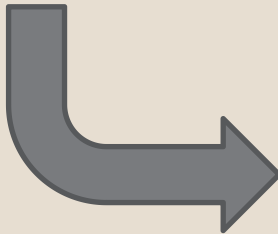




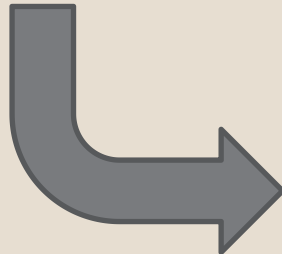
ENGINEERING PROGRESS

Dr. Ratneshwar Kumar Ratnesh

Texas Instruments



TI-Center of excellence



Outline



- 1. Introduction of Texas Instruments**
- 2. Objective**
- 3. Team Members**
- 4. List of Equipment**
- 5. Roadmap**
- 6. Activity/Events Conducted**
- 7. Outcomes**
- 8. MoU's**
- 9. Media Coverage**

Texas Instruments

- **Texas Instruments Incorporated (TI)** is an American technology company headquartered in Dallas, Texas, that designs and manufactures semiconductors and various integrated circuits
- It is one of the top 10 semiconductor companies worldwide
- The company's focus is on developing analog chips and embedded processors, which account for more than 80% of its revenue
- TI also produces TI digital light processing technology and education technology products including calculators, microcontrollers, and multi-core processors
- TI produced the world's first commercial silicon transistor in 1954, and the same year designed and manufactured the first transistor radio
- Jack Kilby invented the integrated circuit in 1958 while working at TI's Central Research Labs

Objectives



- 1. Texas Instruments Center of Excellence (CoE) Lab is dedicated to supporting Teachers, researchers, and students in facilitating the inclusion of TI analog and embedded processing in engineering classrooms, teaching, and research labs.**
- 2. It organizes seminars, exams, and workshops for the students to make them industry-ready.**
- 3. To bridge the gap between industry and academics.**
- 4. To provide a competitive edge by helping students to learn, analyze, and apply theoretical concepts and develop Industry-level technology.**
- 5. To provide experiential learning where students can solve real-world problems using state-of-the-art technical material.**

Team Members

Dr. Ratneshwar Kumar Ratnesh
(SPOC)



```
graph TD; A[Dr. Ratneshwar Kumar Ratnesh (SPOC)] --> B[Dr. Abhishek Kumar (Members)]; A --> C[Ms. Abhilasha Jain (Members)]; A --> D[Ms. Nidhi (Supporting Staff)];
```

Dr. Abhishek Kumar
(Members)

Ms. Abhilasha Jain
(Members)

