



**NARNARAYAN SHASTRI INSTITUTE OF TECHNOLOGY  
ELECTRICAL DEPARTMENT**



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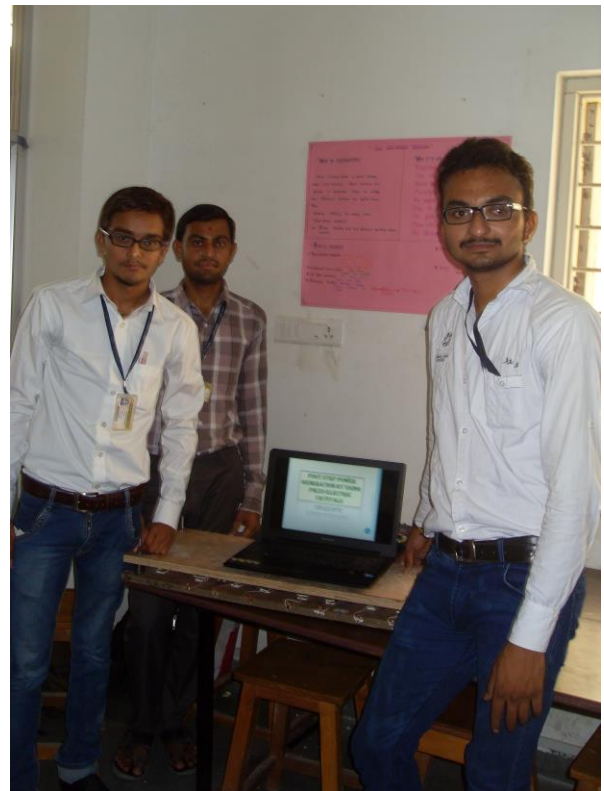
**Project Title:-** Foot Step Energy Production Using Piezo Materials

**Abstract:-** Man has needed and used energy at an increasing rate for the sustenance and well-being since time immemorial. Due to this a lot of energy resources have been exhausted and wasted. Proposal for the utilization of waste energy of foot power with human locomotion is very much relevant and important for highly populated countries like India where the railway station, temples etc., are overcrowded all round the clock .When the flooring is engineered with piezo electric technology, the electrical energy produced by the pressure is captured by floor sensors and converted to an electrical charge by piezo transducers, then stored and used as a power source. And this power source has many applications as in agriculture, home application and street lighting and as energy source for sensors in remote locations.

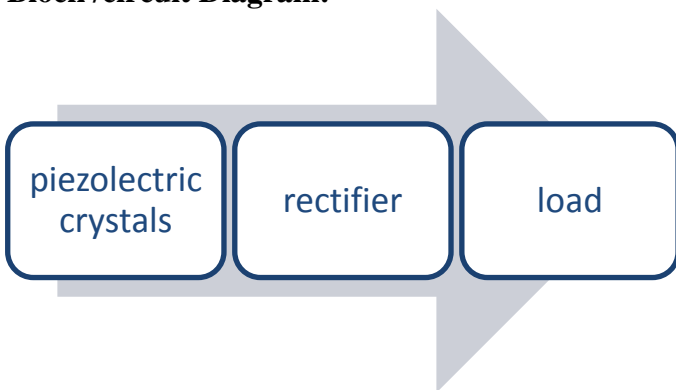
2. POWER GENERATING BOOTS OR SHOES
3. GYMS AND WORKPLACES
4. PEOPLE POWERED DANCE CLUBS
5. Power Generating Roads:
6. MOBILE KEYPAD AND KEYBOARDS

**Approx. Project Cost:- 2000/-**

**Project Photo:-**



**Block /circuit Diagram:-**



**Major Hardware components used:-** Piezo Sensor, Spring, Wood, Wires, Nut-Bolt, Double Gum Tape.

**Software used:- ---**

**Project Application:-**

- 1). POWER GENERATING FOOT STEP(SIDE WALK)