

LESSON PLAN FOR EVEN SEM
SESSION 2017-18

NAME OF ASSISTANT /ASSOCIATE PROFESSOR: BABITA
CLASS/SECTION : B.SC.-I
SUBJECT : ZOOLGY

UNIT/PART I	CHAPTER 1: PHYLUM MOLLUSCA	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	-	-
DAY2 DATE 2-1-18	-	-
DAY3 DATE 3-1-18	-	To study the Classification of Phylum Arthropoda. To study the following specimens: <i>Peripatus</i> , <i>Palaemon</i> (Prawn), <i>Lobster</i> , <i>Cancer</i> (crab), <i>Sacculina</i> , <i>Eupagurus</i> (hermit crab).
DAY4 DATE 4-1-18	Introduction and General character and Peculiar Features of Mollusca. Classification up to order level with examples.	To study the following Arthropoda specimens: <i>Lepas</i> , <i>Balanus</i> , <i>Cyclops</i> To study the following Arthropoda specimens: <i>Lepisma</i> , <i>Periplaneta</i> ,(cockroach), <i>Schistocerca</i> (locust),
DAY5 DATE 5-1-18	General character of Different classes of Mollusca up to order.	To study the Classification of Phylum Arthropoda. To study the following specimens: <i>Peripatus</i> , <i>Palaemon</i> (Prawn), <i>Lobster</i> . <i>Cancer</i> (crab), <i>Sacculina</i> , <i>Eupagurus</i> (hermit crab).
DAY6 DATE 6-1-18	General character of Different classes of Mollusca up to order.	To study the following Arthropoda specimens: <i>Lepas</i> , <i>Balanus</i> , <i>Lepisma</i> , <i>Periplaneta</i> (cockroach), <i>Schistocerca</i> (locust).
DAY7 DATE 8-1-18	-	-
DAY8 DATE 9-1-18	-	-
DAY9 DATE 10-1-18	-	To study the following Arthropoda specimens: <i>Sitotroga</i> (moth), <i>Palamnaeus</i> (scorpion), <i>Aranea</i> (spider), <i>Limulus</i> (king crab), <i>Julus</i> (Millipedes), <i>Scolopendra</i> (centipedes),
DAY10 DATE 11-1-18	Biodiversity of Phylum Mollusca.	To study the following Arthropoda specimens: <i>Mantis</i> (praying mantis), <i>Cicada</i> , <i>Forticula</i> (earwig), <i>Poeciloceris</i> (ak-hopper), <i>Gryllus</i> (cricket).
DAY11	Economic importance of	To study the following Arthropoda specimens:

DATE 12-1-18	Mollusca. Classification, Habit, Habitat , External Morphological of <i>Pila</i> .	<i>Sitotroga</i> (moth), <i>Palamnaeus</i> (scorpion), <i>Aranea</i> (spider), <i>Limulus</i> (king crab), <i>Poecilocer</i> (ak-hopper), <i>Gryllus</i> (cricket).
DAY12 DATE 13-1-18	Pallial Complex of <i>Pila</i> . Digestive system of <i>Pila</i> .	To study the following Arthropoda specimens: <i>Mantis</i> (praying mantis), <i>Cicada</i> , <i>Forticula</i> (earwig), <i>Poecilocer</i> (ak-hopper), <i>Gryllus</i> (cricket).
DAY13 DATE 15-1-18	-	-
DAY 14 DATE 16-1-18	-	-
DAY15 DATE 17-1-18	-	To study the following Arthropoda specimens: <i>Sympetrum</i> (Dragon fly), <i>Scarabeaus</i> (beetle), <i>Polistes</i> (wasp), <i>Apis</i> (honey bee), <i>Bombyx</i> (silk moth), bug.
DAY16 DATE 18-1-18	Respiratory system and Excretory system of <i>Pila</i> .	To study the following Arthropoda Slides: <i>Daphnia</i> (w.m.), termite queen (w.m.), <i>Cimex</i> (beg bug), <i>Pediculus</i> (body louse), <i>Cyclops</i> .
DAY17 DATE 19-1-18	Blood vascular system and Nervous System of <i>Pila</i>	To study the following Arthropoda specimens: <i>Sympetrum</i> (Dragon fly), <i>Scarabeaus</i> (beetle), <i>Polistes</i> (wasp), <i>Apis</i> (honey bee), <i>Bombyx</i> (silk moth), Bug..
DAY18 DATE 20-1-18	Nervous System of <i>Pila</i> . Torsion in Gastropoda. Detorsion in Gastropoda.	To study the following Arthropoda Slides: <i>Daphnia</i> (w.m.), termite queen(w.m.), <i>Cimex</i> (beg bug), <i>Pediculus</i> (body louse), <i>Cyclops</i> .
DAY19 DATE 22-1-18	HOLIDAY	-
DAY20 DATE 23-1-18	SPORTS DAY	-
DAY21 DATE 24-1-18	HOLIDAY	HOLIDAY
DAY22 DATE 25-1-18	Respiration in Mollusca. Foot in Mollusca.	To study the Classification of Phylum Echinodermata up to order. To study the following Echinodermata Slides: <i>Asterias</i> , <i>Echinus</i> .

