

Dr. Ushakumary E.R.
Associate Professor



Contact Details

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Professional Qualifications

B-Tech	Specialization	Chemical Engineering
	Institute/University	Calicut University
	Year	1992
M-Tech	Specialization	Chemical Engineering
	Institute/University	IIT Chennai
	Year	2004
PhD	Specialization	Environmental Engineering
	Institute/University	CUSAT
	Year	2014

Areas of Interest

: Environmental Engineering, Mass Transfer, Process Design ,
Food and preservatives

Professional Experience

- 2 years industrial experience
- 17 years teaching experience

Responsibilities/Position

- PTA Secretary
- M.Tech staff advisor
- KTU: M.Tech Co-ordinator
- Calicut University : B-Tech Co-ordinator
- Institute Centre of Excellence -Convener
- Research Lab in Charge

Training Details (2014-15 Onwards)

Course Name	Conducted By	Sponsoring Agency	Period	No of days
Formulation of R&D Initiatives for Scientists & Technologists	Engineering staff college of India , Hyderabad	TEQIP II	16-19 Sept. 2014	4
Chemical Engineering Design Aspects	GEC Kozhikode	TEQIP II	17-22 Nov 2014	6
Skill Development Training	ICT academy	TEQIP II	12 -14 Feb 2015	3
Pedagogical training	IIT Chennai	TEQIP II	25-27 May 2015	3
NBA accreditation	ESCI Hyderabad	TEQIP II	15- 18 July 2015	4
Computational modelling of flow processes	GEC Kozhikode	TEQIP II	25 - 28 Nov 2015	3
Design and Engineering	GEC Kozhikode	TEQIP II	3-5 Feb 2016	3
National Workshop on Molecular Characterization Techniques	GEC Kozhikode	TEQIP II	3.08.2016 - 6.08.2016	4
Workshop on MATLAB and SIMULINK	GEC Kozhikode	TEQIP II	13.02.2017 - 15.02.2017	3
International workshop on Energy and Environment	GEC Kozhikode and GEC Kannur	TEQIP II	16.02.2017 - 17.02.2017	2

Publications: Journal/conferences

- Ushakumary.E.R,Madhu.G (2014) "Removal of Cadmium, Chromium , Copper, Lead and Zinc ions by Alisma Plantago Aquatica"
International Journal of Environment and Waste Management,Vol.13,No.1,PP. 75 - 89.
- Narayanan C. Viswanath, P. G. Dileep Kumar , K. K. Ammad , E. R. Usha Kumary (2015) 'Ground Water Quality and Multivariate Statistical Methods ' *Springer International Journal of Environmental processes* pp.347-360
- Rangabhashiyam, S., Selvaraju, N., Raj Mohan, B., Muhammed Anzil, P., Amith, K., and Ushakumary, E.R (2015). "Hydrous Cerium Oxide Nanoparticles Impregnated Enteromorpha sp. for the Removal of Hexavalent Chromium from Aqueous Solutions" *Journal of Environmental Engineering ASCE C4015016-1 to 9*

- Fahad ,Geethu M, Gopika S Kumar, Greeshma S, Hussain M Usha Kumary and K.M.Peethambaran 'Experimental study on production of biodiesel from chicken waste by alkali based Transesterification' 2nd National Conference on systems, Energy and Environment NCSEE 2014, August 1-2, GEC , Kannur.
- Anila John, S.P.Kamble and Ushakumary E.R 'Methylene blue removal using Orange peel and Saw dust- a comparison study' 2nd National conference on Emerging Trends in Engineering (NET 2014) August 29-30 ,GEC Kozhikode.
- Dileepkumar P.G., Ammad K.K, Viswanath C Narayanan and Ushakumary E.R. ' Statistical analysis of quality of water using physico-chemical parameters in various water shed for Calicut city, Kerala, India' 2nd National conference on Emerging Trends in Engineering (NET 2014) August 29-30 ,GEC Kozhikode.
- Gahana Gopal C., Kakasaheb Y Nandiwale, Vijay V Bokade and Ushakumary E.R. 'Esterification of free fatty acids with alcohols using Heteropoly acids' 2nd National conference on Emerging Trends in Engineering (NET 2014) August 29-30,GEC Kozhikode.
- Neeraja and Ushakumary E.R 'Removal of Pb(II) from an aqueous solution using Azadirachta Indica (Neem) leaf powder as an adsorbent' 3rd National conference on Emerging Trends in Engineering (NET 2015) October 30-31 ,GEC Kozhikode.
- Ushakumary E.R and Muhammed Anzil P.K 'Removal of hexavalent chromium using novel Enteromorpha Algae' 3rd National conference

on Emerging Trends in Engineering (NET 2015) October 30-31 ,GEC Kozhikode.

- Sajitha Baby K.,Ushakumary E.R and Sajitha C.M. 'Biosorption of Cu (II) from aqueous solution using seeds of Amaranthus' 3rd National conference on Emerging Trends in Engineering (NET 2015) October 30-31 ,GEC Kozhikode.
- Sreebavya V.S., Ushakumary E.R. and Sajitha C.M. 'Production of ethanol from Duckweed and parameter estimation for fermentation using MATLAB' 3rd National conference on Emerging Trends in Engineering (NET 2015) October 30-31 , GEC Kozhikode.
- Deepak Roy George and, Ushakumary E.R 'CFD simulation of batch reactor using ANSYS Fluent' 4th National conference on Emerging Trends in Engineering (NET 2016) October 7-8 ,GEC Kozhikode.

Project/Consultancy

- Centre for Engineering Research and Development (CERD) seed money project 'Waste water treatment using Natural Adsorbents'.
- Centre for Engineering Research and Development (CERD) student project 'Nutritional & psysicochemical quality of thermally and non thermally pasteurized citrus juice'
- Centre for Engineering Research and Development (CERD) student project 'Production of biodiesel from Chicken wastes'
- TEQIP II seed money project "Detection of pesticides in fresh vegetables and fruits samples using Gas Chromatography - Mass Spectrometry"