

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Jyoti

Class- B.Sc.III Medical

Subject- Zoology

Paper- I (Environmental Biology)

<b>August, 2023</b> 1 <sup>st</sup> Week 4Aug - 5 Aug	<b>Topic-Ecology</b> <ul style="list-style-type: none"><li>• Introduction of ecology</li><li>• Level of Organization of ecology</li><li>• Environment: General introduction</li></ul>
<b>6 Aug, 2023</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 7 Aug , 11-12 Aug	<b>Topic-Environment</b> <ul style="list-style-type: none"><li>• Environment: Abiotic Factors- Light, temperature, soil etc.</li><li>• Environment: Biotic Factors- flora and fauna</li></ul>
<b>13 Aug, 2023</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 14 Aug, 18-19 Aug	<b>Topic - Ecosystem</b> <ul style="list-style-type: none"><li>• Introduction, Definition and kinds of ecosystem</li><li>• Component of Ecosystem</li><li>• Examples of Ecosystem</li></ul>
<b>15 Aug, 2023</b> <b>20 Aug, 2023</b>	<b>Independence Day</b> <b>Sunday</b>
4 <sup>th</sup> Week 21Aug, 25 -26 Aug	<b>Topic– Ecosystem</b> <ul style="list-style-type: none"><li>• Food chain</li><li>• food web</li><li>• Energy flow in an Ecosystem</li><li>• Trophic level</li></ul>
<b>27 Aug, 2023</b>	<b>Sunday</b>
5 <sup>th</sup> Week 28 Aug	<b>Topic: Ecosystem –</b> <ul style="list-style-type: none"><li>• Productivity</li><li>• Gross and net productivity</li></ul>
<b>30 Aug, 2023</b>	<b>Raksha Bandhan</b>

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<b>September, 2023</b> 1 <sup>st</sup> Week 1 Sept - 2 Sept	<b>Topic: Ecosystem</b> <ul style="list-style-type: none"><li>• Introduction and types of biomes</li><li>• Terrestrial Biomes Aquatic Biomes</li><li>• Introduction of gaseous cycle</li><li>• Types of gaseous cycle</li><li>• Types of Biochemical Cycles(Sedimentary Cycle)</li></ul>
<b>3 Sept, 2023</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 4Sept,8 - 9 Sept	<b>Topic: Population</b> <ul style="list-style-type: none"><li>• Introduction</li><li>• Characteristics of population</li><li>• Regulation of population</li></ul>
<b>5 Sept, 2023</b> <b>7 Sept, 2023</b> <b>10 Sept, 2023</b>	<b>Talent Show</b> <b>Janmastami</b> <b>Sunday</b>
3 <sup>rd</sup> Week 11 Sept,15-16 Sept	<b>Topic: Population</b> <ul style="list-style-type: none"><li>• Factors determining Growth rate of population</li><li>• Methods to control overpopulation</li></ul> <b>Topic: Biodiversity</b> <ul style="list-style-type: none"><li>• Introduction and levels of biodiversity</li></ul>
<b>17 Sept, 2023</b>	<b>Sunday</b>
4 <sup>th</sup> Week 18 Sept ,22 Sept	<b>Topic: Biodiversity</b> <ul style="list-style-type: none"><li>• The IUCN Red List threat categories</li><li>• Biodiversity conservation</li><li>• In situ conservation and ex situ conservation</li></ul>
<b>23 Sept, 2023</b> <b>24 Sept, 2023</b> <b>25 Sept, 2023</b>	<b>Shaheed Divas/Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Annual Prize Distribution Function</b>
5 <sup>th</sup> Week 29 Sept - 30 Sept	<b>Topic: Natural Resources</b> <ul style="list-style-type: none"><li>• Study of natural resources(renewable)</li><li>• Study of classes of natural resources(non-renewable)</li><li>• Conservation and management methods</li></ul>

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Subject- Zoology

Paper-I (Environmental Biology)