DAY23 DATE 26-1-18	HOLIDAY	HOLIDAY
DAY 24 DATE 27-1-18	Class test on mollusca.	To study the Classification of Phylum Echinodermata up to order and To study the following Echinodermata Specimens: <i>Asterias</i> , <i>Echinus</i> .
UNIT/PART II	CHAPTER 2: PHYLUM- ECHINODERMATA	
	THEORY	PRACTICAL
DAY1 DATE 29-1-18	-	-
DAY2 DATE 30-1-18	-	-
DAY3 DATE 31-1-18	HOLIDAY	HOLIDAY
DAY4 DATE 1-2-18	Introduction and General character of phylum Echinodermata. Peculiar Features of Echinodermata. Classification up to order of Phylum Echinodermata.	To study the following Echinodermata Specimens and slide: <i>Cucumara</i> , <i>Ophiothrix</i> , <i>Antedon</i> and <i>Asterophyton</i> and <i>T.S.Star Fish arm</i> .
DAY5 DATE 2-2-18	General character of Different classes of Echinodermata up to order. Biodiversity of Phylum Echinodermata.	To study the following Echinodermata Specimens: <i>Cucumara</i> , <i>Ophiothrix</i> , <i>Antedon</i> and <i>Asterophyton</i> .
DAY6 DATE 3-2-18	Biodiversity of Phylum Echinodermata. Economic importance of Phylum Echinodermata.	To study the following Echinodermata Specimens and Slide: <i>Ophiothrix</i> , <i>Antedon</i> and <i>Asterophyton</i> and <i>T.S.Star Fish arm</i> .
DAY7 DATE 5-2-18	-	-
DAY8 DATE 6-2-18	-	-
DAY9 DATE 7-2-18	-	To study the Classification of Phylum Hemichordata up to order and to study the following Hemichordata Specimen: <i>Balanoglossus</i> .
DAY10 DATE 8-2-18	TYPE STUDY – <i>Asterias</i> :- Classification, Habit,	To study the following Hemichordata Slides: T.S.

	Habitat of <i>Asterias</i> . External Morphological, Endoskeleton of <i>Asterias</i> . Coelom of <i>Asterias</i> . Digestive system of <i>Asterias</i> .	<i>Balanoglossus</i> (Different region)
DAY11 DATE 9-2-18	ASSIGNMENT 1 Topic: “Type study of <i>Pila</i>”.	To study the Classification of Phylum Hemichordata up to order and to study the following Hemichordata Specimen: <i>Balanoglossus</i> .
DAY12 DATE 10-2-18	HOLIDAY	HOLIDAY
DAY13 DATE 12-2-18	-	-
DAY14 DATE 13-2-18	HOLIDAY	-
DAY15 DATE 14-2-18	-	Preparation of permanent stained whole mount slide of <i>Obelia</i> ,
DAY16 DATE 15-2-18	Water vascular system/Ambulacral of <i>Asterias</i> . Locomotion in <i>Asterias</i> . Circulatory system of <i>Asterias</i> .	Preparation of permanent stained whole mount slide of <i>Sertularia</i> .
DAY17 DATE 16-2-18	Respiratory system of <i>Asterias</i> . Excretory system of <i>Asterias</i> . Nervous System of <i>Asterias</i> .	Preparation of permanent stained whole mount slide of <i>Obelia</i> .
DAY18 DATE 17-2-18	Regeneration and Autotomy in <i>Asterias</i> . Echinoderm Larvae and Aristotle’s Lantern:-Larval form in Echinoderms. Affinity and Phylogenetic status of Echinoderms. Echinoderms: Aristotle’s Lantern.	Preparation of permanent stained whole mount slide of <i>Sertularia</i> .
DAY19 DATE 19-2-18	-	-

