

Lesson Plan 2021-22

FGM Government College, Adampur

Month wise Lesson Plan for Even Semester 1 April -15 June 2021-2022

Department: ZOOLOGY

Teacher: Ms Devender kumari

Class: B.Sc-II

Subject: Apiculture

Section: 2021-22

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	<ul style="list-style-type: none">History; classification and Biology of Honey Bees.Social Organization of Bee Colony.Artificial Bee rearing (Apiary).	April	
2	<ul style="list-style-type: none">Beehives - Newton and Langstroth; Bee pasturage.Selection of Bee species for Apiculture.Methods of extraction of honey (Indigenous and Modern).	May	Minor test in the 2 nd week of Month Assignment in 3 rd week of month
3	<ul style="list-style-type: none">Revision1st June to 10th June University practical Examination	June	

Devender

Lesson Plan 2021-22

FGM Government College, Adampur

Month wise Lesson Plan for Even Semester 1 April -15 June 2021-2022

Department: ZOOLOGY

Teacher: Ms Devender kumari

Class: B.Sc-III

Subject: Insect, vectors and Diseases I&II

Section: 2021-22

ZOO-604L & ZOO-605L

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	<ul style="list-style-type: none">• General Features of Insects and Morphological features of Head of Insects• Concept of Carriers, Vectors and Reservoirs of Diseases• Classification of Insects and Features of Orders with Insect Vectors• Mosquito-borne Diseases and their Control	April	
2	<ul style="list-style-type: none">• Flies-borne Diseases and their control• Fleas-borne Diseases and their control• Lice-borne Diseases and their control• Bugs-borne Diseases and their control	May	Minor test in the 2 nd week of Month Assignment in 3 rd week of month
3	<ul style="list-style-type: none">• Revision• 1st June to 10th June University practical Examination	June	

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FGM Government College, Adampur

Month wise Lesson Plan for Even Semester 1 April -15 June 2021-2022

Department: ZOOLOGY

Teacher: Ms Devender kumari

Class: B.Sc-I

Subject: Comparative Anatomy and Development

Section: 2021-22

Biology of Vertebrates-I(ZOO 201L)

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	<ul style="list-style-type: none">Derivatives of integument w.r.t. glands and digital tips, Evolution of visceral arches	April	
2	<ul style="list-style-type: none">Brief account of alimentary canal and digestive glands, Gills, lungs, air sacs and swim bladder	May	Minor test in the 2 nd week of Month Assignment in 3 rd week of month
3	<ul style="list-style-type: none">Revision1st June to 10th June University practical Examination	June	



Lesson Plan 2021-22

FGM Government College, Adampur

Month wise Lesson Plan for Even Semester 1 April -15 June 2021-2022

Department: ZOOLOGY

Teacher: Ms Kavita

Class: B.Sc-I

Subject: Comparative Anatomy and Development

Section: 2021-22

Biology of Vertebrates-II(ZOO 202L)

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	<ul style="list-style-type: none">Introduction and scope of development briefly Gametogenesis: Spermatogenesis and oogenesis w.r.t. mammals, vitellogenesis in birds; Fertilization: external (amphibians), internal (mammals), blocks to polyspermy; Early development of frog and humans (structure of mature egg and its membranes)Cleavage and patterns of cleavage, fate map, up to formation of gastrula; types of morphogenetic movements; Fate of germ layers; Neurulation in frog embryo, Implantation of embryo in humans	April	
2	<ul style="list-style-type: none">Formation of human placenta and functions, other types of placenta on the basis of histology Metamorphic events in frog life cycle and its hormonal regulation, Fundamental processes in development (brief idea)-Gene activation, determination, induction, Differentiation, morphogenesis, intercellular communication, cell movements and cell death	May	Minor test in the 2 nd week of Month Assignment in 3 rd week of month
3	<ul style="list-style-type: none">Revision1st June to 10th June University practical Examination	June	



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FGM Government College, Adampur

Month wise Lesson Plan for Even Semester 1 April -15 June 2021-2022

Department: ZOOLOGY

Teacher: Ms Kavita

Class: B.Sc-I

Subject: Comparative Anatomy and Development

Section: 2021-22

Biology of Vertebrates-I(ZOO 201L)

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	<ul style="list-style-type: none">Evolution of heart and aortic arches, Succession of kidney, Evolution of urinogenital ducts	April	
2	<ul style="list-style-type: none">Comparative account of brain, Types of receptors	May	Minor test in the 2 nd week of Month Assignment in 3 rd week of month
3	<ul style="list-style-type: none">Revision1st June to 10th June University practical Examination	June	

Kavita

Lesson Plan 2021-22

FGM Government College, Adampur

Unit wise Lesson Plan for Even Semester April-June 2022

Department :Zoology Department

Teacher: Ms. Kavita

Subject: Paper: Apiculture

Class: B. Sc. 2nd year

Section: Medical

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	Methods of extraction of honey (Indigenous and Modern) Bee diseases and enemies.	1 st april 2022 to 15 april 2022	Assignment
2	Control and preventive measures. Product of Apiculture industry and their uses: Honey ,beeswax, Propolis , Pollens etc.	16 April to 30 april 2022	
3	Bee keeping industry - Recent efforts Modern methods in employing artificial beehives for cross pollination in horticultural gardens.	1 st may 2022 to 15 may 2022	Unit test
4	Revision	16 may 2022 to 15 june 2022	

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Lesson Plan 2021-22

FGM Government College, Adampur

Unit wise Lesson Plan for Even Semester April-June 2022

Department : Zoology Department

Teacher: Ms. Kavita
Subject: Paper: Genetics and evolutionary biology 1

Class: B. Sc. 2nd year
Section: Medical

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	Mendal work Genetic variation Molecular basis of Genetic information Chromosome theory of inheritance Incomplete domiance and co dominance	1 st april 2022 to 15 april 2022	Assignment
2	Multiple alleles Lethal alleles Epistasis Pleiotropy Sex linked inheritance Extra chromosomal inheritance linkage and crossing over Recombination freq. Two factor and three factor crosses Interference and coincidence.	16 April to 30 april 2022	
3	Somatic cell genetics. Chromosomal mutations	1 st may 2022 to 15 may 2022	Unit test
4	Gene mutations: Induced vs spontaneous mutations Back vs suppressor mutations Chromosomal mechanisns Dosage compensation	16 may 2022 to 15 june 2022	

Kavita

Lesson Plan 2021-22

FGM Government College, Adampur

Unit wise Lesson Plan for Even Semester April-June-2022

Department :Zoology Department

Teacher: Ms. Kavita

Subject: Paper:Genetics and evolutionary
biology II

Class: B. Sc.2nd year

Section: Medical

Sr. No.	Description of Chapters/Topics	Expected Duration	Assignment/Test
1	Major Events in History of Life. Theories of organic evolution. Fossils and Geological time scale.	1 st april 2022 to 15 april 2022	Assignment
2	Phylogeny of horse Organic Variations Reproductive Isolating Mechanisms	16 April to 30 april 2022	
3	Natural selection Artificial selection	1 st may 2022 to 15 may 2022	Unit test
4	Biological species concept and speciation. Types of Evolution. Mass extinction.	16 may 2022 to 15 june 2022	

