

Education for Knowledge, Science and Culture”

-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Autonomous)

Department Of Zoology

Syllabus Completion Report

2019-2020



**Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report


Subject: Animal diversity

Course title: B.Sc. I

Semester: I

Teacher Name: -Dr. K. P. Shinde

Month: July			Module unit	Sub unit planned	Completed / incomplete
Lectures	Practical	Total			
3	2	5	Unit I	Importance of animal taxonomy Kingdom Protista	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
5	4	9	Unit I	Phylum- Porifera General characters and classification up to classes Canal system in sycon	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit I	Phylum: Cnidaria General characters and classification upto classes Polymorphism in hydrozoa Locomotion and regeneration in Hydra	Completed


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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Comparative Anatomy & Developmental Biology of Vertebrates

Course title: B.Sc. I

Semester: II

Teacher Name: -Dr. K. P. Shinde

Month: November			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Skeletal System Pectoral girdle	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit I	pelvic girdle	Completed



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Physiology and Biochemistry

Course title: B.Sc. II

Semester: III

Teacher Name: -Dr. K. P. Shinde

Month: July			Module unit	Sub unit planned	Completed/ incompletd
Lectures	Practical	Total			
2	2	4	Unit II	Structure of Nephron Mechanism of urine formation	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit II	Counter current mechanism	Completed



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Cell biology, Genetics and Evolution

Course title: B.Sc. II

Semester: IV

Teacher Name: -Dr. K. P. Shinde

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit III	Major event in history of life Geological time scale	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Introduction to evolutionary theories Lamarckism	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Darwinism & Neo Darwinism	Completed



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Functional anatomy of non-chordate

Course title: B.Sc. III

Semester: V

Teacher Name: -Dr. K. P. Shinde

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
3	2	5	Unit II	Type study-Leech Systematic position, habits & habitat, morphology & body wall	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Locomotion Food, feeding & digestive system Haemo-coelomic system Excretory system	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	7	Unit II	Sense organ Reproductive system Copulation & cocoon formation	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit II	Parasitic adaption Economic importance of leech	Completed



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Comparative Anatomy of Vertebrates; Applied Zoology

Course title: B.Sc. III

Semester: VI

Teacher Name: -Dr. K. P. Shinde

Month: December			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
4	4	8	Unit I	Endoskeleton Vertebral column	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Appendicular skeleton	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Apiculture	Completed



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus completion report (Practical)

Teacher Name: - Dr. K. P. Shinde

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. I	Practical I	B6, B4	Animal Diversity (Section I) Comparative Anatomy and Developmental biology of Vertebrates (Section II)	Complete
B. Sc. II	Practical II	M1	Cell biology, Genetics, Evolution and Ethology	Complete
B. Sc. III	Practical VII	Z1	Comparative Anatomy of Vertebrates and Developmental Biology	Complete



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Comparative Anatomy & Developmental Biology of Vertebrates


Course title: B.Sc. I

Semester: II

Teacher Name: -Dr. Tejashri C. Patil

Month: November			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Late embryonic development- Implantation of embryo in human	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Formation of human placenta & its function	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit III	Types of placenta in mammals	Completed


Dr. Tejashri C. Patil


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Syllabus Completion Report


Subject: Physiology and Biochemistry


Course title: B.Sc. II

Semester: III Teacher

Name: -Ms. Tejashri C. Patil

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Physiology of Digestion in Alimentary Canal	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Absorption of Carbohydrate, proteins & lipids	Completed


Ms. Tejashri C. Patil


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Academic year: 2019-20**

Syllabus Completion Report

Subject: Cell biology, Genetics and Evolution


Course title: B.Sc. II

Semester: IV

Teacher Name: -Dr. Tejashri C. Patil

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit IV	Direct evidences of evolution Types of fossils	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Process of fossilization Dating of fossils Geiger-Muller Counter	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Species concept Biological species concept Modes of speciation	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Macroevolution Macro evolutionary principals Darwin finches	Completed


