



Anna University

Department of Instrumentation Engineering

Madras Institute of Technology Campus



Chromepet, Chennai-600044.

Phone Nos: 044- 22516320, 6035 ; Mail Id : hodinstru@annauniv.edu ;

CALL FOR APPLICATIONS – SISEA 2025

(Summer Internship for UG/PG Students in Emerging areas of Automation)

ABOUT THE DEPARTMENT

The Department of Instrumentation Engineering MIT Campus Anna University was established in the year of 1949 and pioneer in offering UG and PG program in Instrumentation Engineering. The core strength of the Instrumentation Engineering Department MIT Campus, Anna University is Process Control & Instrumentation.

HIGHLIGHTS

- Highly qualified faculty members with multi-disciplinary research expertise and significant professional accomplishments, dedicated Faculty and staff members and highly motivated students.
- Well-equipped laboratories with State-of-the-art facilities to impart high quality education and to pursue research.
- Both UG and PG programmes are approved by ACITE and accredited by NAAC ('A' grade (2014-2019)) and UG programme accredited by NBA for 2 consecutive times for 6 years (2016-2022)& (2022-2028).
- **DST - FIST & PURSE / UGC - SAP & UPE Sponsored /TEQIP/ RUSA 2.0. Funded Dept.**
- Collaborative research with Universities and R&D organizations in India and abroad.

Facilities available in the Department of Instrumentation Engineering

13 Major Research cum Curriculum based UG/PG Laboratories

- **Advanced Drives and Machines Laboratory**– **DST PURSE sponsored** - (Houses sophisticated integrated PC based AC/DC drives from Rock well Automation worth 1 crore)
- **Flow Laboratory**– **UGC – SAP – DRS-I sponsored**–(Customized Flow characterization and control valve testing facility worth 1 crore)
- **University for Potential Excellence (UPE) Laboratory** – **UGC-UPE sponsored**– (Programmable System on Chip (PSoC), MSOs &DSOs,High Precision LCR Meter & function generator, Spectrophotometer, Fluorometer etc worth 1 crore)
- **Centre of Excellence in Factory Automation** – **Mitsubishi sponsored** – (Mitsubishi PLCs, 6 DOF Robot with software, SCADA – HMI software worth 1 crore)
- **Control System Laboratory**– **DST- PURSE sponsored** - (4 major mechanical PC based pilot systems namely Inverted pendulum,TRMS, Magnetic levitation, AC/DC servo system from Feedback Instruments, USA worth 50 lakhs)
- **Process Control Laboratory**– **DST – FIST, UGC,DRDO,TEQIP sponsored** - (Tailor made Process Training plants for level, temperature, pressure,flow with industrial Transmitters, Valves and Controllers/ Distillation column/Bioreactor/CSTR etc.)
- **Industrial Automation Laboratory** – **DST – FIST & UGC – SAP sponsored** (Industrial version of DCSs: Emerson – Delta V, Yokogawa – CS3000, Invensys, Siemens IoT Enabled DCS – Simantic PCS 7, SCADA HMI, PLCs: GE –Fanuc, Modicon, Siemens, Omron, Schneider, Mitsubishi, etcwith pilot processes)
- **Embedded System Laboratory**– **TEQIP – AU - Lab Modernization funded** (ARM CORTEX/PIC/RASPBERRY PI /Embedded IoT/Wireless Module/ IDE Platform/Licensed version of Proteus software/etc)
- **Industrial Instrumentation Laboratory** – **DST-PURSE, UGC-SAP, LabModernizationfunded** (Vital Sign Monitor, Loop Calibrator, Light/Sound Meter, Conductivity and pH Analyser, UV – Visible Spectrophotometer, Portable Furnace, Dead Weight Tester, Multiproduct Calibrator, HART communicator with pressure and Temperature Transmitters, Field Instrumentation skid (Endress +Hauser), etc
- **Calibration Laboratory**– **DST-PURSE, UGC-SAP sponsored** (Process Calibrator/High & Low Temperature Calibrator/IR Tester/Thermal Imager/Viscometer and Thermosel/Smart Pressure Calibrator etc)
- **Transducer & Measurements Laboratory**–**DST PURSE – UGC SAP** (Collection of sensors, DAQ cards NI- 6001, 6008, MyDAQ , Compact RIO, ELVIS kit, Analog System Kit, PC based Measurement setup for Strain ,Displacement, Vibration, Temperature etc)
- **Electronics Laboratory** – **UPE -Lab Modernization**(High End MSOs & DSOs – Keysight, ALL-IN-ONE Testbench MOKULAB, Spectrum Analyzers - Rigol, RPS-APLAB, Keithley etc)
- **Electric Vehicle Research Facility** – **RUSA 2.0. Funded**–(Battery Management System, Programmable Electronic Load, Hardware-in-Loop simulator, Embedded Hardware, Data Loggers,EV Test Bench setup, Adaptive Charging unit etc)