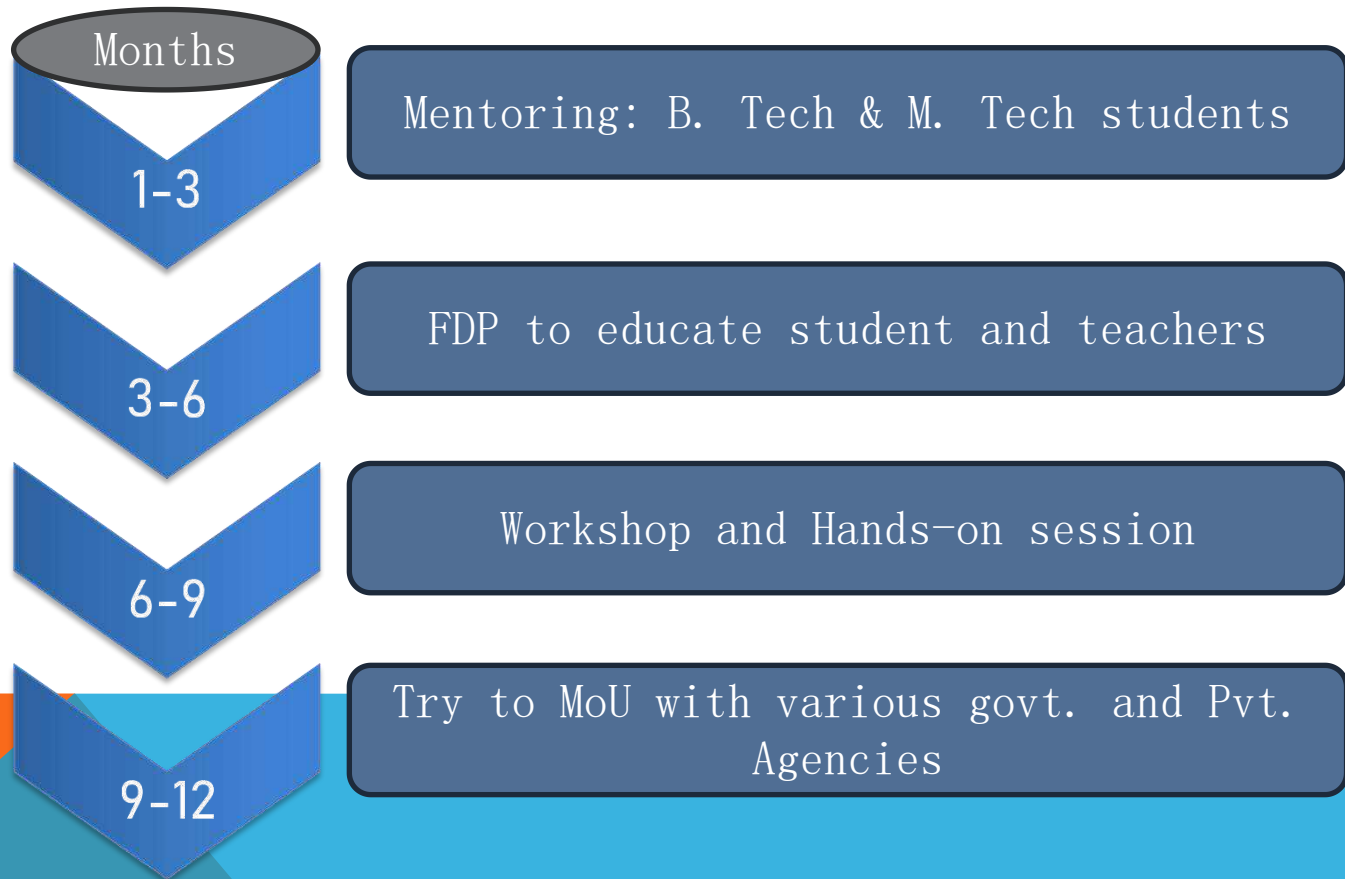
Ms. Nidhi
(Supporting Staff)

List of Equipment



S.NO	Instruments/Items	Company
1	MSP430 EXP430G2 Value Line	Texas
2	MSP430 EXP430F5529	Texas
3	Spine Motor DRV 8Xmsp430 Ez 430-RF 2500	Texas
4	Capacitive Touch Booster Pack	Texas
5	MSP430 E2 430 RF 2500	Texas
6	CC 3200 Launch Pad	Texas
7	Sensor Hub Boster Pack	Texas
8	TM 4C-123 G (Tiva C Series)	Texas
9	CC 3100 Booster Pack	Texas
10	C-2000 Piccolo Lunch Pad	Texas
11	Microcontroller Kit with Cable	Excel

Roadmaps for 2024-25



Events Conducted

Meerut Institute Of Engineering & Technology
Department of Electronics & Communication Engineering
VLSI CLUB
In association with "TEXAS INSTRUMENTS CENTER OF EXCELLENCE"
is organizing

Live webinar
BEYOND CMOS DEVICE:
Tunnel Field Effect Transistor

8 February, 2022
TUE, 1:00 PM

Scan & Register

Dr. Varun Mishra
Asst. Professor, ECE
Graphic Era, Dehradun

Event Coordinator:
Dr. Vikrant Varshney

VLSI Club Coordinator:
Dr. Ratneshwar Kr. Ratnesh

Register Link: <https://forms.gle/9MA7MwCZ5H4uPM6>

TEXAS INSTRUMENTS
MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY
VLSI CLUB
in collaboration with
TEXAS INSTRUMENTS
PRESENTS

Django Decoded: Exploring the Framework.
One more step towards coding.....

