

Faculty Profile

Name : Dr. S KARTHIKEYAN
Designation : Associate Professor
Subject Expertise : Environmental Engineering
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Academic Qualification:

S.No	Degree	Name of the college / University	Year of Completion
1	UG	University of Madras	1998
2	PG	Anna University	2002
3	Ph.D	Anna University	2011

Professional Experience:

S.no	Designation	Organization	From	To
1.	Teacher Trainee	Department of Civil Engineering	30.08.1999	29.08.2002
2.	Lecturer	Centre for Environmental Studies	30.08.2002	30.08.2007
3.	Assistant Professor (Sr.Grade)	Centre for Environmental Studies	30.08.2007	24.06.2012
4.	Associate Professor	Centre for Environmental Studies	25.06.2012	Till Date

Publications:

Journal:

Research Papers Published in International Journals: 2

1. Karthikeyan S and Ranjith P, "Degradation Studies on Anionic and Non-Ionic Surfactants by Ozonation", Journal of Industrial Pollution Control, published by EM International. Vol. 23, Issue 1, pp. 37-42 (2007).
2. Karthikeyan Singaram and Navaneetha Gopalakrishnan, "Effect of Microwaves on Photocatalytic Degradation of Phenol and Cresols in a Microwave-Ultraviolet Reactor", Environmental Engineering and Management Journal, published by "Gheorghe Asachi" Technical University of Iasi, R. (2013).

Research Papers Published in National Journals: 8

1. Karthikeyan S and Navaneetha Gopalakrishnan A, " 'Performance Studies on Filter Press for Dewatering of Bio-Sludge from Sewage Treatment Plant", Journal of the Institution of Public Health Engineers, published by Institution of Public Health Engineers. Issue 3, pp. 23-27 (2006).
2. Karthikeyan S and Visu G, "Performance Analysis of Aerobic Filter with various filter media", Journal of the Institution of Public Health Engineers, published by Institution of Public Health Engineers. Issue 4, pp. 20-24 (2007).
3. Manojkumar V and Karthikeyan S, " Photo-Catalytic Treatment of Indoor Bio-Air Pollutants using Nanometal Oxide", Indian Journal of Air Pollution Control, published by Indian Association for Air Pollution Control. Issue 2, pp. 16-22 (2008).
4. Srithar P, "Adsorption Studies on Phenol Using Gulmohar (Delonix regia) Seed Shell Activated Carbon", Journal of Indian Water Works Association, pp. 74-78 (2010).
5. Karthikeyan Singaram and Navaneetha Gopalakrishnan, "Studies on enhancement of photodegradability of o-cresol wastewater using integrated microwave/UV Photo-catalytic process", Journal of Ecotoxicology and Environmental Monitoring, published by Palani Paramount Publications. Vol. 20, Issue 5, pp. 401-410 (2010).
6. Navaneetha Gopalakrishnan, " A study on development of indigenous integrated microwave-ultraviolet reactor for degradation of p-cresol in aqueous solution", Indian Journal of Chemical Technology, published by niscair. Vol. 18, pp. 458-462 (2011).
7. Navaneetha Gopalakrishnan A, " Degradation of phenol and m- cresol in aqueous solutions using indigenously developed microwave-ultraviolet reactor", Journal of Scientific and Industrial Research, published by NISCAIR. Vol. 70, pp. 71-76 (2011).

8. M.R Ezhil Kumar and S Karthikeyan, "Study on Vertical Profiling of Particulates in Ambient Air Exposure Assessment of Inhabitants in High Rise Buildings and Assessment of AQI in Chennai City", Indian Journal of Environmental Protection, published by Kalpana Corporation. Vol. 35, Issue 5, pp. 395-406 (2015).

