



*Project # 1 (students graduated by July. 2012)*

# **Analysis, Design, and Implementation of Ultra-Wideband Coplanar Antenna for 3G/4G Applications**

## **Abstract**

In this project, an Ultra-Wideband (UWB) array antenna is analyzed, designed and implemented at frequency band 1 up to 20 GHz. The CST microwave simulator has been used to compute the S-parameter of the UWB antenna from 1 up to 20 GHz. The UWB antenna is implemented on FR-4 substrate with different feed configurations. The antenna parameters such as, directivity and radiation patterns are measured using our antenna and microwave laboratory. Also the S-parameters are measured using the HP network analyzer.