<b>October, 2023</b> <b>1 Oct , 2023</b> <b>2 Oct, 2023</b>	<b>Sunday</b> <b>Mahatama Gandhi Jayanti</b>
<b>1<sup>st</sup> Week</b> <b>6 Oct – 7 Oct</b>	<b>Topic: Migration in fishes and birds</b> <ul style="list-style-type: none"><li>• Migration in fishes</li><li>• Types of migration</li><li>• Reasons of migration</li></ul>
<b>8 Oct, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>9 Oct, 13 -</b> <b>14 Oct</b>	<b>Topic: Migration in fishes and birds</b> <ul style="list-style-type: none"><li>• Migration in birds</li><li>• Guiding mechanism in bird navigation</li></ul>
<b>15 Oct, 2023</b>	<b>Maharaja Agrasen Jayanti, Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>16 Oct ,20- 21</b> <b>Oct</b>	<b>Topic: Parental care in animals</b> <ul style="list-style-type: none"><li>• Parental care in birds and mammals</li></ul> <b>Topic: Population interactions</b> <ul style="list-style-type: none"><li>• Definition, introduction of biotic community</li><li>• Characteristics of biotic community</li></ul>
<b>22 Oct, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>23 Oct ,27 Oct</b>	<b>Topic: Population interaction</b> <ul style="list-style-type: none"><li>• Introduction of Interspecific Interaction and Intraspecific Interaction</li><li>• Competition</li><li>• Predation</li><li>• Parasitism</li></ul>
<b>24 Oct, 2023</b> <b>28 Oct, 2023</b> <b>29 Oct, 2023</b>	<b>Dussehra</b> <b>Maharishi Valmiki Jayanti</b> <b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>31 Oct</b>	<b>Sessional Exam</b>
<b>3- 4 Nov, 2023</b>	<b>Topic: Ecological succession</b> <ul style="list-style-type: none"><li>• Introduction and its type</li></ul>

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Name of the Teacher –Ms. Jyoti

Class- B.Sc. III Medical

Subject - Zoology

Paper- I (Environmental Biology)

<b>November, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Nov, 2023</b> <b>5 Nov, 2023</b>	<b>Haryana Day</b> <b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>6 Nov</b>	<b>Topic: Environmental Pollution</b> <ul style="list-style-type: none"><li>• Introduction of pollutants</li><li>• types of pollutants</li></ul>
<b>10 Nov – 16 Nov, 2023</b>	<b>Diwali Break</b>
<b>3<sup>rd</sup> Week</b> <b>17 Nov - 18 Nov</b>	<b>Topic: Environmental Pollution</b> <ul style="list-style-type: none"><li>• Air pollution and its control</li><li>• Water pollution and its control</li><li>• Soil pollution and its control</li></ul>
<b>19 Nov, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 Nov,</b> <b>24 Nov</b>	<b>Topic: Environmental Pollution</b> <ul style="list-style-type: none"><li>• Radioactive pollution and its management</li><li>• Noise pollution and its ill effects</li></ul>
<b>5<sup>th</sup> Week</b> <b>25 Nov, 2023</b> <b>Onwards</b>	<b>University Examination</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Jyoti

Class- B.Sc. II (Medical)

Subject- Zoology

Paper- 1(Life and Diversity of Chordates-1)

<b>August, 2023</b> 1 <sup>st</sup> Week 1 Aug - 2Aug	<b>Topics: Phylum Chordata</b> <ul style="list-style-type: none"><li>• Introduction of Phylum Chordata</li><li>• Origin and Evolutionary tree</li><li>• Characteristics of Chordata</li></ul>
<b>6 Aug, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> 7 Aug - 9 Aug	<b>Topics: Phylum Chordata</b> <ul style="list-style-type: none"><li>• Classification of Chordata</li><li>• Subphylum of Phylum Chordata- Urochordata</li><li>• Characteristics, Classification and affinities of Urochordata</li></ul>
<b>13 Aug, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> 14 Aug-16 Aug	<b>Topics: Sub Phylum Urochordata</b> <ul style="list-style-type: none"><li>• Type study of <i>Herdmania</i>: External features, Digestive System</li><li>• Circulatory System (Heart, Arterial system and venous system)</li><li>• Respiratory system</li></ul>
<b>15 Aug, 2023</b> <b>20 Aug, 2023</b>	<b>Independence Day</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> 21 Aug - 23 Aug	<b>Topics: SubPhylum Urochordata</b> <ul style="list-style-type: none"><li>• Type study of <i>Herdmania</i>: Excretory system</li><li>• Sense organs</li><li>• Reproductive system</li></ul>
<b>27 Aug, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> 28 Aug - 29Aug	<b>Topics: SubPhylum Cephalochordata</b> <ul style="list-style-type: none"><li>• Introduction of Sub-Phylum Cephalochordata: Characteristics Classification and Affinities</li></ul>
<b>30 Aug, 2023</b>	<b>Raksha Bandhan</b>

