

FACULTY PROFILE



Name : ***Dr.A.Muthu Kumara Pandian***

Designation : ***Assistant Professor***

Department : ***Biotechnology***

DoB : ***20.08.1989***

Age : ***31***

Address : ***160/34, Mangalam Colony, Anna Nagar West, Chennai-40***

Qualification: (highest to Lowest)

Name of the Degree	Specialization/ Branch	Year of Passing	Name of the College / School	Name of the University	%	Class
Ph.D	Chemical Engineering	2017	Annamalai University	Annamalai University	NA	NA
MBA	HR	2015	Annamalai University	Annamalai University	82	First
Dip.	Industrial Safety	2013	Annamalai University	Annamalai University	78	First
M.Tech	Industrial Biotechnology	2013	Annamalai University	Annamalai University	90	First
B.Tech	Biotechnology	2011	St.Joseph's College of Engineering	Anna University	77	First

Awards and Recognitions:

Sl. No.	Name of the Award	Awarding Organisation	Year of Award
NIL			

Experience: (start from recent)

Sl. No.	Name of the Organization	Designation	Period		Experience	
			From	To	Years	Months
1	Vivekanandha College of Engineering For Women	Assistant Professor	01.06.2018	Till Date	3	-
				Teaching	3	-

Industrial Experience:

Sl. No.	Name of the Organization	Designation	Period		Experience	
			From	To	Years	Months
1	Abi Chemicals	Technical Supervisor	2.01.2017	31.05.2018	1	0.5
					1	0.5

Grants Received:

Sl. No.	Title of the Programme	Period	Sponsoring Agency	Amount Sanctioned in Rs
1	Production of Bioplastics from <i>Prosopis juliflora</i>	2018-2019	TNSCST	7500

Journal Publications:

- ❖ **A Muthu kumara Pandian**, B Gopalakrishnan, M Rajasimman, N Rajamohan, C Karthikeyan, “ Green synthesis of bio-functionalized nano-particles for the application of copper removal – characterization and modeling studies”, *Journal of Environmental Research*, 197, 111140, 2021, Elsevier-IF- 5.71 [Scopus]
- ❖ **A Muthu kumara Pandian**, M Rajasimman, N Rajamohan, Sunita Varjani, C Karthikeyan, “Anaerobic mixed consortium (AMC) mediated enhanced biosynthesis of silver nano particles (AgNPs) and its application for the removal of phenol”, *Journal of Hazardous Materials*, 416, 125717, 2021, Elsevier-IF- 9.03[SCIE & Scopus]
- ❖ B Gopalakrishnan, **A Muthu Kumara Pandian**, S Sujatha, S Raja, N Rajamohan, M Rajasimman, “Statistical modeling and optimization of tannery wastewater treatment in a fluidized bed bioreactor with low density biomass support”, *Modeling Earth Systems and Environment*, 7(1), 1-9, 2021, Springer [Scopus]

- ❖ **A Muthu Kumara Pandian**, M.Rajamehala, P. Swetha, S.K. Ajithaa, A. Angumani, “ Review on the biological synthesis and biological applications of iron nanoparticles”, *International Journal of All Research Education and Scientific Methods*, 8(9), 325-331,2020. [UGC]
- ❖ Sathya M.P, Jayachitra S, **A Muthu Kumara Pandian**, “Automatic Ration Distribution System Using IoT with Anti-theft and Anti-spill alarm”, *International Journal of Engineering Research and Applications*, 10(5), 55-59, 2020. [UGC]
- ❖ Vijay Pradhap Singh M, Rajamehala. M, Saveekshana R G, **Muthu Kumara Pandian A**, “Exploration And Impediment Of Corona Outbreak- A Review”, *Journal of Critical Reviews*, 7(18), 3733-3739, 2020. [Scopus]
- ❖ **A Muthu Kumara Pandian**, C Karthikeyan, M Rajasimman , ““Isotherm and kinetic studies on adsorption of malachite green onto chemical mediated synthesis of silver nano particles” .”, *Nanotechnology for Environmental Engineering*, 2, 2017, 1-17. [Springer]
- ❖ **A Muthu Kumara Pandian**, C Karthikeyan, M Rajasimman , ““Isotherm and kinetic studies on nano-sorption of malachite green onto Aspergillus flavus mediated synthesis of silver nano particles” .”, *Environmental Nanotechnology, Monitoring & Management*, 6, 2016, 139-151.[Elsevier]
- ❖ **A Muthu Kumara Pandian**, C Karthikeyan, M Rajasimman , ““Isotherm and kinetic studies on nano-sorption of Malachite Green onto Allium sativum mediated synthesis of silver nano particles”.”, *Biocatalysis and Agricultural Biotechnology*, 8, 2016, 171-181.[Elsevier]
- ❖ **A.Muthu Kumara Pandian**, C.Karthikeyan, M.Rajasimman and M.G.Dinesh, “Synthesis of silver nanoparticles and its application”, *Journal of Ecotoxicology and Environmental Safety*, 121,2015,211-217.Elsevier[Impact Factor: 3.743]

Industrial Consultancy:

Sl. No.	Name of the Consultancy	Name of the Industry	Revenue Generated
NIL			

Patent Obtained: NIL

Conference Publications:

- ❖ Presented a paper titled Nano composites and its future prospects –A Review in National conference on Recent Trends in chemical and Environmental Biotechnology 2020 on 14 & 15 February at Department of Chemical Engineering, Annamalai university.
- ❖ Presented a paper titled Enhancement of Zinc nanoparticles production and its application on Dye in National conference on Environmental and Sustainable Technologies 2020 on 9 & 10 January at Department of Chemical Engineering, Vel Tech High Tech Dr. Rangarajan Dr Sakunthala Engineering College.
- ❖ Presented a paper titled Isotherm and Kinetic studies on Biosorption of chromium (VI) using Aspergillus Oryzae in National conference on Environmental pollution and control

Technologies 2019 on 30 & 31 August 2019 at Department of Chemical Engineering, Annamalai university.

