SIEMENS CENTRE OF EXCELLENCE (SCoE),
ANNA UNIVERSITY – MIT CAMPUS,
CHROMEPET, CHENNAI - 600 044.
Email: scoe@mitindia.edu

SCoE-MIT: SUMMER INTERNSHIPS 2023

Ref.No.SCoE-MIT/Internships/Summer 2023 **Date: 12.6.2023**

The Siemens Centre of Excellence (SCoE), MIT Campus, Anna University, is opening up Internship opportunities for students pursuing Degree/Diploma programmes in Engineering. For the current academic year, the internship programme is scheduled in the months of July-August 2023.

To know more about Siemens Centre of Excellence, Click on the following link:
https://www.mitindia.edu/en/research-mit/research-centres/mit_scoe

ABOUT THE INTERNSHIP:

Duration: 2 Weeks / 4 Weeks / 6 Weeks (July-Aug 2023)
Domain: PLC / CAD (Please refer the last two pages of the advertisement for the topics & contents)

MODE OF CONDUCT: Physical Mode with Theory and Lab sessions.

Activity	2 Weeks (10 working days)	4 Weeks (20 working days)	6 Weeks (30 working days)
Theory sessions	Day 1-5	Day 1-7	Day 1-10
Hands-on with Simulation	Day 6-7	Day 8-11	Day 11-15
Hands-on with Implementation	Day 8	Day 12-13	Day 16-18
Project work	Day 6-9 (Simulation)	Day 12-18 (Simulation + implementation)	Day 16-28 (Capstone project)
Assessment (Written Test)	Day 9 FN	Day 19 FN	Day 29 FN
Assessment (Practical)	Day 9 AN	Day 19 AN	Day 29 AN
Project viva	Day 10 FN	Day 20 FN	Day 30 FN
Internship Report Submission	Day 10 FN	Day 20 FN	Day 30 FN
Internship Certificate distribution	Day 10 AN	Day 20 AN	Day 30 AN

TIMINGS: 9.00 AM to 4.00 PM (Monday-Friday)

VENUE: Siemens Centre of Excellence, Madras Institute of Technology Campus, Anna University, Chromepet, Chennai 600044. (Adjacent to Chromepet Railway Station).

Who can apply?

1. Engineering Students who have completed at least 4 semesters of their Diploma / B.E /B.Tech. Programmes from AICTE / UGC recognized institutions are eligible to apply.
2. One student can apply for **ONE** Internship programme only. Multiple submissions by a single student will not be entertained.

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Registration Fee*:

2 Weeks	:	Rs. 1000 + 18% GST
4 Weeks	:	Rs. 2000 + 18% GST
6 Weeks	:	Rs. 3000 + 18% GST

* Registration fee should be paid only after the selection intimation is received by the student. The payment mode will be informed along with the selection intimation.

Selection:

Due to limited availability of seats, selection will be based on merit and number of applications received.

How to apply?

Click on the following link or scan the QR code to apply for the internship programme.

URL	QR Code
https://forms.gle/yBeBjw4P9md33mzq6	

Important Dates:

- Last Date for Submitting the application form : **22/06/2023**
- Selection Intimation by SCoE through Email : **27/06/2023**
- Last Date for payment of Registration fee : **30/06/2023**
- Date of Commencement of the Programme : **03/07/2023**

Accommodation, Transportation & Food:

The registration fee **DOES NOT INCLUDE** transportation, boarding and lodging. The students should make their arrangements at their own cost. Please note that the MIT campus in Chromepet is very well connected with all parts of Chennai city through train and bus facilities. Students can avail the MIT canteen facility from 8.30 am to 5.00 pm at their own expense.

Certificate:

At the end of the Internship Programme, assessment test and internship project viva-voce will be conducted. Students will be provided internship certificate along with grade, based on their attendance, test performance & project outcome.

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Terms and Conditions:

Eligibility: Applicants must meet the eligibility requirements set by the SCoE to participate in the internship programme. These requirements include maintaining a minimum CGPA, or obtaining necessary approvals from academic advisors or departments as mentioned in the advertisement.

Application: Students must submit the application that is complete in all respects. ScoE-MIT reserves the right to reject the applications if they do not conform to the format or if found incomplete.

Selection: SCoE-MIT reserves the right to select interns based on their eligibility, merit and available internship positions.

Registration Fee: The registration fee has to be paid **only after the selection intimation** is received by the applicant. Once paid, the registration fee **will NOT be refunded** to the applicant, at any point of time, for any reason.

Internship Duration: The internship programme commencement date is tentative and is subject to modifications. The selected interns should commit to undergo the full internship programme as per the given schedule.

Assessment and Evaluation: The intern should clear the assessment test, execute project and attend the internship viva conducted by a committee of subject experts.

Code of Conduct: The intern must to abide by the code of conduct laid down by ScoE, Anna University.

