GIGI SEBASTIAN ASSOCIATE PROFESSOR



Contact Details

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GEC KOZHIKODE

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Professional Qualifications

B-Tech	Specialization	Chemical Engineering
	Institute/University	Govt. Engg. College Thrissur/ University of Calicut
	Year	1991
M-Tech	Specialization	Plant Design
	Institute/University	NIT Trichy / Bharathidasan University
	Year	1994
PhD	Specialization	Process Control
	Institute/University	IIT Madras
	Year	2013

Areas of Interest

- Process Control
- Process Design
- Environmental Engineering

Professional Experience

• Teaching: 1999 onwards

• Assistant Engineer in Kerala State Pollution Control Board: 1996 -1999

• Design Engineer – Reynolds Engineering Corporation, Mumbai: 1996

• Senior Post Graduate Fellow – CECRI, Karaikudi: 1995

Responsibilities/ Position

- HOD Chemical Engineering
- BOG member, GEC Kozhikode
- Chair Person, M. TECH. Computer Aided Process Design, University of Calicut

Publications

Journals

- 1. S. Gigi and A. K. Tangirala. **Quantification of interaction in multiloop control systems using directed spectral decomposition**. Automatica, vol 49, number 5, May 2013, pages 1174-1183.
- 2. S. Gigi and A. K. Tangirala Quantitative analysis of directional strengths in jointly stationary linear multivariate processes. Biological Cybernetics vol. 103, number 2, August 2010, pages 119-133.

Conferences

- 1. Swetha P. and Gigi Sebastian. Study on drinking water purification using Phyllanthus Emblica (Nelli) and low temperature activated charcoal. Proceedings of NET 2015, Government Engineering College, Kozhikode. pages 194 199.
- 2. Gigi Sebastian, **Process Modeling and Simulation An Introduction**. Proceedings of ETIC 2014, NSS College, Nenmara (UGC sponsored national conference), December 4 -5, 2014, pages 1 -6.

- 3. Nighila V. Paul and Gigi Sebastian, **Modeling and fuzzy control of DME reactive distillation column**, ATCE, Dept. of Chemical Engineering, Govt. Engineering College, Thrissur. 26-28 September 2013, pages 46-51
- 4. S. Gigi and A. K. Tangirala **Reconstructing Plant Connectivity using Directed Spectral Decomposition**. Proceedings of the 8th IFAC Symposium on Advanced Control of Chemical Processes, The International Federation of Automatic Control, Singapore, July 10-13, 2012, pages 481-486.
- 5. S. Gigi and A. K. Tangirala. **Frequency domain quantification of interaction in MIMO systems using directed variance decomposition**. Proceedings of 5th international symposium on Design, Operation and Control of Chemical Processes, PSE Asia, July 25-28, 2010, Singapore. pages
- 6. S. Gigi and A. K. Tangirala. A data-driven method for control configuration in multivariate systems. *Chemference 2009*, (National Conference on Chemical Engineering), 22-23, August 2009, IIT Madras. pages
- 7. S. Gigi and A. K. Tangirala. **Quantification of directed influences in multivariate systems by time-series modelling**. International Conference on Control, Automation, Communication and Energy Conservation (INCACEC 2009), 4-6, June 2009, Kongu Engineering College, Erode. pages