"Education for Knowledge, Science and Culture"
-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Autonomous) Department of Zoology

Annual Teaching Plan 2018-2019

- 1) Dr. K. P. Shinde
- 2) Dr. T. C. Gaupale
- 3) Miss. N. A. Patel
- 4) Miss. N. A. Jadhav
- 5) Miss. A. K. Bhilugade
- 6) Miss. K. L. Kamble



Vivekanand College, Kolhapur (Autonomous)

Department of Zoology Academic year: 2018-2019

Annual Teaching Plan

Teacher's Name: Dr. K. P. Shinde

CLASS: B.SC. I

SEMESTER: I

			-
	Month	Title of Paper	Unit
	July		Section I: Unit – II- Phylum- Annelida
	August		Section I: Unit – II- Phylum- Annelida
Theory		Paper- I	Phylum- Arthropoda
	September	Animal Diversity	Section I: Unit – II- Phylum- Mollusca
	October		Section I: Unit – II- Phylum- Ehinodermata
	November		Section I: Unit - II- Phylum- Ehinodermata

	Month	Practical	Practicals based on Paper
Practical	July-	Practical- I &	Zoology Lab Course (I) based on Paper- I,
	November		Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. I

SEMESTER: II

	Month	Title of Paper	Unit
	December		Section I: Unit – I-
		Paper- II	Integumentary System
Theory	January	Comparative	Section I: Unit - I- Skeletal System
	February	Anatomy and	Section I: Unit - I- Digestive System
-	March	Developmental	Section I: Unit - I- Respiratory System
		Biology of	
	*	Vertebrates	

	Month	Practical	Practicals based on Paper
Practical	December-	Practical- I &	Zoology Lab Course (I) based on Paper- I,
	March	II(Batch B2,B4,B6)	Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. II

	Month	Title of Paper	Unit
	July	Paper – VI	Unit – II: A. Interaction of genes –i,ii
		Genetics and	
Theory		Biological	·
		Chemistry	
	August		Unit – I: Study of Nonchordates- A-i,ii
	September	Paper -V - Animal	Unit – I: Study of Nonchordates- A-iii,iv
	October	Diversity-III	Unit - I: Study of Nonchordates B -i, ii, iii
	November		Unit – I: Study of Nonchordates B –iv

	Month	Practical	Practicals based on Paper
Practical	July-	Practical-IV	PR-II (Based on Paper- VII and VIII)
	November	(Batch-M ₁ ,B ₂)	

CLASS: B.SC. II SEMESTER: IV

CAZIDO. D.	SCIII	SEMIESTER	• 1 Y
	Month	Title of Paper	Unit
	December		Unit I: Study of Chordates- A
	January	Paper VII	Unit I: Study of Chordates- A
Theory	February	Animal Diversity -	Unit II : Study of Rat Part I- i, ii, iii, iv
	March	IV	Unit II : Study of Rat Part I- v

	Month	Practical	Practicals based on Paper
Practical	December- March	Practical-IV(Batch- M ₁ ,B ₂)	PR-II (Based on Paper- VII and VIII)

CLASS: B.SC. III SEMESTER: V

	Month	Title of Paper	Unit/Topics
	July August	Paper - IX	Unit – I:- I. Protozoa, II. Porifera Unit – I:- III.Coelenterata, IV, V
Theory	September October November	Functional Anatomy of Non-Chordates	Unit – II:- VII. Annelida- (a-e) Unit – II:- VII. Annelida- (f-l) Unit – I:- VI, VII

	Month	Practical	Practicals based on Paper	
Practical	July- November	Practical- VII (Batch Z1)	Paper- XIII and XIV	

CLASS: B.SC. III		SEMESTER: VI	
	Month	Title of Paper	Unit
	December		Unit – I:- I. Integument
	January	Paper- XIII	Unit – I:- II. Endoskeleton
Theory	February	Comparative	Unit – I:- III. Digestive System
		Anatomy	IV. Respiratory System
	March	of Vertebrates	Unit – I:- V. Circulatory System

	Month	Practical	Practicals based on Paper	
Practical	December-	Practical- VII	Paper- XIII and XIV	
	March	(Batch Z1)		

Dr. K. P. Shinde

Head, Department of Zoology Vivekanand College, Kolhapur (Autonomous)

Vivekanand College, Kolhapur (Autonomous)

