



Shikshan Prasarak Mandal, Anadur's  
**Jawahar Arts, Science & Commerce College,**  
Anadur, Tq. Tuljapur, Dist- Osmanabad -413603

**INTERNAL QUALITY ASSURANCE CELL**

Annual/Semester Teaching Plane- 2018-2019

Department of: Zoology

Name of Teacher: Dr. G.T. Rathod

Subject:- Zoology

Class: B.Sc-I

Total Period. : 45

Semester: I

Name of Paper:- Protozoa to Annelida

Paper No. : I

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	June	03 03	1.Introduction to animal kingdom 2.Phy-Protozoa 1.Plasmodium vivax	Chart Explanation Model Discussion	
2	July	06 06	Phy-Protozoa 2.Entamoeba H. 3.Euglena 3.Phy-Porifera 1.Sycon	PPT Seminar Question- Answer Methods	
3	Aug	02 06	Phy-Porifera 4.Phy-Coelentrata 1. Obelia		
4	Sept.	12	5.Phy-Helminths 1. Fasciola hepatica 2.Taenia Solium 3.Ascaries		
5	Oct.	07	6.PhyAnnelida 1.Leech		

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**INTERNAL QUALITY ASSURANCE CELL**

Annual/Semester Teaching Plane- 2018 -2019

Department of: Zoology

Name of Teacher: Dr. S.S.Baad

Subject: Zoology

Class: B.Sc-I

Total Period. : 45

Semester: I


Name of Paper: -Cell Biology

Paper No. : II

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	June	06	1.General structure of cell	Chart Explanation model Discussion	
2	July	06 06	General structure of cell 2.Organizatiion of cell A)Study of various cell organelles	PPT Seminar	
3	Aug	12	Organizatiion of cell A) Study of various cell organelles	Question-Answer Methods	
4	Sept.	02 10	Organizatiion of cell B) Type of cancer 3. Method in cell Biology A) Light Microscope		
5	Oct.	03	B) Micro techniques		

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**INTERNAL QUALITY ASSURANCE CELL**

Annual/Semester Teaching Plane - 2018 -2019

Department of: Zoology

Name of Teacher: Dr. S.S. Baad

Subject: Zoology

Class: B.Sc-I

Total Period. : 45

Semester: II

Name of Paper: Arthropoda to Protochordata

Paper No. : IV

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	Nov.	06	1. phy Arthropoda 1. Prawn	<i>Chart</i> Explanation <i>model</i> Discussion	
2	Dec.	09 03	Phy Arthropoda 2. Cockroach 2.Phy-Mollusca 1. Pila	PPT Seminar	
3	Janu.	03 10	Pila 3.Phy- Echinodermata 1. Asterias	Question- Answer Methods	
4	Feb.	11	4. General character & Classification of Protochordata 1.Amphioxus 2.Hemichordata		
5	March	03	3. Herdmania		

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Annual/Semester Teaching Plane- 2018 -2019

Department of: Zoology

Name of Teacher: Dr. G.T.Rathod

Subject: Zoology

Class: B.Sc-I

Total Period. : 45

Semester: II

Name of Paper: Genetics-I

Paper No. : V

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	Nov.	04	1. Elements of heredity Variation	<i>chart</i> Explanation <i>model</i> Discussion	
2	Dec.	05	2. Gene Interaction	PPT	
		05	3. Multiple Alleles	Seminar	
		02	4. Cytoplasmic inheritance	Question-Answer Methods	
3	Janu.	06	Cytoplasmic inheritance		
		06	5. Sex Determination		
4	Feb.	02	Sex Determination		
		09	6. Mutation		
5	March	06	Spontaneous & Induced Mutation		

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**INTERNAL QUALITY ASSURANCE CELL**

Annual/Semester Teaching Plane - 2018 -2019

Department of: Zoology

Name of Teacher: Dr. S.S. Baad

Subject:-Zoology

Class: B.Sc-II

Total Period. : 45

Semester: III

Name of Paper: Vertebrate Zoology

Paper No. : VII

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	June	02 04	1.Agnatha:classification & G. character 2. Pisces- Classification & G.charecters	<i>chart</i> Explanation <i>model</i> Discussion	
2	July	04 06 02	1. Scoliodon 3.Amphibia- Classification & G. characters 4. Reptilia-Classification & G. charecters	PPT Seminar Question-Answer Methods	
3	Aug	04 08	1. Calotes 5.Aves-Classification & G. charecters 1.Columba livia		
4	Sept.	02 10	Migration of Birds 6. Mammalia- Classification & G.charecters 1. Ratus ratus		
5	Oct.	03	Placentation in Mammals		

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Annual/Semester Teaching Plane - 2018 -2019

Department of: Zoology

Name of Teacher: Dr. G.T.Rathod

Subject: Zoology

Class: B.Sc-II

Total Period. : 45

Semester: III

Name of Paper: Genetics-II

Paper No. : VIII

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	June	06	1. Genes & its expression	Chart Explanation Model Discussion	
2	July	02 05 05	Translation of genes 2. Population Genetics 3. Human Genetics	PPT Seminar	
3	Aug	07 05	Human Genetics 4. Microbial Genetics	Question- Answer Methods	
4	Sept.	12	4. Genetic Engineering		
5	Oct.	03	Application of r-DNA technology		

