

Department : **Mechanical**

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Group No: **13**

Guided By

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Project Title

**A STUDY BASED MODEL ON SOLAR THERMOELECTRIC
COOLING SYSTEM FOR SMALL PURPOSE**

Abstract:

Nowadays, thermoelectric cooling devices have a distinct place in medical applications, electronic applications, scientific equipment and other applications, where a high-precision Temperature control is essential.

The model is powered by a Non-conventional energy resource, here PV Cells. The difference between the existing methods and this model, is that a thermoelectric cooling system refrigerates without use of mechanical devices (Conventional Condenser fins and Compressor) and without refrigerant too. Since the Peltier module is compact in size, refrigeration or heating system can be designed according to the user's requirements.

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