

GIGI SEBASTIAN
Associate Professor



Contact Details

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Professional Qualifications

B-Tech	Specialization	Chemical Engineering
	Institute/University	GEC Thrissur / Calicut University
	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, Design, Environmental Engineering

Professional Experience

- Design Engineer at Reynolds Engineering Corporation, Mumbai
- Assistant Engineer at Kerala State Pollution Control Board

Responsibilities / Position

- UG Dean
- BOG Member
- Student Welfare Committee Convener
- Academic Monitoring Committee Member
- PCRE Lab in-charge

Training Details (2014-15 Onwards)

Course Name	Conducted By	Sponsoring Agency	Period	No of days
Chemical Engineering Design Aspects	GEC Kozhikode	TEQIP II	17-22 Nov 2014	6
Concepts coaching	ICT academy	TEQIP II	12 -14 Feb 2015	3
NBA accreditation	ESCI Hyderabad	TEQIP II	15- 18 July 2015	4
Thermal and structural analysis – A simulation approach	GEC Kozhikode	TEQIP II	4 -6 Nov 2015	3
Computational modeling of flow processes	GEC Kozhikode	TEQIP II	25 – 28 Nov 2015	3
Design and Engineering	GEC Kozhikode	TEQIP II	3-5 Feb 2016	3
Essential Mathematics for Engineers	APJ Abdulkalam Technological University	APJ Abdulkalam Technological University	29.11.2016 - 3.12.2016	5
Workshop onMolecular 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
Workshop on Eye Tracking Applications	GEC Kozhikode	TEQIP II	06.02.2017	1

Publications

- **International Journals**

Publication date	Name , Title of the paper, N/I Journal , pages, year ,also list here the books and monograph	prizes / awards
Aug-10	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 . ISSN: 0340-1200, IF 1.7.	
May-13	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. ISSN: 0005-1098, IF 2.83.	

Conferences

Conference /Seminar /W/s	Name , Title of the paper, Conference / Seminar , venue and date	prizes / awards
2015	SwethaP., Gigi Sebastian, Study on drinking water purification using Phyllanthus Emblica (Nelli) and low temperature activated charcoal, NET 2015, Government Engineering College, Kozhikode, October 30-31 st 2015, pages 194 - 199.	
2014	Gigi Sebastian, Modeling and Simulation – An Introduction, Proceedings of ETIC 2014, NSS College, Nenmara (UGC sponsored national conference), December 4 -5, 2014, pages 1 - 6.	Keynote address
2013	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	
	Gigi Sebastian, Expert Lecture on Basics of MATLAB	

2013	and Control System toolbox , Workshop on MATLAB & SIMULINK and LATEX for Engineers 14.04.13 to 19.04.13 Dept. of Chemical Engineering, Govt. Engineering College, Thrissur.	
2012	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.	
2010	S. Gigi and A. K. Tangirala. Frequency domain quantification of interaction in MIMO systems using directed variance decomposition . Proceedings of 5 th international symposium on Design, Operation and Control of Chemical Processes, PSE Asia, July 25-28, 2010, Singapore.	
2009	S. Gigi and A. K. Tangirala. A data-driven method for control configuration in multivariate systems . <i>Chemference 2009</i> , (National Conference on Chemical Engineering), 22-23, August 2009, IIT Madras.	Best Paper in Control
2009	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. Published in IEEE Explorer	Published in IEEE Explorer