

# **MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**

**(UGC - AUTONOMOUS)**

## **Report on A Workshop on Robotics and Inauguration of Centre of Excellence in Robotics (COER) 11 - 13 October 2018**



***Submitted by : Dr. Subhasish Mahapatra, Coordinator, COER***

The event was started by Dr. Subhasish Mahapatra, Coordinator, COER. He highlighted the importance and benefits of the workshop especially for the students of MITS, Madanapalle. The event was inaugurated in presence of Dr. C. Yuvaraj, Pricipal, Dr. P. B. N. Prasad, Assoc. Director R&D, Dr. Rama Prasad Rao, Dean-IIIC and the experts from Sakrobotix Lab Pvt. Ltd Mr. N. Tuddu and U. P. Tiwari, Jr. Scientists. The objective of this workshop was to train the students for 3 days and to enable them to continue their research on robotics for a complete year. Apart from that, the center of excellence in robotics was also inaugurated to setup a robotics lab in our college premises so as to conduct the research inside the college campus by the students. 121 students have been registered for this workshop and groups of 5 members are formed to conduct the research activities. They categorized the groups in 3 different robot designs: Breadbotix, Autonomous and Underwater. The program schedule for the workshop was as followed

First day: Our experts delivered a basic idea about robotics followed by the mechanical designing of the robots assigned to each group.

Second day: The students were trained to do circuit designing for the robots as well as programming of the specified robots.

Third day: The students trained for hands on experience in moving the robot and to do motion planning and also an interactive session was conducted with the students to ensure the continuation of research in future.

Apart from that, Sakrobotix Lab provided 16 robots to our college which were designed by our students during the workshop. In future, they will also provide more robots to our college to conduct the research program.

Overall the workshop was informative and the students gained all the basic knowledge about Robotics designing, programming and motion planning. The Lab is going to be setup in our campus very soon in which our students will do research in future.