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Name of the Teacher –Ms. Jyoti

Class- B.Sc. II (medical)

Subject- Zoology

Paper- 1(Life and Diversity of Chordates-1)

<b>September, 2023</b> 1 <sup>st</sup> Week 4Sept - 6Sept	<b>Topics: SubPhylum Cephalochordata</b> <ul style="list-style-type: none"><li>• Type study of <i>Amphioxus</i>: External features</li><li>• Type study of <i>Amphioxus</i>: Digestive System</li><li>• Type study of <i>Amphioxus</i>: Circulatory system and respiratory system</li></ul>
<b>3 Sept, 2023</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 11 Sept - 13Sept	<b>Topics: SubPhylum Cephalochordata</b> <ul style="list-style-type: none"><li>• Type study of <i>Amphioxus</i>: Excretory system and sense organs</li><li>• Reproductive system</li></ul>
<b>5 Sept, 2023</b> <b>7 Sept, 2023</b> <b>10 Sept, 2023</b>	<b>Talent Show</b> <b>Janmastami</b> <b>Sunday</b>
3 <sup>rd</sup> Week 11 Sept-16 Sept	<b>Topics: Class- Cyclostomata</b> <ul style="list-style-type: none"><li>• Introduction of class Cyclostomata: Characteristics</li><li>• Class Cyclostomata - Classification and Affinities</li></ul>
<b>17 Sept, 2023</b>	<b>Sunday</b>
4 <sup>th</sup> Week 18 Sept – 20 Sept	<b>Topics: Class- Cyclostomata</b> <ul style="list-style-type: none"><li>• Type study of <i>Petromyzon</i>: External Features</li><li>• Digestive system</li><li>• Circulatory System and Respiratory System</li></ul>
<b>23 Sept, 2023</b> <b>24 Sept, 2023</b> <b>25 Sept, 2023</b>	<b>Shaheedi Divas/Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Annual Prize Distribution Function</b>
5 <sup>th</sup> Week 26 Sept - 27 Sept	<b>Topics: Class- Cyclostomata</b> <ul style="list-style-type: none"><li>• Type study of <i>Petromyzon</i>: Nervous System</li><li>• Lateral line and Reproductive System</li><li>• Sense organ –Ear, Eye and Olfactory organs</li></ul>

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Subject- Zoology

Paper- 1(Life and Diversity of Chordates-1)

<b>October, 2023</b> <b>1 Oct, 2023</b> <b>2 Oct, 2023</b>	<b>Sunday</b> <b>Mahatama Gandhi Jayanti</b>
<b>1<sup>st</sup> Week</b> <b>3 Oct</b>	<b>Topics: Class- Cyclostomata</b> Type study of <i>Petromyzon</i> : Ammocoetus Larva
<b>8 Oct, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>11Oct - 13 Oct</b>	<b>Topics: Class: Pisces</b> <ul style="list-style-type: none"><li>• Introduction of class Pisces: General introduction</li><li>• Characteristics, Classification and Affinities</li><li>• Scales in Fishes</li></ul>
<b>15 Oct, 2023</b>	<b>Maharaja Agrasen Jayanti, Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>18Oct - 20 Oct</b>	<b>Topics: Class: Pisces</b> <ul style="list-style-type: none"><li>• Parental Care in Fishes</li><li>• Migration in Fishes</li></ul>
<b>22 Oct, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>25 Oct – 27 Oct</b>	<b>Topics: Class: Pisces</b> <ul style="list-style-type: none"><li>• Type Study of <i>Labeo rohita</i>: External Features and Digestive System</li><li>• Respiratory System</li></ul>
<b>24 Oct, 2023</b> <b>28 Oct, 2023</b> <b>29 Oct, 2023</b>	<b>Dussehra</b> <b>Maharishi Valmiki Jayanti</b> <b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>30 Oct – 31 Oct</b>	<b>Topics: Class: Pisces</b> <ul style="list-style-type: none"><li>• Type Study of <i>Labeo rohita</i>: Blood vascular System- Heart, arterial system, venous system</li><li>• Nervous System- Brain, cranial nerves, spinal nerves</li></ul>
<b>3NOV, 2023</b>	<b>Sessional Exams</b>

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Name of the Teacher –Ms. Jyoti

