INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

(Recognized by Section 2(f) & 12(B) of UGC Act. by University Grant Commission, New Delhi)

1st Rank among All Colleges of Gujarat by KCG (GSIRF)

ISTAR

CVM UNIVERSITY

Constituent College of The CVM University

M. Sc. (IIoT & Instrumentation)

(Intelligent Internet of Things & Instrumentation)

Eligibility: B. Sc., B.E., B.Tech, BCA

Duration: 2 Years (4 Semesters)

Industries are rapidly moving towards automation with wireless systems, extending the use cycle with predictive maintenance, powered by AI-ML algorithms.

- Intelligent IoT systems, bolstered by AIML technologies, are aiding in predictive analytics and decision-making processes. Increased network agility, integrated instrumentation, and capacity to deploy, automate, orchestrate, and secure diverse uses at hyper scale is possible.
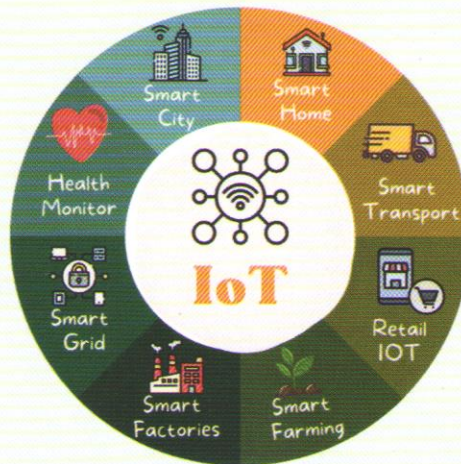
Job Scope

- System Level Solutions
- Product Design - Automation
- Manufacturing - Process Plant
- Analytical - Biomedical Systems
- R & D Organizations, Academics etc.

Unique Features:

- Course provides technical know-how about various sensing systems and its data acquisition
- Step towards Industry 4.0 to Industry 5.0
- Automation with IIoT and enhancement of technical skills
- Industry Specific - Blend of Intelligent Software /Hardware Systems
- Combination of theory, practical and project work in each semester.
- Industrial exposure with in-plant training at related industries
- Seminar presentation – confidence building
- Experienced and Skilled technical Professionals from Industries for Expert Talks, Personality Development Programs
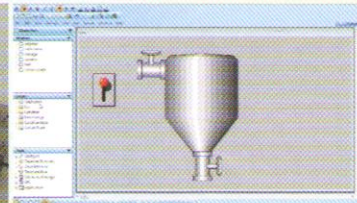- Prospective course for job placements

Course Contents:

- Sensors Fundamentals
- Principles of Control Systems
- Programming – Python
- Signal Processing Circuits
- Optoelectronics & Fiber Optic Sensors

- Sensing & Analytical Systems
- Advanced Microprocessor & Microcontrollers
- Fundamentals of IoT
- Data bases - Data Mining
- Software Testing
- Practical – Project work

- Data Communication & Networking
- Machine Learning
- PLC-DCS-SCADA
- RF & Microwave Communication
- Power Electronics & Automotive Sensors

- Biomedical Sensing & Imaging Systems
- Artificial Intelligence
- Robotics & Fuzzy
- IIoT & Cloud
- Micro-system Fabrication Technology
- Practical – Project work

Image Source: https://www.mdpi.com/1424-8220/22/23/9271

https://freeeway.com/ai-in-iot-enhancing-the-power-of-smart-devices/

I S T A R

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