

Preferred Areas for Nirmaan 2019

As per the current industrial needs, Department of Mechanical Engineering, SISTec Gandhi Nagar has identified some preferred areas on which young buddy engineers and technocrats can showcase their talent. We Department of Mechanical Engineering, SISTec Gandhi Nagar expect large number of participation from all the engineering institution across the country. Preferred areas are as follows for your ready reference.

Please note that any innovative idea in terms of working model apart from the preferred areas are also welcome.

A. Energy and its utilization

(a) Solar Energy

- (i) Innovative Solar Cooker
- (ii) Innovative Solar Cart
- (iii) Solar Refrigeration System
- (iv) Solar Dryer
- (v) Innovation utilization of Solar Energy

(b) Wind Energy

- (i) Effective utilization of wind energy - in agriculture, for society

(c) Biogas

(d) Gasifier

(e) Tidal

(f) Geothermal

B. Agriculture

(a) Innovative working model to minimise the farmer efforts and to increase the yield. It may be modification in the existing equipment or new concepts. Such as:

- Sowing
- Harvesting
- Ploughing
- Removal of weeds and grass
- Drip Irrigation
- Sprinkling of Fertilizers etc, For various crops.

C. Swachh Bharat Abhiyan

(a) Utilization of Domestic, Industrial and Animal Waste.

(b) Innovative working model to clean the road, Street, Drainage system etc.

(c) Green Disposal of Sanitary pad, Polythene etc.

D. Mobile Applications

(a) For the benefit of Social Cause

- (i) Health
- (ii) B.P
- (iii) Sugar
- (iv) Haemoglobin
- (v) Eye Sight etc.

(b) Location Finder

(c) To identify the freshness of vegetable and fruits.

(d) To establish relationship between farmer (Crop seller) and customer

(e) Real time attendance system

(f) Government subsidy Information

E. Mechatronics

- (i) Structural health monitoring.
- (ii) Human robot interaction.
- (iii) Networked multi agent system.

F. Smart city Concept