- ❖ Presented a paper titled Isotherm and Kinetic studies on Removal of Phenol using Anaerobic mixed Consortium Mediated synthesized silver nanoparticles in International conference on Recent advancements in Chemical, Environmental and Energy Engineering 2019 on 14 to 15, February 2019 at Department of Chemical Engineering, SSN college of Engineering, Chennai.
- ❖ Presented a paper titled Isotherm and Kinetic studies on Removal of copper using Halimede gracilis Mediated synthesized silver nanoparticles in National conference on Recent advances in chemical engineering 2018 on 28 & 29 September 2018 at Department of Chemical Engineering, Annamalai university
- ❖ Presented a paper in CHEMCON 2015 at IIT, Guwahati 27 to 30 December 2015.
- ❖ International conference on Green Technology for Environmental Pollution Prevention and Control 2014 on 27 to 29 September at National Institute of Technology ,Trichy

Research Guidance:

Student Name & Reg.No	Course (Ph.D./ M.Phil)	University	Designation & Work place	Full Time/ Part Time	Status
Ms.M.Rajamehala	Ph.D	Annamalai University	Assistant Professor/Biotechnology, Vivekanandha College of Engineering For Women	Part Time	In Progress
Ms.A.Suganya	Ph.D	Annamalai University	Assistant Professor/Biotechnology, Vivekanandha College of Engineering For Women	Part Time	In Progress

Text books/Book Chapter published:

Sl. No.	Name of the Book	Publisher	Authors	Indexing details
1	Biomass Valorization to Bioenergy	Springer	A Muthu Kumara Pandian, G Ganana Vel,S Chozhavendhan, A Archana, M Vijay Pradhap Singh	Scopus

Faculty Development Programme organized (Self Supporting):

Sl. No.	Title of the Programme	Period
NIL		

National / International Conferences Organized:

Sl. No.	Title of the Programme	Role	Period	No. of Participants
NIL				

Value Added Courses Offered For Students:

Sl. No.	Title of the Programme	Period	No. of Participants (Students)
NIL			

Certifications Completed:**Seminars / Workshops / SDPs / FDPs / Industrial Training etc. attended (Last 5 Years):**

Sl. No.	Seminar / Workshop / STTP / SDP / FDP / Conference	Topic / Title	Organized by	Period	
				From	To
1	Workshop	research proposal writing	Department of Biotechnology, VCEW	3.03.2020	4.03.2020
2	Training Program	Design Thinking & Innovations	IIC of MHRD Innovation Cell, AICTE	6.01.2020	7.01.2020
3	Seminar	role of Biotechnology for Environmental Protection in Chemical Industries	TNSCST & Department of Chemical Engineering, Kavery College of Engineering	26.7.2020	27.7.2020
4	Workshop	How to get your Research published in High Impact (Q1) journals	Department of Chemical Engineering, SSN College of Engineering	16.2.2019	-
5	FDP	New Education Policy	Patrician College of Arts and Science	3.5.2021	-
6	STTP	An awareness program – green engineering and concept treatment methods for formars in rural area	Paavai Engineering college, Namakkal	8.11.20	13.11.20
7	FDP	Teaching Learning Pedagogy	TLC, IIT Madras	16.10.19	18.10.19
8	FDP		Department of	17.07.19	21.07.19

		Recent advances in Pollution control and mitigations measures	Biotechnology, Vel Tech High Tech Dr. Rangarajan Dr Sakunthala Engineering College during		
9	Industrial Training	Operations and Supply chain processes of Coconut oil	Marico, Pvt, Ltd,	25.11.19	27.11.19
10	FDP	Emotional Intelligence	ICT Academy	18.07.18	19.07.18

Contributions to the Institute and Outside Institutions:

Sl. No.	Positions held	Details of Contribution	Period
1	Coordinator	Green House Operator Course sponsored by All India Council For Technical Education (AICTE) under Pradhan Mantri Kaushal Vikas Yojna for Technical Institutes Scheme (PMKVY-TI) during the academic year 2019-2020 (Rs.2,55,000)	2019-2020

Membership in Professional Bodies:

S.No.	Name of the Society	Nature of Membership
1	Indian Society for Technical Education [LM129805]	Life Member

Subjects Taught:

S. No.	Name of the Subject
1	Fluid Mechanics & Momentum Transfer
2	Bioprocess Engineering
3	Entrepreneurship
4	BioBusiness
5	Bioethics, Biosafety & IPR
6	Plant Biotechnology
7	Indian Constitution & Universal Human Values
8	Creative Thinking
9	Principles of Management

10	Fluid Mechanics & Momentum Transfer Laboratory
11	Bioprocess Engineering Laboratory

Industry Collaboration & MoU Signed: NIL

Reviewer of Journals:

- ❖ Journal of The Taiwan Institute of Chemical Engineers, Elsevier(Impact Factor: 4.217)
- ❖ Journal of Molecular Liquids, Elsevier(Impact Factor: 5.06)
- ❖ Journal of Environmental Research, Elsevier(Impact Factor: 5.71)
- ❖ Journal of Nanostructure in Chemistry, Springer

Invited Talks:

Sl.	Name of the topic Delivered	Institute Name	Name of the Event	Date of the Event
1	Nanotechnology in Environmental Remediation	Annamalai University	National conference on Recent Trends in chemical and Environmental Biotechnology	14.02.2020