Termination: ScoE-MIT reserves the right to terminate the internship programme of an intern at any time in case of any misconduct, violation of Anna University guidelines or failure to meet the internship programme requirements.

IMPORTANT INSTRUCTIONS:

Applicants are advised to read and understand the above terms and conditions before submitting their internship applications. Please email to scoe@mitindia.edu for queries, if any.

CONTACT PERSONS:

Sl. No.	Name & Designation	Role in ScoE-MIT	Contact details
1	Dr. Sabitha Ramakrishnan Professor	Nodal Officer	Email: rsabitha@annauniv.edu Mobile: 9789977989
2	Dr. K. Mariammal Associate Professor	Deputy Nodal Officer	Email: mariammal@annauniv.edu Mobile: 7358064510
3.	Mr. S. Sunil Assistant Professor	Deputy Nodal Officer	Email: ssunil@mitindia.edu Mobile: 9791019498
4.	Mr. L. Prabakaran Professional Assistant - I	Trainer	Email: l.praba1996@gmail.com Mobile: 7010981806
5.	Mr. L. Balaji Professional Assistant - I	Trainer	Email: balajilakshmanan17@gmail.com Mobile: 8668023537

SIEMENS CENTRE OF EXCELLENCE, MIT CAMPUS, ANNA UNIVERSITY, CHENNAI – 44.

INTERNSHIP PROGRAMME ON PROGRAMMABLE LOGIC CONTROL (PLC): 2 WEEKS / 4 WEEKS / 6 WEEKS

Internship category	Week 1	Week 2	Week 3& Week 4	Week 5 & Week 6
2-Weeks Internship on PLC	• Introduction to PLC • Protocols for Industrial Data Communication • Introduction to Profibus and Profinet	• Simple PLC Programming using Ladder logic and FBD • Instructions with examples – Timers, Counters, Data transfer and Control instructions • Hands-on Practice sessions • **Mini Project** • Assessment Test, Report Submission& Viva	N.A.	N.A.
4-Weeks Internship on PLC& HMI	• Introduction to PLC • Protocols for Industrial Data Communication • Introduction to Profibus and Profinet	• Simple PLC Programming using Ladder logic and FBD • Instructions with examples – Timers, Counters, Data transfer and Control instructions • Hands-on Practice sessions	• Introduction to HMI • HMI interfacing with PLC • Advanced Programming with Ladder logic • Other PLC Programming languages: IL, ST & SFC • Introduction to S71500 Modular PLC • Case studies with PLC & HMI • **Project Work** • Assessment Test, Report Submission& Viva	N.A.
6-Weeks Internship on Advanced PLC& HMI	• Introduction to PLC • Protocols for Industrial Data Communication • Introduction to Profibus and Profinet	• Simple PLC Programming using Ladder logic and FBD • Instructions with examples – Timers, Counters, Data transfer and Control instructions • Hands-on Practice sessions	• Introduction to HMI • HMI interfacing with PLC • Advanced Programming with Ladder logic • Other PLC Programming languages: IL, ST & SFC • Introduction to S71500 Modular PLC • Case studies with PLC & HMI	• **Capstone Project:** PLC programming for a chosen Industrial application and implementation using Siemens PLC • Assessment test, Report Submission & Viva

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INTERNSHIP PROGRAMME ON COMPUTER AIDED DESIGN (CAD) : 2 WEEKS / 4 WEEKS / 6 WEEKS

Internship category	Week 1	Week 2	Week 3& Week 4	Week 5 & Week 6
2-Weeks Internship on CAD	• Introduction to CAD • Sketching fundamentals • Basic solid modelling: 2D →3D • Advanced solid modelling	• Loading and working assembly • Drafting • Hands-on Practice sessions • Assessment Test, Report Submission & Viva	N.A.	N.A.
4-Weeks Internship on CAD & CAE	• Introduction to CAD • Sketching fundamentals • Basic solid modelling: 2D →3D • Advanced solid modelling	• Loading and working assembly • Drafting • Practice session on intermediate and advanced 3D models	• Introduction to CAE using NX Pre / Post • Geometry idealization and abstraction • Mesh techniques and Boundary conditions • Element size, Mesh density and Beam modelling • Problem solving, Post Processing and reports • Project work • Final Assessment & Report.	N.A.
6-Weeks Internship on CAD, CAE & RPT	• Introduction to CAD • Sketching fundamentals • Basic solid modelling: 2D →3D • Advanced solid modelling	• Loading and working assembly • Drafting • Practice session on intermediate and advanced 3D models	• Introduction to CAE using NX Pre / Post • Geometry idealization and abstraction • Mesh techniques and Boundary conditions • Element size, Mesh density and Beam modelling • Problem solving, Post Processing and reports	• Rapid prototyping (3D printing) demo and Hands-on sessions • Project work: • Assessment test, Report Submission & Viva