





**SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)**  
Rahmath Nagar, Tirunelveli - 627 011

**Lesson Plan**  
**Academic Year 2019-2020 [Odd Semester]**  
**Department: Zoology**

<b>Class</b>	:	B.Sc ZOOLOGY
<b>Semester</b>	:	V
<b>Name of the Faculty</b>	:	DR.M.SITHI JAMEELA
<b>Title of the Course</b>	:	Genetics
<b>Subject Code</b>	:	18UCZO52


Sl. No	Date	Order	Unit	Topics Planned	Topics Covered on
1	17.6.2019	A	I	Mendelian laws.	17.6.19
2	19.6.2019	C	I	Mendelian laws.	19.6.2019
3	20.6.2019	D	I	Multiple alleles - A, B, O blood groups, Rh	20.6.19
4	21.6.2019	E	I	Multiple alleles - A, B, O blood groups, Rh	21.6.19
5	24.6.2019	F	I	Phenotypic ratio -Co-dominance	24.6.19
6	25.6.2019	A	I	Phenotypic ratio -Co-dominance	25.6.19
7	27.6.2019	C	I	Rh factors in man.,	27.6.19

  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on
8	28.6.2019	D	I	Multiple genes - skin colour in man.,	28.6.19
9	1.7.2019	E	I	Phenotypic ratio -Co-dominance	1.7.19
10	2.7.2019	F	I	Phenotypic ratio -Co-dominance	2.7.19
11	3.7.2019	A	I	Incomplete dominance,	3.7.19
12	5.7.2019	C	I	lethal genes,	5.7.19
13	8.7.2019	D	I	Penetrance Expressivity and pleiotropism	8.7.19
14	9.7.2019	E	I	Penetrance Expressivity and pleiotropism.	9.7.19
15	10.7.2019	F	I	Linkage,	10.7.19
16	11.7.2019	A	I	Crossing over	11.7.19
17	15.7.2019	C	II	Sex determination in man, sex chromosomes	15.7.19
18	16.7.2019	D	II	sex linked inheritance in man,	16.7.19
19	17.7.2019	E	II	sex linked inheritance in man,	17.7.19
20	18.7.2019	F	II	sex limited genes, sex influenced genes	18.7.19
21	19.7.2019	A	II	nondisjunction in man (Klinefelter's syndrome,	19.7.19
22	23.7.2019	C	II	Turner's syndrome,	23.7.19

  
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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on
23	24.7.2019	D	II	Down's syndrome	24.7.19
24	25.7.2019	E	II	Y linked inheritance - Holandric genes	25.7.19
25	26.7.2019	F	II	Y linked inheritance - Holandric genes	26.7.19
26	29.7.2019	A	II	Extra chromosomal inheritance	29.7.19
27	31.7.2019	C	II	Shell coiling in Snail	31.7.19
28	1.8.2019	D	II	Kappa particles in Paramecium.	1.8.19
29	2.8.2019	E	III	Pedigree analysis	2.8.19
30	3.8.2019	F	III	Pedigree analysis	3.8.19
31	5.8.2019	A	III	Human Chromosomes - Karyotype, ideogram,	5.8.19
32	7.8.2019	C	III	Human Chromosomes - Karyotype, ideogram,	7.8.19
33	8.8.2019	D	III	Human metabolic disorders and diseases- Phenylketonuria	8.8.19
34	9.8.2019	E	III	Genetic counselling	9.8.19
35	19.8.2019	F	III	Albinism	19.8.19
36	20.8.2019	A	III	Sickle cell anaemia	20.8.19

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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on
37	22.8.2019	C	III	Alkaptonuria	22.8.19
38	26.8.2019	D	III	Thalassemia	26.8.19
39	27.8.2019	E	III	One gene, one enzyme theory.	27.8.19
40	28.8.2019	F	III	Inbreeding	28.8.19
41	29.8.2019	A	III	Outbreeding	29.8.19
42	3.9.2019	C	III	Euthenics	3.9.19
43	4.9.2019	D	III	Eugenics	4.9.19
44	5.9.2019	E	III	Twins – types	5.9.19
45	6.9.2019	F	III	Twins – types	6.9.19
46	9.9.2019	A	III	Twins significance	9.9.19
47	12.9.2019	C	IV	Fine structure of gene – Cistron, Recon and Muton.)	12.9.19
48	13.9.2019	D	IV	Fine structure of gene – Cistron, Recon and Muton.)	13.9.19
49	16.9.2019	E	IV	Gene Mutation – types	16.9.19
50	17.9.2019	F	IV	Gene Mutation – types and effects	17.9.19
51	18.9.2019	A	IV	Deletion, Duplication,	18.9.19
52	20.9.2019	C	IV	Inversion and Translocation	20.9.19