Class- B.Sc. II (medical)

Subject- Zoology

Paper- 1 (Life and Diversity of Chordates-1)

<b>November, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Nov, 2023</b> <b>5 Nov, 2023</b>	<b>Haryana Day</b> <b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>6 Nov – 8 Nov</b>	<b>Topics: Class: Pisces</b> <ul style="list-style-type: none"><li>• Type Study of <i>Labeo rohita</i>- Excretory System (kidney structure and physiology)</li><li>• Male and Female Reproductive System</li></ul>
<b>10 Nov – 16 Nov, 2023</b>	<b>Diwali Break</b>
<b>3<sup>rd</sup> Week</b> <b>17 Nov - 18 Nov</b>	<b>Topics: Class: Pisces</b> <ul style="list-style-type: none"><li>• Type Study of <i>Labeo rohita</i>- Sense organ</li><li>• Lateral line sense organ</li><li>• Olfactory organ</li><li>• Eye</li><li>• Ear</li></ul>
<b>19 Nov, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 Nov - 23 Nov</b>	<b>REVISION OF TOPICS</b>
<b>5<sup>th</sup> Week</b> <b>25 Nov, 2023</b> <b>Onwards</b>	<b>University Examination</b>



# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Nisha

Class- B.Sc. III (Medical)

Subject- Zoology

Paper- II (Evolution and Developmental Biology)

<b>August, 2023</b> 2 <sup>nd</sup> Week 8 Aug -10 Aug	<b>Topics: Origin of life – I</b> <ul style="list-style-type: none"><li>• Origin of Universe</li><li>• Organic compounds, Coacervates, Biomolecules</li></ul> <b>Origin of life - II</b> <ul style="list-style-type: none"><li>• Prokaryotes cells</li><li>• Oxygen Revolution</li><li>• Eukaryotes cells</li></ul>
<b>6 Aug, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> 15 Aug - 17 Aug	<b>Topic: Organic Evolution –I</b> <ul style="list-style-type: none"><li>• Historical Aspects of Evolution</li><li>• Evidences of Organic Evolution</li><li>• Morphological and Anatomical Evidences</li></ul>
<b>13 Aug, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> 22Aug-24 Aug	<b>Topic: Organic Evolution –I</b> <ul style="list-style-type: none"><li>• Embryological Evidences</li><li>• Palaeontological Evidences</li><li>• Biochemical or Physiological Evidences</li></ul>
<b>15 Aug, 2023</b> <b>20 Aug, 2023</b>	<b>Independence Day</b> <b>Sunday</b>
<b>5<sup>th</sup> Week</b> 29 Aug - 31 Aug	<b>Topic: Organic Evolution –I</b> <ul style="list-style-type: none"><li>• Biochemical or Physiological Evidences</li><li>• Biogeographical Evidences</li><li>• Cytological Evidences</li></ul>
<b>27 Aug, 2023</b>	<b>Sunday</b>
<b>30 Aug, 2023</b>	<b>Raksha Bandhan</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Nisha

Class-B.Sc. III (Medical)

Subject-Zoology

Paper-II (Evolution and Developmental Biology)

<b>September, 2023</b> 1 <sup>st</sup> Week 5 Sept - 7 Sept	<b>Topic: theory of evolution</b> <ul style="list-style-type: none"><li>• Lamarckism</li><li>• Darwinism</li></ul>
<b>3 Sept, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> 12Sept - 14 Sept	<b>Topic: theory of evolution</b> <ul style="list-style-type: none"><li>• Mutation theory of Evolution</li><li>• Neo-Darwinism Or modern concept of evolution</li><li>• Natural Selection and its examples</li></ul>
<b>5 Sept, 2023</b> <b>7 Sept, 2023</b> <b>10 Sept, 2023</b>	<b>Talent Show</b> <b>Janmastami</b> <b>Sunday</b>
<b>3<sup>rd</sup> Week</b> 19 Sept-21 Sept	<b>Topics: Developmental Biology</b> <ul style="list-style-type: none"><li>• Historical Background of Developmental Biology</li><li>• Gametogenesis</li><li>• Spermatogenesis</li></ul>
<b>17 Sept, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> 26 Sept - 28 Sept	<b>Topics: Developmental Biology</b> <ul style="list-style-type: none"><li>• Fertilization</li><li>• Parthenogenesis</li></ul>
<b>23 Sept, 2023</b> <b>24 Sept, 2023</b> <b>25 Sept, 2023</b>	<b>Shaheedi Divas/Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Annual Prize Distribution Function</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Nisha

