-127.
4. Mandal, T.K., Das, P., Mukherjee, B., & Krishna, T.G. (2023). Effect of Sulphur Fertilization and Dates of Sowing on the Growth, Yield Attributes and Yield of Sunflower under Coastal Saline Soil of West Bengal. *10(2):159-163*.

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1. Mondal, M., Biswas, B., Garai, S., Adhikary, S., Bandyopadhyay, P. K., Sarkar, S., ...& Hossain, A. (2021). Raising climate-resilient embolden rice (*Oryza sativa L.*) seedlings during the cool season through various types of nursery bed management. *Sustainability*, 13(22), 12910.
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Department of Agricultural Engineering & Farm Management

Publications in the year 2022

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Department of Soil Science and Agricultural Chemistry

Publications in the year 2024

1. Manna, T., Nanda, M.N, Sarkar,S., Mukherjee, A., Ray, M., Ahmed,L., Alkeridis, Sayed,S., Gaber, A., Hossain, A. (2024). Infrared thermometry-based stress indices as indicators of yield performance and seasonal evapotranspiration in potato plants grown under different moisture and potassium regimes. *Scientia Horticulturae*,330:113086.
2. Mullick, S., Bera, M., Khoso, I., & Kothari, S.K. (2024). Nutrient Status of Coastal Soils-24 Parganas (South), West Bengal, India. *International Journal of Plant & Soil Science*,36 (4): 17-23.

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Department of Agricultural Economics & Statistics

Publications in the year 2023

1. Pal, S., Mallick, P., Chakraborty, A. J., Rahaman, S. M., & Kumar, A. (2023). A Study of Agriculture and Groundwater Utilization in West Bengal. *Scientist*,3(3): 550-562.

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1. Mondal, M., Chakraborty, J., & Bera, B. (2022). An assessment of marketable and marketed surplus of major foodgrains of Nadia district of West Bengal. *Journal of Crop and Weed*, 18(2), 272-279.
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Department of Genetics & Plant Breeding

Publications in the year 2023

1. Kothari, S. K., Saha, S., & Mallick, P. (2023). Evaluation of foliar application of nano-fertilizers (nitrogen, zinc, copper) on growth and yield of rice (*Oryza sativa L.*) in kharif season. *The Pharma Innovation Journal*, 12(6): 247-250.
2. Saha, S., Banerjee, A., Manna, T., Barik, S., & Kothari, S. K. (2023). Salinity influences on different growth stages of sesame (*Sesamum indicum L.*) varieties. *The Pharma Innovation Journal*, 12(2): 2131-2132.
3. Mondal, B. (2023). Extraction of leaf essential oil from 'Khasia' landrace of *Piper betle L.*: An innovative business input to conventional agroforestry system. *Forestry Ideas*. 29 (2) 66: 199-206.

Publications in the year 2022

1. Mondal, B. (2022). Extraction of Betel Leaf Essential Oil for the Sustainable Solution to Betel Business in West Bengal for Effective Economic Gain: A Review. *Mysore Journal of Agricultural Sciences*, 56(2).
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2. Mondal, B. (2021). Assessment of Genetic stability of Ex-vitro lime population maintained under nursery condition in West Bengal. *Research Journal of Agricultural Sciences An International Journal*, 12(05): 1498-1502.
3. Mondal, B. (2021). Conversion of metabolomic data to genomic marker for genetic characterization of *Piper betel* chemotypes- A review. *Agricultural Reviews*. Doi. 10.18805/ag. R-2118.

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1. Mondal, B. (2020). Application of Molecular Marker in effective management of Mandarin Orange Orchards of West Bengal. *Research Journal of Agricultural Sciences*, 12(1): 126-130.
2. Mondal, B., Saha, R., & Samanta, A. (2020). Improvement of Local Economy through the Maintenance of the Rural House Hold Bank (*Piper Betel* Baroj) of South Bengal. *Indian Horticulture Journal*, 10(1 and 2), 22-24.

3. Mondal, B., Saha, R., & Samanta, A. (2020). Post-Amphan management and rejuvenation of the ravaged betel (*Piper betle*) baroj in South Bengal. *Farming and Management*, 5(2), 91-100.

