

**GOVERNMENT OF MAHARASHTRA,
ISMAIL YUSUF COLLEGE OF ARTS, SCIENCE AND COMMERCE,
JOGESHWARI (EAST), MUMBAI – 400060.**

DEPARTMENT OF ZOOLOGY

Teaching Plan - (2022 - 2023)

Subject :- ZOOLOGY

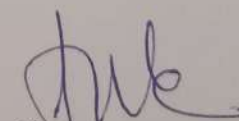
Class :- F.Y.B.Sc.

Semester :- I and II

Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Wonders of the Animal World	15	14
September	Unit 2 – Biodiversity and its Conservation	15	16
October	Unit 3 – Footsteps to follow	15	14
	Practicals based on Sem – I P – I	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Population Ecology	15	16
February	Unit 2 - Ecosystem	15	14
March	Unit 3 – National Parks and Sanctuaries of India	15	15
	Practicals based on Sem – II P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Anjali D. Garibe


Signature

Head of the Department / Coordinator

विभाग प्रमुख
प्राणीशास्त्र विभाग
इ.यु. महाविद्यालय,
जोगेश्वरी , मुंबई ४०० ०६०.

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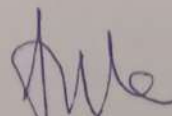
Class :- F.Y.B.Sc.

Semester :- I and II

Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Laboratory safety and Units of Measurement	15	14
September	Unit 2 – Animal Biotechnology	15	16
October	Unit 3 – Instrumentation	15	14
	Practicals based on Sem – I P – II	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Nutrition and Health	15	16
February	Unit 2 – Public health and Hygiene	15	14
March	Unit 3 – Common human diseases	15	15
	Practicals based on Sem – II P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni



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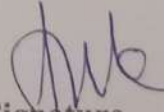
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2022 - 2023)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Fundamentals of Genetics	15	16
July	Unit 2 – Chromosomes and Heredity	15	14
August	Unit 3 – Nucleic Acids	15	16
	Practicals based on Sem – III P - I	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Origin and evolution of Life	15	15
December	Unit 2 – Population genetics and evolution	15	15
January	Unit 3 – Scientific attitude methodology, writing and ethics	15	15
February	Practicals based on Sem – IV P - I	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Dr. Ulka Aade


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Subject :- ZOOLOGY

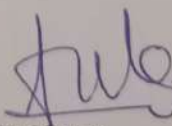
Class :- S.Y.B.Sc.

Semester :- III and IV

Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Study of Nutrition and Excretion	15	16
July	Unit 2 – Study of Respiration and Circulation	15	16
August	Unit 3 – Control and coordination, Locomotion and Reproduction	15	16
	Practicals based on Sem – III P – II	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Cell Biology	15	14
December	Unit 2 – Endo membrane system	15	16
January	Unit 3 – Biomolecules	15	15
February	Practicals based on Sem – IV P - II	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Varda Kulkarni


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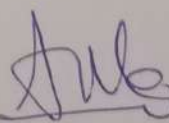
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2022 - 2023)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Ethology	15	15
July	Unit 2 – Parasitology	15	14
August	Unit 3 - Economic Zoology	15	16
September	Practicals based on Sem – III P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Comparative Embryology	15	17
January	Unit 2 – Aspects of Human Reproduction	15	16
February	Unit 3 – Pollution and its effect on organisms	15	13
	Practicals based on Sem – IV P - III	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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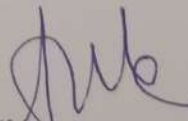
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2022 - 2023)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July	Unit 1 – Principles of Taxonomy	15	14
August	Unit 2 – Kingdom : Animalia I	15	15
September	Unit 3 – Kingdom Animalia II	15	15
October	Unit 4 – Type study : Sepia	15	16
	Practicals based on Sem – V P - I	1 practical	Per week
November	Examinations		
December	Unit 1 – Phylum Chordata : Group Protochordata and Group Euchordata	15	15
January	Unit 2 – Group Euchordata II	15	15
February	Unit 3 – Group Euchordata III	15	15
March	Unit 4 – Type study : Shark	15	16
	Practicals based on Sem – VI P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni


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Subject :- ZOOLOGY

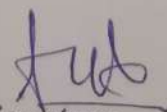
Class :-T.Y.B.Sc.

