DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY – TRICHY – 15

M.Tech Project Work PHASE – I (2013-15)

S.No	Roll No	Name	Title	Guide
1	202213001	Nishant Koshy Abraham	Development of Control Scheme for Prevention of Thermal Runaway in the Production of Dimethoxy Thiophosphoric Acid (DMTA) in a Semi-Batch Process	Dr. P. Kalaichelvi Associate Professor Department of Chemical Engineering
2	202213002	Sathish Kumar Kudamala	Real Time Modeling and Control of Three Tank Hybrid System	Dr.T.K.Radhakrishnan Professor Department of Chemical Engineering
3	202213003	Parthiban M	Dynamics of Gas-Solid System in Downer Reactor	Dr. J. Sarat Chandra Babu, Head, Associate Professor, Department of Chemical engineering
4	202213004	Jerrin Joseph	Modelling and Identification of Nonlinear Aero Thermal Turbofan Gas Turbine Engine	Dr. M. Umapathy Professor, Department of ICE
5	202213006	Karthic R	Design and Development of Wireless Communication Model for Process Control Application	Dr. K. SRINIVASAN Assistant Professor, Department of ICE
6	202213007	Raj Kumar K. K.	Application of Self-Sensing Methods to SMA Actuated System	Dr. K. Dhanalakshmi Associate Professor, Department of ICE

7	202213008	R.Bhargava	A Case Study on Continuous Up-Flow Stacked Thin Film Bed for Adsorption of Endosulfan: Kinetic Predictions and Break Through Curves for Devising A Sensor	Dr. J. Sarath Chandra Babu Professor and Head Dept. of Chemical Engineering
8	202213010	Ronish Simon	Optimization of Vibration Energy Harvesting Structure With Cavity to Improve the Output Power	Dr.D.Ezhilarasi Assistant Professor Department of ICE
9	202213011	Laji C A	Design of Passivity Based Controller For Longitudinal Train Dynamics	Dr.D.Ezhilarasi Assistant Professor Department of ICE
10	202213012	Indhu B	Gimballed Camera Control for On-Point Target Tracking	Dr.N. Sivakumaran. Assoc.Professor, Dept of I&C NIT, Tiruchirappalli
11	202213013	Munubarthi Kranthi Kumar	Control Schemes in Cement Manufacturing Process	Dr. T. K. Radhakrishnan Professor & Head Department of Chemical Engineering
	202213015	Hituraj Sahu	Design of Controller Using Type-Ii Fuzzy Logic	Dr. A. Ramakalyan Associate Professor, Department of ICE
13	202213017	Rahul Wagde	Artificial Neural Network and Response Surface Methodology for Modling and Optimization of Distillery Waste Water Using Electrocoagulation Process	Dr.M.Arivazhagan Associate Professor Department of Chemical Engineering
14	202213018	Vivek A	Capacitance Based Rotor Blade Tip Clearance Measurement for Gas Turbines	Dr G. Uma Associate Professor, Department of ICE

15	202213019	Vinod Sharma	Nonlinear Modeling of SMA Using RNN With Higher Order Gradient Descent Techniques and its Position Control	Dr. M. Umapathy, Professor, Dept of I&C NIT, Tiruchirappalli
16	202213020	M Narendra Reddy	Realization of Mems Based Seismometer for Lunar Applications	Dr G. Uma Associate Professor, Department of ICE
17	202213022	Anurag Kumar Shukla	Fuzzy Aggregated Multilinear LQR Controller Design for Nonlinear CSTR	Dr. T. K. Radhakrishnan Professor & Head Department of Chemical Engineering
18	202213023	Hemanta Kumar Brahma	Control of Magnetic Levitation	Dr.N. Sivakumaran. Assoc.Professor, Dept of I&C NIT, Tiruchirappalli
19	202213026	Subhash Krishna S	Modelling And Control of Sulphate Ion Removal in Cross Flow Module	Dr.N.ANANTHARAMAN Professor, Department of chemical engineering

DPEC Members

- 1. **Dr. M. Umapathy,** Professor, Dept of I&C Chairman
- 2. **Dr. T. K. Radhakrishnan** Professor & Head, Department of Chemical Engineering Member
- 3. **Dr.D.Ezhilarasi** Assistant Professor, Department of ICE Member

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY – TRICHY – 15

M.Tech Project Work PHASE – II (2013-2015)

