## REPORT ON PROFESSIONAL TALK

**TOPIC:** Land use and Land cover map and Hydrological Soil group map using

Arc GIS

**DATE:** 8<sup>th</sup> November 2022

**VENUE:** Class room no.515

The event started with the self-introduction of M. Jenani, a B.E. in Civil Engineering final year, and R. Hemalatha, a B.E. in Civil Engineering final year. Proceeding with that, M. Jenani explained how to find the land use and land cover map using Arc GIS for the Cuddalore district; she also explained how to extract the base map and clip the Cuddalore district alone. The LULC map contains different colors, which indicate different land uses for different purposes. She also explained how to extract the LULC map for different years. Continuing with that, R. Hemalatha explained how to find a hydrological soil group map using Arc GIS. She explained how the hydrological soil map can be extracted by using the classification of hydrological soil groups. The detailed process has been explained by her, and the extraction of the world soil base map has been downloaded from the FAO catalog. Also, an explanation about the outline map of India has been downloaded from Diva GIS, and then the clipping process for the base soil group map of Cuddalore district has been given by her. Also, she explained how to extract HSM from the given collected maps, and hydrological soil classification has been explained. The event concluded with a session of doubt clearing.

## **FLYER:**



## **PHOTOS:**