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Publications in the year 2023

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1. Bhattacharya, S., Saha, T., Das, P., Sarkar, S., Koley, S., Bhattacharjee, S., ...& Chakraborty, A. J. (2022). Aromatic plants: Role and uses in human prosperity and sustainability. *The Pharma Innovation Journal*, SP-11(5): 341-358.

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1. Bhattacharjee, S., Das, J. K., Roy, S., & Chakrabarti, S. (2021). Development of a regional climate change perception index based on traditional knowledge base of small- marginal farmers. *Indian Journal of Traditional Knowledge*, 21(1): 198-207

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1. Roy, S., Singh, A. K., Bera, S. K., & Bhattacharya, S. (2020). Land structure and level of fragmentation in typical small-marginal agricultural holdings in India. *The Indian Journal of Agricultural Sciences*, 90(4), 699-703.

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1. Das, J.K., Lairenlakpam, M., Bhattacharjee, S., Saha, M., & Dutta, J. (2019). Assessment of Mid-day Meal (MDM) programme in Coochbehar District of West Bengal. *Indian Journal of Extension Education*, 55(1):153-156.
2. Das, J. K., Bhattacharjee, S., Datta, J., Mazumder, G., & Laskar, T. (2019). Influence of Socio-economic Factors on Empowerment of Farm Women: An in Depth Analysis. *International Journal of Current Microbiology & Applied Sciences*, 8(7), 967-977.

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Publications in the year 2021

1. Sarkar, S. & Dasgupta, B. (2021). Present scenario of research on diseases of medicinal plants with special emphasis on leaf spot disease of Ashwagandha [*Withania somnifera* (L.) Dunal] caused by *Colletotrichum gloeosporioides*. *Journal of Mycopathological Research*, 59 (2): 103-115.

Book Chapter Publications

Publications in the year 2024

Department of Agronomy and Agroforestry

1. Mondal, T. K., Das, P., Bhattacharjee, S. (2024). Sustainable Agronomic and Soil Management Practices for Mitigation of Soil Salinity in the Coastal Region. In book: Advances in Modern Agricultural Practices ISBN: 9788119006953 New Delhi Publishers
2. Dutta, S., Mukherjee, B. and Sawarkar, A. (2024). Enhanced Agricultural Productivity Using Hydroponics Technique: A Smart Farming System. In book: Irrigation-New Perspectives. Intech Open Publishers. DOI: <http://dx.doi.org/10.5772/intechopen.112780>. ISBN :978-1-83769-057-1.
3. Maitra, S., Bhattachaya, U., Pramanick, B., Sagar, L., Gaikwad, D., Pattanayak, S., Sairam, M., Sahoo, U., Jatav, H.S., Gitari, H.I., Shankar, T., Kandileri, A.M., Chiyaneh, E.R. and Hossain, A. (2024). Agroforestry: A resource conserving technology for efficient utilization of agricultural inputs, leads to Food and Environmental Security. In Book: 'Agroforestry to combat Global challenges'. Springer Publication. DOI: <https://doi.org/10.1007/978-981-99-7282-1>. ISBN: 978-981-99-7281-4.
4. Das, P., Goswami, S., Mandal, T.K. and Maitra, S. (2024). Impact of Abiotic Stress on Crops and Management Strategies. In Book: Advances in Modern Agricultural Practices. New Delhi Publishers. ISBN: 978-811-90-0695-3.
5. Maitra, S., Shankar, T.,, Mandal, T.K. and Sarkar, S. (2024). Climate-Smart Millets Production in Future for Food and Nutritional Security. In Book: Adapting to Climate Change in Agriculture-Theories and Practices. Springer Publication. ISBN: 978-3-031-28141-9.

Publications in the year 2023

Department of Agricultural Extension

1. Bhattacharjee, S., Das, J. K., & Kothari, S. K. (2023). DIGITAL AGRICULTURE FUTURE SCOPE FOR SUSTAINABLE DEVELOPMENT. In book: A Compilation of ISTD 6th Eastern Regional Conference Papers - Leveraging Sustainability through Technology for Agile Organization. Learnet Publishing house. ISBN: 978-81-957591-5-6.