Semester :- V and VI

Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Basic Haematology	15	14
July	Unit 2 – Applied Haematology	15	14
August	Unit 3 – Basic Immunology	15	16
September	Unit 4 – Applied Immunology	15	16
	Practicals based on Sem – V P - II	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Ezymology	15	15
January	Unit 2 – Homeostasis	15	14
February	Unit 3 – Endocrinology	15	16
March	Unit 4 – Animal Tissue Culture	15	16
	Practicals based on Sem – VI P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade


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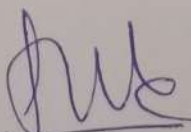
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Teaching Plan - (2022 - 2023)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Mammalian Histology	15	13
July	Unit 2 – Toxicology	15	15
August	Unit 3 – General Pathology	15	14
September	Unit 4 – Biostatistics	15	16
	Practicals based on Sem – V P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Molecular Biology	15	16
January	Unit 2 – Genetic Engineering	15	16
February	Unit 3 – Human Genetics	15	16
March	Unit 4 - Bioinformatics	15	14
	Practicals based on Sem – VI P – III	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade


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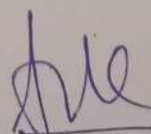
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2022 - 2023)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- IV

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Integumentary system and derivatives	15	12
July	Unit 2 – Human Osteology	15	14
August	Unit 3 – Muscles of long bones of Human limbs	15	16
September	Unit 4 – Developmental biology of Chick	15	16
	Practicals based on Sem – V P - IV	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Environment management	15	16
January	Unit 2 – Wildlife management	15	15
February	Unit 3 – Bioprospecting and Zoopharmacognosy	15	16
March	Unit 4 - Zoogeography	15	14
	Practicals based on Sem – VI P - IV	1 practical	Per week
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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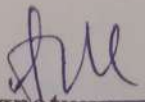
Class :- T.Y.B.Sc.

Semester :- V and VI

Paper :- V (AC - Marine science)

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Zonation in the Sea and Marine biodiversity	15	14
July	Unit 2 – Physical oceanography and ocean related climatic changes	15	16
August	Unit 3 – Chemical oceanography	15	16
September	Unit 4 – Oceanographic Instruments	15	14
	Practicals based on Sem – V Marine Science	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Introduction to Commercial culture	15	16
January	Unit 2 – Marine Value added products	15	14
February	Unit 3 – Introduction to quality control, preservation and processing	15	15
March	Unit 4 – Fish pathology	15	15
	Practicals based on Sem – VI Marine Science	1 practical	Per week
April	Examinations		

Faculty :- Dr. Venkatesh Hegde


Signature

Head of the Department / Coordinator

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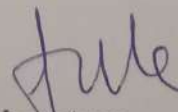
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Teaching Plan - (2021 - 2022)

Subject :- ZOOLOGY Class :- F.Y.B.Sc. Semester :- I and II Paper :- I

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June			
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Faculty :- Dr. Ulka Aade and Miss. Anjali D. Garibe


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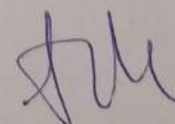
Class :- F.Y.B.Sc.

Semester :- I and II

Paper :- II

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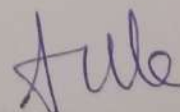
Class :- S.Y.B.Sc.

Semester :- III and IV

Paper :- I

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June	Unit 1 – Fundamentals of Genetics	15	16
July	Unit 2 – Chromosomes and Heredity	15	14
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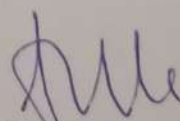
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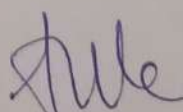
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June	Unit 1 – Ethology	15	15
July	Unit 2 – Parasitology	15	14
August	Unit 3 - Economic Zoology	15	16
September	Practicals based on Sem – III P - III	1 practical	Per week
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November	Examinations		
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Faculty :- Miss. Anjali D. Garibe


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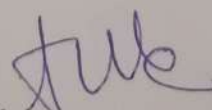
Class :- T.Y.B.Sc.

