Objective of the Present Work

The aim behind doing this project was to Study of Null radiation pattern of antennas, its blocking and countermeasures in HF sky wave communication. The objective of the project focuses on:-

(a) Study of radiation pattern of various antennas in both ground wave and sky wave mode.

(b) Study of various ionospheric layers.

(c) Study of variables affecting the radiations in the NULL direction and proposing a mathematical model.

(d) Study of effect of various material on antennas and radiation pattern.

(e) Selection of software for simulation of radiation patterns for various frequency, power output, material types and shapes.

(f) Final results after optimization.