

ABSTRACT

This dissertation is aimed to discuss some results on $R\Gamma$ -modules. In this connection, first we discuss basic preliminaries.

Then isomorphism theorems , correspondence theorem and concept of direct products are defined in frame work of $R\Gamma$ -modules.

Moreover, We discuss the normal series and composition series. In this connection, we establish Zassenhaus Lemma, Schrier Refinement theorem, and Jordan Hölder theorem.

We introduce the notion of $R\Gamma$ - Noetherian modules and establish its characterization.

Further, we discuss concept of annihilators. Moreover, we introduce the concepts of generalized annihilators and associated submodules in environment of $R\Gamma$ -modules. We introduce a certain topology, referred as filtration topology in the frame work of $R\Gamma$ -modules.