

**Mr.AJITH.B.SINGH**

Designation : Assistant Professor

E Mail : ajith.b.singh@skct.edu.in

Teaching Experience : 5 years, 10 months

Qualification : M Tech (Control &amp; Instrumentation), BE (EIE)

Special Areas of Interest : Sensor Technology, Process Control &amp; Automation, PLC, Adaptive Control &amp; System Identification.

**Workshops / Seminars / Conferences organized**

Title	Funded By
Workshop on “Recent Trends in Industrial Instrumentation & its Applications”	EIE Association : SIT
AZAADI’70	ICE Association: SKCT

**Continuing Education Programmes**

PROGRAMME	HELD AT
Workshop on “Computerized Diagnosis Via Medical Images Using Artificial Intelligence Techniques”	Kongu Engineering College, Erode.
IEEE sponsored workshop on “Artificial Neural Networks and its Applications”	Kalasalingam University, Krishnankoil.
Faculty Development Program on “Instrumentation & Automation”	Sethu Institute of Technology, Kariapatti.
Faculty Induction Program for freshers.	Sethu Institute of Technology, Kariapatti.
Faculty Development Program on “Process Control”	Kumaraguru college of Engineering, Coimbatore.
Technical Session on “How to start a Research Program”	Sethu Institute of Technology, Kariapatti.
Workshop on “Real Time Simulation using LabVIEW in Process Control”	Sethu Institute of Technology, Kariapatti.
Seminar on “Recent Trends In MEMS & Nano Technology”	Sethu Institute of Technology, Kariapatti.
Training program on “DCS & PLC Overview”	Sethu Institute of Technology, Kariapatti.
Workshop on “Non-Conventional Energy”	DMI College of Engineering, Aralvaimozhi.
Faculty Development Program on “LabVIEW based Digital Signal Processing”	Sri Sowdambika college of Engineering, Aruppukkotai.
Workshop on “Recent Trends in Industrial Instrumentation & its Applications”	Sethu Institute of Technology, Kariapatti.
Short term course on “Modern Pneumatics & Control – Theory & Practice”	NIT, Calicut.

Faculty Development Program on “Process Control and its Applications”	Sri Krishna College of Technology, Kovaipudhur.
Faculty Development Program on “Process Instrumentation & Control”	NIT, Trichy.

<b>Course materials prepared</b>
Process Control
Sensors & Transducers
Biomedical Instrumentation
Industrial Instrumentation
Logic & Distributed Control Systems
Power Plant Instrumentation
Communication Engineering

<b>Paper Publications (Conferences)</b>	
<b>TITLE</b>	<b>CONFERENCE</b>
Ph Neutralisation Using Fuzzy Logic Controller	National Conference on Intelligent Computing & Automation Instruvision 2k10
Identification And Model Based Control Implementation For A Hybrid Tank System	National Conference on Intelligent Computing in Communication and Automation (NCICCA'11)
Fuzzy Controller Implementation for an Industrial Deaerator System	National Conference on Industrial Technology (NCIT'13)
Fuzzy Implementation for Fire tube Boiler	National Conference on Industrial Technology (NCIT'13)
Adaptive Control Implementation for a Stirrer Tank Reactor Process	National Conference on Industrial Technology (NCIT'13)
Fuzzy Controller Implementation for a Deaerator System in power plant	National Conference on Recent Trends in Instrumentation and Control Technology (RCIT'13)
Model Predictive controller for Inter-thermal process	International Conference on Thermal Energy and Environment - INCOTEE 2011
System Identification and Predictive control implementation for a CSTR System	International Conference on Thermal Energy and Environment - INCOTEE 2011
System Identification and Performance Analysis using PID & Adaptive Control for a Hybrid Tank System	International Conference on 'Machine Intelligence Application to Power, Signal Processing, Communication and Control - MIPSCON-2011
System Identification and Performance Analysis using IMC & Adaptive Control for a Hybrid Tank System	International Conference on Intelligent science & Technology - SUNIIST 2011
Implementation of Adaptive and Internal Model Controller for Interactive Heat Exchanger process	International Conference on Artificial Intelligence & Soft Computing - ICAISC 2011
Performance Analysis of Neural network and ANFIS in Brain MR Image Classification	International Conference on Artificial Intelligence & Soft Computing - ICAISC 2011

Model Identification and Adaptive Control Implementation for a CSTH Tank System	International Conference on Recent Advancements in Electrical, Electronics and Control Engineering - IConRAEeCE 2011
Model Identification & Fuzzy Controller Implementation for the Evaporator process in Sugar Industry	International Conference on Electrical Engineering and Computer Science - ICEECS 2012
Intelligent Control Implementation for the Temperature Process in Industrial Boiler	International Conference on Computational Intelligence - ICCI 2013
Model Reference Adaptive Control Implementation for a Stirrer Process	International Conference on Computational Intelligence - ICCI 2013
Fuzzified Control of Industrial Deaerator System in Power Plant	International Conference on Computational Intelligence - ICCI 2013
Identification and realtime Control of a Hybrid tank System through Virtual Instrumentation	International Conference on Green Computing Communication and Electrical Engineering - ICGCCEE 2014
Fractional Order Control and Comparative Analysis of a Hybrid System	International Conference on Intelligent Computing, Communication & Convergence - ICC 2014
Model Identification Adaptive Control (MIAC) For The Evaporator Process In Sugar Industry	IEEE International Conference on Electronics and Communication Systems - ICECS 2016
Identification & FOPID Implementation For Sugar Industry Process	IEEE International Conference on Electronics and Communication Systems - ICECS 2016
Safe Propellant Loading in Pyrotechs Using Virtual Instrumentation	International Conference On Electrical, Electronics, Instrumentation and Computer Communications - EEICC – 2016
SRC For Mobile Room Heating System	International Conference On Electrical, Electronics, Instrumentation and Computer Communications - EEICC – 2016

<b>Paper Publications (Journals)</b>	
<b>TITLE</b>	<b>Journal</b>
Model Identification And Model Reference Adaptive Control Implementation For A Hybrid Tank System	International Journal of Emerging Trends in Engineering and Development (IJETED)
Performance Analysis of Neural network and ANFIS in Brain MR Image Classification	Soft Computing Techniques In Vision Science
Secure Routing in Heterogeneous Wireless Sensor Networks with Intrusion Detection and a Differential Evolution based Thermal Aware Optimization Algorithms	International Journal of Innovative Research In Electrical, Electronics, Instrumentation And Control Engineering
Multicarrier Sinusoidal PWM Technique Based Analysis of Asymmetrical and Symmetrical 3 $\Phi$ Cascaded MLI	International Journal of Advanced Research in Computer and Communication Engineering
Fopid Implementation For Industrial Process	International Journal of Innovative Research In Electrical, Electronics, Instrumentation And Control Engineering
Self-Organizing Map Based Fault Detection and Isolation Scheme for Pneumatic Actuator	International Journal of Innovation and Applied Studies
Fractional Order Control and Comparative Analysis of a Hybrid System	Procedia Computer Science
Propellant Mixing and Loading in Pyrotechs using Virtual Instrumentation	International Journal of Control Theory and Applications

Split Range Control for Mobile Room Heating System	International Journal of Control Theory and Applications
--	--

<b>Book Publications</b>	
<b>TITLE</b>	<b>Publisher</b>
Identification and controller implementation for hybrid tank process	LAP-LAMBERT Academic Publishing