e-Yantra Lab Setup at Smt. S R Patel Engineering College, Unjha in Collaboration with IIT Bombay

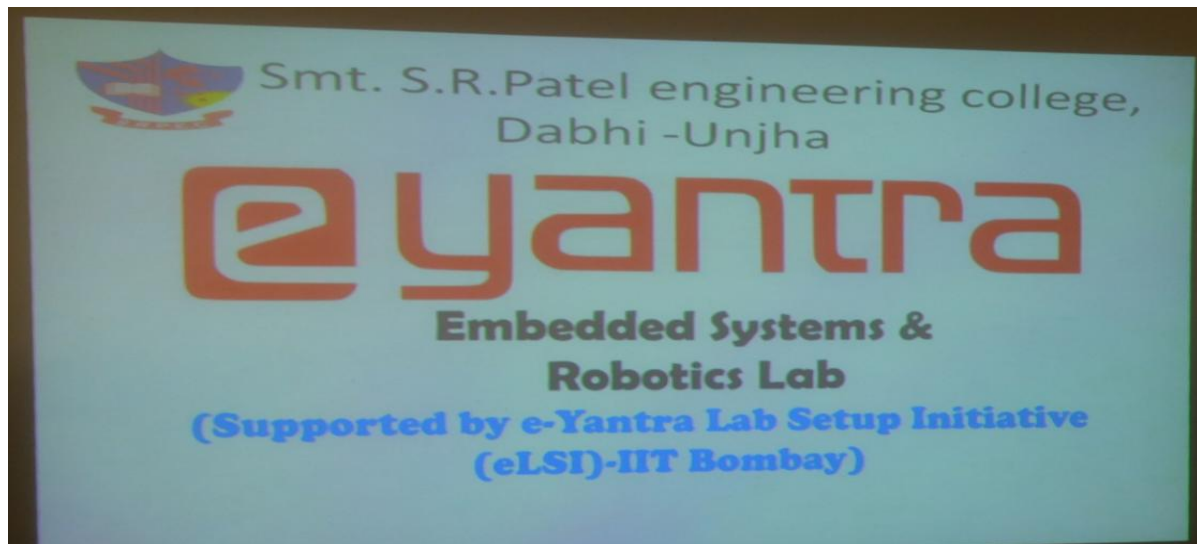## Indian Institute of Technology, Bombay

(255 Labs Inaugurated, Present over 32+ regions, Numerous Workshops, Over 800 Teachers trained)

e-Yantra Lab Setup Initiative (eLSI) is a college level program under which colleges are encouraged to setup robotics labs. It is designed as a scalable and sustainable approach that addresses infrastructure creation and teacher training – to create an eco-system at the colleges to impart effective engineering education. eLSI provides: (i) guidance and support for establishing robotics labs - three robotic kits are given to each participating college and (ii) a two-phased training for teachers: Two-day Workshop and Task Based Training.

e-Yantra Symposium

e-Yantra Symposium(eYS) is an annual event at IIT-Bombay -- to bring together colleges which have set up robotics labs through the e-Yantra Lab Setup Initiative (eLSI). The goal is to share projects and brainstorm new ideas for improving pedagogy and the quality of BE projects. This event ensures sustainable use of Robotics labs set up through the e-Yantra Lab Setup Initiative (eLSI). No registration fee is charged from teachers and students from colleges who attend the symposium. This event acts as a platform for: (i) showcase selected projects from the e-Yantra labs through the e-Yantra Ideas Competition.

e-Yantra Robotics Competition

e-Yantra Robotics Competition (eYRC) is a unique annual competition for undergraduate students in science and colleges. Selected teams are given a robotic kit complete with accessories and video tutorials to help them learn basic concepts in embedded systems and microcontroller programming. Abstracts of real world problems assigned as "themes" are then implemented by the teams using the robotic kits. The winners of this competition will be eligible for summer internship at IITB through e-Yantra Summer Internship Program.

Embedded Systems & Robotics Lab Inauguration Photos