

AY 2013-14

Sl.No.	Name of the project
1.	Solar energy storage using molten salt.
2.	Design and development of flame detector for gas turbines.
3.	Development of piezoelectric energy harvester from shoe vibratos.
4.	Design and analysis of DC-DC converters using constant ON-TIME control mode.
5.	Modelling of compact linear Frensel reflector.
6.	Design and control of tracking system for flat mirrors used in compact linear frensel reflector.
7.	Path planning of robotic algorithms for LEGO mobile robots.
8.	Structural health monitoring of the pipe using piezoelectric material.
9.	Design of manetorheological lock.
10.	Study of gapped cantilever structures and its applications.
11.	An acoustic transmission sensor for the longitudinal viscosity of fluids.
12.	Measurement of turbine blade tip clearance using eddy ccurrent based piezo-cantilever sensor.
13.	Detection of ice accretion on aircraft wing.
14.	Online measurement of urea concentration in diesel exhaust fluid using NIR spectroscopy.
15.	Shape memory ally based soft robotics.
16.	Experimental analysis of a cantilever plate with cavites using energy harvesting.

AY 2012-13

Sl.No	Name of the project
1.	Sensor design with constant using COMSOL interfaced with MATLAB.
2.	Genetic algorithm based optimal tuning of RTD-A controller.
3.	Patient monitoring system.
4.	Intomertic detection of epileptic seizures from EEG waves using linear techniques.
5.	Fuel level measurements in automobiles.

6.	Dynamic path planning of robotic agents with collision avoidance on automated highways.
7.	Neef sensing control of shape memory alloy actuated gripper.
8.	Piezoelectric MEMS analog to digital converter and multiplexer.
9.	Design of PID controller using self-tuning regulator concepts.
10.	Comparison of non-linear techniques for seizure predictors and detectors.
11.	Development of signal processing techniques for modified limb leads electrocardiograms of normal subjects.
12.	Design of pulse measurement system using piezoelectric sensors for correlation with ECG to detect cardiovascular abnormalities.
13.	Position control of a rotary manipulator using self-sensing SMA actuators.
14.	Fingersight : Fingertip visual haptic sensing and control.
15.	Tracking and measurement of glowing pattern.
16.	Square parabolic reflector based solar cooker.
17.	Design and fabrication of scheffler reflector.
18.	Stability analysis of RTD-A controller.
19.	Circuit simulation of MEMS NAND AND NOR gates.

AY 2011-12

Sl.No	Name of the project
1.	Modelling a rail crack detection system.
2.	Automated glaucoma detectors.
3.	Brain tumor segmentation based on modified self-organizing map.

AY 2010-11

Sl.No.	Name of the project
1.	Design and simulation of MEMS cantilever beam based logic gates.
2.	Micro-cantilever based mass sensor using sliding mode control.
3.	Design of EEG acquisition system and artifact removal.
4.	Bi-directional power transmission and metering for solar PV installation in INDIA.

5.	ARM processor based media player.
6.	Design of sound level meter enabled with remote readout.
7.	EEG amplifier to detect abnormalities in R-R time interval.
8.	Identification and control of single board heater system.
9.	A dynamic path planning algorithm for autonomous agents.
10.	Control system design for process with recycle.
11.	Design of RTD-A controller for pH and type I diabetic process.