Semester :- V and VI

Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July	Unit 1 – Principles of Taxonomy	15	14
August	Unit 2 – Kingdom : Animalia I	15	15
September	Unit 3 – Kingdom Animalia II	15	15
October	Unit 4 – Type study : Sepia	15	16
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January	Unit 2 – Group Euchordata II	15	15
February	Unit 3 – Group Euchordata III	15	15
March	Unit 4 – Type study : Shark	15	16
	Practicals based on Sem – VI P - I	1 practical	Per week
April	Examinations		

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**विभाग प्रमुख
प्राणीशास्त्र विभाग
इ.यु. महाविद्यालय,
जोगेश्वरी, मुंबई ४०० ०६०.**

**GOVERNMENT OF MAHARASHTRA,
ISMAIL YUSUF COLLEGE OF ARTS, SCIENCE AND COMMERCE,
JOGESHWARI (EAST), MUMBAI – 400060.**

DEPARTMENT OF ZOOLOGY

Teaching Plan - (2021 - 2022)

Subject :- ZOOLOGY

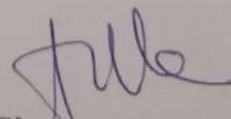
Class :-T.Y.B.Sc.

Semester :- V and VI

Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Basic Haematology	15	14
July	Unit 2 – Applied Haematology	15	14
August	Unit 3 – Basic Immunology	15	16
September	Unit 4 – Applied Immunology	15	16
	Practicals based on Sem – V P - II	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Ezymology	15	15
January	Unit 2 – Homeostasis	15	14
February	Unit 3 – Endocrinology	15	16
March	Unit 4 – Animal Tissue Culture	15	16
	Practicals based on Sem – VI P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade


Signature

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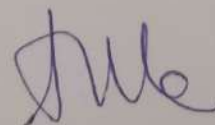
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2021 - 2022)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Mammalian Histology	15	13
July	Unit 2 – Toxicology	15	15
August	Unit 3 – General Pathology	15	14
September	Unit 4 – Biostatistics	15	16
	Practicals based on Sem – V P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Molecular Biology	15	16
January	Unit 2 – Genetic Engineering	15	16
February	Unit 3 – Human Genetics	15	16
March	Unit 4 - Bioinformatics	15	14
	Practicals based on Sem – VI P – III	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade



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JOGESHWARI (EAST), MUMBAI – 400060.**

DEPARTMENT OF ZOOLOGY

Teaching Plan - (2021 - 2022)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- IV

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Integumentary system and derivatives	15	12
July	Unit 2 – Human Osteology	15	14
August	Unit 3 – Muscles of long bones of Human limbs	15	16
September	Unit 4 – Developmental biology of Chick	15	16
	Practicals based on Sem – V P - IV	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Environment management	15	16
January	Unit 2 – Wildlife management	15	15
February	Unit 3 – Bioprospecting and Zoopharmacognosy	15	16
March	Unit 4 - Zoogeography	15	14
	Practicals based on Sem – VI P - IV	1 practical	Per week
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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**GOVERNMENT OF MAHARASHTRA,
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JOGESHWARI (EAST), MUMBAI – 400060.**

DEPARTMENT OF ZOOLOGY

Teaching Plan - (2021 - 2022)

Subject :- ZOOLOGY

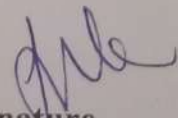
Class :- T.Y.B.Sc.

Semester :- V and VI

Paper :- V (AC - Marine science)

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Zonation in the Sea and Marine biodiversity	15	14
July	Unit 2 – Physical oceanography and ocean related climatic changes	15	16
August	Unit 3 – Chemical oceanography	15	16
September	Unit 4 – Oceanographic Instruments	15	14
	Practicals based on Sem – V Marine Science	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Introduction to Commercial culture	15	16
January	Unit 2 – Marine Value added products	15	14
February	Unit 3 – Introduction to quality control, preservation and processing	15	15
March	Unit 4 – Fish pathology	15	15
	Practicals based on Sem – VI Marine Science	1 practical	Per week
April	Examinations		