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Academic year: 2019-20**

Syllabus Completion Report

Subject: Functional anatomy of non-chordates; Endocrinology, Env. Bio. & toxicology; Biostatistics, Bioinformatics & medical zoology

Course title: B.Sc. III

Semester: V

Teacher Name: -Ms. Tejashri C. Patil

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Structure & phylogenetic importance Bipinaria & tornaria larva	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit III	Minor phyla Salient feature Bigula, Sagita, lingula	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Toxicology Classification of toxicant Toxic agent & mode of action of pesticides	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Toxic agent & mode of action of metals & mycotoxins	Completed
Month: November			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit III	Application of Biotechnology	Completed



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Syllabus Completion Report

Subject: Physiology; Applied Zoology

Course title: B.Sc. III

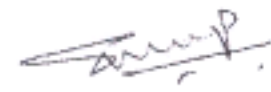
Semester: VI

Teacher Name: -Dr. Tejashri C. Patil

Month: November			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Nutritional requirement & balanced diet	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Digestion & absorption	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Vitamins Excretion	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Goat Farming	Completed



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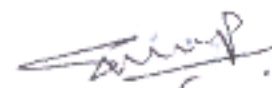
Syllabus completion report (Practical)

Teacher Name: - Dr. T. C. Patil

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. I	Practical I	B2	Animal Diversity (Section I) Comparative Anatomy and Developmental biology of Vertebrates (Section II)	Complete
B. Sc. II	Practical I Practical II	BT1, B3	Mammalian Physiology and Biochemistry Cell biology, Genetics, Evolution and Ethology	Complete



Dr. T. C. Patil



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Animal diversity


Course title: B.Sc. I

Semester: I

Teacher Name: -Ms. Sneha S. Desai

Month: July			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Phylogenetic tree in Chordate	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Protochordata Agnatha: General feature of Agnatha and classification of cyclostomes up to classes Peculiar characteristic of Petromyzon and myxin	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Class: Pisces General features and classification up to order Difference between cartilaginous and bony fishes Importance of osmoregulation in fishes	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Class-Amphibia General features and classification up to order Parental care in Amphibia	Completed


Ms. Sneha S. Desai


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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report


Subject: Comparative Anatomy & Developmental Biology of Vertebrates


Course title: B.Sc. I

Semester: II

Teacher Name: -Dr. Sneha S. Desai

Month: November			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Digestive system of Fish, Amphibia	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Digestive system of reptiles, aves & mammals and its comparative account	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit I Unit II	Digestive gland-Liver, pancreas salivary gland Introduction to Urinogenital system	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	2	4	Unit II	Archenephros, pronephros, mesonephros & metanephros Evolution of uriogenital ducts	Completed


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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Cell biology, Genetics and Evolution


Course title: B.Sc. II

Semester: IV

Teacher Name: -Dr. Sneha S. Desai

Month: November			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Mendelian genetics & its extension Principal of inheritance	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Chromosomal theory of inheritance Incomplete dominance & codominance	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I Unit II	Multiple alleles w.r.t. ABO, Rh factor Extrachromosomal inheritance Sex determination	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	2	6	Unit II	Sex determination Dosage compensation Sex chromosomal theory Genic balance theory Haploidy- diploidy mechanism of sex determination	Completed


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Academic year: 2019-20**

Syllabus Completion Report

Subject: Biostatistics, Bioinformatics & Medical zoology

Course title: B.Sc. III

Semester: V

Teacher Name: -Ms. Sneha S. Desai

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Biostatistics Classification, collection of data, types of classification	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Frequency distribution, principle of frequency distribution, graphical representation	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Histogram Ogive curve Polygonal frequency curve Tabulation- requirements of good table & types of tabulation	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Measures of central tendency- Mean, mode & median Correlation & its types Scattered diagram Karl pearson's & spearman's rank correlation coefficient	Completed