DAY20 DATE 20-2-18	-	-
DAY21 DATE 21-2-18	-	Preparation of permanent stained whole mount slide of <i>Plumularia</i> and <i>Bougainvillea</i> .
DAY22 DATE 22-2-18	3. HEMICHORDATA Introduction and General characters of Hemichordata. Classification up to order of Hemichordata. General character of Different classes of Hemichordata. Affinities of Hemichordata	Preparation of permanent stained whole mount slide of <i>Hydra</i> .
DAY23 DATE 23-2-18	TYPE STUDY OF <i>Balanoglossus</i> : Classification, Habit, Habitat of <i>Balanoglossus</i> . External Morphological Features of <i>Balanoglossus</i> . Digestive system, Respiratory system, Blood vascular system, Excretory system, Sense organ of <i>Balanoglossus</i> . Reproductive system of <i>Balanoglossus</i> .	Preparation of permanent stained whole mount slide of <i>Plumularia</i> and <i>Bougainvillea</i> .
UNIT/PART III	TOPIC: MULTIPLE ALLESLISM	
	THEORY	PRACTICAL
DAY1 DATE 24-2-18	Introduction and Characteristics of Multiple alleles. Multiple Alleles in Blood Groups.	Preparation of permanent stained whole mount slide of <i>Hydra</i> .
DAY2 DATE 26-2-18	-	-
DAY3 DATE 27-2-18	TEST & SEMINAR (PG CLASSES)	-
DAY4 DATE 28-2-18	HOLIDAY	HOLIDAY
DAY5	HOLIDAY	HOLIDAY

DATE 1-3-18		
DAY6 DATE 2-3-18	HOLIDAY	HOLIDAY
DAY7 DATE 3-3-18	HOLIDAY	HOLIDAY
DAY8 DATE 5-3-18	-	-
DAY9 DATE 6-3-18	-	-
DAY10 DATE 7-3-18	-	Preparation of permanent stained whole mount slide of mouth parts of Mosquito,
DAY11 DATE 8-3-18	Rhesus Blood Group System. Rh-Null Blood Group. HDN-Haemolytic Disease of New Born. Other blood Group System..	Preparation of permanent stained whole mount slide of mouth parts of House Fly.
DAY12 DATE 9-3-18	5.HUMAN GENETICS Introduction and Human Karyotype. Chromosome Banding Technique. Application of Karyotype.	Preparation of permanent stained whole mount slide of mouth parts of Mosquito.
DAY13 DATE 10-3-18	ASSIGNMENT 2 Topics: "Classification of Echinodermata with General characters "and "Larval form in Echinodermata."	Preparation of permanent stained whole mount slide of mouth parts of House fly.
DAY 14 DATE 12-3-18	-	-
DAY15 DATE 13-3-18	-	-
DAY16 DATE 14-3-18	-	Preparation of permanent stained whole mount slide of mouth parts of cockroach.
DAY17 DATE 15-3-18	Chromosomal Abnormalities in Human beings. Twins (Identical and Fraternal).	Temporary Slide preparation of Gemmules and spicules of <i>Sycon</i> .

DAY18 DATE 16-3-18	6.INBORN ERRORS OF METABOLISM IN MAN Inborn Error of Inborn Error of Metabolism: Alcaptonuria, Phenylketonuria.	Preparation of permanent stained whole mount of mouth parts of cockroach.
DAY19 DATE 17-3-18	Discussion About the topics of Conditional Test to solve the queries of students.	Temporary Slide preparation of Gemmules and spicules of <i>Sycon</i> .
DAY20 DATE 19-3-18	-	-
DAY21 DATE 20-3-18	-	-
DAY22 DATE 21-3-18	CONDITIONAL TEST	CONDITIONAL TEST
DAY23 DATE 22-3-18	CONDITIONAL TEST	CONDITIONAL TEST
DAY 24 DATE 23-3-18	HOLIDAY	HOLIDAY
DAY 25 DATE 24-3-18	Inborn Error of Inborn Error of Metabolism: Albinism, Sickle-cell Anaemia.	Computer, simulated study/ model of <i>Earthworm</i> : Digestive, reproductive and nervous systems.
UNIT/PART IV	TOPIC 7: NATURE AND STRUCTURE OF GENETIC MATERIAL	
	THEORY	PRACTICAL
DAY1 DATE 26-3-18	-	-
DAY2 DATE 27-3-18	-	-
DAY3 DATE 28-3-18	-	Computer, simulated study/ model of <i>Pila</i> : Pallial complex, digestive and nervous system.
DAY4 DATE 29-3-18	HOLIDAY	HOLIDAY
DAY5 DATE 30-3-18	.Chapter 7:NATURE AND STRUCTURE OF GENETIC MATERIAL Chemical Nature of	Computer, simulated study/ model of <i>Pila</i> : Pallial complex, digestive and nervous system