Summer Internship to be offered by the Department

S. No	Faculty Detail	2025		
		Topics of internship	No. of Batches	Duration (in Weeks)
1.	Dr N.Pappa, Prof. Email: npappa@rediffmail.com	1.Experimental studies on EV test bench setup.	1	4
		2.Experimental studies on Adaptive charging unit for EV.	1	4
		3.Hardware-in-loop (HIL) realization of soft sensor.	1	4
2.	Dr Sabitha Ramakrishnan, Prof. Email: sabitha.ramakrishnan@gmail.com	1.Wireless communication.	1	2/4
		2. Biomedical Signal processing.	1	2/4
3.	Dr S.Sutha, Prof. Email: sutha_mani@hotmail.com	1.Computer vision- based health care applications.	1	4
		2.Embedded – AI for OTEC Plant.	1	4
		3.Battery thermal management system for Li-ion battery.	1	4
4.	Dr C.Shanthi, Asst Prof Email: cgshanthi@gmail.com	Image- based applications.	1	2
5.	Dr M.Mythily, Asst. Prof Email: mythily_eie@yahoo.co.in	1. Predictive maintenance for ML.	1	2/4
		2.Digital-twin model for system/process.	1	2/4
		3.Sensor failure prediction using ML.	1	2/4
6.	Dr D.Kalpana, Asst. Prof Email:kalpanaspec@gmail.com	AI-based health care applications.	2	2/4
7.	Dr V.Gomathi, Asst. Prof Email: gomathianand31@gmail.com	Fault diagnosis for pilot scale industrial processes.	2	4
8.	Mr.K.Selvakumar, Teaching Fellow Email:selvakumark12782@gmail.com	PLC-based automation for industrial process.	1	4
9.	Dr S.Arockia Suganya, Teaching Fellow Email:arockia.sukanya@gmail.com	Segmentation of dental disorders using Machine Learning and Deep Learning.	1	4
10.	Dr S.Nambi Narayanan, Teaching Fellow Email:vinoth2852@gmail.com	Biosignal processing and control.	1	4
11.	MrS.S.Preamanand, Teaching Fellow Email:sivaanand129@gmail.com	Temperature control for Industrial process.	1	4

General information for candidates applying for Summer Internship Programme.

Students currently pursuing (2nd/3rdYear B.E./ B.Tech)/(1st/2nd Year M.E/M.Tech) in the listed eligible disciplines or equivalent in any AICTE/ UGC approved academic institutions willing to carry out Summer Internship at the Department of Instrumentation Engineering, MIT Campus, Anna University, Chennai in the areas of Electronics, Instrumentation, Control and Automation (on specific topics listed under the faculty member who will be offering the internship as per the Table) using the facility available at the Department may apply for the Internship Programme.

Eligibility :

Programme	Discipline
B.E/B.Tech	EIE/ICE/ EEE/ECE/CSE/AUTO./AIDS/ROBOTICS/Equivalent
M.E/M.Tech	Instrumentation Engg./Control & Instrumentation Engg. /Medical Electronics/Applied Electronics/ Electronics/Biomedical Engineering/Communication Systems/CSE/ Embedded System / Equivalent

Fees:

- i. **Rs.1180/-(Inclusive of 18% GST) for 2 weeks.**
- ii. **Rs.2360/-(Inclusive of 18% GST) for 4 weeks.**

Demand Draft Should be drawn in favour of '**Director, CSRC**' payable at **Chennai**.

Mode: Hybrid (Compulsory 1 week offline for 2 weeks Internship / Compulsory 2 weeks offline for 4 weeks Internship to carry out real time work and remaining period can be offline or online)

Period: 2 weeks/4 weeks duration between **May – July 15th,2025** as per the faculty supervisor concern.

Application Procedure:

1. Interested students may look at the profiles of faculty members of the Institute at the Anna University/ MIT website and contact them directly to get their supervisor consent.
2. Application should be made in the prescribed format as available in MIT, Chennai website with copy of consent mail from the faculty along with fees

payment proof. It must be duly signed, scanned, and submitted through Google form with necessary enclosures before the due date.

Google form Link: <https://forms.gle/3xd3xj2eREZRV86t6>

3. The faculty members will conduct online interviews for the shortlisted candidates and selection will be intimated through the mail.
4. The candidate must confirm their participation once selected and send the hard copy of filled application along with original copy of Demand Draft and all the listed documents mentioned in the application. Kindly mention “**Application for the SISEA – 2025**” on the left-hand top corner of the postal cover and send to the following Postal address:-

**The HoD,
Department of Instrumentation Engineering,
MIT Campus,
Anna University,
Chromepet, Chennai – 600044.**

Important Dates:

Submission of Application with faculty consent along with DD copy: Last date 10th May 2025

Selection confirmation: 13th May 2025

Starting of Internship: Between May to 15th July 2025 (for a period of 2/4 weeks)

Contacts: Please contact your Supervisor from IE/MIT Campus in case you have any queries/doubts etc.

SISEA – 2025
Application Form:

1) Name of the Applicant		Insert Passport size photo		
2) Internship Topic				
3) Duration(Preferred)	2 Weeks : <input type="checkbox"/>	4 Weeks : <input type="checkbox"/>	Starting Date: Ending Date:	
4) Name of the Supervisor from IE/MIT Campus				
5) Name of the Institution				
6) Department				
7) Degree Pursuing with specialization				
8) Year of Study				
9) Gender				
10) Address Details				
11) Contact Details	Mobile No.:	Email id:		
12) Educational Qualification with marks (Starting from 10th onwards and up to last sem completed in UG)				
Examination Passed	Board/University/College	Year	Specialization	%Marks / CGPA /
SSLC				
HSC				
UG (Till completed Sem.)				
PG (Till completed Sem.)				
13) Details of payment made for the Internship fees:				
1. Name of the Bank :				
2. Name of the Branch :				
3. DD Amount :				
4. DD Number :				
14) List of Attachments: 1. Transcripts, 2. Resume, 3. Bonafide Certificate, 4. Identity Card, 5. Proof for payment made				

Place: _____

Date: _____

Signature of the Applicant

Sign and Scan Application: Send It to mitieau@mitindia.edu and submit through Google form before due date with attachments(documents listed in S. No. 14)

Bonafide Certificate

(To be obtained from HOD/Academic Section)

This is to certify that Mr./Ms. _____, a student of this Institution/University studying _____ is nominated to undergo internship at MIT Campus, Anna University, Chennai-600044 from _____ to _____.

Signature: _____

Name: _____

Designation: _____

Name of the Institution: _____

Seal with date