EXTENDED LECTURE OUTLINE

CCP6 122 **Pests of Silkworm and their Management** **(2+1)**

Sl. No	Topic
1.	Introduction and Glossary - pest , parasite, predator, Hyperparasite and other types of parasitism
2.	Catogories of pest- based on occurence-Regular pest, occasional pest, Seasonal pest, persistent pest and sporadic pest Based on level of infestation- Endemic and Epidemic, Causes for outbreak of pest
3.	Parameters of insect population levels – GEP, ETL, EIL, DB and pest categories according to EIL, GEP and DB (key pest, major pest, minor pest, sporadic pest, potential pest)
4.	Pests of Silkworm- Uzifly-Taxonomy and distribution
5.	Uzifly life stages – External morphology of Egg, maggot- I, II and III instar
6.	External Morphology of uzi pupa and Adult (male and female) –Antennae, wings and legs
7.	Biology of maggot - Feeding and respirtory physiology of maggot Biology of pupa adult stages of uzifly
8.	Infestation of Uzifly : Nature of damage, symptoms of uzifly infestation, extent loss, *Exorista sp.* of silkworm: classification, distribution, occurrence, nature of damage and alternative hosts
9.	Host parasite interaction – Food consumption and utilization, body weight, silk gland growth and haemolymph properties Uzi fly behaviour in relation to emergence, mating, oviposition and flight.
10.	Management of Uzifly – Physical – Light cum sticky trap, kerosene water trap, fish meal trap, food bait trap, propoxur bait trap and Uzitrap (method of use, mode of action and advantages) Mechanical methods / Exclusion methods
11.	Management of Uzifly – Chemical methods- Uzicide, Uzipowder, Bleaching powder and Diflurobenzuron- method of application, mode of action and advantages
12.	Management of Uzifly – Biological methods- biological conrol of uzifly, desirable features of natural enemies, effective natural enemies against uzifly, mass production of biocontrol agent, field release and dosage

13.	Genetic control – Gamma Radiation and Chemosterilants, palnt products – ovicides, repellants and effect of plant products on growth and Quarantine measures
14.	Integrated management practices of Uzifly
15.	Importance of pests in grainages viz., dermestid beetles, earwigs, ants and mites, taxonomy and their biology and nature of damage
16.	Grainage pest management through physical, mechanical and chemical means and integrated management of the grainage pest.
17.	Occurrence, nature of damage, prevention and control of other pests of silkworm like Pantatomid bug (Canthecons sp.), Praying mantid (Hierodula sp.), Red ant (Oecophylla sp.), Braconid fly (Apantdes sp.)