Department of Electronics and Telecommunication Engineering
Academic Year 2024 – 25

A. Atmel Laboratory:

The Department of Electronics and Telecommunication Engineering received sponsorship laboratory from Atmel Corporation on January 6, 2014, in the form of Microcontroller kits and boards. The sponsored equipment includes:

1. STK – 600 AVR32 bit Microcontroller trainer kit
2. EVK – 1100 AVR32 bit Microcontroller Evaluation board
3. MC – 300 AVR32 based brushless DC motor controller kit
4. AVR ONE – On chip debugger and Programmer

To enhance student learning and research, the department organized an awareness workshop on utilizing this specialized laboratory. Final-year students extensively used the Atmel laboratory for their major project work, while faculty members leveraged it for research activities. This laboratory gently enhance the educational and research experience of our students and faculty members. This allows our department to stay at forefront of the field and provide our student with the best possible education.

Atmel Laboratory Kits and Boards

B. Texas Instruments:

The Department of Electronics and Telecommunication has sponsored laboratory from Texas instruments. This sponsored laboratory includes six kits titles Analog System Lab Kit Pro (ASLK Pro). These kits come with three general-purpose operational amplifiers (TL082) and three wide-bandwidth precision analog multipliers (MPY634) from Texas Instruments. It also included two 12-bit parallel-input multiplying digital-to-analog converters DAC7821, a wide-input non-synchronous buck-type DC/DC controller TPS40200, and a low dropout regulator TPS7250 from Texas Instruments. A portion of ASLK PRO is left for general-purpose prototyping which can be used for carrying out mini-projects. These kits are used by faculty members for conducting laboratory practical's of the subject Electronics Devices and Circuits. Faculty coordinator of this laboratory conducted Design competition on kits of this laboratory.

Texas Instruments Kits

C. e – Yantra:

Department of Electronics and Telecommunication has sponsored Robotics laboratory from e – Yantra, IIT – Bombay. e-Yantra is a project sponsored by MHRD under the National Mission on Education through ICT (NMEICT). The Fire Bird V provides an excellent environment for experimentation, algorithm development and testing. Its modular architecture includes processors such as 8051, AVR and ARM7 etc. Precision position encoders makes it possible to have accurate position control. It is powered by high performance rechargeable NiMH batteries. A 2.4GHz ZigBee module provide secure and multi-channel wireless communication up to a range of one kilometer line of sight.This laboratory includes 7 robots titled Fire Bird V and 5 mini Robots. Students participates in e – Yantra Robotic competitions, Final years students and Third Year students of department use these robots for their Major and Mini projects work. Department conducted faculty workshops and student workshops on this Robotics laboratory.

e – Yantra Laboratory Robots

D. Red Hat Linux Laboratory:

Department of Computer Science and Engineer has sponsored Red Hat Linux Laboratory. Red hat laboratory bridge the gap between education and industry**.** Red Hat laboratory to provide the next generation of IT talent with free access to a range of Red Hat's training courses and certification exams also Offer curriculum in Linux, cloud, and development technologies. Under Red hat laboratory conducted Trainings, value added program from 2022 in collaboration with Computer science and Engineering department. Department of Computer Science & Engineering of Dnyanshree Institute of Engineering & Technology, Satara, had successfully conducted webinar on "Opportunities in RedHat", in association with TopIT Academy Pune on Friday, 12/11/2021