



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University) u/s of UGC Act, 1956

# ZF - SRM CENTER OF EXCELLENCE FOR SMART FACTORY INITIATIVES



**Keep In Touch  
With Us**

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Ground Floor, Hi-Tech Block, Main  
Campus, SRMIST, Kattankulathur-  
603203



A++



Category 1  
with ISO Status



(2023)  
Ranked 16<sup>th</sup> University



(2024) World Ranking  
one among 45 Indian Universities



(2024) World Ranking  
one among 91 Indian Universities



VERY GOOD  
QS 4 Star Rated Globally



(2023) World Ranking  
one among 15 Indian Universities

# ABOUT THE CENTER

The center was established on February 12, 2020, as a collaborative effort from SRMIST and ZF (industry partner) with a vision to mold young minds toward the future of Industry technology. The center aims to integrate various technologies like IoT, big data, robotics, etc. to solve industrial problems with a mission of bridging the gap between academic research and industry.

## VISION

To bridge the gap between academia, industry, students and society at large. To conduct awareness programs on current industry practices cum technology and provide skill training through training sessions, workshops, internships ,short term courses etc. across all elements of Industry 4.0

## MISSION

The center aims to contribute to each of the stakeholders in the following way :

### ✓ Students

- *Education and Training*
- *Skill Development*
- *Industry Exposure*
- *Networking Opportunities*

### ✓ Academia

- *Research and Innovation*
- *Collaboration with other academic institutions, research centers and industries*
- *Publication and Conferences*
- *Attract funding and grants for research initiatives, infrastructure development, and student scholarships*

### ✓ Industry

- *Technology Transfer*
- *Provide consulting services, collaborative projects, technology assessments, and customized solutions*
- *Workforce Development*

### ✓ Society

- *Economic Impact*
- *Sustainability and environment*
- *Community Engagements*
- *Policy and advocacy*

# MEET THE TEAM



## **Dr. Kingsly Jeba Singh**

Chairperson, School of Mechanical Engineering  
Professor, Department of Mechanical Engineering  
Specialization: Industry 4.0, Engineering Design, AI



## **Dr. G Murali**

Professor & Head, Department of Mechatronics Engineering  
Specialization: Industry 4.0, Digital Twin, Bio Mimicry



## **Dr. Revathi Venkataraman**

Chairperson, School of Computing  
Professor, Department of Networking and Communications  
Specialization: Wireless networks, IoT Security, Sensor networks



## **Dr. R Senthilnathan**

Center Head, Center for Immersive Technologies  
Professor, Department of Mechatronics Engineering  
Specialization: Robotics, AI, Immersive Technologies (AR,VR,MR)



## **Dr. Eswaran P**

Professor, Department of Electronics and Communication  
Specialization: Cyber Physical Systems, IoT , Industrial automation



## **Dr. Ranjith Pillai R**

Assistant Professor, Department of Mechatronics Engineering  
Specialization: Robotics, AI, IoT ,Mechatronics



## **Dr. Vaishnavi Moorthy**

Assistant Professor, Department of Networking and Communications  
Specialization: AR/VR, Cybersecurity, Cloud Computing



## **Mr. Karthikeyan N**

Assistant Professor, Department of Mechanical Engineering  
Specialization: Industry 4.0, Micro Machining , Additive Manufacturing

# INFRASTRUCTURE

The center has infrastructure facilities like a meeting room, training arena, and demo arena with industrial equipments. The center also has lab equipments and items to support projects in the area of Industry 4.0