Faculty :- Dr. Venkatesh Hegde


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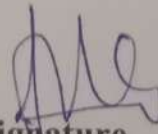
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :- F.Y.B.Sc. Semester :- I and II Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Wonders of the Animal World	15	14
September	Unit 2 – Biodiversity and its Conservation	15	16
October	Unit 3 – Footsteps to follow	15	14
	Practicals based on Sem – I P – I	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Population Ecology	15	16
February	Unit 2 - Ecosystem	15	14
March	Unit 3 – National Parks and Sanctuaries of India	15	15
	Practicals based on Sem – II P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Anjali D. Garibe


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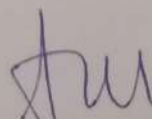
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :- F.Y.B.Sc. Semester :- I and II Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Laboratory safety and Units of Measurement	15	14
September	Unit 2 – Animal Biotechnology	15	16
October	Unit 3 – Instrumentation	15	14
	Practicals based on Sem – I P – II	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Nutrition and Health	15	16
February	Unit 2 – Public health and Hygiene	15	14
March	Unit 3 – Common human diseases	15	15
	Practicals based on Sem – II P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni


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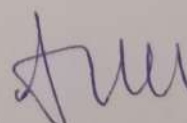
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Fundamentals of Genetics	15	16
July	Unit 2 – Chromosomes and Heredity	15	14
August	Unit 3 – Nucleic Acids	15	16
	Practicals based on Sem – III P - I	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Origin and evolution of Life	15	15
December	Unit 2 – Population genetics and evolution	15	15
January	Unit 3 – Scientific attitude methodology, writing and ethics	15	15
February	Practicals based on Sem – IV P - I	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Dr. Ulka Aade


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प्राणीशास्त्र विभाग
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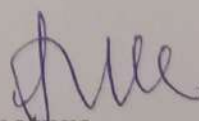
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Study of Nutrition and Excretion	15	16
July	Unit 2 – Study of Respiration and Circulation	15	16
August	Unit 3 – Control and coordination, Locomotion and Reproduction	15	16
	Practicals based on Sem – III P – II	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Cell Biology	15	14
December	Unit 2 – Endo membrane system	15	16
January	Unit 3 – Biomolecules	15	15
February	Practicals based on Sem – IV P - II	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Varda Kulkarni


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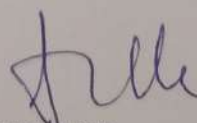
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Ethology	15	15
July	Unit 2 – Parasitology	15	14
August	Unit 3 - Economic Zoology	15	16
September	Practicals based on Sem – III P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Comparative Embryology	15	17
January	Unit 2 – Aspects of Human Reproduction	15	16
February	Unit 3 – Pollution and its effect on organisms	15	13
	Practicals based on Sem – IV P - III	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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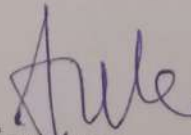
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July	Unit 1 – Principles of Taxonomy	15	14
August	Unit 2 – Kingdom : Animalia I	15	15
September	Unit 3 – Kingdom Animalia II	15	15
October	Unit 4 – Type study : Sepia	15	16
	Practicals based on Sem – V P - I	1 practical	Per week
November	Examinations		
December	Unit 1 – Phylum Chordata : Group Protochordata and Group Euchordata	15	15
January	Unit 2 – Group Euchordata II	15	15
February	Unit 3 – Group Euchordata III	15	15
March	Unit 4 – Type study : Shark	15	16
	Practicals based on Sem – VI P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni


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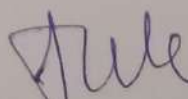
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :-T.Y.B.Sc. Semester :- V and VI Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Basic Haematology	15	14
July	Unit 2 – Applied Haematology	15	14
August	Unit 3 – Basic Immunology	15	16
September	Unit 4 – Applied Immunology	15	16
	Practicals based on Sem – V P - II	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Ezymology	15	15
January	Unit 2 – Homeostasis	15	14
February	Unit 3 – Endocrinology	15	16
March	Unit 4 – Animal Tissue Culture	15	16
	Practicals based on Sem – VI P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade


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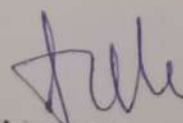
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Mammalian Histology	15	13
July	Unit 2 – Toxicology	15	15
August	Unit 3 – General Pathology	15	14
September	Unit 4 – Biostatistics	15	16
	Practicals based on Sem – V P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Molecular Biology	15	16
January	Unit 2 – Genetic Engineering	15	16
February	Unit 3 – Human Genetics	15	16
March	Unit 4 - Bioinformatics	15	14
	Practicals based on Sem – VI P – III	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade


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DEPARTMENT OF ZOOLOGY

Teaching Plan - (2020 - 2021)

Subject :- ZOOLOGY

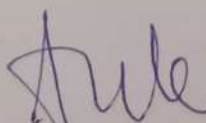
Class :- T.Y.B.Sc.

