SCIENCE SEMINAR

Thursday, January 10 - Carson Taylor Hall room 322

Dr. A Z M Nowzesh Hasan

PhD ENG Louisiana Tech, November 2018
Dr. Adarsh Radadia, Advisor

will present

"2D Carbon-based Device Design, Simulation and Electrical Characterization"

Due to the scaling of the device dimension, device performance is getting limited day by day. Researchers are facing new challenges in quest of sustainable solutions in device architecture and material characterization. 2D carbon-based materials are posing outstanding electrical and thermal properties; novel materials can be exploited in the electrical transport mechanism by improving device architecture. Carbon and nanodiamond-based materials are characterized in MOSFET-type device architecture for further improvement. Besides, delta-doped silicon MOSFET is simulated to overcome the shortcomings in short channel effects.

This is a joint meeting with the IEEE Nanotechnology Council (IEEE NTC) student chapter of LaTech.

Come at 3:30pm for refreshments, speaker at 4:00pm