Ms. Sneha S. Desai


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Academic year: 2019-20**

Syllabus completion report (Practical)

Teacher Name: - Dr. S. S. Desai

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. I	Practical I	B8, B7	Animal Diversity (Section I) Comparative Anatomy and Developmental biology of Vertebrates (Section II)	Complete
B. Sc. II	Practical I	B3	Mammalian Physiology and Biochemistry	Complete
B. Sc. III	Practical VI	Z1	Molecular Biology, Biotechnology and Biotechniques and Endocrinology, Environmental Biology and Toxicology	Complete


Dr. S. S. Desai



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Syllabus Completion Report

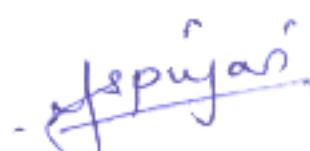
Subject: Physiology

Course title: B.Sc. III


Teacher Name: -Ms. Yogita S. Pujari

Semester: VI

Month: November			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Physiology Carbohydrate metabolism	Completed
Month: December			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
3	4	7	Unit I	Protein metabolism	Completed
Month: January			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
3	4	7	Unit I	Lipid metabolism	Completed


Ms. Yogita S. Pujari

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Developmental Biology

Course title: B.Sc. III

Semester: VI

Teacher Name: -Ms. Najnin A. Patel

Month: November			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Gametogenesis Process of fertilization	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Structure & types of eggs Cleavage	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Acadian tadpole & retrogressive metamorphosis	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	2	4	Unit III	Development of Amphioxus upto coelom formation	Completed



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Academic year: 2019-20**

Syllabus completion report (Practical)

Teacher Name: - Dr. T. C. Goupale

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. I	Practical I	B1,B5	Animal Diversity (Section I) Comparative Anatomy and Developmental biology of Vertebrates (Section II)	Complete
B. Sc. II	Practical I	M1	Mammalian Physiology and Biochemistry	Complete
B. Sc. III	Practical VIII	Z1	Physiology and Applied Zoology	Complete


Dr. T. C. Goupale


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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Physiology and Biochemistry

Course title: B.Sc. II

Semester: III

Teacher Name: -Dr. T. C. Gaupale

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Endocrinology Structure and functions of pituitary gland	Completed
Month: August			Module unit	Sub unit planned	Module unit
Lectures	Practical	Total			
4	4	8	Unit III	Thyroid, parathyroid, pancreas, adrenal gland	Completed
Month: September			Module unit	Sub unit planned	Module unit
Lectures	Practical	Total			
3	4	7	Unit III	Hypothalamus Testes Ovary	Completed
Month: October			Module unit	Sub unit planned	Module unit
Lectures	Practical	Total			
4	4	8	Unit IV	Mechanism of enzyme action Michaelis and Menten equation	Completed


Dr. T. C. Gaupale


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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20

Syllabus Completion Report

Subject: Comparative Anatomy & Developmental Biology of Vertebrates

Course title: B.Sc. I

Semester: II

Teacher Name: -Ms. Geetanjali B. Satale

Month: November			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Integumentary system- Derivatives of integuments w.r.t. glands	Completed
Month: December			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	4	6	Unit I	Digital tips	Completed

Ms. Geetanjali B. Satale

Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Biostatistics, Bioinformatics & medical zoology; Molecular biology, Biotechnology & Biotechniques

Course title: B.Sc. III


Semester: V

Teacher Name: -Ms. Najnin A. Patel

Month: July			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
3	2	5	Unit II	Bioinformatics- Study of computer & its devices Three levels of bioinformatics in structural biology, Application of bioinformatics in life sciences	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Biotechnology- rDNA technology Restriction enzymes- DNA ligase, DNA polymerase, Cloning vectors	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	DNA probes, PCR, Southern blotting, Separation techniques- TLC, gel electrophoresis	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Animal cell culture, stem cells	Completed



Ms. Najnin A. Patel



Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Functional anatomy of non-chordates **Course title: B.Sc. III**

