

SUBJECT NO-AG60129, SUBJECT NAME- GRAIN STORAGE PRINCIPLES AND STRUCTURES

LTP- 3-0-0,CRD- 3

SYLLABUS :-

Principles and practices of storage - storage losses and their estimation, factors affecting grain quality; Primary and secondary insect pests, rodents and microorganisms of stored food grains and their control

Flow characteristics of granular materials; Functional requirements of storage structures; Traditional storage structures in India and their improvements; Design of silos, bins and godowns - RCC and steel structures; Aeration system for various storage structures; grain handling equipment - their design and operational features

Management and maintenance of grain storage; Code of practices for safe storage of food grains; Fumigation and controlled atmosphere storage of food grains; Analysis of residual pesticides and insecticides; Integrated pest management of stored grain