Seminar/Conference:

1. Karthikeyan S, Bhaskaran R, Navaneetha Gopalakrishnan A and Subramanian V, "UV Assisted Photodecolorization of Dyes using Micrometer and Submicrometer Fe₂O₃ as catalyst" presented in a International level conference on 4th Asian Aerosol Conference-AAC-2005 , organised by BARC, Mumbai, India .
2. Karthikeyan S and A Navaneetha Gopalakrishnan, "Studies on Sludge Dewatering Using Filter Press" presented in a National level conference on UGC Sponsored National Symposium on Recent Trends in Industrial Waste Management for Sustainable Development, organised by Annamalai University, India from 17-Mar-2004 to 18-Mar-2004.
3. Karthikeyan G and Karthikeyan S, "Evaluation of Biomedical Waste Treatment Facility in Chennai, India" presented in a International level conference on International Conference on Sustainable Solid Waste Management, organised by Centre For Environmental Studies, Anna University, India from 05-Sep-2007 to 07-Sep-2007.
4. Haridass E and Karthikeyan S, "Studies On Reusing Air Conditioner Condensate" presented in a National level conference on 3rd National Conference on Refrigeration and Air Conditioning (NCRAC-2013), organised by IIT Madras, Chennai from 12-Dec-2013.

R & D Activities:

Research:

- **Thrust areas of research**

- Integration of Photocatalytic Methods with other physico chemical methods for wastewater treatment
- Air Quality Monitoring and Control

- **Research scholars**

s.no	Reg. no	Name	Research title	Status
1.	1424119142	C. NIRMALA RANI	PHOTOCATALYTIC DEGRADATION OF PAHS	Ongoing
2.	1414119719	M.R. EZHILKUMAR	AIR QUALITY MONITORING	Ongoing

Consultancy:

1. "Network Analysis for feasibility study in providing Fire Water System to NSSDF ".. Project Cost: 557143.00.
2. "Technical Evaluation Of Adequacy Of Process Design For Expansion Of Effluent Treatment Plant Capacity At Salem Dairy " (October-2010 - November-2011). Project Cost: 193025.00.
3. "Emission analysis and Improvement Measures in m/s K.T.V. Health Food Private Limited Chennai" (December-2012 - February-2014). Project Cost: 424721.00.
4. "Emission Analysis-and Ambient Air Quality Analysis in M/s GRP Limited, SIPCOT, Perunthurai" (January-2015 - April-2015). Project Cost: 350000.00.

Books/Patterns:

"Environmental and Social Impact Assessment" authored by R Pannir Selvam, A Navaneetha Gopalakrishnan and S Karthikeyan and published by SPGS Publishers, Chennai.(2009)

Others:

1. Co Chairman, International level conference titled "International Conference on Climate Change and CO2 Management: Mitigation, Separation and Utilization " conducted by Centre for Environmental Studies, Anna University from 02-Feb-2012 to 03-Feb-2012.
2. Co-ordinator, National level Short Course on "A National Level Training Programme on 'Legal Procedures in Enforcement including Consent Drafting' Sponsored by Central Pollution Control Board, New Delhi, India" from 24-Feb-2003 to 28-Feb-2003.
3. Co-ordinator, National level Short Course on "Training Programme on 'Design and Construction of Sewerage Systems for Various Towns' Sponsored by Tamil Nadu Water Supply and Drainage Board" from 28-Jul-2004 to 31-Aug-2004.
4. Coordinator, National level Short Course on "Seven Days FDTP on 'CE 8506 WATER SUPPLY ENGINEERING' Sponsored by Centre for Faculty Development, Anna University, Chennai" from 10-Jun-2015 to 17-Jun-2015.

