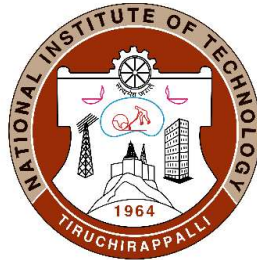


**DEPARTMENT OF
INSTRUMENTATION AND CONTROL ENGINEERING**

**NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI**



M.Tech.

in

INDUSTRIAL AUTOMATION

Batch: 2020 - 2022 (1st Batch)



M.Tech. Industrial Automation

[Registered Students]

Sl.No	Roll Number	Student Name
1.	210120001	Abhishek Kumar
2.	210120002	Amit Kumar Soni
3.	210120003	Amiya Mishra (Discontinued - got job in BARC after Completing 2 nd Semester)
4.	210120004	Aniwesh Singh
5.	210120005	Deepak Kumar
6.	210120006	Devakumar M
7.	210120007	Dhane Swapnil Sanjay
8.	210120008	Dinkar Verma
9.	210120009	Hari Shankar Sharma (Discontinued - got job in IOCL)
10.	210120010	Karthik R Warriar
11.	210120011	Karun Kumar Takhele
12.	210120012	Lokesh Chokhoba Dange
13.	210120013	Manish Kumar
14.	210120014	Maradani Ravi
15.	210120015	Md Imtiyaz Uddin
16.	210120016	Padmanabha B
17.	210120018	Preksha Gupta
18.	210120019	Rajat Jain
19.	210120021	Shanu Sharma
20.	210120022	Suchithra R
21.	210120020	Ravi Kumar Pandey
22.	210120023	S V V S Koundinya
23.	210120024	Vivek Kushwaha

M.Tech. (IA) Students' Thesis

S.No.	Project Title	Roll No.	Name	Guide
1.	Design of Exoskeleton for flexion and extension of finger joints using shape memory alloy.	210120001	Abhishek Kumar	Dr. K. Dhanalakshmi
2.	Development of an automated system for the recognition of movements.	210120002	Amit Kumar Soni	Dr. N. Sivakumaran
3.	Development of capacitive level sensor and interfaced with switched capacitor-based interfacing circuit.	210120004	Aniwesh Singh	Dr. Shiraz Sohail
4.	Volumetric void fraction measurement using image processing technique.	210120005	Deepak Kumar	Dr. B. Vasuki
5.	Soft sensor for parameter estimation in liquid rocket engine.	210120006	Devakumar M	Dr. M. Umapathy
6.	Modelling and control of hydraulic excavator.	210120007	Dhane Swapnil Sanjay	Dr. G. Uma
7.	An active disturbance rejection control (ADRC) strategy implementation for the position and orientation control of quadcopter system for the purpose of trajectory tracking.	210120010	Karthik R Warriar	Dr. K. Srinivasan
8.	Smart inventory management system using AI.	210120012	Lokesh Chokhoba Dange	Dr. R. Periyasamy
9.	A non-contact magnetic coupled telemetry system for passive sensor inside a sealed chamber.	210120014	Maradani Ravi	Dr. Shiraz Sohail
10.	Design and implementation of backstepping controller for twin rotor MIMO system.	210120015	Md Imtiyaz Uddin	Dr. D. Ezhilarasi

11.	Enhancing crisis challenged financial models using ML techniques.	210120016	Padmanabha B	Dr. A. Ramakalyan
12.	Detection of false data injection attack in cyber physical system using machine learning technique.	210120018	Preksha Gupta	Dr. K. Srinivasan
13.	Analysis of facial EMG signal for face computer interface.	210120019	Rajat Jain	Dr. P.A. Karthick
14.	IoT based smart water distribution and monitoring system.	210120021	Shanu Sharma	Dr. N. Sivakumaran
15.	Automated rice crop disease detection using deep learning and IoT.	210120022	Suchithra R	Prof. V. Sridevi

Students who have done project work outside the campus through internship

16.	Design of Inductive position sensor for motor control- Hurst motor.	210120008	Dinkar Verma (Microchip technology(03/01/2022 to 03/07/2022) with Company Stipend)	Prof. V. Sridevi
17.	Productivity forecasting in fish farm with multi model comparison.	210120011	Karun Kumar Takhele	Dr. B. Vasuki
18.	Implementing applications and configuration portability of OPAS.	210120013	Manish Kumar (Modelicon Infotech LLP(10 months, August 09, 2021 to June 09, 2022) with Institute Stipend)	Dr. P. A. Karthick
19.	MIPI-CSI-2 with super speed USB 3.0 for uncompressed streaming.	210120020	Ravi Kumar Pandey STEPS Knowledge Services Pvt Ltd(09/08/2021 to 11/06/2022) with Institute Stipend	Dr. R. Periyasamy

20.	Development of co-simulation environment for simulation and control of unmanned service vehicles.	210120023	S V V S Koundinya (Modelicon Infotech(9th Aug - 9th June) with Institute Stipend)	Dr. K. Dhanalakshmi
21.	Development of electronic horn.	210120024	Vivek Kushwaha CREAT UNO MINDA(23rd August 2022- 5th June 2022) with Company Stipend	Dr. C. Geetha