53	23.9.2019	D	IV	Chronic Myeloid Leukemia	23.9.19
54	24.9.2019	E	IV	deletion ("cry of cat" syndrome),	25.9.19
55	25.9.2019	F	IV	Chromosomal mutation	25.9.19
56	26.9.2019	A	IV	Ploidy	26.9.19
57	28.9.2019	C	IV	Euploidy	28.9.19
58	30.9.2019	D	IV	Polyploidy	30.9.19
59	1.10.2019	E	IV	Aneuploidy	1.10.19
60	3.10.2019	F	IV	Aneuploidy	3.10.19
61	4.10.2019	A	IV	Chromosomal aberration - Structural aspects	4.10.19
62	10.10.2019	C	IV	Chromosomal aberration - Structural aspects	10.10.19
63	11.10.2019	D	V	Bacterial genetics	11.10.19
64	14.10.2019	E	V	Conjugation	14.10.19
65	15.10.2019	F	V	Conjugation	15.10.19
66	16.10.2019	A	V	Transformation	16.10.19
67	18.10.2019	C	V	Transduction	18.10.19
68	19.10.2019	D	V	Sexduction	19.10.19
69	21.10.2019	E	V	Sexduction	21.10.19
70	22.10.2019	F	V	Mapping of Bacterial chromosome.	22.10.19

71	23.10.2019	A	V	Viral Genetics	23.10.19
72	25.10.2019	C	V	Viral Genetics	25.10.19
73	29.10.2019	D	V	T <sub>4</sub> Phage - Lytic	29.10.19
74	30.10.2019	E	V	lysogenic cycle	30.10.19
75	31.10.2019	F	V	lysogenic cycle	31.10.19



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# SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Lesson Plan

Academic Year 2019-2020 [Odd Semester]

Department: Zoology(UG)

Class	: I-B.SC (Zoology)
Semester	: I
Name of the Faculty	: Dr.S.Mohamed Ramlath Sabura
Title of the Course	: ANIMAL DIVERSITY-II (Chordata)
Subject Code	: 18UZOC12
ICT Tools used	: Googleclassroom, Power point
Text books	: E.L.Jordan and P.S. Verma. 2010. Chordate Zoology. 6th edition S.Chand & Company Ltd, New Delhi
Reference books	: Ekambaranathalyer .M.A., Manual of Zoology – Part II – Chordata- S.Viswanathan Printers and Publishers Pvt. Ltd. Chennai.
e-resources	: Videos

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	17.6.2019		A	I	Introduction to Chordata	18-6-2019	
2	18.6.2019		B	I	Charecteristic features of Chordata.	20-6-19	
3	20.6.2019		D	I	classification of Chordata upto classes with examples.	20-6-19	
4	24.6.2019		F	I	Prochordata: General characters	24-6-19	
5	25.6.2019		A	I	Prochordata: Classification upto orders with examples	25-6-19	
6	26.6.2019		B	I	Type Study: Ascidian – External morphology	26-6-19	
7	28.6.2019		D	I	Ascidian – Life history	28-6-19	

