ABOUT ANNA UNIVERSITY
Anna University was established on 4th September 1978. It offers higher education in Engineering, Technology and allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained there from, it fosters cooperation between the academic and industrial communities.

ABOUT MIT CAMPUS
Madras Institute of Technology is one of the premier technical institutions started in the year 1949 by Shri. C. Rajam, an eminent industrialist. The institute is established as a result of a bold experiment in technical education as it introduced for the first time, totally unconventional Engineering courses such as Aeronautical Engineering, Automobile Engineering, Electronics Engineering and Instrumentation Engineering. It was merged with Anna University in the year 1978.

ABOUT SIEMENS CENTRE OF EXCELLENCE
The Siemens Centre of Excellence (SCoE) at MIT Campus, Anna University, Chennai and 5 linked Technical Skill Development Institutes (t-SDIs) in Tamil Nadu were established through Public Private Partnership (PPP) in collaboration with Siemens and Design Tech Limited at an estimated cost of Rs.546.84 crores with the state contribution of Rs 54.68 Crores. This centre was inaugurated by Government of Tamil Nadu on 10th October 2018. This centre has 14 state of art laboratories which are equipped with sophisticated hardware and software. The major activities carried out by this centre are skill development for the students, faculty members, research scholars and industry persons. The Centre has collaborative partners from academia and industry both within India and worldwide.

LOCATION
Madras Institute of Technology campus is located in Chrompet, Chennai, Tamil Nadu, India and the campus is adjacent to Chrompet railway station.

ABOUT THE FDP
This FDP is intended to provide opportunity for faculty members to enrich their knowledge in the thrust areas. This course offers a platform for the faculty to exchange ideas on the state-of-the-art research and development and to identify future research needs in this interdisciplinary emerging field. This course facilitates the importance of digital transformation in smart factories which emphasizes the unification of intelligent models and ICT technologies. The participants will have opportunity to have direct interactions with industry experts in the current industrial trends and state-of-the-art hardware & software tools for Industry 4.0 / Industry 5.0.

COURSE CONTENTS
- Sessions by Industry & Academic R&D experts on Factory Automation, Cloud Technologies for IIoT, Smart Factory, Cyber Security, Industry 5.0 and AI, Embedded AI, Digital twin and Smart Manufacturing.
- Discussions on Journal Articles.
- Industry Live Problem Solving / Project.

RESOURCE PERSONS
Sessions will be administered by subject Experts from Industries of high repute, R&D organizations and Academia.

AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Programme on DIGITAL TRANSFORMATION FOR SMART FACTORY (Physical Mode) 30.10.2023 to 04.11.2023
Organized by
SIEMENS CENTRE OF EXCELLENCE MIT Campus, Anna University, Chennai-44 in Collaboration with CENTRE FOR FACULTY & PROFESSIONAL DEVELOPMENT Anna University, Chennai-25
Coordinators
Dr. SABITHA RAMAKRISHNAN Professor of Instrumentation Engg. & Nodal Officer, SCoE-MIT
Dr. K. MARIAMMAL Assoc. Professor of Electronics Engg. & Deputy Nodal Officer, SCoE-MIT
WHO CAN APPLY?
Associate Professors / Senior Assistant Professors from Engineering Institutions, who have preferably attended Basic ATAL FDP on the related emerging area are eligible to apply.

HOW TO APPLY?
Use the following link / QR code to apply for the FDP through ATAL portal:

https://drive.google.com/file/d/1Cpos3TmkEkGdSJWJfd3aL576jSin4h/view?usp=sharing

SELECTION
Candidates satisfying the eligibility criteria will be selected on First-come-first-served basis. The total number of registrations is restricted to a maximum of 50. Selected candidates will be intimated by e-mail only. Confirmation of participation is to be made by email within the mentioned date positively. The participants should submit the authorization certificate signed from the principal on day-1 of the FDP.

SUCCESSFUL COMPLETION
The certificate shall be issued to those participants who have attended the programme with minimum 80% attendance and secured minimum 70% mark in assessment and other research activities.

IMPORTANT DATES
Application submission: 25.10.2023
Selection Intimation by email: 26.10.2023
Participant confirmation by email: 27.10.2023

ORGANIZING COMMITTEE

CHIEF PATRON:
Prof. R.VELRAJ
Vice-Chancellor

PATRON:
Prof. J.PRAKASH
Registrar (i/c) & Dean-MIT

CHAIR:
Prof. P.VANAJA RANJAN
Director, CFPD

CO-CHAIR:
Prof. V.ADAIKKALAM
Addl.Director, CFPD

COORDINATOR:
Prof. SABITHA RAMAKRISHNAN
Nodal Officer, SCoE-MIT

CO-COORDINATOR:
Dr. K.MARIAMMAL
Nodal Officer, SCoE-MIT

ADDRESS FOR COMMUNICATION
The Coordinator, ATAL FDP (DTSF)
Siemens Centre of Excellence, MIT
Campus, Anna University, Chrompet, Chennai-600044
E-mail: scoe@mitindia.edu
Phone: 044-22516355, Mobile: 9789977989

AICTE Training
and Learning (ATAL) Academy
sponsored Faculty Development
Programme on
DIGITAL TRANSFORMATION FOR
SMART FACTORY
30.10.2023 to 04.11.2023

DECLARATION
I declare that all the details furnished in my application are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of FDP under ATAL Academy.

