Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans- Odd Semester (Semester-III)

Session – 2026-27

Department- Zoology

Name of the Teacher- Dr. Sarabjeet Kaur

Class- B.Sc. Semester- III

Subject- Zoology

Course Code: ZOO-DSC-3-Maj/Min-301

Course Title: Animal Physiology

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
July	20.07.2026	31.07.2026	**Digestion**: Extra and Intra Cellular Digestion. Absorption of carbohydrates, proteins and fats	Power point presentation, group discussion, assignments, Flipped classroom method
August	01.08.2026	31.08.2026	**Respiration**: Exchange and transport of respiratory gases, Oxygen dissociation curve, Bohr Effect, Chloride shift and Haldane effect. **Blood**: Composition and functions of blood and lymph, Blood Clotting, Blood groups	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 27.08.2026 to review the progress of syllabus as per lesson plans				
September	01.09.2026	30.09.2026	**Heart:** Origin and conduction of heart beat, cardiac cycle, cardiac output, electrocardiogram and blood pressure. **Excretion**: Structure of nephron, urine formation, composition of urine, osmoregulation and counter current mechanism. **MST**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 23.09.2026 to review the progress of syllabus as per lesson plans				
October	01.10.2026	31.10.2026	**Muscles**: Types of muscles and their structure. Skeletal Muscle Contraction. **Neural Integration**: Structure of neuron, resting membrane potential, origin and propagation of nerve impulse.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 28.10.2026 to review the progress of syllabus as per lesson plans				
November	01.11.2026	13.11.2026	**Endocrine System**: Hormones and functions of Endocrine glands: Hypothalamus, pituitary, thyroid, parathyroid, adrenal, pancreas and gonads. **Revision and Class test**	Powerpoint presentation, group discussion, assignments, Flipped classroom method
End semester Examination from 18.11.2026 to 31.12.2026				

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans- Odd Semester (Semester-III)

Session – 2026-27

Department- Zoology

Name of the Teacher- Dr. Neetu

Class- B.Sc. Semester- III

Subject- Zoology

Course Code: ZOO-DSC-4-Min-302

Course Title: Developmental Biology

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
July	20.07.2026	31.07.2026	Gametogenesis: Spermatogenesis, spermiogenesis, Oogenesis & Vitellogenesis	Power point presentation, group discussion, assignments, Flipped classroom method
August	01.08.2026	31.08.2026	Types of eggs, egg membranes and polarity of egg. Fertilization & parthenogenesis Cleavage: Types of cleavage patterns depending upon amount and distribution of yolk and position of spindle.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 26.08.2026 to review the progress of syllabus as per lesson plans				
September	01.09.2026	30.09.2026	Blastulation and types of blastula. Gastrulation: Definition, Morphogenetic movements & Fate of three germ layers **MST**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 23.09.2026 to review the progress of syllabus as per lesson plans				
October	01.10.2026	31.10.2026	Development up to three germ layers in *Herdmania*, frog, chick and rabbit. Foetal membranes, their formation and role.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 28.10.2026 to review the progress of syllabus as per lesson plans				
November	01.11.2026	17.11.2026	Mammalian placenta – its formation, types and functions. Metamorphosis in *Herdmania* and *Rana* (frog) **Revision and Class test**	Powerpoint presentation, group discussion, assignments, Flipped classroom method
End semester Examination from 18.11.2026 to 31.12.2026				

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans- Even Semester (Semester-IV)

Session – 2026-2027

Department- Zoology

Name of the Teacher- Dr. Sarabjeet Kaur

Class- B.Sc. Semester- IV

Subject- Zoology

Course Code: ZOO-DSC-5 Maj/Min-401

Course Title: Biochemistry

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
January	15.01.2027	31.01.2027	**Biomolecules:** Carbohydrates, proteins, lipids and nucleic acids: their classifications and functions.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 27.01.2027 to review the progress of syllabus as per lesson plans				
February	01.02.2027	28.02.2027	**Enzymes:** Nature, nomenclature, mode of action, their classification, coenzymes and cofactors. **Carbohydrate metabolism:** Embden Meyerhof Parnas pathway (glycolysis), Tricarboxylic Acid Cycle, Glycogenesis.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 24.02.2027 to review the progress of syllabus as per lesson plans				
March	01.03.2027	31.03.2027	**Lipid metabolism:** Beta-oxidation of fatty acids, gluconeogenesis, lipogenesis and ketosis. **Protein metabolism**: Metabolism of amino acids: Oxidative deamination, Transamination. **MST**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 24.03.2027 to review the progress of syllabus as per lesson plans				
April	01.04.2027	26.04.2027	**Protein metabolism:** Decarboxylation and Ornithine cycle. **Revision and Class test**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 21.04.2027 to review the completion of syllabus as per lesson plans				
End semester Examination from 27.04.2027 to 05.06.2027				

Lesson Plan

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans- Even Semester (Semester-IV)

Session – 2026-27

Department- Zoology

Name of the Teacher- Dr. Neetu

Class- B.Sc. Semester- IV

Subject- Zoology

Course Code: ZOO-DSC-4-Maj-402

Course Title: Developmental Biology

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
January	15.01.2027	31.01.2027	Gametogenesis: Spermatogenesis, spermiogenesis, Oogenesis & Vitellogenesis	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 27.01.2027 to review the progress of syllabus as per lesson plans				
February	01.02.2027	28.02.2027	Types of eggs, egg membranes and polarity of egg. Fertilization & parthenogenesis Cleavage: Types of cleavage patterns depending upon amount and distribution of yolk and position of spindle.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 24.02.2027 to review the progress of syllabus as per lesson plans				
March	01.03.2027	31.03.2027	Blastulation and types of blastula. Gastrulation: Definition, Morphogenetic movements & Fate of three germ layers. Development up to three germ layers in *Herdmania*, frog, chick and rabbit. Foetal membranes, their formation and role. **MST**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 24.03.2027 to review the progress of syllabus as per lesson plans				
April	01.04.2027	25.04.2027	Mammalian placenta – its formation, types and functions. Metamorphosis in *Herdmania* and *Rana* (frog) **Revision and Class test**	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 21.04.2027 to review the completion of syllabus as per lesson plans				
End semester Examination from 27.04.2027 to 05.06.2027				