Class-B.Sc. III (Medical)

Subject- Zoology

Paper- II (Evolution and Developmental Biology)

<b>October, 2023</b> 1 Oct , 2023 2 Oct, 2023	<b>Sunday</b> <b>Mahatama Gandhi Jayanti</b>
<b>1<sup>st</sup> Week</b> 3 Oct – 5 Oct	<b>Topic: Cleavage</b> <ul style="list-style-type: none"><li>• Cleavage</li><li>• Blastulation</li></ul>
<b>8 Oct, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> 10 Oct - 12 Oct	<b>Topic: Development of frog</b> <ul style="list-style-type: none"><li>• Fertilization</li><li>• Blastulation</li></ul>
<b>15 Oct, 2023</b>	<b>Maharaja Agrasen Jayanti, Sunday</b>
<b>3<sup>rd</sup> Week</b> 17 Oct - 19 Oct	<ul style="list-style-type: none"><li>• <b>Topic: Development of frog</b></li><li>• Development of Frog: Gastrulation</li><li>• Development of Chick – Blastulation</li><li>• Gastrulation</li></ul>
<b>22 Oct, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> 25 Oct – 26 Oct	<ul style="list-style-type: none"><li>• Embryonic Induction (Primary Organizers)</li><li>• Extra-embryonic Membranes</li></ul>
<b>24 Oct, 2023</b> <b>28 Oct, 2023</b> <b>29 Oct, 2023</b>	<b>Dussehra</b> <b>Maharishi Valmiki Jayanti</b> <b>Sunday</b>
<b>5<sup>th</sup> Week</b> 31 Oct	<b>Topic: Competence, Determination and Differentiation</b> <ul style="list-style-type: none"><li>• Competence</li><li>• Determination</li><li>• Differentiation</li></ul>
<b>25 Oct – 4 Nov, 2023</b>	<b>Sessional Exams: 2<sup>th</sup> November</b>

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Name of the Teacher –Nisha

Class-B.Sc.III (Medical)

Subject- Zoology

Paper- II (Evolution and Developmental Biology)

November, 2023 1 <sup>st</sup> Week 2 Nov, 2023	<ul style="list-style-type: none"><li>• Repair and regeneration</li><li>• Revision</li></ul>
1Nov, 2023 5Nov, 2023	<b>Haryana Day Sunday</b>
2 <sup>nd</sup> Week 7Nov – 9 Nov	<ul style="list-style-type: none"><li>• <b>Types of Evolution</b></li><li>• Micro Evolution</li><li>• Macro Evolution</li><li>• Mega-Evolution</li></ul>
10 Nov - 16 Nov, 2023	<b>Diwali Break</b>
4 <sup>th</sup> Week 21Nov - 23 Nov	<b>Topic: Evolution</b> <ul style="list-style-type: none"><li>• Concept of Species</li><li>• Pre-Mating Mechanisms</li><li>• Post-Mating Mechanisms</li><li>• Phylogeny of Horse</li></ul>
19 Nov, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 28 Nov – 30 Nov	<b>Topic: Evolution</b> <ul style="list-style-type: none"><li>• Human Evolution</li><li>• Revision of topics</li></ul>
5 <sup>th</sup> Week 25 Nov, 2023 Onwards	<b>University Examination</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Nisha

Class- B.Sc. II (Medical)

Subject- Zoology

Paper-II (Mammalian Physiology –I)

<b>August, 2023</b> 1 <sup>st</sup> Week 3 Aug - 5 Aug	<b>Topics: Biochemistry</b> <ul style="list-style-type: none"><li>• Introduction and scope</li><li>• Proteins: Introduction, definition and Classification</li><li>• Proteins: functions</li></ul>
<b>6 Aug, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> 10 Aug - 12 Aug	<b>Topics: Carbohydrates</b> <ul style="list-style-type: none"><li>• Introduction, Definition and Classification</li><li>• Structure of Carbohydrates</li><li>• Functions of Carbohydrates</li></ul>
<b>13 Aug, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> 17 Aug-19 Aug	<b>Topics: Lipids</b> <ul style="list-style-type: none"><li>• Introduction, definition and Classification</li><li>• Structure of Lipid</li><li>• Function of Lipids</li></ul>
<b>15 Aug, 2023</b> <b>20 Aug, 2023</b>	<b>Independence Day</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> 24 Aug - 26 Aug	<b>Topics: Enzymes</b> <ul style="list-style-type: none"><li>• Introduction, definition and Classification</li><li>• Properties of enzyme</li><li>• Regulation of Enzymatic activity</li></ul>
<b>27 Aug, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> 31Aug-2 Sept	<b>Topics: Biophysics</b> <ul style="list-style-type: none"><li>• Buffer system</li><li>• Biomembranes</li></ul>
<b>30 Aug, 2023</b>	<b>Raksha Bandhan</b>