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Annual/Semester Teaching Plane - 2018 -2019

Department:-Zoology

Name of Teacher: Dr.S.S. Baad

Subject:-Zoology

Class: B.Sc-II

Total Period. : 45

Semester: IV

Name of Paper: Animal Physiology

Paper No. : XI

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	Nov.	07	1. Digection	Chart Explanation Model Discussion	
2	Dec.	09 03	2. Respiration 3. Circulation	PPT Seminar	
3	Jan.	02 05 06	Mechanism of blood clotting 4.Excretion 5.Nerve Physiology	Question- Answer Methods	
4	Feb.	05 05	6. Muscles Physiology 7.Reproduction		
5	March	03	Reproductive cycles		

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Annual/Semester Teaching Plane - 2018 -2019

Department of: Zoology

Name of Teacher: Dr. G.T.Rathod

Subject: Zoology

Class: B.Sc-II

Total Period. : 45

Semester: IV

Name of Paper: Biochemistry & Endocrinology

Paper No. : XII

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	Nov.	05	A. Biochemistry 1.Enzymes	Chart Explanation roleplay Discussion	
2	Dec.	06	2.Carbohydrates	PPT	
		06	3.Protein	Seminar	
3	Jan.	05	5. Lipids	Question- Answer Methods	
		02	6. Vitamins B. Endocrinology		
		04	1.Endocrine system of vertebrates		
4	Feb.	05	2.Pituitary gland		
		03	3.Thyroid gland		
		03	4. Adrenal gland		
5	March	02	Hormones & their function		
		02	5.Pancreas		

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**INTERNAL QUALITY ASSURANCE CELL**

Annual/Semester Teaching Plane - 2018 -2019

Department of: Zoology

Name of Teacher: Dr. S.S.Baad

Subject: Zoology

Class: B.Sc-III

Total Period. : 45

Semester: V

Name of Paper: Ecology

Paper No. : XV

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	June	02 04	1.Introduction 2.Abiotic environmental factors	Chart Explanation Model Discussion	
2	July	04 08	Abiotic environmental factors 3. Biotic environmental factors	PPT Seminar	
3	Aug	06 06	4. Population 5.Community	Question- Answer Methods	
4	Sept.	12	6. Ecosystem		
5	Oct.	03	Forest ecosystem & Desert ecosystem		

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Department of: Zoology

Name of Teacher: Dr. G.T. Rathod

Subject: Zoology

Class: B.Sc-III

Total Period. : 45

Semester: V

Name of Paper: Fishery Science -I

Paper No. : XVI

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	June	05	1. Introduction	Chart Explanation	
2	July	10	2.Freshwater Fisheries	Model Discussion	
		02	3.Revering and reservoir fisheries	PPT	
				Seminar	
3	Aug	08	Revering & reservoir fisheries	Question- Answer Methods	
		04	4.Brackish water fisheries		
4	Sept.	04	Brackish water fisheries		
		08	5. Marine water fisheries.		
5	Oct.	04	7. Application of remote sensing technique in pelagic fisheries.		

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Department of: Zoology

Name of Teacher: Dr.S.S.Baad

Subject: Zoology

Class: B.Sc-III

Total Period. : 45

Semester: VI

Name of Paper:-Evolution

Paper No. : XIX

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	Nov.	06	1. Concept of organic evolution	Chart Explanation Model Discussion	
2	Dec	03	2. Origin of Life	PPT Seminar	
		04	3. Evidences of organic evolution		
3	Jan.	05	4. Darwinism	Question- Answer Methods	
		07	5. Elemental forces of evolution		
4	Feb.	04	6. Basic pattern of evolution		
		07	7. Species and speciation		
5	March	04	8. Fossils		

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Annual/Semester Teaching Plane- 2018 -2019

Department of Zoology

Name of Teacher: Dr. G.T.Rathod

Subject: Zoology

Class: B.Sc-II

Total Period. : 45

Semester: VI

Name of Paper: Fishery Science-II

Paper No. : XX

Sr. No.	Month	Total Periods of Month	Name of Chapter/ Unit	Teaching Method Use	Remark
1	Nov.	06	A. Fish culture 1. Introduction a)Type of freshwater pond perennial & Seasonal To c)Design ,construction & maintenance fish ponds	Chart Explanation Model Discussion PPT	
2	Dec.	09 03	d)Productivity of ponds To h)Sewage fed fisheries 2. Fish diseases- protozoan, fungal	Seminar Question- Answer Methods	
3	Jan.	03 04	Fish diseases- bacterial, viral worms 3. Breeding of fishes- Natural		
4	Feb.	04 08	Breeding of fishes- Artificial, common carp B. Fish technology 4. fish preservation & processing		
5	March	08	5. Crafts and gears		

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