

Report of two days workshop on “Electronics: Basic Applications”.

IEEE WIE Kolkata Chapter organized two days workshop on “Electronics: Basic Applications” in the Department of Instrumentation & Electronics Engineering, Jadavpur University, Salt Lake Campus, Kolkata on 30th and 31st October, 2013. The workshop was aimed for the 2nd year students of the Polytechnic colleges so that they can polish their knowledge by theoretical discussions and have an experimental experience by the followed relevant hands-on laboratory sessions.



Nineteen students both men and women participated in the workshop. Each day was divided in two sessions: pre- and post- lunch session. During the pre lunch session of the first day Dr. B. Goswami, member of IEEE WIE Kolkata Chapter discussed with a power point presentation about the transistor power amplifiers and their applications. She explained different types of power amplifiers, design of the amplifiers, their uses, advantages and disadvantages. She also explained a circuit for practical implementation of a particular type of power amplifier. In the second half, the students implemented the circuit first on a breadboard to check the performance and then on a veroboard by soldering the components.

Next day, Dr. S. Barman (Mondal), member of IEEE WIE Kolkata Chapter discussed with a power point presentation about the application of the transistors for communication purposes. She explained different types of modulation and their theoretical background. She also explained a circuit for practical implementation of amplitude modulation and demodulation, the design aspects and testing procedures. In the second half of the day, the students implemented the circuit and noted its performance. Laboratory assistants and the M.Tech students of the department deserve special thanks for their help to the participants.



Every participant was able to execute the instructions and implement the circuits successfully. They were delighted to learn the corroboration of theoretical design and the experimentally obtained outputs by themselves. Sufficient volunteers were present to help them.

The participants were provided with hard copy documents beforehand so that they can follow the lecture session and also for their future help.

The program was concluded with a valedictory session where participants were given participation certificates. The participants praised the volunteers whole heartedly and thanked the organizers for the program. They also showed interest on such program in future.