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(August - December)

Name of the Teacher – Nisha

Class-B.Sc. II (Medical)

Subject-Zoology

Paper- II (Mammalian Physiology-I)

<b>September, 2023</b> 2 <sup>nd</sup> Week 8 Sept - 9 Sept	<b>Topics: Biophysics</b> <ul style="list-style-type: none"><li>• Active transport</li><li>• Passive transport</li></ul>
<b>3 Sept, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> 14 Sept - 16 Sept	<b>Topics: Biophysics</b> <ul style="list-style-type: none"><li>• Endocytosis</li><li>• Exocytosis</li><li>• Topics: Nutrition</li><li>• Types of nutrition mechanism</li><li>• Types of digestion</li><li>• Types of Feeding mechanism</li></ul>
<b>5 Sept, 2023</b> <b>7 Sept, 2023</b> <b>10 Sept, 2023</b>	<b>Talent Show</b> <b>Janmastami</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> 21 Sept-22 Sept	<b>Topics: Nutrition</b> <ul style="list-style-type: none"><li>• Types of digestion</li><li>• Types of Feeding mechanism</li><li>• Digestion of Carbohydrates</li></ul>
<b>17 Sept, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> 28 Sept - 30 Sept	<b>Topics: Nutrition</b> <ul style="list-style-type: none"><li>• Lactose intolerance</li><li>• Digestion of Protein</li><li>• Digestion of Fat</li><li>• Absorption of nutrients: physio-chemical mechanism</li></ul>
<b>23 Sept, 2023</b> <b>24 Sept, 2023</b> <b>25 Sept, 2023</b>	<b>Shaheedi Divas/Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Annual Prize Distribution Function</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Nisha

Class- B.Sc. II (Medical)

Subject- Zoology

Paper- II (Mammalian Physiology-I)

<b>October, 2023</b> <b>1 Oct, 2023</b> <b>2 Oct, 2023</b>	<b>Sunday</b> <b>Mahatama Gandhi Jayanti</b>
<b>1<sup>st</sup> Week</b> <b>5 Oct – 7 Oct</b>	<b>Topics: Nutrition</b> <ul style="list-style-type: none"><li>• Absorption of nutrients: Physio-chemical mechanism</li><li>• Absorption of Carbohydrates</li><li>• Absorption of Amino acids</li></ul>
<b>8 Oct, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>12 Oct - 14 Oct</b>	<b>Topic: Nutrition</b> <ul style="list-style-type: none"><li>• Absorption of Fats</li><li>• Absorption of cholesterol</li><li>• Assimilation, Hormonal control in digestion</li></ul>
<b>15 Oct, 2023</b>	<b>Maharaja Agrasen Jayanti, Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>19 Oct - 21 Oct</b>	<b>Topic: Muscle Physiology</b> <ul style="list-style-type: none"><li>• Introduction definition</li><li>• Types of Muscle,</li><li>• Ultra structure of myofibrillar filaments</li><li>• Characteristics of Muscles</li></ul>
<b>22 Oct, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>26 Oct – 27 Oct</b>	<b>Topic: Muscle Physiology</b> <ul style="list-style-type: none"><li>• Types of Muscle fibers</li><li>• Neuro- Muscular Junction</li><li>• Physical changes in Muscle contraction</li></ul>
<b>24 Oct, 2023</b> <b>28 Oct, 2023</b> <b>29 Oct, 2023</b>	<b>Dussehra</b> <b>Maharishi Valmiki Jayanti</b> <b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>30 Oct – 31 Oct</b>	<b>Topic: Muscle Physiology</b> <ul style="list-style-type: none"><li>• Chemical changes in Muscle contraction</li><li>• Oxygen debt and Cori's cycle</li></ul>
<b>25 Oct – 4 Nov, 2023</b>	<b>Sessional Exam: 4 November</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023