Department of Genetics & Plant Breeding

1. Mondal, B. (2023). Integrating Omic Tools to Design Nutraceutically Rich Citrus. In book: Kole, C. (eds) Compendium of Crop Genome Designing for Nutraceuticals. Springer, Singapore. https://doi.org/10.1007/978-981-19-3627-2_35-1

Department of Soil Science and Agricultural Chemistry

1. Manna, T., Saha, S and Chattopadhyay, R. (2023). Millets: Climate Smart Nutritional Reservoir for Next Generations. In book: Advances in Agriculture Sciences, 43:31-47.

Publications in the year 2022

Department of Genetics & Plant Breeding

1. Mondal, B. (2022). Development of Ionome (Salt-Omic) for the Varietal Improvement and Food Security of the Coastal Region of India. In book: *Transforming Coastal Zone for Sustainable Food and Income Security: Proceedings of the International Symposium of ISCAR on Coastal Agriculture, March 16–19, 2021* (pp. 57-71). Cham: Springer International Publishing.
2. Saha, S., Chattopadhyay, R., & Kothari, S. K.(2022). Advances in Breeding Strategies: Sesame (*Sesamum indicum* L.).

Department of Agricultural Economics & Statistics

1. Pal, S. (2022). Determining the Role of Rural Women in Decision Making Related to Farm Activities in Burdwan, West Bengal, India. In Book: *Current Aspects in Business, Economics and Finance*, 5 (pp. 1-14).

Department of Agronomy and Agroforestry

1. Jena, J., Maitra, S., Hossain, A., Pramanick, B., Gitari, H. I., Praharaj, S., ...&Jatav, H. S. (2022). Role of legumes in cropping system for soil ecosystem improvement. In book: *Ecosystem Services: Types, Management and Benefits*. Nova Science Publishers, Inc, 415.

Department of Plant Pathology

1. Islam, S., Ali, M., Banerjee, A., Shah, M. H. & Rahman, S. K. S. (2022). *Moringaoleifera* under Stressful Conditions.

Publications in the year 2021

Department of Plant Pathology

1. Sarkar, S. & Bhattacharya, S. (2021). Chemistry & Biochemistry of Aroma & Flavor. In book: *Aromatic Plants*. ISBN: 978-1-53619-322-0.

Department of Horticulture and Food Science

1. Manjunath, K. V., Das, S., & Bhattacharya, S. (2021). Recent Advances in the hybrid production of *Solanum Melongena* L. In book: *Solanum Melongena: Production, Cultivation & Nutrition*, ISBN: 978-1-68507-311-4.
2. Sarkar, S., & Bhattacharya, S. (2021). Chemistry and Biochemistry of Aromatic and Flavor. Nova Science Publisher. In book: *Aromatic Plants*. ISBN: 978-1-53619-322-0. Page: 333-356.

Book Publications

Publications in the year 2024

Department of Plant Pathology

1. Sarkar, S., Mondal, M. & Banerjee, A. (2024) Diseases of Field and Horticultural crops and their Management-II. Kalyani Publication. ISBN: 9789355408426

2. Banerjee, A., Mondal, M. & Sarkar, S. (2024). Keynotes of Diseases of Field and Horticultural crops and their Management-II. Kalyani Publication. ISBN:9789355407269.

Publications in the year 2023

Department of Plant Pathology

1. Mondal, M. & Sarkar, S. (2023). Diseases of Field and Horticultural crops and their Management-I, Kalyani Publication, ISBN: 9789355403339

Division of Fisheries

List of Journal Publications

Publications in the year 2024

1. Bardhan, A., Abraham, T. J., Das, R., & Patil, P. K. (2024). Unraveling florfenicol's effects on splenic histology, erythrocytes, and hematology of healthy *Oreochromis niloticus* juveniles. *Applied Research*.
2. Karmakar, S., Prakash, B., Bhattacharjee, S., Jana, A., & Mandal, S. (2024). Enhancing sustainable aquaculture production through Periphyton-based practices. *International Journal of Advance Biochemistry Research*, 8(4S):364-366.
3. Chhaba, B., Goud, E. A., Das, S. A., Karmakar, S., Rout, S. K., & Kachave, V. C. (2024). The effects of Tulsi and marigold as dietary supplement on growth, haematological and biochemical parameters in *Labeo rohita* (Hamilton). *International Journal of Advance Biochemistry Research*, 8(4):135-143.