Semester :- V and VI

Paper :- IV

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Integumentary system and derivatives	15	12
July	Unit 2 – Human Osteology	15	14
August	Unit 3 – Muscles of long bones of Human limbs	15	16
September	Unit 4 – Developmental biology of Chick	15	16
	Practicals based on Sem – V P - IV	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Environment management	15	16
January	Unit 2 – Wildlife management	15	15
February	Unit 3 – Bioprospecting and Zoopharmacognosy	15	16
March	Unit 4 - Zoogeography	15	14
	Practicals based on Sem – VI P - IV	1 practical	Per week
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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Subject :- ZOOLOGY

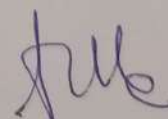
Class :- T.Y.B.Sc.

Semester :- V and VI

Paper :- V (AC - Marine science)

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Zonation in the Sea and Marine biodiversity	15	14
July	Unit 2 – Physical oceanography and ocean related climatic changes	15	16
August	Unit 3 – Chemical oceanography	15	16
September	Unit 4 – Oceanographic Instruments	15	14
	Practicals based on Sem – V Marine Science	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Introduction to Commercial culture	15	16
January	Unit 2 – Marine Value added products	15	14
February	Unit 3 – Introduction to quality control, preservation and processing	15	15
March	Unit 4 – Fish pathology	15	15
	Practicals based on Sem – VI Marine Science	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade



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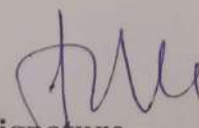
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY Class :- F.Y.B.Sc. Semester :- I and II Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Wonders of the Animal World	15	14
September	Unit 2 – Biodiversity and its Conservation	15	16
October	Unit 3 – Footsteps to follow	15	14
	Practicals based on Sem – I P – I	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Population Ecology	15	16
February	Unit 2 - Ecosystem	15	14
March	Unit 3 – National Parks and Sanctuaries of India	15	15
	Practicals based on Sem – II P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Anjali D. Garibe


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Subject :- ZOOLOGY

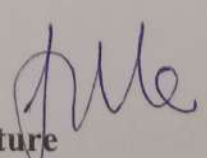
Class :- F.Y.B.Sc.

Semester :- I and II

Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Laboratory safety and Units of Measurement	15	14
September	Unit 2 – Animal Biotechnology	15	16
October	Unit 3 – Instrumentation	15	14
	Practicals based on Sem – I P – II	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Nutrition and Health	15	16
February	Unit 2 – Public health and Hygiene	15	14
March	Unit 3 – Common human diseases	15	15
	Practicals based on Sem – II P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni


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प्राणीशास्त्र विभाग
इ.यु. महाविद्यालय,
जोगेश्वरी , मुंबई ४०० ०६०.

**GOVERNMENT OF MAHARASHTRA,
ISMAIL YUSUF COLLEGE OF ARTS, SCIENCE AND COMMERCE,
JOGESHWARI (EAST), MUMBAI – 400060.**

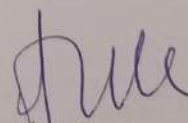
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Fundamentals of Genetics	15	16
July	Unit 2 – Chromosomes and Heredity	15	14
August	Unit 3 – Nucleic Acids	15	16
	Practicals based on Sem – III P - I	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Origin and evolution of Life	15	15
December	Unit 2 – Population genetics and evolution	15	15
January	Unit 3 – Scientific attitude methodology, writing and ethics	15	15
February	Practicals based on Sem – IV P - I	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Dr. Ulka Aade


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DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY

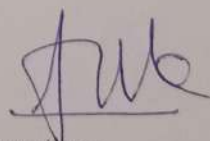
Class :- S.Y.B.Sc.

