TOP STUDENT PROJECTS

Best innovations from VTU Regional Centre, Belagavi

PROJECT TITLE

PORTABLE THERMAL INSULIN FLASK



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PROBLEM STATEMENT

People with diabetes need insulin stored at controlled temperatures to maintain its effectiveness. Traditional storage methods are often bulky, inconvenient, and unreliable during travel. A portable thermal insulin flask is needed to provide safe, temperature-controlled, and accessible insulin storage.

SOLUTION

Develop a portable thermal insulin flask designed to maintain optimal insulin temperature during travel and daily activities. The device uses advanced insulation technology, temperature monitoring sensors, and smart alerts to prevent overheating or freezing. A compact and lightweight design allows users to carry insulin safely anywhere. The flask can include a digital display or mobile connectivity to track temperature conditions in real time. This solution improves convenience, protects medication quality, and supports better diabetes management for users on the move.





SCAN ME

Technology stacks:

- Insulin
- Gel
- Coolant
- 24 Hour Capacity