



Er. PERUMAL MANIMEKALAI
COLLEGE OF ENGINEERING
ACCREDITED BY NAAC WITH 'A' GRADE
Koneripalli, HOSUR - 635 117.



DEPARTMENT OF MECHATRONICS ENGINEERING



Technical Seminar
on
“Industrial Robotics”

Resource Person
Mr. Jaiker Neil Fernandez,
Deputy Manager, IIR,
FANUC India Pvt. Ltd.,
Hosur.

Date: 30-04-2024
Time : 12.45P.M to 4.15P.M
Venue: West Block Smart Classroom

Event Co-ordinator
Mrs.M.Jeba Shalin,
Asst.Prof/Mechatronics,
Cell:7508580505



Convener
Dr.M.Sudhagar,
HOD / Mechatronics,
Cell:9942195322



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Technical seminar on "Industrial Robotics"

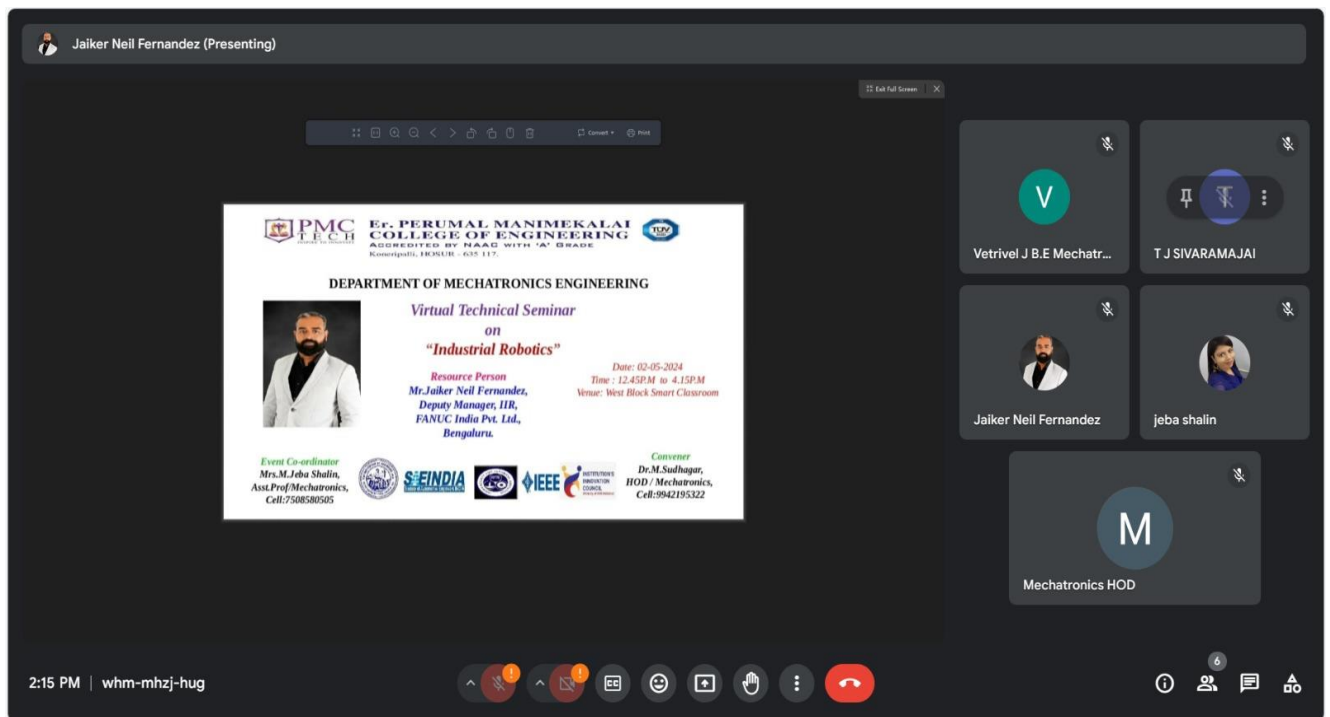
Technical seminar on, "Industrial Robotics" was conducted on 02.05.2024 from 12.45 PM at PMC Tech., Hosur Campus. It has been conducted online mode to the final year UG students of Mechatronics Engineering. Mr.Jaiker Neil Fernandez, Deputy IIR, FANUC India Pvt. Ltd., was the resource person. Mr.Hariharan B student of final-year Mechatronics Engineering department/PMC Tech., welcome the gathering. Dr. S. Chitra, Principal/PMC Tech., felicitated and addressed the gathering. In her speech, she explained the importance of the workshop and to enhance knowledge on industrial robots by the students. Moreover, she pointed out the continuous support and encouragement given by the management to conduct such events. Dr M.Sudhagar, HOD, Mechatronics Engineering department also felicitated the gathering and encouraged the student participants to involve themselves in these activities. Around 25 UG Mechatronics students of PMC Tech., participated both in the afternoon sessions. At the end of the session, students asked many queries and clarified their doubts. The department program coordinator Mrs.M.Jeba Shalin has made all the arrangements for attending the program by the students. The program ends with a vote of thanks proposed by Mr.M.Vinith Kumar, final-year Mechatronics Engineering department, PMC Tech.