Course title: B.Sc. III

Semester: V

Teacher Name: -Ms. Geetanjali B. Satale

Month: July			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit I	Protozoa Nutrition in protozoa	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Reproduction in protozoa Canal system Coelenterata-polymorphism in obelia	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	polymorphism in porpita coral & coral reefs Salient features of ctenophora	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Insect metamorphosis & hormonal control Stridulation in cicada & cricket Mollusca- Torsion & detortion	Completed



Ms. Geetanjali B. Satale

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus completion report (Practical)

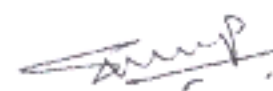
Teacher Name: - Ms. G. B. Satale

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. II	Practical II	B2	Cell biology, Genetics, Evolution and Ethology	Complete
B. Sc. III	Practical VII	Z2	Comparative Anatomy of Vertebrates and Developmental Biology	Complete



Ms. G. B. Satale

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

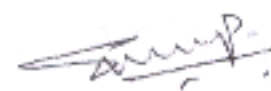
Syllabus completion report (Practical)

Teacher Name: - Ms. J. S. Sathe

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. I	Practical I Practical II	B2	Animal Diversity (Section I) Comparative Anatomy and Developmental biology of Vertebrates (Section II)	Complete
B. Sc. II	Practical II	BT1, B4	Cell biology, Genetics, Evolution and Ethology	Complete
B. Sc. III	Practical V	Z2	Functional Anatomy of Non- Chordates and Biostatistics, Bioinformatics & Medical Zoology.	Complete



Ms. J. S. Sathe



Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Functional anatomy of non-chordates

Course title: B.Sc. III

Semester: V

Teacher Name: -Ms. Jyoti S. Sathe

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Echinodermata- Sea star Systematic position, habits & habitat	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Morphology & body wall Food, feeding & digestive system Water vascular system	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Reproductive system Nervous system & sense organ Haemal & perihemal system	Completed


Ms. Jyoti S. Sathe


Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Endocrinology, Env. Bio. & toxicology


Course title: B.Sc. III

Semester: V

Teacher Name: -Ms. Yogita S. Pujari

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit II	Environmental biology Biodiversity Definition & scope	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Protection Conservation strategies Utilization	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	National Park -Kaziranga, Sanjay Gandhi, Tadoba National park Sanctuaries- Bharatpur, radhnagari	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit III	Characteristic & faunal adaptations w.r.t. Fresh water, marine water & terrestrial habitat	Completed


Ms. Yogita S. Pujari


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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

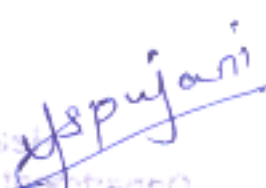
Subject: Comparative Anatomy & Developmental Biology of Vertebrates


Course title: B.Sc. I

Semester: II

Teacher Name: -Ms. Yogita S. Pujari

Month: November			Module unit	Sub unit planned	Completed / incomplete
Lectures	Practical	Total			
2	2	4	Unit IV	Fundamental development, process in development, gene activation, specification	Completed
Month: December			Module unit	Sub unit planned	Completed / incomplete
Lectures	Practical	Total			
3	4	7	Unit IV	Determination, differentiation, intercellular communication, cell movement & cell death	Completed


Ms. Yogita S. Pujari


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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Physiology and Biochemistry

Course title: B.Sc. II

Semester: III Teacher

Name: -Ms. Najnin A. Patel

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Carbohydrate metabolism Glycolysis	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Kreb cycle Pentose phosphate pathway Gluconeogenesis Glycogen metabolism	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III Unit IV	Review of electron transport chain Lipid metabolism Biosynthesis of fatty acids	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Beta oxidation of palmitic acid	Completed
Month: November			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Protein metabolism Trans amination Deamination	Completed



Ms. Najnin A. Patel

Ms. Najnin A. Patel
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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus completion report (Practical)