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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
8	02.07.2019		F	I	Amphioxus -Morphology	02-7-2019	
9	03.07.2019		A	I	b) Balanoglossus	3-7-19.	
10	04.07.2019		B	I	Agnatha: Petromyzon - External morphology	4-7-19	
11	08.07.2019		D	I	Agnatha: Petromyzon - External morphology	8-7-19	
12	10.07.2019		F	I	Ammocoetes Larva.	10-7-19	
13	11.07.2019		A	II	Pisces:General Characters	11-7-2019	
14	12.07.2019		B	II	Pisces :Classification upto sub-classes with examples	12-7-19	
15	16.07.2019		D	II	Type Study: Scoliodon -	16-7-19	
16	18.07.2019		F	II	Scoliodon - External characters	18-7-19	
17	19.07.2019		A	II	Scoliodon - Placoid scales	18-7-19	
18	22.07.2019		B	II	Respiratory System	22-7-19	
19	24.07.2019		D	II	Digestive system	24-7-19	
20	26.07.2019		F	II	Urinogenital System	26-7-19	
21	29.07.2019		A	II	Urinogenital System	29-7-19	
22	30.07.2019		B	II	Accessory respiratory organs in fishes	30-7-19.	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
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23	01.08.2019		D	II	Accessory respiratory organs in fishes	1-8-19	
24	03.08.2019		F	II	Migration of fishes	3-8-2019	
25	05.08.2019		A	III	<b>Amphibia</b> :General Characters.	5-8-19	
26	06.08.2019		B	III	Amphibia:Classification upto orders with Examples	6-8-19	
27	08.08.2019		D	III	Parental care in Amphibia	8-8-19	
28	19.08.2019		F	III	Parental care in Amphibia	19.8-19	
29	20.08.2019		A	III	<b>Reptilia</b> : General Characters	20-8-19	
30	21.08.2019		B	III	Reptilia:Classification up to orders with examples	20-8-19	I-CIA
31	26.08.2019		D	III	External features and Biological Significance of Chamaeleon	26-8-19	I-CIA
32	28.08.2019		F	III	External features and Biological Significance of Draco	28-8-19	I-CIA
33	29.08.2019		A	III	External features and Biological Significance of Cobra, Enhydrina	29-8-19	
34	30.08.2019		B	III	Identification of poisonous and non-poisonous snakes of South India	30-8-19	
35	04.09.2019		D	III	Poison Apparatus ,Biting mechanism	4-9-19	
36	06.09.2019		F	III	Venom – Antivenom First aid for snake bite	6-9-19	

Sl.	Actual	Time	Order	Unit	Topics Planned	Date-Topics	Remarks
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No	Date				Covered on	
37	09.09.2019	A	IV	Aves: General characters	9.9.19	
38	11.09.2019	B	IV	Aves: classification upto subclasses with examples	11.9.19	
39	13.09.2019	D	IV	Aves: classification upto subclasses with examples	13.9.19	
40	17.09.2019	F	IV	<i>Columba livia</i> - External characters	17.9.19	
41	18.09.2019	A	IV	<i>Columba livia</i> - Exoskeleton	18.9.19	
42	19.09.2019	B	IV	Flight muscles -	19.9.19	
43	23.09.2019	D	IV	Respiratory system	23.9.19	
44	25.09.2019	F	IV	Respiratory system	23.9.19	
45	26.09.2019	A	IV	Migration of Birds	26.9.19	
46	27.09.2019	B	IV	Migration of Birds	27.9.19	
47	30.09.2019	D	IV	Flight adaptations in Birds	30.9.19	
48	03.10.2019	F	IV	Flight adaptations in Birds	3.10.19	
49	04.10.2019	A	V	Mammalia: General Characters	4.10.19	
50	09.10.2019	B	V	Classification upto subclasses with examples.	9.10.19	
51	11.10.2019	D	V	Classification upto subclasses with examples.	11.10.19.	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
52	15.10.2019		F	V	Rabbit – External Morphology	16.10.2019	
53	16.10.2019		A	V	Rabbit -Dentition	16.10.19	
54	17.10.2019		B	V	Rabbit – Respiratory System	17.10.19	
55	19.10.2019		D	V	Rabbit – Circulatory System	19.10.19	
	22.10.2019		F	V	Rabbit – Circulatory System	22.10.19	
57	23.10.2019		A	V	Rabbit — Structure of Brain.	23.10.19	
58	24.10.2019		B	V	Adaptations of aquatic mammals	24.10.19	
59	29.10.2019		D	V	Adaptations of aquatic mammals	29.10.19	
60	31.10.2019		F	V	Revision	30.10.19	

  
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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course: Zoology

Class III - B.Sc.

Academic Year: 2019 - 2020 Semester I

Title of the Paper: Animal Physiology

2019-2020

Subject Code: (160205)

Theory / Practical

Name of the Teacher: Dr. S. S. S. S. S.