Programmes Attended

1. "AICTE-ISTE Sponsored Training Programme on Recent Advances in Wastewater Treatment with Emphasis on Anaerobic and Membrane Technologies" organized by Pondichery Engineering College, India from 16-Dec-2002 to 28-Dec-2002.
2. National level seminar on "Web Resources for R & D Acceleration" organized by Anna University, India from 19-Nov-2003.
3. National level workshop on "Sustainable Landfill Management" organized by CES, Anna University, India from 03-Dec-2003 to 05-Dec-2003.
4. National level seminar on "Emerging Treatment Technologies for High and Medium Strength" organized by Sri Jayachamandra College of Engineering, Mysore, India from 08-Jan-2004 to 09-Jan-2004.
5. National level workshop on "ISO 14001 and Green Purchasing for Manufacturing Industries for Environmental Management Through Business Commitment and Initiatives" organized by CES, Anna University, India from 31-Jan-2004.
6. International level conference on "International Conference on 'Advances in Industrial Wastewater Treatment'" organized by CES, Anna University, India from 09-Feb-2005 to 11-Feb-2005.
7. National level Short Course on "Training Programme on Remote Sensing and GIS applications to Coastal and Marine" organized by IOM, Anna University, India from 05-Sep-2005 to 17-Sep-2005.
8. National level Short Course on "SERC school on Wastewater Management : Recycle and Reuse" organized by IIT Madras, India from 24-Oct-2005 to 28-Oct-2005.
9. National level Short Course on "QIP Short Term Programme on Managing Municipal Solid and Biomedical Wastes for" organized by IIT Bombay, Mumbai, India from 28-Nov-2005 to 02-Dec-2005.
10. National level seminar on "National Seminar on Electrochemical Techniques for Cleaner Environment CLEANTECH 2006 " organized by A.C Tech Anna University, India from 03-Nov-2006 to 04-Nov-2006.
11. National level Short Course on "Training the Trainer programme on Municipal Solid Waste Management" organized by CES, Anna University, India from 18-Dec-2006 to 22-Dec-2006.
12. National level Short Course on "AICTE Faculty Development Programme on Fundamentals of Nanoscience and Nano" organized by Department of Physics, Anna University, India from 18-Jan-2007 to 31-Jan-2007.

13. National level Short Course on "QIP Programme on Recent Advances in Environmental Engineering" organized by NIT Trichy, India from 19-Feb-2007 to 23-Feb-2007.
14. National level workshop on "National Workshop on Sustainable Energy and Sustainable Energy Sources" organized by DEEE, Anna University, India from 09-Dec-2009 to 11-Dec-2009.
15. National level Short Course on "CPCB Sponsored Training Programme on Collection, Storage, Handling and Disposal of Plastic Wastes" organized by CIPET, Chennai, India from 20-Sep-2010 to 24-Sep-2010.
16. QIP Short Term Course on Advances in Wastewater Treatment" organized by IIT Delhi, India from 10-Oct-2011 to 15-Oct-2011.
17. "Faculty Development Programme on 'Instrumental Methods of Analysis'" organized by A.C Tech Anna University, India from 14-Dec-2012 to 21-Dec-2012.
18. National level Short Course on "AICTE QIP Short Term Course on 'Disasters, Environment and Risk Reduction'" organized by IIT Madras and United Nations Environment Programme (UNEP), India from 27-Jan-2014 to 31-Jan-2014.

Invited Lectures

1. Delivered a Lecture on "Social Impact Assessment" in Overseas programme under civilian training programme organized by NITTTR, , Taramani, Chennai (31-Oct-2013).
2. Delivered a Lecture on "Strategic Environment Assessment" in Overseas programme under civilian training programme organized by NITTTR, , Taramani, Chennai (01-Nov-2013).
3. Delivered a Lecture on "Technology Innovations in Managing Water Pollution" in Overseas programme under civilian training programme organized by NITTTR, , Taramani, Chennai (19-Feb-2014).
4. Delivered a Lecture on "Reuse of Water" in Overseas programme under civilian training programme organized by NITTTR, , Taramani, Chennai (20-Feb-2014).
5. Delivered a Lecture on "Environmental Impact Assessment using Remote Sensing Techniques" in PWD Staff Training for Junior and Middle Level Engineers organized by PWD Staff Training Institute, Chennai (24-Jun-2014).
6. Delivered a Lecture on "Enivronmental Pollution, Social Issues and Environment" in Faculty Development Programme on Environmental Science and Engineering organized by Easwari Engineering College, Chennai (22-Jul-2014).