Teacher Name: - Ms. N. A. Patel

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. I	Practical I	B6	Animal Diversity (Section I) Comparative Anatomy and Developmental biology of Vertebrates (Section II)	Complete
B. Sc. II	Practical I	B1	Mammalian Physiology and Biochemistry	Complete
B. Sc. III	Practical V	Z1	Functional Anatomy of Non- Chordates and Biostatistics, Bioinformatics & Medical Zoology.	Complete



Ms. N. A. Patel



Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Developmental Biology; Physiology

Course title: B.Sc. III

Semester: VI

Teacher Name: -Ms. Geetanjali B. Satale

Month: November			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Organizer- Concept & process of induction	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit I	Study of fetal membrane Placenta types	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Significance of placenta Cloning techniques	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Nerve & Muscle physiology	Completed

Ms. Geetanjali B. Satale

Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Applied Zoology

Course title: B.Sc. III

Semester: VI


Teacher Name: -Ms. Kranti L. Kamble

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit II	Pest & its management	Completed
Month: December			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
4	4	8	Unit II	Dairy Farming	Completed
Month: January			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
3	4	7	Unit II	Poultry Farming	Completed



Ms. Kranti L. Kamble

Ms. Kranti L. Kamble
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Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus completion report (Practical)

Teacher Name: - Ms. Y. S. Pujari

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. II	Practical I Practical II	B1, B4	Mammalian Physiology and Biochemistry Cell biology, Genetics, Evolution and Ethology	Complete
B. Sc. III	Practical VI	Z2	Molecular Biology, Biotechnology and Biotechniques and Endocrinology, Environmental Biology and Toxicology	Complete



Ms. Y. S. Pujari



Dr. K. P. Shinde
Head,
Department of Zoology
Vivekanand College,
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Digitally signed by Ms. Y. S. Pujari
DN: cn=Ms. Y. S. Pujari, o=Vivekanand College,
c=India

**Shri Swami Vivekanand Shikshan Sanstha's
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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Biostatistics, Bioinformatics & Medical zoology

Course title: B.Sc. III

Semester: V

Teacher Name: -Ms. Kranti L. Kamble

Month: July			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit III	Medical Zoology Pathogenicity & prophylaxis of microbes	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Pathogenicity & prophylaxis of virus- Herpes, Rabies, Ebola Spirochetes	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Bacteria- <i>Salmonella typhi</i> , <i>Mycobacterium tuberculosis</i> Pathogenic protozoan & their control	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Pathogenic helminthes & their control Ascaris & Wucheria Mosquito as vector of disease	Completed
Month: November			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit III	Study of Antibiotics w.r.t. Chemical nature & action	Completed



Ms. Kranti L. Kamble



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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Cell biology, Genetics and Evolution

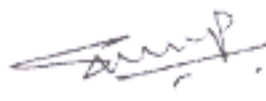
Course title: B.Sc. II

Semester: IV

Teacher Name: -Dr. T. C. Gaupale

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit III	Organic variation Isolating mechanism Natural selection	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Industrial melanism Types of natural selection	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III & IV	Artificial selection Mass extinction	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit IV	Role of extinction in evolution	Completed


Dr. T. C. Gaupale


Dr. K. P. Shinde
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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Comparative Anatomy & Developmental Biology of Vertebrates


Course title: B.Sc. I

Semester: II

Teacher Name: -Dr. T.C. Gaupale

Month: November			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit IV	Chick Embryology Introduction to Embryology	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Fertilization in chick Development up to 72 hrs	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Development up to 72 hrs	Completed


Dr. T. C. Gaupale


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DEPARTMENT OF ZOOLOGY
 Academic year: 2019-20

Syllabus Completion Report

Subject: Animal diversity

Course title: B.Sc. I

Semester: I

Teacher Name: -Ms. Najnin A. Patel

Month: July			Module unit	Sub unit planned	Completed / incomplete
Lectures	Practical	Total			
2	2	4	Unit IV	Class-Reptiles General features and classification up to order	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	classification up to order in class reptiles Venomous and non-venomous snake and types of venom	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Class Aves General features and classification up to order Flight Adaptation	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit IV	Class Mammals Classification up to order	Completed