Development and Demo Arena

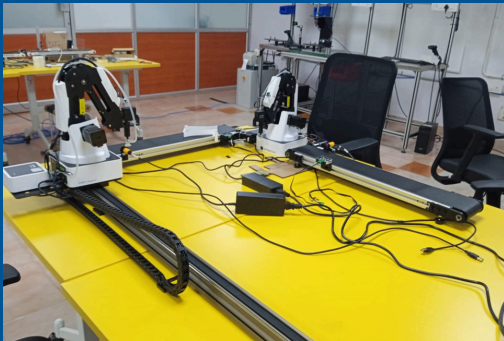


Meeting Room

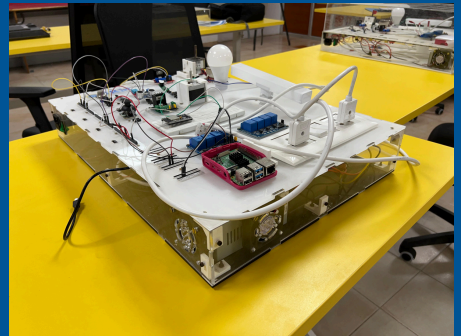


Training Arena

Key Equipment's for training  
and demonstration



I4.0 module on Dobot Magician and accessories



IoT Trainer kit

Bearing Cap Assembly  
Process and Inspection  
Station \*



Plate assembly and  
inspection Station \*



\* Industry Sponsored



# ROADMAP



- Online courses
- Product market
- Support B.Tech programs specialized towards I4.0
- MoU's with industries and R&D centers

## Leap Forward

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- Multidisciplinary Team formation
- Infrastructure plan and action
- Industry academia training - Faculty Immersion
- Plan of action for the center
- Outreach activities
- Train the trainer programs
- Student training and skill development

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## Start of a mission



- New space with training and meeting room facilities
- Lab infrastructure development
- Indigenous product development with students
- Training for industries in the area of I4.0
- Joint project proposal submissions
- Student internships and training programs

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## Bringing a new shape



- Inauguration of the Center of Excellence for Smart Factory Initiatives on 12th February 2020.
- Team Visit and discussion on possible collaboration with the Wabco team

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## Inception

# GLIMPSES OF EVENTS



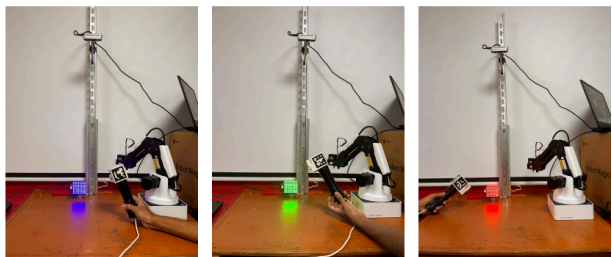
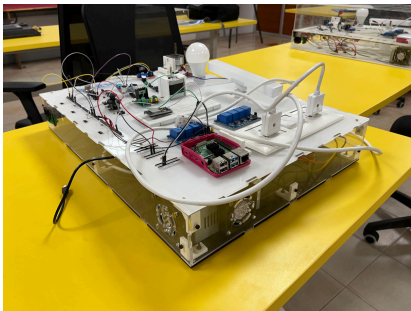


# OUR PROJECTS

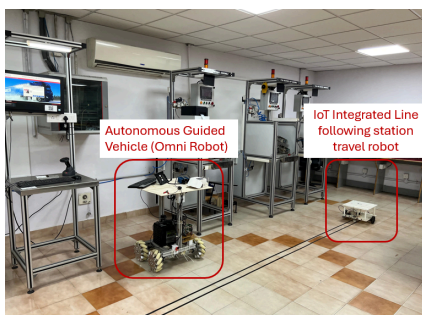
## Center Projects

The Center supports students, faculty, and research scholars for projects in the area of Industry 4.0. The support is either financial aid for components, access to infrastructure, technical guidance and industry collaboration and support.

IoT Trainer Kit developed in lab



**Development of interactive device for Robot programming**



**Conveyor Sorting Station integrated with IoT**



## Funded Projects

- An IoT Integrated Real-Time Water Quality Monitoring System for Treated Domestic Water for Swachh Bharat Adopted Villages - SERB, SURE (Joint Proposal with REACH SRM, Submitted)
- Strengthening Capacities in Higher Education through Climate Resilient Digital Twins for Sustainable Municipal Solid Waste Management in South Asia - Erasmus Mundus (Submitted)
- An orbital retractor with inbuilt pressure sensor: A novel design of biomedical device -Indian Council for Medical Research [ICMR] (Ongoing)





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# LET'S WORK TOGETHER

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