PANKAJ MAURYA
FULL STACK DEVELOPER
SHAPE MY SKILL, NOIDA

DATE : 09TH JUNE 2023
TIME : 12:30 PM ONWARDS
VENUE: AUDI 05

SCAN ME → →

EVENT CO-ORDINATOR
TEAM VLSI

FACULTY CO-ORDINATOR
Dr. Ratneshwar Kr. Ratnesh
(ECE Department)
Faculty Coordinator (VLSI)

TEXAS INSTRUMENTS
MEERUT INSTITUTE OF ENGINEERING & TECHNOLOGY
VLSI CLUB
OF ECE DEPARTMENT
IN COLLABORATION WITH
Texas Instruments
presents

"PCB DESIGNING WORKSHOP"

Date : 07th Jan 2024
Time : 12:30 PM
Venue : Google Meet

Speaker:
Mohd. Naumaan
ECE, 3rd Year

Student Co-ordinators:
• Aditi Tomar
• Abhilash Sharma
• Chirag Sharma
• Vivek Kumar

Faculty Co-ordinator:
Dr. Ratneshwar Kr. Ratnesh
Faculty Coordinator
(VLSI Club)

vlsi_club VLSI Club

Organized webinar on Beyond CMOS Devices: Tunnel Field Effect Transistor with the collaboration of VLSI Club and Texas Instruments

Organized Workshop on Django Decoded: Exploring the Framework, with the collaboration of VLSI Club and Texas Instruments

Organized Workshop on PCB Designing, with the collaboration of VLSI Club and Texas Instruments

Events Conducted



MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY
VLSI CLUB
 OF ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT
 IN COLLABORATION WITH
TEXAS INSTRUMENTS
 organizing a webinar
" DEEP DIVE INTO VLSI "
 Roadmap to become a VLSI Engineer

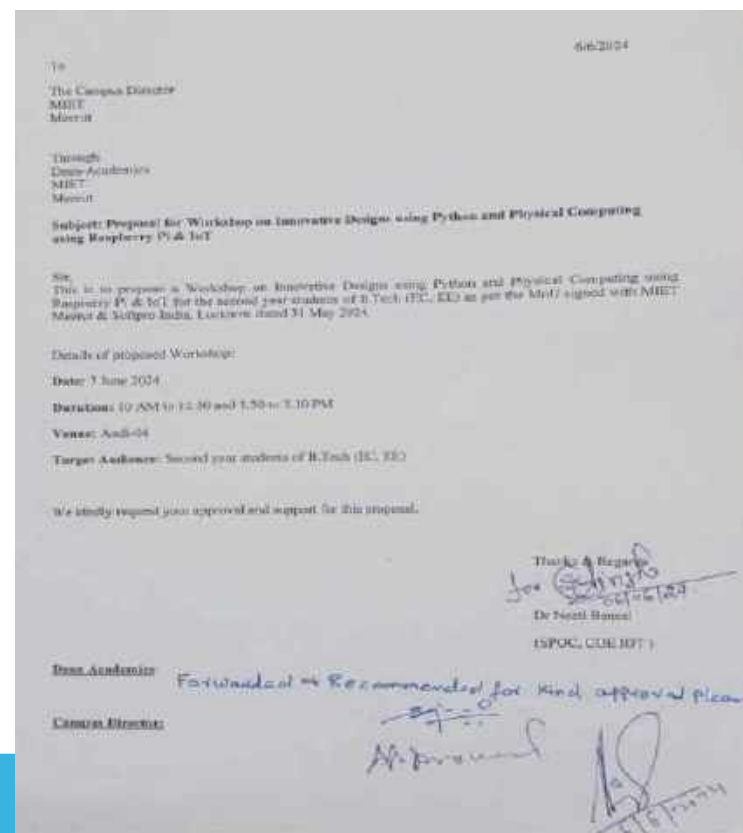
Date: 21st May 2023
Time: 12:00PM - 01:30PM

Speaker:
Dr. Vikrant Varshney
 (Senior Application Engineer at Synopsys Inc.)
 Specialization: VLSI Design in Analog Mixed-Signal Processing

Student co-ordinators:
 Abhinav Abbott
 Bhupender Kumar
 Keshav Tyagi
 Mansi Verma

Faculty co-ordinator:
Dr. Ratneshwar kr. Ratnesh
 Faculty Coordinator
 ECE Department
 MIET, Meerut

Register here!