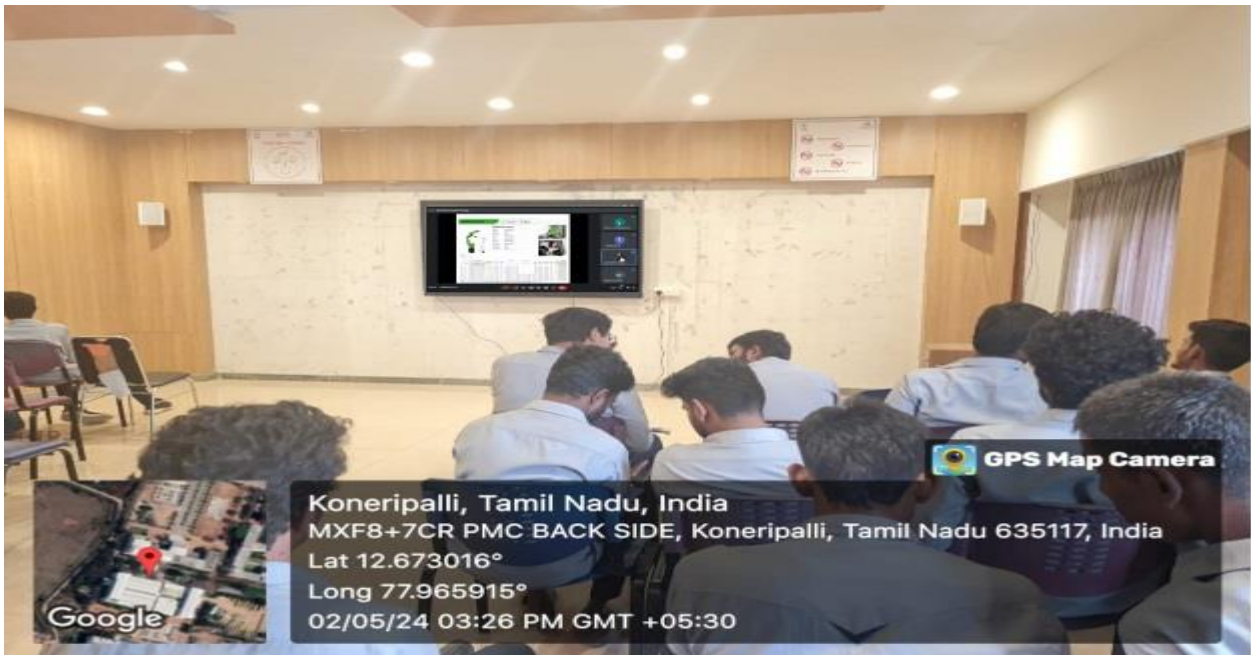
Industrial robotics plays a pivotal role in modern manufacturing and production processes, offering numerous benefits that contribute to efficiency, quality, and safety. Robots are programmed to perform tasks with high precision and accuracy, ensuring uniform quality in products. This is especially crucial in industries such as automotive, electronics, and pharmaceuticals where precision is paramount. Industrial robots automate repetitive tasks that are typically performed by humans. This not only speeds up production but also reduces errors caused by human fatigue or inconsistency. Modern industrial robots are designed to be highly flexible and adaptable to different tasks and production requirements. They can be easily

reprogrammed or reconfigured to handle new products or changes in production processes, providing businesses with greater agility and responsiveness.

In conclusion, technical seminar provides a comprehensive understanding of industrial robotics, covering topics such as automation, precision, productivity, and safety. Attendees gain insights into the latest technological advancements and best practices in robotics applications.

A. Photographs of Events:





Jaiker Neil Fernandez (Presenting)

THE FACTORY AUTOMATION COMPANY


Robots

Product overview





2:18 PM | whm-mhzej-hug


 Vetrivel J.B.E Mechatronics



 T.J SIVARAMAJAI


 Jaiker Neil Fernandez


 Mechatronics HOD

Jaiker Neil Fernandez (Presenting)

R-1000 Series





Available robot versions:

- R-1000A/80H 5-axis
- R-1000A/80F, /100F Standard model
- R-1000A/120F-7B 7-axis
- R-1000A/120F 6-axis


Max. load capacity at wrist: **130 kg**


Max. reach: **2230 mm**






| Model | Configuration | | | | Maximum capacity (kg) | | | | | | | | | | | | Max. reach (mm) | Max. payload (kg) | Max. speed (mm/s) | Max. accel. (mm/s²) | Max. torque (Nm) | Max. power (kW) | Max. current (A) | Max. voltage (V) | Max. temp. (°C) | Max. humidity (%) | Max. pressure (hPa) | Max. altitude (m) |
|-------------|---------------|-----------------|--------------|-------------|-----------------------|-----------------|--------------|-------------|-------------|-----------------|--------------|-------------|-------------|-----------------|--------------|-------------|-----------------|-------------------|-------------------|---------------------|------------------|-----------------|------------------|------------------|-----------------|-------------------|---------------------|-------------------|
| | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | | | | | | | | | | | | |
| R-1000A/80H | R-1000A/80F | R-1000A/120F-7B | R-1000A/120F | R-1000A/80H | R-1000A/80F | R-1000A/120F-7B | R-1000A/120F | R-1000A/80H | R-1000A/80F | R-1000A/120F-7B | R-1000A/120F | R-1000A/80H | R-1000A/80F | R-1000A/120F-7B | R-1000A/120F | R-1000A/80H | R-1000A/80F | R-1000A/120F-7B | R-1000A/120F | R-1000A/80H | R-1000A/80F | R-1000A/120F-7B | R-1000A/120F | | | | | |

2:20 PM | whm-mhzej-hug


 Vetrivel J.B.E Mechatronics


 T.J SIVARAMAJAI


 Jaiker Neil Fernandez


 Mechatronics HOD