Semester :- III and IV

Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Study of Nutrition and Excretion	15	16
July	Unit 2 – Study of Respiration and Circulation	15	16
August	Unit 3 – Control and coordination, Locomotion and Reproduction	15	16
	Practicals based on Sem – III P – II	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Cell Biology	15	14
December	Unit 2 – Endo membrane system	15	16
January	Unit 3 – Biomolecules	15	15
February	Practicals based on Sem – IV P - II	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Varda Kulkarni



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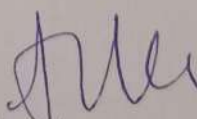
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Ethology	15	15
July	Unit 2 – Parasitology	15	14
August	Unit 3 - Economic Zoology	15	16
September	Practicals based on Sem – III P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Comparative Embryology	15	17
January	Unit 2 – Aspects of Human Reproduction	15	16
February	Unit 3 – Pollution and its effect on organisms	15	13
	Practicals based on Sem – IV P - III	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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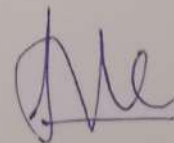
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July	Unit 1 – Principles of Taxonomy	15	14
August	Unit 2 – Kingdom : Animalia I	15	15
September	Unit 3 – Kingdom Animalia II	15	15
October	Unit 4 – Type study : Sepia	15	16
	Practicals based on Sem – V P - I	1 practical	Per week
November	Examinations		
December	Unit 1 – Phylum Chordata : Group Protochordata and Group Euchordata	15	15
January	Unit 2 – Group Euchordata II	15	15
February	Unit 3 – Group Euchordata III	15	15
March	Unit 4 – Type study : Shark	15	16
	Practicals based on Sem – VI P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni



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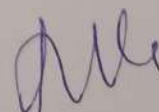
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Basic Haematology	15	14
July	Unit 2 – Applied Haematology	15	14
August	Unit 3 – Basic Immunology	15	16
September	Unit 4 – Applied Immunology	15	16
	Practicals based on Sem – V P - II	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Ezymology	15	15
January	Unit 2 – Homeostasis	15	14
February	Unit 3 – Endocrinology	15	16
March	Unit 4 – Animal Tissue Culture	15	16
	Practicals based on Sem – VI P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade



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DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY Class :-T.Y.B.Sc. Semester :- V and VI Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Mammalian Histology	15	13
July	Unit 2 – Toxicology	15	15
August	Unit 3 – General Pathology	15	14
September	Unit 4 – Biostatistics	15	16
	Practicals based on Sem – V P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Molecular Biology	15	16
January	Unit 2 – Genetic Engineering	15	16
February	Unit 3 – Human Genetics	15	16
March	Unit 4 - Bioinformatics	15	14
	Practicals based on Sem – VI P – III	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade


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DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- IV

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Integumentary system and derivatives	15	12
July	Unit 2 – Human Osteology	15	14
August	Unit 3 – Muscles of long bones of Human limbs	15	16
September	Unit 4 – Developmental biology of Chick	15	16
	Practicals based on Sem – V P - IV	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Environment management	15	16
January	Unit 2 – Wildlife management	15	15
February	Unit 3 – Bioprospecting and Zoopharmacognosy	15	16
March	Unit 4 - Zoogeography	15	14
	Practicals based on Sem – VI P - IV	1 practical	Per week
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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DEPARTMENT OF ZOOLOGY

Teaching Plan - (2019 - 2020)

Subject :- ZOOLOGY

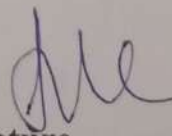
Class :- T.Y.B.Sc.

Semester :- V and VI

Paper :- V (AC - Marine science)

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Zonation in the Sea and Marine biodiversity	15	14
July	Unit 2 – Physical oceanography and ocean related climatic changes	15	16
August	Unit 3 – Chemical oceanography	15	16
September	Unit 4 – Oceanographic Instruments	15	14
	Practicals based on Sem – V Marine Science	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Introduction to Commercial culture	15	16
January	Unit 2 – Marine Value added products	15	14
February	Unit 3 – Introduction to quality control, preservation and processing	15	15
March	Unit 4 – Fish pathology	15	15
	Practicals based on Sem – VI Marine Science	1 practical	Per week
April	Examinations		

Faculty :- Mr. Pratik Chavan and Dr. Ulka Aade


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DEPARTMENT OF ZOOLOGY

Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY

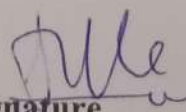
Class :- F.Y.B.Sc.