Publications in the year 2023

1. Bardhan, A., & Murthy, H. S. (2023). Insights into gill histology and erythromorphological alterations in juvenile *Oreochromis niloticus* under acute salt exposure. *The Pharma Innovation*.
2. Rao, B. M., Pinto, N., Sudhan, C., Chennuri, S., Pathak, V., Balakrishna, C., ...& Sudhakar, O. (2023). Report of blended vertebral deformity in the caudal region of narrow-barred Spanish mackerel, *Scomberomorus commerson* (Lacepede, 1800), from India: A case study. *Indian Journal of Geo-Marine Sciences*, 52(06), 300-306.
3. Ram, R., Iqbal, G., Singh, J., Ranjan, D., Pathak, V., Kumar, S., & Mohanty, A. (2023). RNA sequencing: A technique for advancing the field of fish genetics and breeding. *The Pharma Innovation Journal; SP-12*(11): 391-394.
4. Bardhan, A., & Abraham, T. J. (2023). Unravelling the fate of florfenicol and its transformation products in the aquatic ecosystem: A review. *Indian Journal of Animal Health*. 62 (2), 00523.
5. Bardhan, A., Abraham, T.J., Das, R., & Patil, P.K. (2023). Visualization of poikilocytosis as an emerging erythrocytic biomarker for fish health assessment. *Animal Research and One Health*. 1-22.

6. Biswas, A., Bardhan, A., Mukherjee, D., Sanyal, K. B., Dash, G., Abraham, T. J. (2023). Study on the density and identification of gut bacteria from Nile tilapia (*Oreochromis niloticus*, Linnaeus, 1758) cultured in biofloc system at West Bengal, India. *Advances in Bioresearch*, 14 (6), 71-77.
7. Biswas, A., Bardhan, A., Mukherjee, D., Sanyal, K. B., & Dash, G. (2023). A novel risk-based quantifiable approach to biosecurity measures in biofloc units of West Bengal, India: Implications for consumer safety. *Journal of Environmental Informatics Letters*, 10 (1), 32-39.

Publications in the year 2022

1. Pathak, V., Bhutia, R. N., Chennuri, S., Kumar, R., Bhushan, S., Deshmukhe, G., & Jaiswar, A. K. (2022). Dharamtar estuary: Unexplored ichthyofaunal diversity, a thrust area for diversity conservation. *Indian Journal of Geo-Marine Sciences*, 51(11), 891-899.

List of Book Chapter Publications

Publications in the year 2023

1. Bardhan, A., Ankuria, A., Biswas, A., & Das, A. (2023). Aquaponics: A revolutionary concept. In: *Green Technologies for Sustainable Agriculture*. ISBN 978-81-7622-549-6.

School of Health Science, The Neotia University

List of Journal Publications

Medical Radiology Imaging Technology Department

Publications in the year 2024

1. Rana, D., Jain, A., Sarin, M., & Ganie, K. (2024). Sonographic Measurement of Normal Liver and Spleen Dimensions In: The Paediatric Population Age Group Between 5-15 Years of A Rural District In Haryana. *Educational Administration: Theory and Practice*, 30(2), 433-443.

Bio Medical Lab Technology

Publications in the year 2023

1. Mukherjee, S., Mukherjee, D., & Singh, W. S. (2023). Incidences and classification of medication errors-a case study. *Romanian Journal of Medical Practice*, 18(4).

Publications in the year 2022

1. Biswas, S., Adhikari, S., Chawla, R., Maiti, N., Bhatia, D., Phukan, P., & Mukherjee, M. (2022). Artificial intelligence enabled non-invasive T-ray imaging technique for early detection of coronavirus infected patients. *Informatics in Medicine Unlocked*, 32, 101025.

Publications in the year 2021

1. Biswas, S., Sen, D., Bhatia, D., Phukan, P., & Mukherjee, M. (2021). Chest X-Ray image and pathological data based artificial intelligence enabled dual diagnostic method for multi-stage classification of COVID-19 patients. *AIMS Biophysics*, 8(4).