(August - December)

Name of the Teacher –Nisha

Class-B.Sc. II(Medical)

Subject-Zoology

Paper- II (Mammalian Physiology-I)

<b>November, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Nov, 2023</b> <b>5 Nov, 2023</b>	<b>Haryana Day</b> <b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>9 Nov</b>	<b>Topic: Bone and Bone disorders</b> <ul style="list-style-type: none"><li>• Structure and types of bones</li></ul>
<b>10 Nov - 16 Nov, 2023</b>	<b>Diwali Break</b>
<b>3<sup>rd</sup> Week</b> <b>17 Nov - 18 Nov</b>	<b>Topic: Bone And Bone Disorders</b> <ul style="list-style-type: none"><li>• Effect of ageing on Skeleton</li><li>• Bone Growth and Resorption</li></ul>
<b>19 Nov, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 Nov - 24 Nov</b>	<b>Topic: Bone And Bone Disorders</b> <ul style="list-style-type: none"><li>• Bone Disorders</li><li>• Revision of topics</li></ul>
<b>5<sup>th</sup> Week</b> <b>25 Nov, 2023</b> <b>Onwards</b>	<b>University Examination</b>



# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Shruti Bhargav

Class- B.Sc. I Medical

Subject- Zoology

Paper- Animal Diversity of Non-Chordates

<b>August, 2023</b> 1 <sup>st</sup> Week 4Aug - 5 Aug	<b>Topic-Nonchordates</b> <ul style="list-style-type: none"><li>• General characters</li><li>• Classification</li></ul>
<b>6 Aug, 2023</b>	<b>Sunday</b>
2 <sup>nd</sup> Week 7 Aug - 9 Aug	<b>Topic- Phylum Protozoa</b> <ul style="list-style-type: none"><li>• Introduction of Phylum Protozoa</li><li>• Characteristics of Protozoa</li><li>• Classification of protozoa</li></ul>
<b>13 Aug, 2023</b>	<b>Sunday</b>
3 <sup>rd</sup> Week 14 Aug-16 Aug	<b>Topic- Phylum Protozoa</b> <ul style="list-style-type: none"><li>• Type study of <i>plasmodium vivax</i>:</li><li>• Life cycle of <i>plasmodium vivax</i>: <i>Asexual &amp; Sexual</i></li></ul>
<b>15 Aug, 2023</b> <b>20 Aug, 2023</b>	<b>Independence Day</b> <b>Sunday</b>
4 <sup>th</sup> Week 21 Aug - 23 Aug	<b>Topic- Phylum Porifera</b> <ul style="list-style-type: none"><li>• Introduction of phylum Porifera</li><li>• Characteristics of porifera</li><li>• Classification of porifera</li></ul>
<b>27 Aug, 2023</b>	<b>Sunday</b>
5 <sup>th</sup> Week 28Aug - 29Aug	<b>Topic- Phylum Porifera</b> <ul style="list-style-type: none"><li>• Type study of <i>sycon</i></li><li>• Canal system of sycon</li><li>• Histology of sycon</li><li>• Physiology</li><li>• Reproduction &amp; development</li></ul>
<b>30 Aug, 2023</b>	<b>Raksha Bandhan</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Shruti Bhargav  
Class- B.Sc. I Medical  
Subject- Zoology  
Paper- Animal Diversity of NonChordates

<b>3 Sept, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>4Sept - 6 Sept</b>	<b>Topic: Phylum Coelenterate</b> <ul style="list-style-type: none"><li>• General characters</li><li>• Classification of phylum coelenterata</li><li>• Type study of <i>Obelia</i></li><li>• Polymorphism</li><li>• Physiology</li><li>• Reproduction &amp; Life history</li></ul>
<b>5 Sept, 2023</b> <b>7 Sept, 2023</b> <b>10 Sept, 2023</b>	<b>Talent Show</b> <b>Janmashtami</b> <b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>11 Sept-13 Sept</b>	<b>Topic: Phylum Platyhelminthes</b> <ul style="list-style-type: none"><li>• General characters</li><li>• classification</li><li>• Type study of <i>fasciola hepatica</i></li><li>• Morphology</li><li>• Digestive system</li><li>• Respiratory &amp; reproductive system</li><li>• Development &amp; life history</li></ul>
<b>17 Sept, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>18 Sept - 20 Sept</b>	<b>Topic: Phylum Platyhelminthes</b> <ul style="list-style-type: none"><li>• Development &amp; life history of <i>Fasciola hepatica</i></li></ul>
<b>23 Sept, 2023</b> <b>24 Sept, 2023</b> <b>25 Sept, 2023</b>	<b>Shaheed Divas/Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Annual Prize Distribution Function</b>
<b>5<sup>th</sup> Week</b> <b>26 - 27 Sept</b>	<b>Topic: Phylum Aschehelminthes</b> <ul style="list-style-type: none"><li>• General characters</li><li>• Classification of Ascahelminthes</li></ul> <b>Topic: Phylum Annelida</b> <ul style="list-style-type: none"><li>• General characters &amp; classification of Annelida</li></ul>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Shruti Bhargav

