

## Civil Engineering Students of K L University visit the Institute for Plasma Research – Gujarat

**03 July 2012:** Nine students from the Department of Civil Engineering, K L University along with Mr. Hafeez Basha R, Assistant Professor, participated in the Plasma Scholars' Colloquium organized by the Plasma Science Society of India (PSSI) at Institute for Plasma Research (IPR) Gujarat during 03-04 July 2012.

The aim of this colloquium was to motivate and provide adequate exposure to young researchers working in various areas of plasma science & technology. Scientists and Researchers from reputed research organizations like Tata Institute of Fundamental Research, IIT's and IPR itself shared their research outputs in the form of oral and poster presentations.

The students were able to interact with IPR Scientists and visited their laboratories. They also witnessed "ADITYA" the first indigenously designed and built nuclear fusion reactor (Tokamak) of the country. The IPR staff explained about each and every component of the reactor with more focus on Plasma Confinement which is achieved using the strong electromagnets.

The model of the Tokamak was exhibited during the Colloquium with all details of Nuclear Fusion Reactors, including the plasma confinement chamber, various electromagnetic coils, external heating sources, and cryogenic coolers that are essential for the Nuclear Fusion Reaction.

The students are now working on "Stresses due to the surrounding electromagnetic fields during plasma confinement on various components of a Nuclear Fusion Reactor" under the guidance of **Professor J. S. Rao**, Protem Chancellor of K L University.

Review papers shall be written by the students based on their ideas in this area, which shall be presented in International Conferences and published by International Journals. The students are also interested to design a model of Tokamak in the campus of K L University as their mini-project.