Date: ____________________________
Place: ____________________________
Signature of the Participant

AUTHORIZATION CERTIFICATE
This is to certify that ____________________________, working as ____________________________ in the department of ____________________________ is a regular employee of our institution and is hereby permitted to attend the ATAL FDP on “Digital Transformation for Smart Factory” from 30.10.2023 to 04.11.2023, at the Siemens Centre of Excellence, MIT Campus, Anna University, Chrompet, Chennai – 600 044.

Date: ____________________________
Place: ____________________________
Signature of the competent Authority with seal
**SIEMENS CENTRE OF EXCELLENCE, MIT CAMPUS, ANNA UNIVERSITY, CHROMPET, CHENNAI-44**

**ATAL ADVANCED TECHNICAL FDP ON “DIGITAL TRANSFORMATION FOR SMART FACTORY” (30.10.2023 - 04.11.2023)**

**PROGRAMME SCHEDULE**

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
<th>Day 4</th>
<th>Day 5</th>
<th>Day 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.10.2023</td>
<td>31.10.2023</td>
<td>01.11.2023</td>
<td>02.11.2023</td>
<td>03.11.2023</td>
<td>04.11.2023</td>
</tr>
<tr>
<td>9.00 – 9.30: Inauguration</td>
<td>9.30 – 12.00</td>
<td>9.30 – 12.00</td>
<td>9.30 – 12.00</td>
<td>9.30 – 12.00</td>
<td>9.30 – 12.00</td>
</tr>
<tr>
<td>Session 1</td>
<td>Session 4</td>
<td>Session 5</td>
<td>Session 6</td>
<td>Session 8</td>
<td>Session 10</td>
</tr>
<tr>
<td>Factory Automation</td>
<td>Cloud Technologies for Industrial IOT</td>
<td>Digital Transformation (TeamCenter)</td>
<td>Cyber security</td>
<td>Industry 5.0 &amp; AI</td>
<td>Role of Process Automation in Industry 4.0/5.0</td>
</tr>
<tr>
<td>Mr. Shivakumar Srinivasan</td>
<td>Mr. C.J Jayaharan, Senior Director, IIoT &amp; Industry 4.0 Solutions, LTIMindtree, Chennai</td>
<td>Mr. Nemo Antony, Senior Support Engineer, HCL Technologies, Chennai</td>
<td>Mr. S. Chandran, M.D, cyber fort Digisec, Bangalore</td>
<td>Dr. Ajay Kattepur, Senior AI Researcher, Ericsson, Bangalore</td>
<td>Mr. Akash Richardson, Solutions Engineer, Siemens Technology India, Chennai</td>
</tr>
<tr>
<td>12.00 – 12.30 Lunch</td>
<td>12.00 – 12.30 Lunch</td>
<td>12.00 – 1.00 Journal Article discussion</td>
<td>12.00 – 1.00 Journal Article discussion</td>
<td>12.00 – 1.00 Journal Article discussion</td>
<td>12.00 – 1.00 MCQs / Interactions</td>
</tr>
<tr>
<td>12.30 – 3.00 Session 2</td>
<td>12.30 – 5.30 Industrial Visit – I Integral Coach Factory, Perambur, Chennai</td>
<td>Industrial Visit – II Centre for Aero Space Research (CASR) and Centre of Excellence in Automobile Technology (CEAT), MIT - Anna University</td>
<td>Industrial Visit – II Centre for Aero Space Research (CASR) and Centre of Excellence in Automobile Technology (CEAT), MIT - Anna University</td>
<td>2.00 – 3.00 Reflective journal</td>
<td></td>
</tr>
<tr>
<td>Functional Safety and Industry 4.0</td>
<td>Mr. N. Karthikeyan, Sr. Principal Tech. Expert, Schneider Electrical Research Centre</td>
<td>Mr. G. Mukundan, Principal Solutions Architect, NVIDIA, Bangalore</td>
<td>2.00 – 4.30</td>
<td>2.00 – 4.30</td>
<td>2.00 – 3.00</td>
</tr>
<tr>
<td>Mr. G. Mukundan</td>
<td></td>
<td></td>
<td>Session 7</td>
<td>Session 9</td>
<td>Reflective journal</td>
</tr>
<tr>
<td>Generative AI and Industrial Metaverse</td>
<td></td>
<td></td>
<td>Digital Twin</td>
<td>Embedded AI</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dr. N. Pappa, Professor of Instrumentation Engg, MIT – Anna University</td>
<td>Mr. MK. Bharath, Advanced Technical Leader, CTO Subdivision, AI-SoC, Aptiv, Bangalore</td>
<td>3.00 – 4.30 Feedback &amp; Interactions</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.00 – 5.30 Teaching practice</td>
<td>4.30 – 5.30 Teaching practice</td>
<td>4.30 – 5.30 Teaching practice</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Coordinator: Dr. Sabitha Ramakrishnan, Professor – Instrumentation Engg. & Nodal Officer, SCoE-MIT
Co-coordinator: Dr. K. Mariammal, Assoc. Professor – Electronics Engg. & Deputy Nodal Officer, SCoE-MIT