Department of Zoology Academic year: 2018-2019 Annual Teaching Plan

Teacher's Name: Dr. T. C. Gaupale

CLASS: B.SC. I

SEMESTER: I

	Month	Title of Paper	Unit
	July	Paper- I Animal Diversity	Section II: Unit - III- Protochordates
	August		Section II: Unit - III- Protochordates
Theory	September		Section II: Unit – III- Agnatha
	October		Section II: Unit – III- Agnatha
	November		Section II: Unit - III- Agnatha

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- I &	Zoology Lab Course (I) based on Paper-
		II(Batch B1,B3,B5)	I,
			Zoology Lab Course (II) based on
			Paper- II

CLASS: B.SC. I

SEMESTER: II

	Month	Title of Paper	Unit
	December		Section I: Unit - II- Circulatory System
	January	Paper- II	Section I: Unit - II- Circulatory System
Theory	February	Comparative Anatomy	Section I: Unit - II- Urinogenital
		and Developmental	System
	March	Biology of	Section I: Unit – II- Urinogenital
		Vertebrates	System

	Month	Practical	Practicals based on Paper
Practical	December-	Practical- I & II(Batch	Zoology Lab Course (I) based on Paper-
	March	B1,B3,B5)	I,
			Zoology Lab Course (II) based on
			Paper- II

CLASS: B.SC. II

	Month	Title of Paper	Unit
	July	Paper – VI Genetics	Unit – II: B. Lethal Genes – i, ii
	August	and Biological	Unit – II: B. Lethal Genes – iii, iv
Theory		Chemistry	
	September	Paper -V	Unit – II: A. Crab
	October	Animal Diversity-III	Unit – II: B. Cockroach- i-v
	November		Unit - II: B. Cockroach- vi, vii

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical-III (Batch-	PR-I (Based on Paper- V and VI)
		$M_1,B_2)$	

SEMESTER: IV

	Month	Title of Paper	Unit
	December		Unit I: Study of Chordates-B- i, ii
	January	Paper VII	Unit I: Study of Chordates-B -iii, iv
Theory	February	Animal Diversity - IV	Unit III : Study of Rat- Part II- i, ii, iii
	March		Unit III : Study of Rat- Part II- iv, v

	Month	Practical	Practicals based on Paper
Practical	December-	Practical-III (Batch-	PR-I (Based on Paper- V and VI)
	March	$M_1,B_2)$	-

CLASS: B.SC. III SEMESTER: V

	Month	Title of Paper	Unit
	July		Unit – I:- I. Molecular Biology - 1
	August	Paper –XI	Unit – I:- I. Molecular Biology –2,3,4
Theory	September	Molecular Biology,	Unit – I:- I. Molecular Biology - 5
	October	Biotechnology and	Unit – II:- II. Biotechnology- 1
	November	Biotechniques	Unit – II:- II. Biotechnology- 1

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- VIII (Batch	Paper- XV and XVI
		Z1)	

CLASS: B.SC. III SEMESTER: VI

	Month	Title of Paper	Unit
	December	Paper- XIII	Unit - III:- VI. Excretory System
Theory	January	Comparative Anatomy of Vertebrates	Unit – III:- VI. Nervous System
	February	Paper- XIV	Unit – III:- VII, VIII
	March	Developmental	Unit – III:- IX, X
		Biology	

	Month	Practical	Practicals based on Paper
Practical	December- March	Practical- VIII (Batch	Paper- XV and XVI
	March	21)	

Dr. K. P. Shinde

Department of Zoology Vivekanand College, Kelhapur (Autonomous)

Vivekanand College, Kolhapur (Autonomous)

Department of Zoology

Academic year: 2018-2019

Annual Teaching Plan

Teacher's Name: Miss. N. A. Patel

CLASS: B.SC. I

SEMESTER: I

	Month	Title of Paper	Unit
	July	Paper- I Animal Diversity	Section II: Unit - III- Pisces
	August		Section II: Unit - III- Pisces
Theory	September		Section II: Unit - III- Pisces
_	October		Section II: Unit – III- Amphibia
	November		Section II: Unit – III- Amphibia

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- I & II (Batch B6)	Zoology Lab Course (I) based on Paper- I, Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. I

