SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

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CENTRE FOR INTERNET OF THINGS (IoT)

ABOUT THE CENTRE:

"This centre is dedicated to advancing the field of Internet of Things (IoT) through research, education, and collaboration. They often bring together experts from various disciplines, such as computer science and engineering, Internet of things (IoT) to work on cloud-related projects and make security in online. This centre was established in 2021 under Dr. A.P.J. Abdul Kalam Research Centre. It has a tie-up with WBC Technologies, Karaikudi conducted a session on Special Guest Lecture on Internet of Things (IoT).

OBJECTIVE:

1. **Research Advancement:** To conduct cutting-edge research in Internet of things (IoT) related fields.

2. **Education and Internet of things (IoT):** To provide students with comprehensive education and Internet of Things (IoT), preparing them for careers in the field.

3. **Innovation and Entrepreneurship:** To foster innovation, entrepreneurship, and startups in Internet of things (IoT) , leading to practical applications and solutions

4. **Industry Collaboration:** To collaborate with industry partners, addressing real-world problems and developing industry-relevant solutions.

5. **Technology Transfer:** To facilitate the transfer of Internet of things (IoT) technology and expertise to industries, startups, and society.
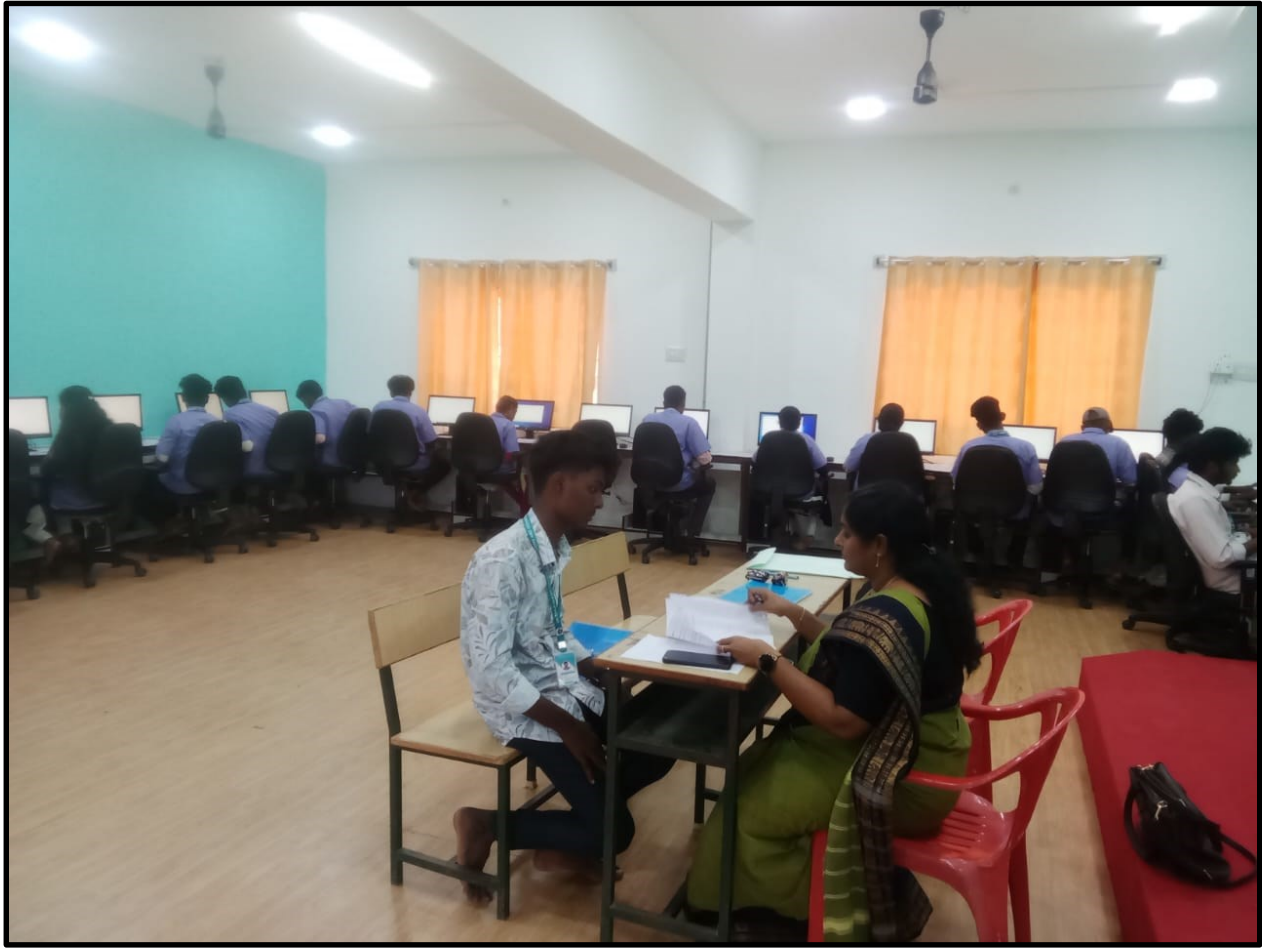
FACILITIES OF INTERNET OF THINGS (IoT)

1. **High-Performance Computing (HPC) infrastructure**: Powerful servers, for processing large datasets Internet of Things (IoT) models.

2. **Data Storage:** Large storage capacity for storing datasets, models, and research data.

3. **Software and Tools**: Licenses for Internet of Things (IoT) software, frameworks, and tools like TensorFlow, PyTorch, Keras, etc.

4. **Networking and Connectivity:** High-speed internet and networking infrastructure for data transfer and collaboration.

5. **Workstations and Devices:** High-end workstations, laptops, and devices for students.

6. **Meeting and Collaboration Spaces:** Rooms for team meetings, for Internet of Things (IoT)., and project discussions.

7. **Security and Access Control:** Secure access controls, firewalls, and encryption to protect sensitive data and IP.

8. **Power and Cooling:** Adequate power supply and cooling systems to support HPC infrastructure.

9. **Acoustic and Noise Reduction:** Sound proofing and noise reduction measures to minimize distractions.

10. **Ergonomic and Comfortable Workspaces**: Comfortable seating, lighting, and furniture for researchers and students.

FACULTY COORDINATOR:

1. Mrs.A.S.Divya, AP/CSE (CENTRE IN CHARGE)

CENTER FOR INTERNET OF THINGS (IOT)

ACITIVITIES:

The Resource person demonstrated the Internet of Things (IoT) concepts and Student to implement practical skills in Web programming. Practically Internet of Things (IoT) the concepts in Arduino and Embedded Concepts using Python programming this workshop was organized along with one of our MOU partner **WBC Technologies, Karaikudi**. Mr.R.Venkatachalam, CEO, WBC Technologies, was the resource person in this Seminar **.**

OUTCOMES:

The students got knowledge in the concepts of

       (i) Machine to Machine communication.
       (ii) Autonomous Devices.
       (iii) Real time data collection and analysis
       (iv) Smart sensing and actuation.

and done projects in Home automation System, Heart Beat Sensor devices.