Planned tasks:

- Interfacing RTDS to external hardware
- Familiarizing with the Omicron CMS 156 power amplifier
- Setting up of SEL Relay
- Simulation of the transmission line with series compensation

Task completed:

- Interfacing RTDS to external hardware achieved when redoing the ELEN4018 Lab. The idmt relay connections were done successfully. The relay trip signal was successful sent to the I/O of the RTDS.
- The power amplifier Omicron CMS 156 was successfully connected to the IDMT relay
- Familiarizing with settings of the SEL-321 distance relay
- Simulation of the transmission line with series compensation

Challenges:

- problems encountered when connecting the SEL-321 relay that lead to some relay components damaged.
- This lead to change in Project Scope
- The project will be done on RSCAD only

Task in progress:

- Simulation of a DPR on RSCAD
- Line-to-Ground and Phase-Phase fault simulations