Organized Workshop on Deep Dive into VLSI, with the collaboration of VLSI Club and Texas Instruments

Organized a Day Workshop on Innovative Design Using Python and Physical Computing Using Raspberry Pi and IoT, with the collaboration of VLSI Club and Texas Instruments

Outcome



Events (2016-2018)

Chief Patrons:
 Prof. EDCJ Vinay Kumar Padhi
 Vice-Chancellor
 Dr. APJ Abdul Kalam Technical University
 U.P., Lucknow

Patrons:
 Lt. Gen. J.M. Gupta
 Director-General, MHEE, Meerut

Convener:
 Dr. Anil Kumar Ahuja, HOD - ECE

Programs Coordinator:
 Mr. Prakash Sharma
 Assistant Prof., ECE

Organizing Committee:
 Mr. Pawan Kumar Chakravarti
 Ms. Jyoti Devi

Mr. Vishnu Saran
 Chairman, MIET, Meerut
 Dr. Pawan Agrawal
 Vice-Chairman, MIET, Meerut

Dr. Manoj Kant
 Director, MHEE, Meerut

Mr. Vishal Verma
 Assistant Prof., ECE

Mr. Subodh Kumar Tripathi
 Ms. Priya Joshi



Our Centers of Excellence in Campus

Meerut Institute of Engineering & Technology, Meerut
 NH-58, Delhi-Roorkee Highway, Dighpat Bypass Road Crossing,
 Meerut, Uttar Pradesh 200006
 Tel: +91-121-2438810, +91-121-2438887 Fax: +91-121-2438858
 Website: www.miet.ac.in, E-mail: contact@miet.ac.in


MIET
 GROUP OF INSTITUTIONS

3-Day Workshop
 ON
"Analog Applications"
 (Under Texas Instruments University Program)

TEXAS INSTRUMENTS

SAPIENCE CONSULTING

(September 7 - 9, 2018)



in
 Texas Instruments Center of Excellence of MIET

Sponsored & Supported by
Dr. APJ Abdul Kalam Technical University
 Uttar Pradesh, Lucknow
 and
 Organized by
 Department of Electronics & Communication Engg.
 Meerut Institute of Engineering & Technology.

Organized workshop on Analog Applications with the collaboration of Texas Instruments

Events (2016-2018)



COURSE COORDINATOR

Dr. D.K. Sharma
Prof. & Head, Department of ECE
Tel: 9412551886
E-mail: d_k_s1970@yahoo.co.in

CO-COORDINATOR

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MAILING ADDRESS

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Prof. & Head
Course Coordinator
Linear Integrated Circuits- a system approach
Department of Electronics & Communication Engg.
Meerut Institute of Engineering & Technology
NH-58, Baghapat crossing, Delhi- Roorkee bypass,
Meerut, Uttar Pradesh, Pin code-200005
Tel: 0121-2439019, 2439057, Fax: 0121-2439058

3-Day Faculty Development Program
on
Linear Integrated Circuits-
A System Approach

   **Sapience Consulting**

Under
Texas Instruments Center of Excellence
MIET Meerut Campus

A Lab Sponsored by
Dr. A.P.J. Abdul Kalam Technical
University, Lucknow

30 May 2016 to 1 June 2016

Organized By


GROUP OF INSTITUTIONS

Department of Electronics and
Communication Engineering
Meerut Institute of Engineering & Technology
NH-58, Baghapat Crossing, Delhi- Roorkee bypass,
Meerut Uttar Pradesh, Pin Code-250005
Tel: 0121-2439019, 2439057
Fax: 0121-2439058
Website: www.miet.ac.in

