

Approved by AICTE, New Delhi I Affiliated to Anna University, Chennai Rathinamangalam, Vandalur - Kelambakkam Road, Chennai, Tamil Nadu 600127, India

Department of Computer Science and Engineering

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Subject: Embedded System and IoT

Use the Design-thinking Process

The design-thinking process is a problem-solving approach that emphasizes empathy, ideation, prototyping, and testing. It encourages a creative and collaborative mindset to

address complex challenges. In education, the design-thinking process can be applied to

foster critical thinking, innovation, and real-world problem-solving skills among students.

Problem: Students were given a problem of designing Automation system for Industry using

IoT.

Benefits

• Student-Centric Focus

Active Learning

• Flexibility and Adaptability

Technology Integration

Problem-Solving Emphasis

Creativity

Encouragement Real-World Relevance

Sample of solutions given by the students

(20/2/24) S. Folix BE-CSE industry automation! automobile industry: Sensors! (1) in aukomobile industry navigation System services / CAPS where used, using 10T, connectivity, (11) autopark sensors implemented in the uses 10T functionality. (111) Tesla (car) uses auto-drive teakure, which 'developed using ML and 10T, (IV) Auto-brake facility using 107, which it deducts the page Person crossing part before to metres and applys brake aukomatically. (V) Door-unlock! Here we can o unlock the ear without key wage

AEROSPACE INDUSTRY

Acrospace industry. Tot devices are used to perform huge trusions and technical handling. The Tot in Acrospace & defense system refus to the application of technologies in aircraft, airport, and defense systems. It includes the use of connected sensels, devices and data analytics to gother and transmit real time information, enabling batter decision-making automation. The global Tot in acrospace 2 defense maxing the first received USD 47 billion in 2022 and is predicted to be worth around USD 255.9 million in predicted to be worth around USD 255.9 million in 2023 to 2024.

Bound on component, the hardwork regment accounted 41.1. nevenue Mare in 2022. By connectivity technology the cellular statement how commettivity technology the cellular statement how commissued more revenue thank in 2022.

the stat in Aetospace & defense market is expected to wither significant growth in the coming year. the acception of stat technologies is likely to expand across the acceptant and defense seather, driven by advancements in connectivity; and computing and artificial untelligence.

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