SEMESTER: II

	Month	Title of Paper	Unit
	December	Paper- II	Section II: Unit - IV- Control of
		Comparative Anatomy	Development
Theory	January	and Developmental	Section II: Unit - IV- Control of
		Biology of	Development
	February	Vertebrates	Section II: Unit - IV- Chick Embryology
	March		Section II: Unit - IV- Chick Embryology

	Month	Practical	Practicals based on Paper
Practical	December- March	Practical- I & II (Batch B6)	Zoology Lab Course (I) based on Paper- I, Zoology Lab Course (II) based on Paper-
		(Buttin BO)	II

CLASS: B.SC. II

	Month	Title of Paper	Unit
	July	Paper – VI Genetics	Unit - II: Genetics. C. Twins in human
		and Biological	
Theory		Chemistry	
	August		Unit – III: Pila- i, ii, iii
	September	Paper -V	Unit – III: Pila- iii, iv
	October	Animal Diversity-III	Unit – III: Pila- v
	November		Unit – III: Pila- vi

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical-III (Batch- B ₁ ,BT ₁)	PR-I (Based on Paper- V and VI)

SEMESTER: IV

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	Month	Title of Paper	Unit
	December		Unit IV :- i
	January	Paper VII	Unit IV :- ii, iii
Theory	February	Animal Diversity - IV	Unit IV :- iv
	March	Paper – VIII Histology and	Unit IV: Physiology Part II – A
		Physiology	

	Month	Practical	Practicals based on Paper
Practical	December- March	Practical-III (Batch- B ₁ ,BT ₁)	PR-I (Based on Paper- V and VI)

CLASS: B.SC. III

SEMESTER: V

	Month	Title of Paper	Unit
Theory	July	Paper- X Biostatistics, Bioinformatics and Medical Zoology	Unit – I:- I. Biostatistics- 1
	August		Unit – I:- I. Biostatistics- 2, 3
	September		Unit – I:- I. Biostatistics- 4, 5
	October		Unit – II:- I. Biostatistics- 6
	November		Unit – II:-II. Bioinformatics- a

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- V and VI	Paper- IX, X and XI, XII
		(Batch Z1,Z2)	

CLASS: B.SC. III

SEMESTER: VI

	Month	Title of Paper	Unit
Theory	December		Unit – I:- I. Nutrition
	January	Paper- XV Physiology	Unit – I:- II. Metabolism
	February		Unit – II:- III. Vitamins,
			IV. Respiration
	March		Unit - II:- V. Circulation

	Month	Practical	Practicals based on Paper
Practical	December-	Practical- V and	Paper- IX, X and XI, XII
	March	VI(BatchZ1,Z2)	

Miss. N. A. Patel

Dr. K. P. Shinde Head, Department of Zoology

Vivekanand College, Kolhapur (Autonomous)

Vivekanand College, Kolhapur (Autonomous)

Department of Zoology Academic year: 2018-2019

Annual Teaching Plan

Teacher's Name: Miss. N. A. Jadhav

CLASS: B.SC. I

SEMESTER: I

	Month	Title of Paper	Unit
	July		Section II: Unit – IV- Reptiles
	August		Section II: Unit – IV- Reptiles
Theory	September	Paper- I	Section II: Unit – IV- Aves
	October	Animal Diversity	Section II: Unit – IV- Mammals
	November		Section II: Unit – IV- Mammals

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- I &	Zoology Lab Course (I) based on Paper- I,
		II(Batch B7,B8,B9)	Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. I

SEMESTER: II

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	Month	Title of Paper	Unit
	December	Paper- II	Section II: Unit - III- Early Embryonic
		Comparative	Development
Theory	January	Anatomy and	Section II: Unit - III- Early Embryonic
	-	Developmental	Development
	February	Biology of	Section II: Unit - III- Early Embryonic
		Vertebrates	Development
	March		Section II: Unit - III- Early Embryonic
			Development

	Month	Practical	Practicals based on Paper
Practical	December-March	Practical- I &	Zoology Lab Course (I) based on Paper- I,
		II(Batch B7,B8,B9)	Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. II

	Month	Title of Paper	Unit
	July	Paper – VI Genetics and	Unit – IV- A-i
	August	Biological Chemistry	Unit – IV- A-ii
Theory	September	Paper -V -	Unit – IV- A
	October	Animal Diversity-III	Unit – IV- B, C
	November		Unit – IV- D

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical-III (Batch- B ₃ ,B ₄)	PR-I (Based on Paper- V and VI)