2. Biswas, S., Chakraborty, C., Chawla, R., Paul, D., Sen, D., Sarkar, N., & Mukherjee, M. (2021). A pragmatic approach for detecting nCOVID-19 using pervasive computing based on dual diagnostic measures. *International Journal of Statistics in Medical Research*, 10, 183-193.
3. Biswas, S., Sen, D., Bhatia, D., & Mukherjee, M. (2021). COVED: a hardware accelerated soft computing enabled intelligent value Chain based diagnostic automation for nCOVID-19 estimation and identification. *International Journal of Statistics in Medical Research*, 10, 146-160.
4. Biswas, S., Sen, D., & Mukherjee, M. (2021). In-Silico Studies of Alzheimer's Disease Affected Brain Using a Novel Terahertz Thermography Technique. In *Advances in Medical Physics and Healthcare Engineering: Proceedings of AMPHE 2020* (pp. 311-318). Singapore: Springer Singapore.
5. Biswas, S., Sen, D., Mahajan, R., & Mukherjee, M. (2021, March). A Dual Diagnostic Measure driven pragmatic approach for nCOVID-19 Detection by Pervasive Computing. In *2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)* (pp. 158-164). IEEE.

Department of Physiotherapy

Publications in the year 2024

1. Baruah, C. H., Agarwal, K., Ballav, R., & Kolar, R. (2024). Prevalence of Musculoskeletal Disorders among Teaching and Non-Teaching Staffs of a Reputed University in West Bengal, *YUGATO*.

Publications in the year 2023

1. Goswami, H., Das, D., & Kumar, D. (2023). Evaluation of Efficacy of Medicinal Plant Supplementation Strategy Against Anemia. *Journal for ReAttach Therapy and Developmental Diversities*, 6(10s), 1819-1826.
2. Das, D., & Goswami, H. (2023). Exercise Capability with Total Body Fat Percent & Skeletal Muscle Percent in Male Students aged 18 - 25 Years: A Correlational Study. *Journal for ReAttach Therapy and Developmental Diversities*, 6 (9s): 1856-1871.
3. Sharma, D., & Sadhu, S. (2023). Efficacy of Kinesio taping on the Functional Performance in Healthy Cricketers, *Journal for ReAttach Therapy and Developmental Diversities*, 6(9s).
4. Sharma, D., Baruah C. H. (2023). Effectiveness of Pilates exercises vs Biofeedback exercises on the Dysmenorrhoea, *Journal for ReAttach Therapy and Developmental Diversities*, 6(9s). Doi: [https://doi.org/10.53555/jrtdd.v6i9s\(2\).2356](https://doi.org/10.53555/jrtdd.v6i9s(2).2356)

Department of Applied Psychology
Publications in the year 2023

1. Santosh, S., & Kundu, P. S. (2023). Cognitive self-efficacy in schizophrenia: Questionnaire construction and its relation with social functioning. *Industrial Psychiatry Journal*, 32(1): 71-77.

Hospital Management
Publications in the year 2020

1. Sarkar, N. (2020). Patient Safety Culture and Practice at a Super-Specialty Hospital in India. *American Journal of Medical Quality*, 36(4), 294-295.

List of Book Chapter Publications

Publications in the year 2023

Department of Medical Laboratory Technology

1. Bag, C. (2023). Tumor Markers in Clinical Practice: An Overview & Concept. In: *Advanced Studies in Multidisciplinary Research*. ISBN:978-93-92804-91-5. 01-09.
2. Bag, C. (2023). A Contemporary Study on Some Important Staining Techniques. In: *Research Trends in Microbiology*. ISBN: 978-93-88901-69-7. 52-57.

Publications in the year 2021

Department of Medical Laboratory Technology

1. Biswas, S., Prasad, A. K., Sen, D., Bhatia, D., & Mukherjee, M. (2021). Comparative Study on Predictive Mathematical Models for Risk Assessment of nCOVID-19 Pandemic in India. In *Advances in Medical Physics and Healthcare Engineering: Proceedings of AMPHE 2020* (pp. 393-404). Springer Singapore.

