Faculty Profile

Dr.M.Ajona ,M.E.,Ph.D.,

Assistant Professor (SG)

HIGHLIGHTS:

- Number of Journal Publications :10
- H-Index : 5
- Project Funding Received : Nil
- Patents Published : Nil
- Patents Granted : Nil

PROFESSIONAL LINKS:

- Scopus ID: 57224078000
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=57224078000
- Google Scholar ID: https://scholar.google.com/citations?user=DFFfa8cAAAAJ&hl=en
- Anna University Faculty ID:-
- AICTE Faculty ID: -
- Anna University Supervisor ID:-
- LinkedIn: https://in.linkedin.com/in/ajona-m-73106033a?trk=people-guest_people_search-card

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 14 years 3 months
- Industrial Experience : 1 year 2 months

INTERNATIONAL EXPOSURE: Nil

AREA OF SPECIALIZATION:

Soil Remediation, Hydrocarbon Degradation, Soil microbiology, Recombinant Technology, Waste water treatment, Environmental Impact Assessment, Wastewater Management, and Principles of Treatment Plant Design

Ph.D AWARDED WITH DETAILS: Nil

Ph.Ds GUIDING:

- Full Time Scholars: NA
- Part Time Scholars: NA

PROJECT GUIDED

- B.Tech Projects - 18
- M.E Projects - 23

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- Scheme for Young Scientist & Technologist (SYST). Project proposal submitted in Department of Science & Technology.
- Project proposal submitted to Tamil Nadu State Council for Science and Technology

PATENTS PUBLISHED/GRANTED:

- Patent submitted on the topic Bioremediation of crude oil contaminated soils using Recombinant microbial Strain.

COURSES CERTIFIED:

- Short term training program on Instrumentation Techniques for Environmental Remediation & Hands on Training.

ACHIEVEMENTS AND AWARDS:

- Qualified GATE 2009 examination.
- Reviewer for numerous journals, including Springer, Nature and Elsiever
- Authored for a book in Environmental Science & Disaster Management

SPECIAL SESSIONS DELIVERED:

- Delivered lecture in the RASEM Seminar on soil contamination (March 2023)
- Delivered a Guest Lecture on the topic Biodegradation of crude oil contaminated environment in the Department of Civil Engineering, Tagore Engineering College.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- **M.AJONA**, presented a paper on "Bio-Remediation Technology for the crude oil contaminated Environment," at the Two-day Virtual International Conference on "Recent Advances in Sustainable Construction Technologies and Environment "organized by B.S.Abdur Rahman Crescent Institute of science and Technology on 15^{th}&16^{th} of June 2022.

- Webinar-Improving Research Writing using Grammarly Software", Crescent University, Chennai,2nd June 2022.
- National Webinar-"Environmental Sustainability", organised by SES-RE Cell In Association with NSSSVEC on 5th June, 2021.
- Presented a paper on "Bio-Remediation of crude oil contaminated soil using native microbial strain," at the National Conference on Recent Advances in Science, Engineering and Management" on 5th March 2020 held at Tagore Engineering College.
- Participated in a one-day National Workshop on "Environmental Vigilance on Water and Energy Resources (NEVWER)" conducted by the Department of Civil Engineering, SRM University, Kattankulathur
- FDP - AICTE sponsored one-week online STTP on "Sustainable environment & Material Design, Implementation, and Performance", Chennai.
- Webinar - One day International Webinar on "Green Ecosystem", 2018 at SRM Institute of Science and Technology, Ramapuram Campus, Chennai
- Participated in a one-day Workshop on "Innovative Thinking" conducted by the Entrepreneurship cell in Dr.M.G.R.Educational and Research Institute University, Chennai
- Participated in a two-day National Workshop on "Recent Techniques in Road Safety Management" sponsored by Defence Research & Development Organization (DRDO)
- Participated in a one-day Workshop on "Emerging Trends in Civil Engineering" conducted by Dr.M.G.R.Educational and Research Institute University, Chennai
- Participated in a Technical Workshop on "Disaster Risk Management" Programme at Government College of Technology, Coimbatore organized by the Urban Earthquake Vulnerability Reduction Project.

PROFESSIONAL MEMBERSHIPS:

- Member in International Association of Engineers (IAENG)
  (Membership No. 152072)

OTHER DETAILS (If any):

- Curriculum Development
- Qualitative and quantitative research

- Research designing
- Scientific methodology
- Effective networking

Subjects handled

Environmental Engineering I, Environmental Engineering II, Applied Geology, Basic Remote Sensing and GIS, Industrial waste water, Microbiology, Environmental Impact Assessment, Waste water Management, Municipal Solid waste & Management, Principles & Design of Treatment Plants, Environmental Engineering lab, Environmental and Irrigation Engineering Drawing, Engineering Practices Laboratory.

PUBLICATIONS

- **M.Ajona, B. Kaviya,** An Environmental Friendly Self-Healing Microbial Concrete (International Journal of Applied Engineering Research (2014) 9(22), pp. 5457-5462)
- **M. Ajona, C. Hema**, Planning and Design of an IT Park with Green Building (International Journal of Applied Engineering Research (2014) 9(22), pp.5463-5470)
- **M. Ajona, L. Maria Subashini**, Eco-Friendly Concrete with Rice Husk Ash (International Journal of Applied Engineering Research (2014) 9(22), pp.5471-5489)
- **M.Ajona**, Identification of Native Microbial Strain from Petroleum Contaminated Soil and Degradation Potential Study for Bioremediation"
- **M. Ajona,** Bioremediation of petroleum contaminated soils –A Review.
- **M. Ajona**, Bio-remediation of crude oil contaminated soil using recombinant native microbial strain, Environmental Technology & Innovation **(I.F-6.7)**.
- **M.Ajona,** Biodegradation of P-nitro phenol using a novel bacterium Achromobacter denitrifacians isolated from industrial effluent water" Water Science and Technology (**I.F-2.430**)
- **M.Ajona,** Application of Multiple Linear and Polynomial Regression in the sustainable biodegradation process of crude oil **(I.F-7.1)**
- **M.Ajona**, Geospatial Estimation of Soil Carbon Pool at varied Land types in Ntangki forest range, Nagaland
- **M.Ajona,** FTIR Analysis of inorganic compounds in crude oil contaminated soil treated with recombinant *Pseudomonas guguanensis*