SEMESTER: IV

Month	Title of Paper	Unit
December	•	Unit – I :- i, ii
January	Paper – VIII	Unit – I :- iii, iv, v
February	Histology and Physiology	Unit – I :- vi, vii, viii
March		Unit – IV :- B
	December January February	December January Paper – VIII February Histology and Physiology

	Month	Practical	Practicals based on Paper
Practical	December-	Practical-III (Batch- B ₃ ,B ₄)	PR-I (Based on Paper- V and VI)
	March		

CLASS: B.SC. III

SEMESTER: V

	Month	Title of Paper	Unit
	July	Paper- X	Unit- III:-III) Medical Zoology-1.
		Biostatistics,	a)
Theory	August	Bioinformatics and	Unit- III:-III) Medical Zoology-1. b)
		Medical Zoology	c), 2, 3
	September		Unit- III:-III) Medical Zoology- 4, 5
	October	Paper -XI	Unit – III:- II.Biotechnology- 3
		Molecular Biology,	III. Biotechniques - 1
	November	Biotechnology and	Unit – III:-III. Biotechniques – 2
		Biotechniques	Jiii III. Dioteemiques – 2

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- V and VI(Batch	Paper- IX, X and XI, XII
		Z1,Z2)	

CLASS: B.SC. III

SEMESTER: VI

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	Month	Title of Paper	Unit
Theory	December	Paper- XIV Developmental Biology	Unit – I :- I, II, III
	January		Unit – I :- IV, V
	February		Unit – II :- VII
	March		Unit – II :- VII

	Month	Practical	Practicals based on Paper
Practical	December-	Practical- V and	Paper- IX, X and XI, XII
	March	VI(BatchZ1,Z2)	, , , , , , , , , , , , , , , , , , , ,

Miss. N. A. Jadhav

Dr. K. P. Shinde

Department of Zoology Vivekanand College, Kolhapur (Autonomous)

Vivekanand College, Kolhapur (Autonomous)

Department of Zoology

Academic year: 2018-2019 Annual Teaching Plan

Teacher's Name: Miss. A. K. Bhilugade

CLASS: B.SC. I

SEMESTER: I

		SENIESTER. 1	
	Month	Title of Paper	Unit
	July	Paper- I Animal Diversity	Section I: Unit – I- Kingdom- Protista
	August		Section I: Unit - I- Kingdom- Protista
Theory	September		Section I: Unit - I- Phylum- Porifera
	October		Section I: Unit - I- Phylum- Cnidaria
	November		Section I: Unit - I- Phylum- Cnidaria

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- I & II	Zoology Lab Course (I) based on Paper- I,
			Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. I

SEMESTER: II

	Month	Title of Paper	Unit
	December	Paper- II	Section II: Unit – III- Late Embryonic
		Comparative	Development
Theory	January	Anatomy and	Section II: Unit - III- Late Embryonic
		Developmental	Development
	February	Biology of	Section II: Unit - III- Late Embryonic
		Vertebrates	Development
	March		Section II: Unit - III- Late Embryonic
			Development

	Month	Practical	Practicals based on Paper
Practical	December-March	Practical- I & II	Zoology Lab Course (I) based on Paper- I,
			Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. II

	Month	Title of Paper	Unit
	July		Unit I– A- i, ii
Theory	August	Paper – VI Genetics	Unit I- A- iii, iv, Unit I- B
1110013	September	and Biological	Unit I– C
	October	- Chemistry	Unit IV-B i-iv
	November	Chemistry	Unit IV- B v

	Month	Practical	Practicals based on Paper
Practical	July-November		PR-II (Based on Paper- VII and VIII)
		B_1,BT_1	

SEMESTER: IV

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	Month	Title of Paper	Unit
Theory	December	Paper – VIII Histology and Physiology	Unit – II :- i, ii
	January		Unit – II :- iii, iv
	February		Unit – II :- v: Unit – IV :- C. i
	March		Unit – IV :- C. ii

	Month	Practical	Practicals based on Paper
Practical	December-March	Practical-IV (Batch- B ₁ ,BT ₁)	PR-II (Based on Paper- VII and VIII)