List of Book Publications

1. Elango, T., Bhat, Z. A., Kar, S. K., Mulla, H., Mishra, N., Das, S., Priyadarshini, A., Mahapatra, S., Kumar, R., Garg, A., Shakya, P., Mukherjee, S., Jadhav, G., Kulkarni, S. P. & Farooque, M. (2024). *Futuristic Trends in Medical Sciences*. ISBN: 978-93-6252-179-8

School of Legal Studies, The Neotia University

List of Journal Publications

Department of Law

Publications in the year 2023

1. Chakraborty Dhar, P., Rani, S., & Dubey, A. (2023). Impact of Digitalization on Human life: In the Prospects of Law. *The Ciência&Engenharia - Science & Engineering Journal*, 11(1): 2189-2194.
2. Chakraborty Dhar, P., & Misra, B. (2023). The Efficacy of Doctrine of Precedent: A Comparative Analysis of the Common and Civil Law Countries. *Indian Journal of Law and Justice (IJLJ)*, 14 (02), 217-231.
3. Paul, A., & Sarkar, U. (2023). Analysis of Rights Accorded to Same-Sex Couples in India and Comparative Jurisdictions. *Anvesak*, 53(02) (I):106-112.

4. Paul A. & Sarkar U., (2023). Cyber Threats to Fintech Industry: An Investigation. *Journal of the Oriental Institute*, 72(03):64-71.
5. Jha A. & Rituraj, A. (2023). Case Comment – X V. Principal Secretary, Health and Family Welfare Dept, Govt. of NCT of Delhi & Anr. Special Leave Petition (Civil) No 12612 of 2022. *CMR University Journal for Contemporary Legal Affairs*, 5(1) 315-324.

Publications in the year 2022

1. Singh, R. K., Dhar, S. (2022). Role of Various E-Commerce Entities under the Consumer Protection Act, 2019 and the Consumer Protection (E-Commerce) Rules, 2020: A Jurisprudential Insight. *CPJ LAW JOURNAL*, XII:41-51.

Publications in the year 2021

1. Singh, R. K., Dhar, S. (2021). Human Resource Issues and Corporate Governance: A Social and Humanitarian Approach. *CPJ Law Journal*, XI:49-53.
2. Dhar Chakraborty, P. (2021). Executive Power to Undo Punishment vis-à-vis Doctrine of Precedent. *Indian Journal of Law and Justice*, Vol. 12 No. 2: 182.
3. Dhar Chakraborty, P. (2021). Judiciary: A better statutory Armor to combat the evil of Gender Discrimination. *International Journal of Research and Analytical Reviews (IJRAR)*, Vol. 8 Issue 2: 129.

List of Book Chapter Publications

Publications in the year 2024

1. Jha, A. (2024) Legal Curbs on Advertisements of Alcoholic Beverages in Media. In: *English Language Teaching, Media, and Communication Studies*. Enova Publishers. ISBN:978- 93- 91467- 85-2. Pp – 80-90.
2. Dhar, S. (2024). Bilingual Teaching for Law Students in India: An Analysis of Learning Law in English and Regional Languages. In: *English Language Teaching, Media, and Communication Studies*. Enova Publishers. ISBN:978- 93- 91467- 85-2. Pp – 58-66.

Publications in 2022

1. Dhar, S., (2022). Controlling Media Through Ethics And Law: A Study Through Codes, Statutes And Judgment, In: *English Language Teaching, Media, And Communication Studies*. Upanayan Publishers. ISBN: 978-93-91467-85-2. Pp – 101-109.
2. Singh, R. K., Dhar, S. (2022). Jurisprudential Insights of The Fugitive Economic Offenders Act: An Effective Apparatus For Prevention Of Economic Offences In India, In: *Crime Prevention And Crime Control: An Indian Perspective*. Thomson Reuters. ISBN: 978-93-93702-10-4. Pp – 222-232.

Publications in 2021

1. Chakraborty Dhar, P. (2021). The Concept of 'Protected Groups' under the Genocide Convention in International Law: An Analysis, In: *Changing Dimension of International Criminal Law*. NB Publications. ISBN: 978-93-89234-68-8. Pp – 251-263.

List of Book publications

Publications in the year 2024

1. Dhar, S. (2024). Legal Studies - Textbook for CBSE Class 11. Oswal Publishers. ISBN - 978-81-19962-64-8.
2. Singh, R.K., Dhar, S. (2024). Complete Guide For LL.M. Entrance Examination. Vinod Publications. ISBN – 978-93-95939-91-1.
3. Rai, M.K., Bhadauria, S., Srivastava, A. Cyber Crime: Law and Practice, Lambert Academic Publishing. ISBN- 9786207-650750.
4. Bhadauria, S., Srivastava, A. A Commentary on the Media Regulation over the Online Streaming, Scholars' Press. ISBN- 9786206 771371.