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	17.6.19	I	Review of nutrition	17.6.19
2	19.6.19	I	Vitamins E, K, Pantoic acid	19.6.19
3	21.6.19	I	Vitamins E, Water soluble	21.6.19
4	24.6.19	I	Vitamins A, D, B	24.6.19
5	25.6.19	I	Vitamins K and B	25.6.19
6	27.6.19	I	Vitamins C and its role	27.6.19
7	1.7.19	I	Intercellular Digestion	1.7.19
8	2.7.19	I	Intracellular Digestion	2.7.19
9	3.7.19	I	Digestion and Absorption of Carbohydrate	3.7.19
10	5.7.19	I	Digestion of Protein	5.7.19
11	9.7.19	I	Digestion of Fat	9.7.19
12	10.7.19	I	Digestion of Fat	10.7.19
13	11.7.19	II	Types of Respiratory organ	11.7.19
14	A	II	Respiratory organ	15.7.19
15	15.7.19	II	Respiratory System	

Text books :

1. Animal Physiology - Saranathan & V. Arumugam
- 2.

Reference books :

1. Animal Physiology - Arumugam
2. Animal Physiology - IAS

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test		I <sup>st</sup> Test Portions	II <sup>nd</sup> Test Portions	III <sup>rd</sup> Test Portions		

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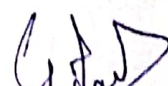
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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
15	17.7.19 E	II	Respiratory Pigments	17.7.19
16	18.7.19 F	II	Transport of Gases	18.7.19
17	19.7.19 A	II	Exchange of Gases	19.7.19
18	23.7.19 C	II	Control of Respiration	23.7.19
19	25.7.19 E	II	Control of Respiration	25.7.19
20	26.7.19 F	II	Anaerobiosis	26.7.19
21	29.7.19 A	II	Respiratory Quotient	29.7.19
22	31.7.19 C	II	Basic and Acid Metabolism	31.7.19
23	2.8.19 E	II	Standard Metabolism	2.8.19
24	3.8.19 F	II	Nitrogenous Wastes	3.8.19
25	5.8.19 A	II	Ammonotelism	5.8.19
26	7.8.19 C	II	Ureotelism	7.8.19
27	9.8.19 E	II	Uricotelism	9.8.19
28	19.8.19 F	III	Structure and Function of Kidney	19.8.19
29	20.8.19 A	III	Function of human Kidney	20.8.19
30	22.8.19 C	III	Physiology of Urine formation	20.8.19
31	27.8.19 E	III	Homeostasis	20.8.19
32	28.8.19 F	III	Osmoregulation in fish	22.8.19
33	29.8.19 A	III	Osmoregulation in Teleost	27.8.19
34	3.9.19 E	III	Thermoregulation in Ectotherm	29.8.19
35	5.9.19 F	III	Thermoregulation in Endotherm	29.8.19
36	6.9.19 A	IV	Types of Muscles	3.9.19
37	6.9.19 E	IV	Structure of Skeletal Muscles	5.9.19
38	6.9.19 F	IV	Structure of Skeletal Muscles	6.9.19

  
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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
37	9.9.19 A	IV	Physical Properties of muscle	9.9.19
38	12.9.19	IV	Chemical properties of muscle	12.9.19
39	16.9.19 C	IV	Mechanism of muscle contraction	16.9.19
40	17.9.19 E	IV	Muscle contraction	17.9.19
41	18.9.19 F	IV	Structure of Neurons	18.9.19
42	20.9.19 A	IV	Types of neurons	20.9.19
43	24.9.19 C	IV	Nerve Impulses	24.9.19
44	25.9.19 E	IV	Myoneural junction	25.9.19
	25.9.19 F	IV	Reflex action	25.9.19
45	26.9.19	V	Endocrine glands	26.9.19
46	28.9.19 A	V	Pituitary gland	28.9.19
47	1.10.19 C	V	Thyroid gland	1.10.19
	1.10.19 E	V	Thyroid and Parathyroid gland	3.10.19
48	3.10.19	V	Adrenal gland	3.10.19
49	4.10.19 F	V	Pancreas and menstrual cycle	4.10.19
50	10.10.19 A	V	Oestrous cycle, menopause	10.10.19
51	14.10.19 C	V	Pregnancy & Parturition	14.10.19
52	15.10.19 E	V	Biological Rhythms	15.10.19
53	16.10.19 F	V	Biological Clocks	16.10.19
54	18.10.19 A	V	Survey of Biological clocks	18.10.19
55	21.10.19 C	V	Biological clock in human	21.10.19
56	22.10.19 E		Revision	
	22.10.19 F		Revision	
57	23.10.19 A		Revision	

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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Sl.No.	Date & Order	Unit	Topics planned	Covered on
58	25.10.19 C		Revision	
59	30.10.19 E		Revision	
60	31.10.19 F		Revision	

  
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# Sadakathullah Appa College

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Rahmath Nagar, Tirunelveli - 627 011.