Class- B.Sc. I Medical

Subject- Zoology

Paper-Animal Diversity of Nonchordates

<b>October, 2023</b> <b>1 Oct, 2023</b> <b>2 Oct, 2023</b>	<b>Sunday</b> <b>Mahatama Gandhi Jayanti</b>
<b>1<sup>st</sup> Week</b> <b>3 Oct – 4 Oct</b>	<b>Topic: Phylum Annelida</b> <ul style="list-style-type: none"><li>• Type study of <i>Pheretima potshuma</i></li><li>• Morphology</li><li>• Digestive system</li><li>• Circulatory system</li><li>• Respiratory system</li><li>• Reproductive system</li></ul>
<b>8 Oct, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>9 Oct - 11 Oct</b>	<b>Topic: Phylum Arthropoda</b> <ul style="list-style-type: none"><li>• General characters &amp; classification of Arthropod</li><li>• Type study of <i>Periplaneta Americana</i></li><li>• Morphology</li><li>• Digestive system</li><li>• Circulatory system</li><li>• Respiratory system</li></ul>
<b>15 Oct, 2023</b>	<b>Maharaja Agrasen Jayanti, Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>16 Oct - 18 Oct</b>	<b>Topic: Phylum Arthropoda</b> <ul style="list-style-type: none"><li>• Sense organs of cockroach</li><li>• Reproductive system</li><li>• Life history</li></ul>
<b>22 Oct, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>23 Oct – 27 Oct</b>	<b>Topic: Phylum Mollusca</b> <ul style="list-style-type: none"><li>• General characters &amp; classification of Mollusca</li><li>• Type study of <i>Pila</i></li><li>• Morphology</li><li>• Digestive system</li></ul>
<b>24 Oct, 2023</b> <b>28 Oct, 2023</b> <b>29 Oct, 2023</b>	<b>Dussehra</b> <b>Maharishi Valmiki Jayanti</b> <b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>30 Oct – 31 Oct</b>	<b>Topic: Phylum Mollusca</b> <ul style="list-style-type: none"><li>• Nervous System &amp; Reproductive system of <i>Pila</i></li></ul>
<b>25 Oct -4 Nov,23</b>	<b>Sessional Exams: 31 Oct</b>

**KVA DAV College for Women, Karnal**  
**Lesson Plan for the Odd Semester, 2023**  
**(August - December)**

**Name of the Teacher –Shruti Bhargav**  
**Class- B.Sc. I Medical**  
**Subject- Zoology**  
**Paper- Animal Diversity of Nonchordates**

<b>November, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Nov, 2023</b> <b>5 Nov, 2023</b>	<b>Haryana Day</b> <b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>6 Nov – 8 Nov</b>	<b>Topic: Phylum Echinodermata</b> <ul style="list-style-type: none"> <li>• General characters &amp; classification of Echinodermata</li> <li>• Type study of <i>Asterias</i></li> <li>• Morphology</li> <li>• Digestive system</li> <li>• Respiratory system</li> <li>• Nervous System &amp; Reproductive system of <i>Pila</i></li> </ul>
<b>10 Nov - 16 Nov, 2023</b>	<b>Diwali Break</b>
<b>4<sup>th</sup> Week</b> <b>20 Nov - 22 Nov</b>	<b>Topic: Phylum Hemichordata:</b> <ul style="list-style-type: none"> <li>• General characters</li> <li>• Classification</li> </ul>
<b>19 Nov, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>25 Nov, 2023</b> <b>Onwards</b>	<b>University Examination</b>