TOP STUDENT PROJECTS

Best innovations from VTU Regional Centre, Belagavi

PROJECT TITLE

PORTABLE AND WEARABLE DEVICE FOR KNEE PAIN RELIEF



Team - Unity Squad

1. IFFA A ATTAR
2. ARATI A PATIL
3. SHIVANI LAD
4. SHREYA S
5. SHUBHAM SHINDE
6. SHIVPRASAD GOUDAR



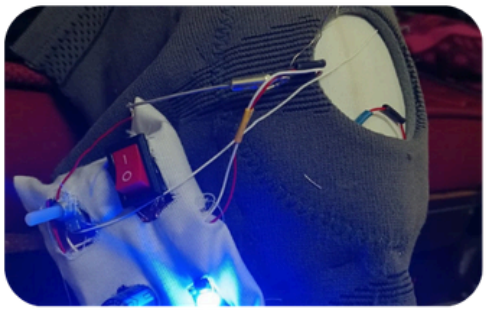
PROBLEM STATEMENT

Patients suffering from joint pain often depend on frequent clinic visits for heat and massage therapy, increasing treatment costs and inconvenience. Existing home therapy devices are expensive or limited, creating a need for an affordable, portable pain relief solution.

SOLUTION

The proposed ThermoSync device combines heat therapy and vibration massage to provide effective relief from joint pain in a compact, portable design. It delivers controlled warmth and gentle vibrations to reduce stiffness, improve blood circulation, and ease muscle discomfort. Designed for safe home use, the device minimizes the need for frequent clinic visits, reducing treatment costs and improving convenience. This affordable, user-friendly solution enhances pain management, supports rehabilitation, and promotes better mobility and quality of life.





SCAN ME

Technology stacks:

- Vibration Motor
- Heating Wire
- PCB
- Stress Detection
- ESP8266
- C++
- LED