

## ARASAN GANESAN POLYTECHNIC COLLEGE, SIVAKASI ISTE STAFF CHAPTER - REPORT



### Transfer Programme on “Introduction to Robotics”

The following staff members of our college (e-Yantra Project Team), attended the **Two-day e-Yantra Workshop on “Introduction to Robotics”** at Sona College of Technology, Salem on 23<sup>rd</sup> and 24<sup>th</sup> June 2014 :

- |   |   |             |
|---|---|-------------|
| 1. Mr. L. Murugesan, Instructor / ECE                 | - | Team Leader |
| 2. Mr. B. Krishna Kumar, HOD / Comp.                  | - | Team Member |
| 3. Mr. J. Francis Xavier Thenraj, Skilled Asst. / ECE | - | Team Member |
| 4. Mr. M. Subburaj, Lecturer / Mech.                  | - | Team Member |

*The highlights of the workshop are given below :*

- The e-Yantra Project is an initiative of IIT Bombay. Its goal is to incorporate Embedded Systems and Robotics into engineering education.
- The project engineers from the e-Yantra Project, IIT Bombay given hands on training on the following topics using Fire Bird V Robot :
  - Buzzer Interfacing
  - Motion control – Forward, Back, Stop, Left, Right, Soft left and Soft right
  - LCD interfacing
  - ADC interfacing – IR sensor and Sharp Range sensor
  - Serial port interfacing
- A Fire Bird V Robot (worth of Rs. 27,000.00) has been given to us at free of cost.

*Outcomes of the workshop :*

- ✓ They learned the basic concepts of embedded systems and interfacing of various sensors with ATmega2560 microcontroller.
- ✓ They disseminated the knowledge gained in the workshop to all our staff members through Staff Development Programme.
- ✓ Our students will be given projects using the Fire Bird V Robot.
- ✓ They will participate in the National level Robotics Teacher competition to be held in IIT Bombay.
- ✓ They will formulate an awareness programme to school students on “Robotics” with a view to motivate them to join diploma courses.