Semester :- I and II

Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Wonders of the Animal World	15	14
September	Unit 2 – Biodiversity and its Conservation	15	16
October	Unit 3 – Footsteps to follow	15	14
	Practicals based on Sem – I P – I	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Population Ecology	15	16
February	Unit 2 - Ecosystem	15	14
March	Unit 3 – National Parks and Sanctuaries of India	15	15
	Practicals based on Sem – II P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Anjali D. Garibe


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DEPARTMENT OF ZOOLOGY

Teaching Plan -(2018 - 2019)

Subject :- ZOOLOGY

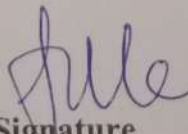
Class :- F.Y.B.Sc.

Semester :- I and II

Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July			
August	Unit 1 – Laboratory safety and Units of Measurement	15	14
September	Unit 2 – Animal Biotechnology	15	16
October	Unit 3 – Instrumentation	15	14
	Practicals based on Sem – I P – II	1 practical	Per week
November	Examinations		
December	Examinations		
January	Unit 1 – Nutrition and Health	15	16
February	Unit 2 –Public health and Hygiene	15	14
March	Unit 3 – Common human diseases	15	15
	Practicals based on Sem – II P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni


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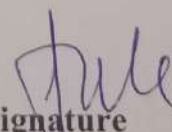
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Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Fundamentals of Genetics	15	16
July	Unit 2 – Chromosomes and Heredity	15	14
August	Unit 3 – Nucleic Acids	15	16
	Practicals based on Sem – III P - I	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Origin and evolution of Life	15	15
December	Unit 2 – Population genetics and evolution	15	15
January	Unit 3 – Scientific attitude methodology, writing and ethics	15	15
February	Practicals based on Sem – IV P - I	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Dr. Ulka Aade


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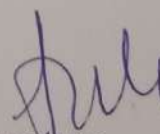
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Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Study of Nutrition and Excretion	15	16
July	Unit 2 – Study of Respiration and Circulation	15	16
August	Unit 3 – Control and coordination, Locomotion and Reproduction	15	16
	Practicals based on Sem – III P – II	1 practical	Per week
September	Examinations		
October	Examinations		
November	Unit 1 – Cell Biology	15	14
December	Unit 2 – Endo membrane system	15	16
January	Unit 3 – Biomolecules	15	15
February	Practicals based on Sem – IV P - II	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Varda Kulkarni


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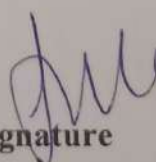
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Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY Class :- S.Y.B.Sc. Semester :- III and IV Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Ethology	15	15
July	Unit 2 – Parasitology	15	14
August	Unit 3 - Economic Zoology	15	16
September	Practicals based on Sem – III P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Comparative Embryology	15	17
January	Unit 2 – Aspects of Human Reproduction	15	16
February	Unit 3 – Pollution and its effect on organisms	15	13
	Practicals based on Sem – IV P - III	1 practical	Per week
March	Examinations		
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


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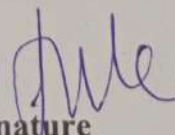
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- I

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June			
July	Unit 1 – Principles of Taxonomy	15	14
August	Unit 2 – Kingdom : Animalia I	15	15
September	Unit 3 – Kingdom Animalia II	15	15
October	Unit 4 – Type study : Sepia	15	16
	Practicals based on Sem – V P - I	1 practical	Per week
November	Examinations		
December	Unit 1 – Phylum Chordata : Group Protochordata and Group Euchordata	15	15
January	Unit 2 – Group Euchordata II	15	15
February	Unit 3 – Group Euchordata III	15	15
March	Unit 4 – Type study : Shark	15	16
	Practicals based on Sem – VI P - I	1 practical	Per week
April	Examinations		

