Report on IGNIS 2016

The Department of Electrical Engineering organized ‘IGNIS 2016’ which included talks on Electric vehicles and Smart Grid and also an inter college debate competition on the topic ‘Can Assam sort out its electricity problem’ on 6.09.16.

Dr. Kailash Srivastava, Adjunct faculty, Indian Institute of Technology Kanpur and Senior R&D Engineer, ABB Global Research Lab, Sweden delivered a talk on ‘Disruptive Potential of Solar PV and Electric Vehicles’ on 1.09.16. Students of EE, ECE & ME of RSET attended the program and were highly motivated by his speech. His speech highlighted the disturbing trend of the demand of consumption of coal, gas and oil, which has tripled over the years, for electricity generation and is expected to grow up by 50% by 2030 still. He then gave us the idea of Solar PV module as an essential component in the new energy generation. He also suggested that PV will become the world’s main source of energy by 2030. He then talked about the electric vehicles and self-driven cars powered by PV. His talk gave us an idea of future generation of electricity and how the power system would develop to meet the needs of the consumers.
Dr. Durlav Hazarika, Professor Electrical Engineering department, Assam Engineering College delivered a talk on “Smart Grid and Renewable Energy”. The talk was attended by the students of Electrical Engineering and also the participants of the debate competition. Dr. B. Banerjee, Dr. Anuradha Devi were also present for the talk. Dr.Durlav Hazarika, during his lecture emphasized on restructuring the modern power system by ensuring quality, discipline and accountability of power system. He also discussed about the various power reforms in modern day power system. He presented a well-structured description of operational modes of power system in the entire North-East. Dr. Durlav Hazarika explained the local and the global impact of various characteristics in power system. He said that it is required to strengthen the distribution system in terms of integrating them to SCADA and Smart grid system. He gave an elaborate description on the new concept of Smart Grid and how smart grid has to play vital role to ensure implementation of dynamic power tariff for Solar PV power stations based on the operating condition of the system. He emphasized that Smart Grid feature has to have sufficient hardware, software and IT support to co-ordinate Grid-Smart inverter operation to encourage Solar PV station.
The afternoon session started with an inter-college debate competition on the topic ‘Can Assam sort out its Electricity Problems?’ Dr. Anuradha Devi, HoD BSH department, RSET was the moderator along with Mrs. Banani Das Hazarika, Assistant Professor, BSH Department and Mr. Satyakee D’com Bhuyan as judges. A total of 24 students with few students from Scholar’s Institute of Technology & Management and Girijananda Chowdhury Institute of Technology & Management participated in the debate competition. Majority was for the motion whereas few of them were against the motion. The students gave their views and statistics over the topic and finally the event concluded by announcing the winners of the debate competition. The winners took away the cash prize of Rs. 5000, 3000 and 3000. The 3rd prize was shared between 2 students.