Lesson Plan
MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Odd Semester (Semester-V)
Session – 2019-20

Department- Zoology
Name of the Teacher- Dr. Ravneet Kaur

Class- B.Sc. III (Medical)
Section- A & B
Subject- Zoology
Subject- Zoology Paper-II: OPTION-II: ECONOMIC ENTOMOLOGY AND PEST MANAGEMENT-I (ZOO-502B)

Month	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
July	23.07.2019	31.07.2019	Introduction to Entomology with various orders. Major modifications in the antennae and legs of insects.	Lecture method, PPT
August	01.08.2019	31.08.2019	Development of Insects: Different type of metamorphosis along with a study of different kinds of larvae and pupae. Systematic position, habits and nature of damage of the following pests of crops and vegetables : **I. Sugarcane :** 1. Sugarcane leaf hopper (*Pyrilia perpusila*) alongwith life cycle and control measures. 2. Sugarcane top borer (*Scirpophaga nivella*) 3. Sugarcane stem borer (*Chilotrea infuscatellus*) **V. Vegetables :** 1. Red pumpkin beetle (*Aulacophora foveicollis*) 2. Pumpkin fruit fly (*Dacus cucurbitae*) alongwith life cycle and control measures. 3. Hadda beetle (*Epilachna vigintioctopunctata*)	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.09.19				
September	01.09.2019	30.09.2019	**II. Cotton :** 1. Pink bollworm (*Pectinophora gossypiella*) alongwith life cycle and control measures. 2. Red cotton bug (*Dysdercus cinglulatus*) 3. Cotton grey weevil (*Myllocerus maculosus*) 4. Surface grasshopper (*Chrotogonus trachypterus*) 5. Cotton jassid (*Empoasca devastans*) **III. Paddy :** 1. Rice Gundhy Bug (*Leptocorisa*	Lecture method, PPT, Videos

			varicornis) alongwith life cycle and control measures. 2. Rice grasshopper (*Hieroglyphyus banian*) 3. Rice Hispa (*Dicladispa armigera*) **IV. Wheat :** 1. Wheat stem borer (*Sesamia inferens*) alongwith life cycle and control measures. 2. Termites (*Microtermes obesi*) 3. Aphids (*Macrosiphum miscanthi*) Jassids (*Amrasca sp.*	
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 05.10.19				
October	01.10.2019	31.10.2019	**VI. Pests of Stored Grains :** Systematic position, habits and nature of damage of the following pests of stored grains : 1. Pulse Beetle (*Callosobruchus maculates*) alongwith life cycle and control. 2. Rice weevil (*Sitophilus oryzae*) 3. Khapra beetle (*Trogoderma granarium*) 4. Rust red flour beetle (*Tribolum castaneum*) 5. Lesser grain borer (*Rhizoperthadominica*) 6. Rice moth (*Corcyra cephalonica*) **MST'S**	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.11.19				
November	01.11.2019	30.11.2019	Systematic position, disease caused and control of the following insects of Medical and Veterinary importance : 1. Mosquitoes (Aedes,Anopheles, Culex) 2. Sand fly (*Phlebotomus minutus*) 3. House fly (*Musca domestica*) along with life cycle of house fly. 4. Horse fly (*Tabanus striatus*) 5. Blow fly (*Calliphora erythrocephala*) 6. Warble fly (*Hypoderma lineatum*) 7. Poultry louse(*Menopon gallinae*) 8. Sucking louse (*Haematopinus surysternus*) 9. Fleas (*Xenopsylla cheopis*) Comparative studies of mouth parts in Grasshopper, Honeybee, Butterfly, Red Cotton bug, House fly and Mosquito. **Revision and Class test**	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 30.11.19				

Lesson Plan

MCM DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans- Even Semester (Semester-VI)

Session – 2019-20

Department- Zoology

Name of the Teacher- Dr. Ravneet Kaur

Class- B.Sc. III (Medical)

Sections- A & B

Subject- Zoology

Subject- Zoology Paper-II: OPTION-II: ECONOMIC ENTOMOLOGY AND PEST MANAGEMENT-II (ZOO-602B)

Month	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
January	9.01.2020	31.01.2020	**Sericulture** (i) Species of silkworm (ii) Requirements of Sericulture Industry (iii) Grainage Management (iv) Pre and Post-cocoon processing (Stifling & Reeling) (v) Diseases of silkworm. **Apiculture** (i) Species of Honeybees (ii) Flora for Apiculture (iii) Methods & Appliances of Bee Keeping (iv) Products - (a) Honey (b) Bee wax (c) Propolis (d) Pollen (e) Royal Jelly (f) Bee Venom (v) Diseases of Honey bee	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.02.20				
February	01.02.2020	28.02.2020	**Lac Culture** (i) Species and varities of Lac insect (ii) Host Plants (iii) Cultivation of Lac (iv) Processing of Lac (v) Lac Industry (vi) Enemies of Lac insect. **Chemical Control** : Types and Classification of Insecticides (a) Insecticides of plant origin with special reference to vicotine; Pyrethrum; Rotenone and Azadirachtin (b) Chlorinated Hydrocarbons insecticides with special reference to DDT; Toxaphene; BNC; Chlordane; Aldrin; Endrin and Endosulfan (c) Organophosphorus Insecticides with special reference	Lecture method, PPT, Videos

			toMalathion;TEPP; Parathion and DDVP	
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 05.03.20				
March	01.03.2020	31.03.2020	**Chemical Control** : Types and Classification of (d) Carbamate Insecticides with reference to Carbaryl and Carbofuran (e) Fumigants with reference to Hydrogen cyanide; Methyl bromide; Ethylene dichloride; Carbon tetrachloride and Aluminium phosphide. **Hazards of chemical control.** **List of banned pesticides**. **MST** **Recent methods of Pest Control**: **Biological Control** : History; Techniques in biological control	Lecture method, PPT, Lecture method, PPT, Videos
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.04.20				
April	01.04.2020	18.04.2020	**Agents of biological Control** (a) Vertebrates (b) Nemathelminthes (c) Arthropods (d) Protozoan; Microbial control with the help of Bacteria, Virus and Fungi. **Integrated Pest Control**: Introduction of IPM: Pre-requisites; Implementation Strategy; Framework of IPM programme and perspectives in IPM. **Revision and Class test**	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 20.04.20				