S.NO	ROLL NO	NAME	TITLE	GUIDE
1	202213001	Nishant Koshy Abraham	Development of Control Scheme for Prevention of Thermal Runaway in the Production of Dimethoxy Thiophosphoric Acid (DMTA) in a Semi-Batch Process	Dr. P. Kalaichelvi Associate Professor Department of Chemical Engineering
2	202213002	Sathish Kumar Kudamala	Real Time Modeling and Control of Three Tank Hybrid System	Dr.T.K.Radhakrishnan Professor Department of Chemical Engineering
3	202213003	Parthiban M	Design of a Downer Ractor System for Studying Gas- Solid Reactions	Dr. J. Sarat Chandra Babu, Head, Associate Professor, Department of Chemical engineering
4	202213004	Jerrin Joseph	Gain Scheduled LQI Controller for Aero Thermal Turbofan Engine Model	Dr. M. Umapathy Professor, Department of ICE
5	202213006	Karthic R	Modeling of Non-Linear Processes Using Multi-Model Approach	Dr. K. SRINIVASAN Assistant Professor, Department of ICE
6		Raj Kumar K. K.	Design and Control Of Modified Compliant	Dr. K. Dhanalakshmi Associate Professor,

	202213007		Differential SMA Actuator	Department of ICE
7	202213008	R.Bhargava	Modeling Rejection Behavior Of Nickel Ions from Synthetic Waste Water Containing Salts by Nanofiltration of a Membrane	Dr. J. Sarath Chandra Babu Professor and Head Dept. of Chemical Engineering
8	202213010	Ronish Simon	Temperature Measurement and Autocalibration of The High-Density Winding Coils of Electromagnets	Dr.D.Ezhilarasi Assistant Professor Department of ICE
9	202213011	Laji C A	Detection of Longitudinal Cracks in Beam Structures Using Electromechanical Impedance And Frequency Analysis	Dr.D.Ezhilarasi Assistant Professor Department of ICE
10	202213012	Indhu B	Real Time Implentation of Gimballed Camera Control for On-Point Target Tracking	Dr.N. Sivakumaran. Assoc.Professor, Dept of I&C NIT, Tiruchirappalli
11	202213013	Munubarthi Kranthi Kumar	Control of Temperature in Pre-Calciner of Cement Manufacturing Process Using CBA Based Least Squares SVM Modeling	Dr. T. k. Radhakrishnan Professor & Head Department of Chemical Engineering
12	202213015	Hituraj Sahu	A Study on the Design of Controllers for Nonlinear Processes Using Type-Ii Fuzzy Logic	Dr. A. Ramakalyan Associate Professor, Department of ICE
13	202213017	Rahul Wagde	Artificial Neural Network and Response Surface Methodology for Modling and Optimization of Distillery Waste Water Using Electrocoagulation Process	Dr.M.Arivazhagan
14	202213018	Vivek A	Development of Tip Clearance Measurement System for Gas Turbines	Dr G. Uma Associate Professor, Department of ICE

15	202213019	Vinod Sharma	Precision Position Control of Shape Memory Alloy Using Inverse Neural Control and Super Twisting Sliding Mode Control	Dr. M. Umapathy, Professor, Dept of I&C NIT, Tiruchirappalli
16	202213020	M Narendra Reddy	Realization of Mems Based Seismometer for Lunar Applications	Dr G. Uma Associate Professor, Department of ICE
17	202213022	Anurag Kumar Shukla	Fuzzy Aggregated Multilinear LQR Controller Design for Nonlinear Continous Stirred Tank Reactor	Dr. T. K. Radhakrishnan Professor & Head Department of Chemical Engineering
18	202213023	Hemanta Kumar Brahma	Intelligent Control of Secondary Super heater	Dr.N. Sivakumaran. Assoc.Professor, Dept of I&C NIT, Tiruchirappalli
19	202213026	Subhash Krishna S	Modelling And Control of Sulphate Ion Removal in Cross Flow Module	Dr.N.ANANTHARAMAN Professor, Department of chemical engineering

DPEC Members

- 1. Dr. M. Umapathy, Professor, Dept of I&C Chairman
- 2. Dr. T. K. Radhakrishnan Professor & Head, Department of Chemical Engineering Member
- 3. Dr.D.Ezhilarasi Assistant Professor, Department of ICE Member