Centre of Excellence in Environmental Technology and Management

Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT)

Formerly known as West Bengal University of Technology

Objectives

- **Development of state of art technology for advanced microbial waste water treatment for different types of effluents as well as green technology for environmental sustenance and protection using well characterized tailor made microbial consortium.**
- **Transfer of technology to industry after IP protection to make COEETM self sustainable.**
- **Train man power in the area of advanced microbial waste water treatment and environmental sustenance.**
- **Develop a network of scientists at the national and international level working on the COEETM theme through an interdisciplinary approach.**

MoU with MCC Pune, GIET Gunupur, Biostadt India Limited

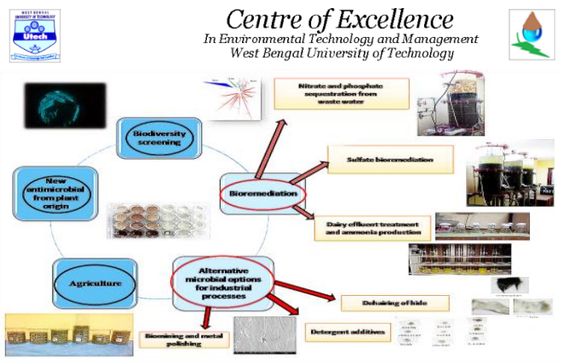
➢Our trained students

Placed at IITs, IISER, Central Universities as scholars

Placed at private Universities as Assistant Professor

Placed as Assistant Executive Head; Environment and Population Research Center (EPRC), Dhaka-1206

1. **Successful technology transfer of waste water fed aquaculture from India to Bangladesh: a case study. (2016) Sufia Khanam, et al; Life Science: Recent Innovation and Research (LS). ISBN: 987-93-84443-53-5; pg: 352-368.**
2. ***Photobacterium leiognathi* cmb_001: New-generation oxygen detection biosensor for environmental quality monitoring. (2016) Sourav Ghosh, et al; In Life Science: Recent Innovations and Research, ISBN: 987-93-84443-53-5, pg: 273-285.**
3. **Quantitative characterization of sulphate reduction data obtained from a biofilm based bioreactor – Part-I (2016) Indranil Mukherjee, et al; In Life Science: Recent Innovations and Research, ISBN: 987-93-84443-53-5, Chapter 6; Pg: 81-102**
4. **Quantitative characterization of sulphate reduction data obtained from a biofilm based bioreactor – Part II (2016) Indranil Mukherjee, et al; In Life Science: Recent Innovations and Research, ISBN: 987-93-84443-53-5, Chapter 7; Pg: 103-120**
5. **Developing tailor made microbial consortium for effluent remediation. (2016) Shaon Ray Chaudhuri, et al; Nuclear Material Performance, ISBN 978-953-51-2448-1, Print ISBN 978-953-51-2447-4, InTech; Chapter 2, pg 17-35.**
6. **Novel microbial system developed from low level radioactive waste treatment plant for environmental sustenance. (2016) Shaon Ray Chaudhuri, et al; In "Management of Hazardous Wastes", ISBN 978-953-51-4764-0. InTech. Accepted**
7. **A polyphasic approach of species identification for genus Bacillus. (2016) Madhurima Ghosh, etal; Life Science: Recent Innovation and Research (LS). ISBN: 987-93-84443-53-5; pg: 227-255.**
8. **Draft genome sequence of an industrially important *Bacillus* sp from Mandarmani coastal waters in Midnapur District, West Bengal, India. (2016) Shaon Ray Chaudhuri; Genome Announcement. Jul-Aug; 4(4): e00867-16. doi: 10.1128/genomeA.00867-16**
9. **Understanding plant microbe interaction on the leaf surface. (2016). Sourav Ghosh, etal. In Life Science: Recent Innovation and Research (LS). ISBN: 987-93-84443-53-5; Chapter 8; pg: 119-149.**
10. **Bacillus sp MCC2138: a potential candidate for microbial degumming of Ramie. (2015) Manjila Gupta, et al; International Journal of Fiber and Textile Research. 5 (3):39-43.**
11. **Impact of silver nanoparticles on benthic prokaryotes in heavy metal-contaminated estuarine sediments in a tropical environment (2015), B Antizar-Ladislao, BD Bhattacharya, S Ray Chaudhuri, S K Sarkar. Marine Pollution Bulletin. 99 (1-2): 104-111.**



➢Our Intellectual Property

- Microbial Consortium for nitrate and phosphate sequestration for environmental sustenance. BD/P/2014/000235, dt 14th Oct 2014.
- Rapid detection of in-vivo sensitivity of a microorganism to an antimicrobial agent dt 3rd Feb 2016 (No. 201631003917)