CLASS: B.SC. III

SEMESTER: V

		Calification	OLEK: V
	Month	Title of Paper	Unit
	July	Paper - IX	Unit – III:- X
	August	Functional Anatomy	Unit – III:- IX, VIII
Theory	September	of	Unit – III:-VIII
		Non-Chordates	
	October	Paper – XII	Unit – I:- I
	November	Endocrinology,	Unit – I:- I
		Environmental	
		Biology and	
		Toxicology	

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical- VII(Batch	Paper- XIII and XIV
		Z2)	

CLASS: B.SC. III

SEMESTER: VI

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	Month	Title of Paper	Unit
	December	Paper- XV	Unit – III:- VI, VII
	January	Physiology	Unit – III:- VIII
Theory	February	Paper- XVI	Unit – II:- iv, v
	March	Applied Zoology	Unit – II:- vi, vii

	Month	Practical	Practicals based on Paper
Practical	December-March	Practical- VII(Batch	Paper- XIII and XIV
		Z2)	

Miss. A. K. Bhilugade

AkBhilugade

Dr. K. P. Shinde

Department of Zoology Vivekanand College, Kolhapur (Autonomous)

Vivekanand College, Kolhapur (Autonomous)

Department of Zoology Academic year: 2018-2019

Annual Teaching Plan

Teacher's Name: Miss. K. L. Kamble

CLASS: B.SC. I

SEMESTER: I

	Month	Title of Paper	Unit
Theory	July	Paper- I Animal Diversity	Section I: Unit - I- Phylum-Platyhelminthes
	August		Section I: Unit - I- Phylum-Platyhelminthes
	September		Section I: Unit - I- Phylum-Platyhelminthes
	October		Section I: Unit - I- Phylum-Nemathelminthes
	November		Section I: Unit – I- Phylum-Nemathelminthes

	Month	Practical	Practicals based on Paper
Practical	July-	Practical- I & II	Zoology Lab Course (I) based on Paper- I,
	November		Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. I

SEMESTER: II

	Month	Title of Paper	Unit
	December		Section I: Unit – II- Nervous System
	January	Paper- II	Section I: Unit – II- Nervous System
Theory	February	February Comparative March Anatomy and	Section I: Unit - II- Sense Organs
	March		Section I: Unit – II- Sense Organs
		Developmental	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
		Biology of	
		Vertebrates	

	Month	Practical	Practicals based on Paper
Practical	December-	Practical- I & II	Zoology Lab Course (I) based on Paper- I,
	March		Zoology Lab Course (II) based on Paper- II

CLASS: B.SC. II

	Month	Title of Paper	Unit
	July		Unit III– A- i
Theory	August September October November	Paper – VI Genetics and Biological Chemistry	Unit III– A- ii, iii Unit III– B- (i-iii) Unit III– C - i, ii, iii Unit III– C - iv, v

	Month	Practical	Practicals based on Paper
Practical	July-November	Practical-IV	PR-II (Based on Paper- VII and VIII)
		(Batch- B ₃ ,B ₄)	

SEMESTER: IV

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	Month	Title of Paper	Unit
	December		Unit – III:- i
	January	Paper – VIII	Unit – III:- ii, iii
Theory	February	Histology and	Unit – III:- iv, v
	March	Physiology	Unit – III:- vi

	Month	Practical	Practicals based on Paper
Practical	December-	Practical-IV	PR-II (Based on Paper- VII and VIII)
	March	(Batch- B ₃ ,B ₄)	

CLASS: B.SC. III

SEMESTER: V

	Month	Title of Paper	Unit
	July		Unit – II:- 2
	August	Paper – XII	Unit – II:- 4, 5
Theory	September	Endocrinology,	Unit – III:- 6
	October	Environmental	Unit – III:- III.Toxicology
	November	Biology and	Unit – II:- 3
		Toxicology	

	Month	Practical	Practicals based on Paper
Practical	July-	Practical- VIII	Paper- XV and XVI
	November	(Batch Z2)	

CLASS: B.SC. III

SEMESTER: VI

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	Month	Title of Paper	Unit
	December		Unit – I:- I
	January	Paper- XVI	Unit – I:- I ; II- i
Theory	February	Applied Zoology	Unit – II:- iii
	March		Unit – II:- ii

	Month	Practical	Practicals based on Paper
Practical	December-	Practical- VIII	Paper- XV and XVI
	March	(Batch Z2)	

Miss. K. L. Kamble

Kamele

Dr. K. P. Shinde

Department of Zoology Vivekanand College, Kolhapur (Autonomous)