Organized workshop on Linear Integrated Circuit-A System Approach with the collaboration of Texas Instruments

Events (2016-2018)



COURSE COORDINATOR

Dr. D.K. Sharma
Prof. & Head, Department of ECE
 Tel: 9412551886
 E-mail: d_k_s1970@yahoo.co.in

CO-COORDINATOR

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Asst. Professor,
Department of ECE
 Mob: 9646320087
 E-mail: virgo.shailly@gmail.com

MAILING ADDRESS

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Prof. & Head
Course Coordinator
Linear Integrated Circuits- a system approach
 Department of Electronics & Communication Engg.
 Meerut Institute of Engineering & Technology
 NH-58, Baghpat crossing, Delhi-Roorkee bypass,
 Meerut, Uttar Pradesh, Pin code-250005
 Tel: 0121-2439019, 2439057, Fax: 0121-2439058

3-Day Faculty Development Program on Embedded System Design using MSP430



Under
 Texas Instruments Center of Excellence
 MIET Meerut Campus

A Lab Sponsored by
 Dr. A.P.J. Abdul Kalam Technical
 University, Lucknow

2 - 4 June, 2016

Organized By



Department of Electronics and Communication Engineering

Meerut Institute of Engineering & Technology
 NH-58, Baghpat Crossing, Delhi- Koorkee bypass,
 Meerut, Uttar Pradesh, Pin Code-250005
 Tel: 0121-2439019, 2439057
 Fax: 0121-2439058
 Website: www.miet.ac.in

Organized workshop on Embedded System Design Using MSP-430 with the collaboration of Texas Instruments

MoU



**MEMORANDUM OF UNDERSTANDING
(MOU)
FOR THE ESTABLISHMENT OF
CENTRE OF EXCELLENCE & INDUSTRIAL
COLLABORATION
(ON IoT and Texas Instruments (TI))**

BETWEEN

Softpro India Computer Technologies Pvt. Ltd, Lucknow

&

Meerut Institute of Engineering and Technology, Meerut



Director
Meerut Institute of Engineering & Technology
NH-58, Baghat Road Crossing, Bypass Road
Meerut-225005 (U.P.)



Head Office : Softpro Tower, Near New Hanuman Temple, Khepoorthala, Aliganj, Lucknow - 226004
Branch Office : Softpro House, 3/213, Sector - J, Jankipuram, Kursi Road, Near Gulamba Thana, Lucknow- 226021
E-mail : hr@softproindia.in
URL : www.cofpindia.in, www.trainingatsoftpro.com



Media Coverage

एमआईईटी और सॉफ्ट प्रो कंप्यूटर टेक्नोलॉजी के बीच एमओयू पर हस्ताक्षर

श्रीन इंडिया

मेरठ। एमआईईटी और सॉफ्ट प्रो कंप्यूटर टेक्नोलॉजी प्राइवेट लिमिटेड, लखनऊ के बीच समझौता ज्ञापन पर हस्ताक्षर किए गए। इस दौरान सॉफ्ट प्रो कंप्यूटर टेक्नोलॉजी प्राइवेट लिमिटेड की सीईओ यशी अस्थाना और एमआईईटी के कैंपस निदेशक प्रोफेसर डॉ एस्के सिंह ने एमओयू पर हस्ताक्षर किए।

प्रोफेसर डॉ अंकुर सक्सेना ने कहा की कंपनी के सहयोग से हमारे छात्रों को विशेष प्रशिक्षण प्लेसमेंट और आधुनिक तकनीक पर काम करने का अवसर मिलेगा। डीन एकेडमिक्स प्रोफेसर डॉ संजीव सिंह ने कहा छात्रों को इंटरनेट ऑफ थिंग्स जैसी नवीनतम तकनीकों को सीखने का अवसर प्राप्त होगा। सॉफ्ट प्रो के डायरेक्टर इंजीनियर अजय चौधरी ने कहा कि कंपनी समय समय पर शिक्षकों और छात्र को प्रशिक्षण देगी।



