

## P R E F A C E

This dissertation consists of three chapters -

The First Chapter consists of some introduction about generalized functions and the spaces of the type 'S'. Some useful definitions are also included in this chapter.

The Second Chapter consists of the definitions and topological properties of the spaces  $H_{\mu, \lambda, \alpha}^{\beta}$ . These spaces are extended from the spaces  $H_{\mu, \lambda}$  which are defined by Ghosh [self reciprocal functions of a class of generalised functions, Ranchi Uni. 1974 ] and Reddy [Study of generalised Hankel transforms of distributions. M.Phil.dissertation, Shivaji University, 1984].

The Third Chapter consists of the Hankel transformation of the spaces of the type  $H_{\mu, \lambda, \alpha}$ . The non-triviality of  $H_{\mu, \lambda, \alpha}$  and  $H_{\mu, \lambda}^{\beta}$  is discussed. Every chapter is divided into sections and sub-sections.

References to the literature that have been used in this work are given at the end.