

Sustainable Development Goal 3 (SDG 3)



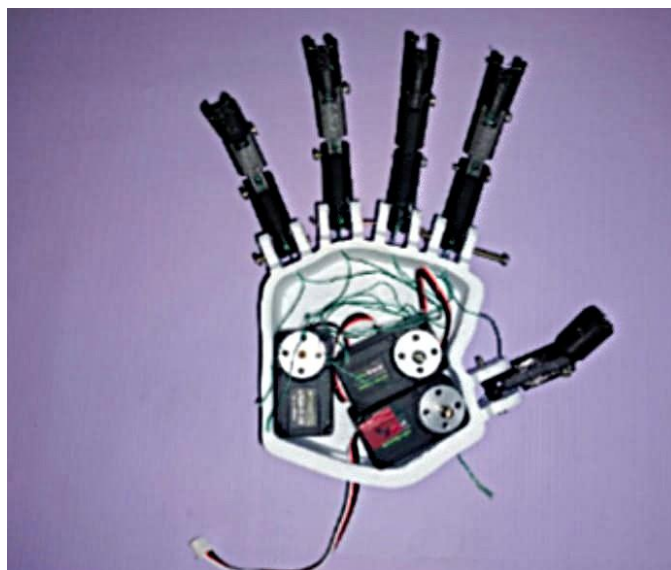
1. Club Name: Robotics and Machine Intelligence (RMI)

Activity Title: Development of BARNES – EMG-Based Bionic Arm

Developed an EMG-based bionic arm to create a non-invasive, intuitive human-machine interface for upper-limb control, supporting advancements in assistive healthcare technology.

Impact:

- **Participants: 4**
- Developed a **working EMG-controlled bionic hand prototype**
- Promoted innovation in **rehabilitation and assistive devices**
- Enhanced **technical skills in biomedical systems**



2. Club Name: Lakshaya (NCC)

Activity Title: Breast Cancer Awareness Drive (SDG 3: Good Health & Well-being)

Organized by Lakshaya, the Annual Defense and Civil Services Symposium of NIT Trichy, this breast cancer awareness drive focused on early detection, preventive healthcare, and education through free thermogram screening, expert lectures, and interactive activities.

Impact:

- **Participants:** 150–200 women screened
- Provided **free thermogram tests for early detection**
- Increased awareness of **symptoms, risk factors, and prevention**
- Promoted **health education and community engagement**

3. Club Name: Apekshaa

Activity Title: Social Outreach & Mental Well-being Interaction (SDG 3: Good Health & Well-being)

Apekshaa organized a social outreach visit to Loubra Blind School and Malarachi Orphanage, focusing on mental well-being through inclusive activities, personal interactions, and engagement-based learning.

Impact:

- **Participants:** 300 (including beneficiaries)
- Conducted **5+ hours of social interaction**
- Achieved **100% participation in inclusive activities**
- Promoted **mental well-being and social inclusion**

