

Power Area Graduate Seminar

Monday, April 15, at Noon
Room 104 Emerson Electric Company Hall

A Tutorial on RTDS (Real Time Digital Simulator)

Presented by Tamal Paul and Md. Rasheduzzaman, Missouri S&T

Abstract: The RTDS Simulator is designed specifically to simulate electrical power systems and to test physical equipment such as control and protection devices. The modular design enables simulation hardware to be customized for specific study needs and yet give the flexibility for future expansion. Modularity also combines with Ethernet access to provide the capability for different people to run several simultaneous simulations or for one person to run one large simulation using all available hardware. The software platform needed to run RTDS is called RSCAD. RSCAD provides the ability to set up simulations, control, and modify system parameters during a simulation, data acquisition, and result analysis. The tutorial describes connecting the RTDS machine available at Missouri S&T to the network and driving it with the RSCAD software to carry out simulations in real time.

Biographies: Tamal Paul received his Bachelor's degree in Electrical Engineering from National Institute of Technology, India in May 2010. He received his Master's degree in Electrical Engineering from Missouri University of Science and Technology in May 2012. He is currently a PhD candidate at Missouri University of Science and Technology.

Md Rasheduzzaman received his Bachelor's degree in Electrical Engineering from Chittagong University of Engineering and Technology, Bangladesh in August 2006. He received his Master's degree in ECE from Purdue University Calumet in December 2010. He is currently a PhD candidate at Missouri University of Science and Technology.