Publications in the year 2023

1. Dhar, S. (2023). Legal Studies - Textbook for CBSE Class 12. Oswal Publishers. ISBN - 978-81-19962-64-8.
2. Singh, R.K., Dhar, S. (2023). Legislation and Legislative Drafting. Lexworth, Gogia Publications. ISBN - 978-93-91088-52-1.
3. Singh, R.K., Dhar, S. (2023). Women and Criminal Law. Vinod Publications. ISBN - 978-93-91088-88-0.

Publications in the year 2022

1. Singh, R.K., Dhar, S. (2022). Drafting, Pleading and Conveyancing. Vinod Publications. ISBN - 978-93-91088-81-1.
2. Singh, R.K., Dhar, S. (2022). Legal Methods, Legal Language and Legal Writing (Book) Vinod Publications. ISBN - 978-93-91088-74-3.
3. Singh, R.K., Dhar, S. (2022). Understanding Law (Useful for Engineering, Management, and all Allied Courses). Lexworth, Gogia Publications. ISBN - 978-93-91088-50-7.
4. Singh, R.K., Dhar, S. (2022). Professional Ethics, Accountancy for Lawyers and Bar-Bench Relation. Lexworth, Gogia Publications. ISBN - 978-93-91088-94-1.
5. Singh, R.K., Dhar, S. (2022). Legal Research Methodology. Vinod Publications. ISBN - 978-93-91088-06-4.
6. Singh, R.K., Dhar, S. (2022). Local Self Government Including Panchayat Administration. Lexworth, Gogia Publications. ISBN - 978-93-91088-72-9.

7. Singh, R.K., Dhar, S. (2022). Media Law. Vinod Publications. ISBN - 978-93-91088-73-6.
8. Singh, R.K., Dhar, S & Singh, S. (2022). Insurance Law. Lexworth, Gogia Publications. ISBN - 978-93-91088-50-7.
9. Singh, R.K., Dhar, S. (2022). Law relating to Immoral Trafficking. Vinod Publications. ISBN - 978-93-91088-23-1.

Publications in the year 2021

1. Singh, R.K., Dhar, S. (2021). Decoding Women & Law (With Special Reference to Sexual Harassment of Women at Workplace) Vinod Publications. ISBN - 978-93-91088-00-2.

School of Hospitality & Culinary Art, The Neotia University **List of Journal Publications**

Department of Hospitality Administration & Culinary Art and Department of Culinary Art & Hotel Administration

Publications in the year 2023

1. Das, S. (2023). Attributional and Substantial Assessment of Comestible Product for Sustainable Development in Hospitality Industry. 11(1), 2454–2462.
2. Ghosh, R., Mitra, K. & Chatterjee, A. (2023). Competency in English Communication: Importance In 5-Star Hotels of India. *Indian Journal of Psychology*.
3. Das, A., & Sharma, U. (2023). Study of Career Perception of Hotel Management Students after undergoing aninternship. *Shodh-Prabha*.
4. Ghosh, R., Mitra, K., Chatterjee, A., & Chaudhury, S.R. (2023). Studies on The Family’s Contribution in Generating Competencies in English Communication: Understanding Employment Opportunities Amongst Hospitality Students in India. *Journal of Indian School of Political Economy*. 35(09).

List of Book Chapter Publications

Publications in the year 2024

Department of Hospitality Administration & Culinary Art and Department of Culinary Art & Hotel Administration

1. Das, A. & Sharma, U. (2024). Training and Development Practices in Indian Hotel Industry: A Critical Study. In: *Sustainable Development Goal and National Education Policy 2020*. ISBN: 9789355946591.

Publications in the year 2023

Department of Hospitality Administration & Culinary Art and Department of Culinary Art & Hotel Administration

1. Chatterjee, A. (2023). Digital Tourism- 2023 & Forward. In: *Proceedings of the International Seminar on Digital Innovation in Business & Finance: Emerging Trends and Potentials*. ISBN: 978-81-962550-0-8.
2. Ghosh, R. (2023). Digital Innovations in Hospitality Industry and it's Effects on Employability. In: *Proceedings of the International Seminar on Digital Innovation in Business & Finance: Emerging Trends and Potentials*. Published by-PG Department of Commerce & Research Centre, Bharata Mata College, Thrikkakara, Kochi. ISBN/ISSN number of the proceeding:978-81-962550-0-8.

