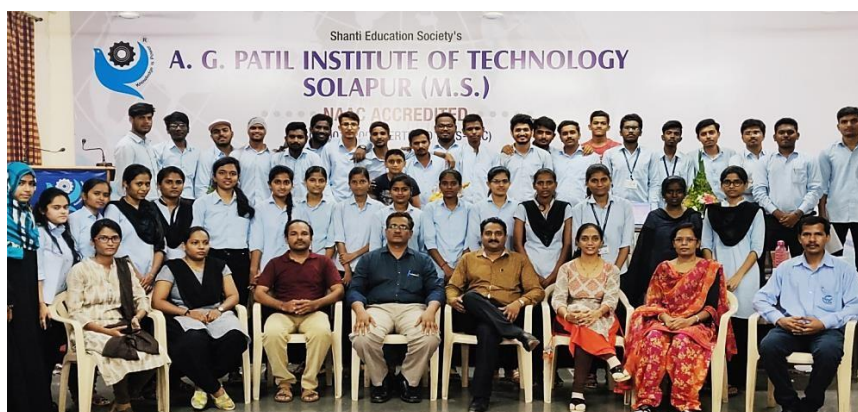


Report of workshop on Arduino programming, Design & App making



A workshop on advanced automation through electronic systems entitled **Arduino programming, Design & App making** was organized and conducted from 9th to 11th October 2019 by the department of Electronics & Telecommunication Engineering, for the students of department with the vision of practical uplift of students and also with an intention of completing mini projects (SE), hardware mini project (TE) and final year project (BE) with better-quality.

To cope up with the present needs, the head of department, Prof. Dr. R. V. Darekar had communicated a reputed organization from Pune named Dolphin Labs, at a suitable time. A team of Prof. Chittaranjan Mahajan (CEO, Dolphin Labs, Pune), Prof. Dr. Rajshri Mahajan (Professor, Dept of E&TC, COEP, Pune), subject expert Mr. Rakesh along with Master Atharva were the team of workshop.



Company committed a per student fees of Rs. 750/- for 3 days and provided an Arduino kit in a group of 4 students, for future use of students after workshop. Total number of students that attended workshop was 45, including few students of Computer & Mechanical Engineering.

The workshop inaugurated on 3rd October at 10:30 am in presence of honorable principal, chief guest, all the faculty members from department. Prof. R. D. Metri of the department handled the financial matter, whereas Prof. S. P. Katke worked in student handling. Prof. A. S. Jirage, Prof. A. A. Raikar contributed for guest hospitality under guidance of Prof. S. R. Sakhare. The workshop was coordinated by Prof. S. J. Ligade and the certificate section along with attendance monitoring was handled by Prof. S. S. Babladi who was assisted by Ms. S. M. Mangrule.

The workshop, on the first day completed the basic needs required for programming using Arduino controller. It started with making on-off of simple LED and continued further with fan controlling, motor control, getting inputs from sensors, operating on sensors.



The second day was dedicated for advanced operations including the design of demo projects with programming skills viz. home automation, devices control and different operations for domestic, industrial needs. Third day was planned for the projects to be made by all the participants with the technical support and direction. Out of 9 groups made, all the students could make the projects successful and were able to have great satisfaction observed on their faces. It was also reflected through their feedback at the end. The program concluded with the certificate distribution.

The workshop could get completed successfully with the support, motivation, guidance of Principal Dr. S. A. Patil, Vice Principal Dr. V. V. Potdar, all the department heads and staff members who permitted their students to attend the workshop.