इस अवसर पर चेयरमैन विष्णु शरण, वाइस चेयरमैन पुनीत अग्रवाल, कैंपस डायरेक्टर प्रोफेसर डॉ एस के सिंह, डीन एकेडमिक डॉ प्रोफेसर संजीव सिंह, डीन सी एस आईटी प्रोफेसर डॉ अंकुर सक्सेना, डॉ नेहा मित्तल, डॉ विकास श्रीवास्तव, डॉ रत्नेश्वर, डॉ नीति बंसल, शैलेन्द्र सिंह मौजूद रहे।

एमआईईटी और सॉफ्ट प्रो 1 जून 2024 कंप्यूटर टेक्नोलॉजी के बीच एमओयू पर हस्ताक्षर

मेरठ। एमआईईटी और सॉफ्ट प्रो कंप्यूटर टेक्नोलॉजी प्राइवेट लिमिटेड लखनऊ के बीच समझौता ज्ञापन पर हस्ताक्षर किए गए। इस दौरान सॉफ्ट प्रो कंप्यूटर टेक्नोलॉजी प्राइवेट लिमिटेड की सीईओ यशी अस्थाना और एमआईईटी के कैंपस निदेशक प्रोफेसर डॉ एस्के सिंह ने एमओयू पर हस्ताक्षर किए। प्रोफेसर डॉ अंकुर सक्सेना ने कहा की कंपनी के सहयोग से हमारे छात्रों को विशेष प्रशिक्षण प्लेसमेंट और आधुनिक तकनीक पर काम करने का अवसर मिलेगा। डीन एकेडमिक्स प्रोफेसर डॉ संजीव सिंह ने कहा छात्रों को इंटरनेट ऑफ थिंग्स जैसी नवीनतम तकनीकों को सीखने का अवसर प्राप्त होगा। सॉफ्ट प्रो के डायरेक्टर इंजीनियर अजय चौधरी ने कहा कि कंपनी समय समय पर शिक्षकों और छात्र को प्रशिक्षण देगी। इस अवसर पर चेयरमैन विष्णु शरण, वाइस चेयरमैन पुनीत अग्रवाल, कैंपस डायरेक्टर प्रोफेसर डॉ एस के सिंह, डीन एकेडमिक डॉ प्रोफेसर संजीव सिंह, डीन सी एस आईटी प्रोफेसर डॉ अंकुर सक्सेना, डॉ नेहा मित्तल, डॉ विकास श्रीवास्तव, डॉ रत्नेश्वर, डॉ नीति बंसल, शैलेन्द्र सिंह मौजूद रहे।



इस अवसर पर चेयरमैन विष्णु शरण, वाइस चेयरमैन पुनीत अग्रवाल, कैंपस डायरेक्टर प्रोफेसर डॉ एस के सिंह, डीन एकेडमिक डॉ प्रोफेसर संजीव सिंह, डीन सी एस आईटी प्रोफेसर डॉ अंकुर सक्सेना, डॉ नेहा मित्तल, डॉ विकास श्रीवास्तव, डॉ रत्नेश्वर, डॉ नीति बंसल, शैलेन्द्र सिंह मौजूद रहे।