Ms. Najnin A. Patel

Ms. Najnin A. Patel
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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus completion report (Practical)

Teacher Name: - Ms. K. L. Kamble

Class	Practical No.	Batch	Practical based on paper	Complete/Incomplete
B. Sc. I	Practical I	B3, B8, B9	Animal Diversity (Section I) Comparative Anatomy and Developmental biology of Vertebrates (Section II)	Complete
B. Sc. II	Practical I	B2	Mammalian Physiology and Biochemistry	Complete
B. Sc. III	Practical VIII	Z2	Physiology and Applied Zoology	Complete



Ms. K. L. Kamble

Ms. K. L. Kamble
Department of Zoology
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Dr. K. P. Shinde

**Shri Swami Vivekanand Shikshan Sanstha's
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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Comparative Anatomy of Vertebrates; Applied Zoology

Course title: B.Sc. III

Semester: VI

Teacher Name: -Dr. Sneha S. Desai

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit I	Evolution of heart	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Aortic arches & portal system	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I Unit II	Excretory system- Evolution of Kidney & ducts	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit II	Pearl & Prawn culture	Completed



Dr. Sneha S. Desai



Dr. K. P. Shinde

**Shri Swami Vivekanand Shikshan Sanstha's
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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Endocrinology, Env. Bio. & toxicology

Course title: B.Sc. III

Semester: V

Teacher Name: -Dr. T. C. Gaupale

Month: July			Module unit	Sub unit planned	Completed/ incompletd
Lectures	Practical	Total			
2	2	4	Unit I	Endocrinology Study of endocrine glands & anatomy, histology of hormones	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Thyroid gland & parathyroid- Nature, role, regulation & disorder	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Adrenal gland & islets of langerhans- Nature, role, regulation & disorder	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit I	Hormones receptor & mechanism of hormonal action Prostaglandins	Completed

Dr. T. C. Gaupale

Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Cell biology, Genetics and Evolution

Course title: B.Sc. II

Semester: IV

Teacher Name: -Ms. Najnin A. Patel

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit I	Ultra-structure of cell organelles Prokaryotic & Eukaryotic cell	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Ultra-structure & function of plasma membrane Nucleus Mitochondria Golgi Apparatus	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Endoplasmic reticulum Ribosome Mendel's work on transmission of traits Genetic variation	Completed



Ms. Najnin A. Patel

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Physiology and Biochemistry

Course title: B.Sc. II

Semester: III Teacher

Name: -Ms. Sneha S. Desai

Month: August			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
3	4	7	Unit II	Respiration Pulmonary ventilation, respiratory volumes & capacity	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Transport of oxygen, carbon dioxide in blood Respiratory diseases	Completed
Month: October			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Cardiovascular system Composition of blood Structure of heart Origin & conduction of cardiac impulse Cardiac cycle	Completed
Month: November			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit II	Heart diseases & heart attack Symptoms & remedies	Completed


Ms. Sneha S. Desai


Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Comparative Anatomy & Developmental Biology of Vertebrates

Course title: B.Sc. I

Semester: II

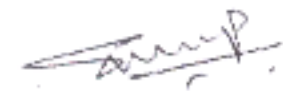
Teacher Name: -Ms. Najnin A. Patel

Month: November			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit II	Sense organs & types of receptors	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	Early embryonic development Gametogenesis- Spermatogenesis, Oogenesis with reference to mammals	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit III	External fertilization (Amphibia), internal fertilization mammals, early embryonic development	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
2	2	4	Unit III	Fate map & Neurulation in frog embryo	Completed