Faculty :- Dr. Ulka Aade and Miss. Varda Kulkarni


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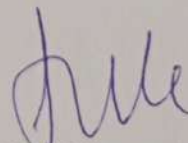
DEPARTMENT OF ZOOLOGY

Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- II

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Basic Haematology	15	14
July	Unit 2 – Applied Haematology	15	14
August	Unit 3 – Basic Immunology	15	16
September	Unit 4 – Applied Immunology	15	16
	Practicals based on Sem – V P - II	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Ezymology	15	15
January	Unit 2 – Homeostasis	15	14
February	Unit 3 – Endocrinology	15	16
March	Unit 4 – Animal Tissue Culture	15	16
	Practicals based on Sem – VI P - II	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade


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Subject :- ZOOLOGY

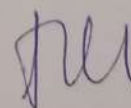
Class :-T.Y.B.Sc.

Semester :- V and VI

Paper :- III

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 –Mammalian Histology	15	13
July	Unit 2 –Toxicology	15	15
August	Unit 3 –General Pathology	15	14
September	Unit 4 –Biostatistics	15	16
	Practicals based on Sem – V P - III	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Molecular Biology	15	16
January	Unit 2 – Genetic Engineering	15	16
February	Unit 3 – Human Genetics	15	16
March	Unit 4 - Bioinformatics	15	14
	Practicals based on Sem – VI P – III	1 practical	Per week
April	Examinations		

Faculty :- Dr. Bhavita Chavan and Dr. Ulka Aade



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इ.यु. महाविद्यालय,
जोगेश्वरी , मुंबई ४०० ०६०.**

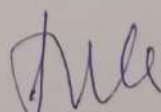
**GOVERNMENT OF MAHARASHTRA,
ISMAIL YUSUF COLLEGE OF ARTS, SCIENCE AND COMMERCE,
JOGESHWARI (EAST), MUMBAI – 400060.
DEPARTMENT OF ZOOLOGY**

Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY Class :- T.Y.B.Sc. Semester :- V and VI Paper :- IV

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 –Integumentary system and derivatives	15	12
July	Unit 2 – Human Osteology	15	14
August	Unit 3 – Muscles of long bones of Human limbs	15	16
September	Unit 4 – Developmental biology of Chick	15	16
	Practicals based on Sem – V P - IV	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Environment management	15	16
January	Unit 2 – Wildlife management	15	15
February	Unit 3 – Bioprospecting and Zoopharmacognosy	15	16
March	Unit 4 - Zoogeography	15	14
	Practicals based on Sem – VI P - IV	1 practical	Per week
April	Examinations		

Faculty :- Miss. Anjali D. Garibe


Signature

Head of the Department / Coordinator

विभाग प्रमुख
प्राणीशास्त्र विभाग
इ.यु. महाविद्यालय,
जोगेश्वरी , मुंबई ४०० ०६०.

**GOVERNMENT OF MAHARASHTRA,
ISMAIL YUSUF COLLEGE OF ARTS, SCIENCE AND COMMERCE,
JOGESHWARI (EAST), MUMBAI – 400060.**

DEPARTMENT OF ZOOLOGY

Teaching Plan - (2018 - 2019)

Subject :- ZOOLOGY

Class :- T.Y.B.Sc.

Semester :- V and VI

Paper :- V (AC - Marine science)

Month	Topics to be covered	Assigned Lecture	Lectures undertaken
June	Unit 1 – Zonation in the Sea and Marine biodiversity	15	14
July	Unit 2 – Physical oceanography and ocean related climatic changes	15	16
August	Unit 3 – Chemical oceanography	15	16
September	Unit 4 – Oceanographic Instruments	15	14
	Practicals based on Sem – V Marine Science	1 practical	Per week
October	Examinations		
November	Examinations		
December	Unit 1 – Introduction to Commercial culture	15	16
January	Unit 2 – Marine Value added products	15	14
February	Unit 3 – Introduction to quality control, preservation and processing	15	15
March	Unit 4 – Fish pathology	15	15
	Practicals based on Sem – VI Marine Science	1 practical	Per week
April	Examinations		

Faculty :- Mr. Pratik Chavan


Signature

Head of the Department / Coordinator

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