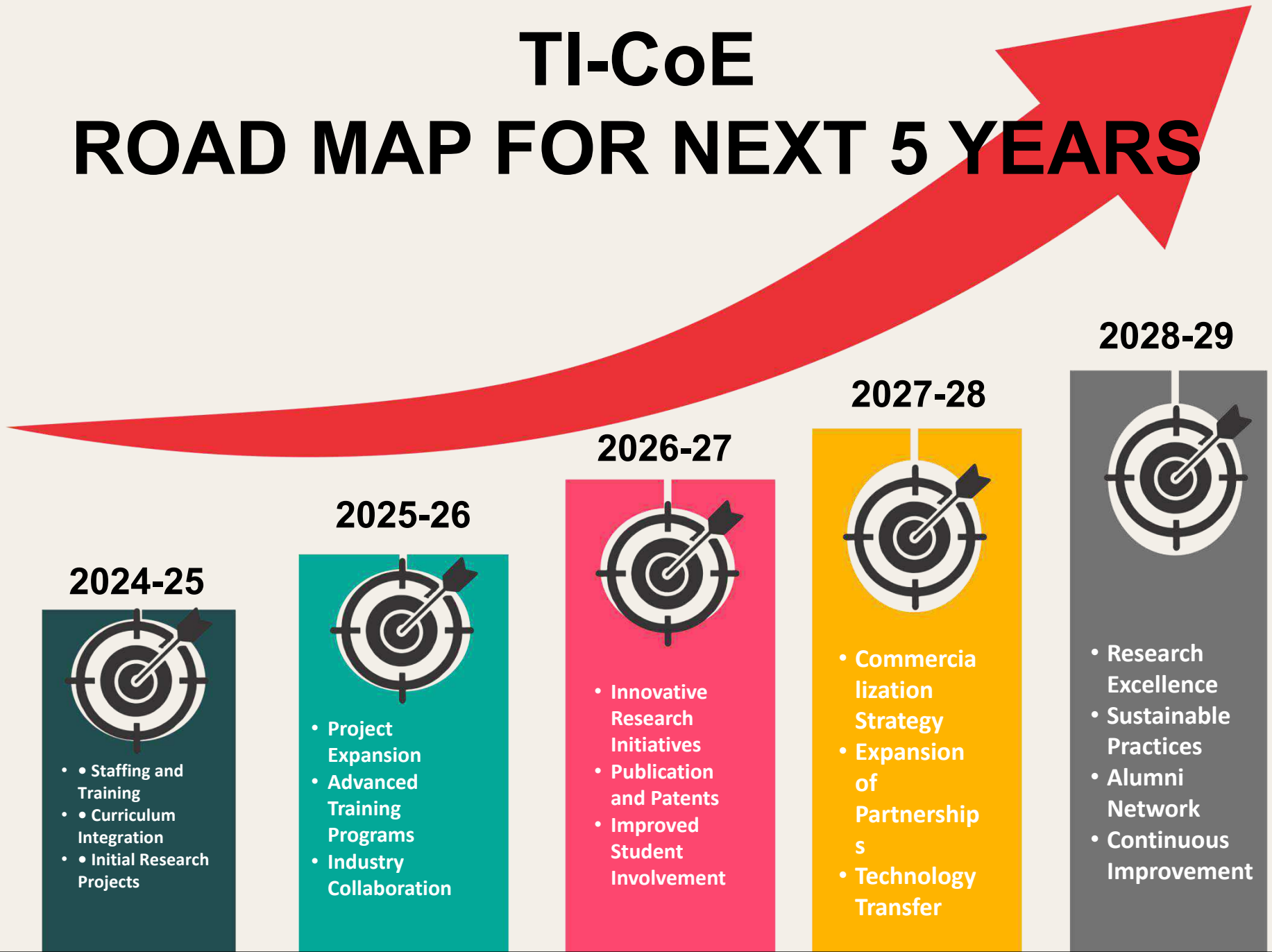
Media coverage of MoU Signing Ceremony between MIET, ECE and Soft Pro India Computer Technology PVT. LTD.

Media Coverage



Image of Organized One Day Workshop on Innovative Design Using Python and Physical Computing Using Raspberry Pi and IoT, with the collaboration of Texas Instruments

TI-CoE ROAD MAP FOR NEXT 5 YEARS



2024-25



- Staffing and Training
- Curriculum Integration
- Initial Research Projects

2025-26



- Project Expansion
- Advanced Training Programs
- Industry Collaboration

2026-27



- Innovative Research Initiatives
- Publication and Patents
- Improved Student Involvement

2027-28



- Commercialization Strategy
- Expansion of Partnerships
- Technology Transfer

2028-29



- Research Excellence
- Sustainable Practices
- Alumni Network
- Continuous Improvement

A light orange rounded rectangular box containing the text 'Thank you' in a dark blue, serif font.

Thank you

A light orange rounded rectangular box containing the text 'ECE, MIET' in a dark blue, serif font.

ECE, MIET