2019 - 2020

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## LESSON PLAN AND RECORD OF CLASSES ENGAGED

Course : Bsc

Class : II Bsc

Academic Year : 2019 - 2020 Semester : III

Subject Code : 18UCZ031

Title of the Paper : cell and molecular biology

Theory / Practical

Name of the Teacher : Dr. M. Syed Ali Fathima

Sl.No.	Date & Order	Unit	Topics planned	Covered on
1	24-6-19 F	<u>II</u>	Introduction to Cell organelles.	18-6-19
2	2-7-19 F	"	Plasma membrane - ultra structure	24-6-19
3	10-7-19 F	"	Chemical Composition Function of plasma membrane	2-7-19
4	18-7-19 F	"	Mitochondria - ultra structure	3-7-19
5	26-7-19 F	"	Chemical Composition Functions of mitochondria.	18-7-19
6	3-8-19 F	"	Golgi Complex - Structure	26-7-19
7	19-8-19 F	"	Chemical Composition & Functions of Golgi Complex	29-7-19
8	28-8-19 F	"	Chemical Composition & Structure of E.R	31-7-19
9	6-9-19 F	"	E.R. Functions, Ribosome Structure & Functions	3-8-19
10	17-9-19 F	"	Lysosomes - Structure, & chemical Composition, Functions	19-8-19
11	25-9-19 F	"	Centrioles - Functions, Structure	26-8-19
12	3-10-19 F	<u>III</u>	Chemical Composition of Centriole	28-8-19
13	15-10-19 F		DNA Types, structure	17-9-19
14	22-10-19 F		Replication of DNA. DNA as the genetic material	25-9-19
15	31-10-19 F		RNA Types, structure & transcription. Cancer cells - Carcinogenesis, definition, types, causes.	3-10-19

Text books :

1. Agarwal, V.K. Mol. Biology, S. Chand & Co. Limited, 11001, Ram Nagar, Guruh, New Delhi - 110 055.
2. Delhi - 110 055.

Reference books :

1. Puar, C.B. Cell Biology & Histology, Publi Shring House, Mumbai.
2. Jayaram's Biology, cell biology, Wiley Eastern Limited, New Delhi.

Activity	Total Number	Topic I	Topic II	Topic III	Planned Date	Actual Date
Assignment						
Internal Test		I <sup>st</sup> Test Portions	II <sup>nd</sup> Test Portions	III <sup>rd</sup> Test Portions		

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Sadakathullah Appa College (Autonomous)  
Rahmath Nagar, Tirunelveli - 627011

LESSON PLAN & RECORD OF CLASSES ENGAGED

Course: B.Sc., Zoology Class: II Year Academic year: 2019 Odd Semester Semester: III

Title of the Paper: Diet Therapy (Theory) Subject Code: 18UEAN3A

Sl.No	Date	Order	Unit	Topics planned	Covered on
1.	17.6.19	A		Introduction to Topic	17.6.19
2.	18.6.19	B	I	Definition of dietetics	18.6.19
3.	19.6.19	C	I	purpose of diet therapy	18.6.19
4.	20.6.19	D	I	factors considered in planning therapeutic diets	19.6.19
5.	25.6.19	A	I	Routine hospital diets	19.6.19
6.	26.6.19	B	I	Clear fluid diet,	20.6.19
7.	27.6.19	C	I	full fluid diet	20.6.19
8.	28.6.19	D	I	soft diet,	25.6.19
9.	3.7.19	A	I	regular normal diet,	25.6.19
10.	4.7.19	B	I	Preoperative diet and	26.6.19
11.	5.7.19	C	I	postoperative diet	26.6.19
12.	8.7.19	D	I	Revision	27.6.19
13.	11.7.19	A	I	Revision	28.6.19
14.	12.7.19	B	II	Obesity,	3.7.19
15.	15.7.19	C	II	Etiology Of obesity	4.7.19
16.	16.7.19	D	II	Assessment in Obesity	5.7.19
17.	19.7.19	A	II	types of obesity	8.7.19
18.	22.7.19	B	II	principles of dietary management.	11.7.19
19.	23.7.19	C	II	Under weight	12.7.19
20.	23.7.19	D	II	Etiology of Under Weight	15.7.19

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