Ms. Najnin A. Patel



Ms. Najnin A. Patel



Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Physiology, Applied Zoology


Course title: B.Sc. III

Semester: VI

Teacher Name: -Ms. Jyoti S. Sathe

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit II	Respiration	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Circulation	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Vermiculture	Completed


Ms. Jyoti S. Sathe


Dr. K. P. Shinde

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report


Subject: Developmental Biology; Applied Zoology

Course title: B.Sc. III

Semester: VI

Teacher Name: -Dr. T.C. Gaupale

Month: November			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit II	Introduction to Developmental biology	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Fertilization in chick Development up to 72 hrs	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Development up to 72 hrs	Completed
Month: February			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	2	5	Unit II	Fisheries	Completed


Dr. T. C. Gaupale


Dr. K. P. Shinde

**Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Cell biology, Genetics and Evolution

Course title: B.Sc. II

Semester: IV

Teacher Name: -Ms. Geetanjali B. Satale

Month: November			Module unit	Sub unit planned	Completed/ incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Linkage & crossing over Types of linkage	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Mechanism of crossing over Coupling & repulsion theory Cytological evidences of crossing over	Completed
Month: January			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Mutation Chromosomal mutation- Deletion, Duplication, Inversion Induced versus spontaneous mutation	Completed



Ms. Geetanjali B. Satale



Dr. K. P. Shinde

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Physiology and Biochemistry

Course title: B.Sc. II

Semester: III Teacher

Name: -Ms. Geetanjali B. Satale

Month: July			Module unit	Sub unit planned	Completed/ incomplete
Lectures	Practical	Total			
2	2	4	Unit I	Nerve & Muscle Structure of Neuron	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Resting membrane potential Origin of action potential & its propagation in non-myelinated nerve fiber	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit I	Ultra-Structure of skeletal muscle Molecular & Chemical basis of muscle contraction	Completed


Ms. Geetanjali B. Satale

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DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Comparative Anatomy & Developmental Biology of Vertebrates

Course title: B.Sc. I

Semester: II

Teacher Name: -Ms. Kranti L. Kamble

Month: November			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Brief account of gills	Completed
Month: December			Module unit	Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit I	Lungs, air sacs & swim bladder	Completed



Ms. Kranti L. Kamble



Dr. K. P. Shinde

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report


Subject: Animal diversity

Course title: B.Sc. I

Semester: I

Teacher Name: -Ms. Kranti L. Kamble

Month: July			Module unit	Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit II	Phylum Arthropoda General characters and classification up to class Social behavior in honey bee	Completed
Month: August			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Phylum Mollusca General characters and classification up to class Economic importance of Mollusca	Completed
Month: September			Module unit	Sub unit planned	
Lectures	Practical	Total			
4	4	8	Unit II	Phylum Echinodermata General characters and classification up to class Water vascular system in Star fish, pedicellaria in Echinodermata	Completed


Ms. Kranti L. Kamble



Dr. K. P. Shinde

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VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
DEPARTMENT OF ZOOLOGY
Academic year: 2019-20**

Syllabus Completion Report

Subject: Animal diversity

Course title: B.Sc. I

Semester: I

Teacher Name: -Dr. T. C. Gaupale

Month: July		Module unit		Sub unit planned	Completed / incompleted
Lectures	Practical	Total			
2	2	4	Unit I	Phylum Platyhelminthes General characters and classification up to classes Morphology of Taenia solium and its parasitic adaptation	Completed
Month: August		Module unit		Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit I	Preventive measures and control measures Phylum-Nemathelminthes General characters and classification up to classes Life history of Ascaris lumbricoides and its parasitic adaption	Completed
Month: September		Module unit		Sub unit planned	
Lectures	Practical	Total			
3	4	7	Unit I Unit II	Preventive measures and control measures Phylum-Annelida General characters and classification up to classes	Completed
Month: October		Module unit		Sub unit planned	
Lectures	Practical	Total			
2	4	6	Unit II	Metamerism in Annelida	Completed


Dr. T. C. Gaupale


Dr. K. P. Shinde