School of Humanities, Management & Social Studies, The Neotia University **List of Journal Publications**

Department of English

Publications in the year 2024

1. Chakraborty, S. & Mitra, K. (2024). A Description of Bengali Equivalents of English Sentences with 'be' and 'have' as the Main Verbs in the Present Tense: Teaching such Sentences to Non-native Learners who know English. *Jadavpur Journal of Languages and Linguistics*, 6(1), 186-194.

Department of Management

Publications in the year 2024

1. Upasana, Rani, S., Chakraborty, S., & Khalid, S. (2024). Education Policies: Academic Growth in Hospitality Education. *Educational Administration: Theory and Practice*, 30(5), 1946-1949.

Publications in the year 2023

1. Gupta S, Upadhyay S., & Ahmad M. (2023). Impact of Religious Tourism: An analysis of Socio Economic perspective of Dakhineshwar, Kolkata. *Third Concept*, 36(432).
2. Rani, S., Charan, K., & Mandal, A. (2023). Impact of Non- Store Retailing in Indian Economy. *The Ciência&Engenharia - Science & Engineering Journal*, 11(1): 1305 - 1310 1305.
3. Chakraborty Dhar, P., Rani, S., & Dubey, A. (2023). Impact of Digitalization on Human life: In the Prospects of Law. *The Ciência&Engenharia - Science & Engineering Journal*, 11(1): 2189-2194.
4. Ghosh, A., Sarkar, N., Ganguly, A., & Banerjee, S. (2023). Modeling Customer Satisfaction and Loyalty using Structural Equation Modeling based on Service Quality Measurement in the 10-minutes Online Grocery delivery Industry. *SDM IMD Journal of Management*.

5. Ghosh, R., Mitra, K., Chatterjee, A., & Chaudhury, S.R. (2023). Studies on The Family's Contribution in Generating Competencies in English Communication: Understanding Employment Opportunities Amongst Hospitality Students in India. *Journal of Indian School of Political Economy*. 35(09).
6. Basu, A. K., & Dasgupta, M. (2023). Career Consciousness Among The Urban/Semi-Urban And Rural Students Of West Bengal: A Sociological Study. *Journal of Survey in Fisheries Sciences*, 10(3), 1973-1982.

Publications in the year 2022

1. Ahmad M. (2022). Marketing Strategies of Jio and BSNL in the Telecom Industry with respect to 5G Services in India. *International Journal of All Research Education & Scientific Methods*, 10(8).

Publications in the year 2020

1. Ahmad, M. (2020). Role of insurance for marginalized section of the society. *International Journal of Economics, Business and Human Behaviour*, 1(1), 49-54.

Department of English

Publications in the year 2023

1. Chakraborty, S. & Mitra, K. (2023). A Contrastive Analysis of Simple Present Tense in Bengali and English. *Indian Journal of Psychology*.
2. Ghosh, R., Mitra, K. & Chatterjee, A. (2023). Competency in English Communication: Importance In 5-Star Hotels of India. *Indian Journal of Pharmacy*.

Publications in the year 2021

1. Halim, A. (2021). Importance of digital technology in English language learning. *Journal of Linguistics and English Language Teaching*, 1(1), 21-34.

List of Book Chapter Publications

Publications in the year 2024

1. Dasgupta, M., & Basu, A. k. (2024). Digitization of Education in India: A Sociological Study of Rural and Urban College Students of West Bengal. In: *Education Reforms in India*. ISBN: 978-93-91932-44-2, 01-09.

School of Maritime Studies, The Neotia University

List of Journal Publications

Publications in the year 2024

1. Roy, A., & Chakraborty, M. (2024). Effects of ship emissions on Asian haze pollution, health, and IMO strategies. *Societal Impacts*, 3, 100055.

Publications in the year 2023

1. Roy, A., & Pramanik, S. (2023). A review of the hydrogen fuel path to emission reduction in the surface transport industry. *International Journal of Hydrogen Energy*.
2. Roy, A., Pramanik, S., Mitra, K., & Chakraborty, M. (2023). A Novel Approach towards Gas Turbine Emission Reduction by using Neural Networks. In: *IEEE Conference Proceedings*.