4.	Lodish, H. Berk A, Zipursty S.C., Matudaira, P. Baltimore, D and Darell J. Molecular Biology, W.H. Freeman and Company. (2000)

CROP PROTECTION AND PEST MANAGEMENT

Details of course:-

Course Title	Course Structure			Pre-Requisite
	L	T	P	
Crop protection and pest management (BT419)	03	01	00	Nil

Course Objective:

To provide a basic knowledge of pest control and yield enhancement.

Course Outcome (CO):

1. Perceive the losses in crops due to pest and realize their importance. Classify plant diseases and understand their causes and symptoms.
2. Explain genetics of pathogenicity, Pathotypes and Mechanism of disease resistance.
3. Analyse of genetic engineering for improvement of disease resistance, Genetic manipulation of Crops for insect resistance, herbicide resistance and abiotic stress resistance.
4. Identify concepts and techniques for biological and chemical control like Bio-organism for pest management, Bt based pesticides, Baculovirus pesticides, Mycopesticides, production and formulation technologies.
5. Outline the principles of integrated Pest Management (IPM), IPM practices for important crops.

S.No.	Content	Contact Hours
1.	**Introduction to crop protection:**Losses in crops due to pests, Importance of plant diseases, Classification of plant diseases, Causes and symptoms of plant diseases, Disease epidemics, Prevention of epidemics	**8**
2.	**Pathogenecity,:**Genetics of pathogenocity, Pathotypes, Mechanism of disease resistance, breeding for disease and insect resistance	**8**