



FACULTY PROFILE FORMAT (Format 3)		
Staff Name	:	Dr.G. SIVAGURUNATHAN
Faculty ID	:	TEC57
Designation	:	Associate Professor
Qualification	:	M.E,PhD.
Teaching Experience	:	24 years
Area of Specialization	:	Process Control and Soft Computing Techniques
Subjects Handled	:	<ol style="list-style-type: none"> <li>1. Control Systems Engineering</li> <li>2. Basic Electrical and Instrumentation</li> <li>3. Industrial Data Networks</li> <li>4. Sensors and Transducers</li> <li>5. Computer Networks</li> <li>6. Transducer Engineering</li> </ol>
Books Published	:	NIL
Journals Published	:	<p><b>International Journals</b></p> <p>1.Shyam Sunder Jha , K. Sudha , Aditya Kumar, Sandeep Sharma ,G . Sivagurunathan, “Implementation of unidirectional control mechanism for DC-DC converters” Journal of Information &amp; Optimization Sciences, Vol. 45 (2024), No. 2, pp. 595–603 DOI : 10.47974/JIOS-1597</p> <p>2.C. Narmadha1 , R. Muthuselvi , P. Somasundari , G. Sivagurunathan , Malini K V , Sathishkannan,” Cloud-based Detection of Malware and Software Privacy Threats in Internet of Things using Deep Learning Approach” SSRG International Journal of Electronics and Communication Engineering, Volume 10Issue4,21-30,April2023</p> <p>3..K. Venkatesan , C. Kamal , M. Jagadeesh Kumar , G. Sivagurunathan,” Modified Evolutionary Programming Method For Solving Unit Commitment Problem With Import And Export Constraints” Eur. Chem. Bull. 2023,12(10), 6544-6556</p> <p>4.G Sivagurunathan, R Kotteeswaran, M Suresh, A Kirthini Godweena,‘Design of centralized controller for multivariable process using MOPSO algorithm’Indian Journal of Science and Technology 14 (26), 2223-2237, (2021) UGC JOURNAL</p>

		<p>5.J. Ramyashree , M.R. Roja, G. Sivagurunathan, R. Kotteeswaran, “ Firefly algorithm based multivariable PID controller design for MIMO proces” International Journal of Engineering &amp; Technology, 7 (2.31) (2018) 41-44.</p> <p>6.G. Sivagurunathan and K. Saravanan, “ PID Controller Parameter Optimization for a Non Linear Spherical Tank System Using an Improved Particle Swam Optimization Technique” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20 (2015</p> <p>7.G. Sivagurunathan and K. Saravanan, “Design and implementation of Controller for a Nonlinear Spherical Tank System using Soft computing Techniques” International Journal of Engineering and Technology (IJET), ISSN : 0975-4024, Vol 6 No 3 Jun-Jul 2014, page 1371-1379</p> <p>8.Ganapathy Sivagurunathan, Kaliannan Saravanan, ‘Evolutionary Algorithms based Controller Optimization for a Real Time Spherical Tank System ‘ Australian Journal of Basic and Applied Sciences, 8(3) March 2014, Pages: 244-254, ISSN: 1991 – 8178.</p>
<b>Conference /Workshop Attended</b>	:	<p>1.1. Sivagurunathan G, Kotteeswaran.R, Suresh.M,” Bat Algorithm based Centralized PI Controller for a Nonsquare Multivariable System with RHP Zeros”, International Conference on Instrumentation and Control Engineering 2019, ICECON2019, NIT, Tiruchirappalli.</p> <p>2.1. Rangasamy K., Sivagurunathan G., Ramraj R.V.,” Performance assessment of MofA based decentralized PI controller of fluidized bed coal gasifier”, 2020 1st IEEE International onference on Measurement, Instrumentation, Control and Automation, ICMICA 2020, DOI : 10.1109/ICMICA48462.2020.9242900</p>
<b>Patent Details</b>	:	<p>1. Automatic Prediction of Corona virus using chest Xray an CT Scan Published on 22/9/2023</p> <p>2. A Method for Lightweight Identity Authentication of Power Internet of Things Sensing Terminals Using Edge Agents for Secure Ciphertext Decryption and Signature Verification Published on 08/11/2024</p>
<b>Funded Project Details</b>		NIL