	Genetic Material. Evidence For DNA as Genetic Material. Evidence For RNA as Genetic Material.	
DAY6 DATE 31-3-18	Structure and Type of Nuclie Acid; DNA Structure, Physical properties. Type of DNA. Function of DNA.	Demonstration of internal anatomy of cockroach : Digestive, reproductive and nervous systems.
DAY7 DATE 2-4-18	-	-
DAY8 DATE 3-4-18	-	-
DAY9 DATE 4-4-18	-	Computer, simulated study/ model of <i>Earthworm</i> : Digestive, reproductive and nervous systems.
DAY10 DATE 5-4-18	Ribosenuclie Acid (RNA). Type and function of RNA. Central Dogma and Replication and Transcription.	Demonstration of internal anatomy of cockroach: Digestive, reproductive and nervous Systems.
DAY11 DATE 6-4-18	Genetic Code and Protein Synthesis.	Cell division: Prepared slides of stages of mitosis and meiosis.
DAY12 DATE 7-4-18	8: MUTATION GENE MUTATION: Introduction, Source of Genetic Variation. Spontaneous Mutation and Induce mutation. Physical Mutagens. Chemical Mutagens. Type of Mutation: Gene mutation and Chromosome mutation. Role of Mutation	Salivary gland and polytene chromosomes of <i>Drosophila/ Chironomus</i> .
DAY13 DATE 9-4-18	-	-
DAY14 DATE 10-4-18	-	-
DAY15 DATE 11-4-	-	Cell division: Prepared slides of stages of mitosis and

18		meiosis.
DAY16 DATE 12-4-18	Mutation-ii: Introduction of Chromosomal Aberrations and Characteristics. Morphological Modifications of Chromosomes: Deletion, Duplication, Translocation and Inversion.	To study slide of Salivary gland and polytene chromosomes of Drosophila/ Chironomus.
DAY17 DATE 13-4-18	Mutation-iii: Introduction Numerical Chromosomal Mutation. Anueploidy and Type of Aneuploidy. Euploidy, Types: Monoploidy and their application. Polyploidy in animlas: Autopolyploidy and Allopolyploid.	Temporary squash preparations of onion root tip for the study of Mitosis.
DAY18 DATE 14-4-18	HOLIDAY	HOLIDAY
DAY20 DATE 17-4-18		-
DAY21 DATE 18-4-18	HOLIDAY	-
DAY22 DATE 19-4-18	9: APPLIED GENETICS Eugenics Euthenics Euphenics,	Test for phylum:Protozoa to Mullusca
DAY23 DATE 20-4-18	Genetic counseling. Prenatal diagnosis. DNA Fingerprinting, Transgenic Animals.	Test for phylum:Protozoa to Mullusca
DAY23 DATE 21-4-18	REVISION	Test for phylum: Arthropoda to Hemichordata.

LESSON PLAN FOR EVEN SEM

SESSION 2017-18

NAME OF ASSISTANT /ASSOCIATE PROFESSOR: BABITA
CLASS/SECTION : B.SC.-III
SUBJECT : ZOOLOGY

UNIT/PART I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	-	To determine absence or presence of Phosphates and Nitrate in the given sample of water.
DAY2 DATE 2-1-18	-	To determine pH of given sample of water by pH meter.
DAY3 DATE 3-1-18	-	To determine absence or presence of Phosphates and Nitrate in the given sample of water.
DAY4 DATE 4-1-18	-	To determine pH of given sample of water by pH meter.
DAY5 DATE 5-1-18	-	-
DAY6 DATE 6-1-18	-	-
DAY7 DATE 8-1-18	-	To determine pH of given sample of soil by pH meter.
DAY8 DATE 9-1-18	-	A study of the fish parasites
DAY9 DATE 10-1-18	-	To determine pH of given sample of soil by pH meter.
DAY10 DATE 11-1-18	-	To study of the fish parasite.
DAY11 DATE 12-1-18	-	-
DAY12 DATE 13-1-18	-	-
DAY13 DATE 15-1-18	-	To study permanent histological slides of testis, ovary, kidney, intestine liver of rat.
DAY 14 DATE 16-1-18	-	To study permanent Embryological slides : Frog - Egg (V.S.), Gastrula of Frog, Chick embryo slides(W.M.) of 1-3 hr, 18 hr.
DAY15	-	To study permanent histological

DATE 17-1-18		slides of testis, ova-ry, kidney, intestine liver of rat.
DAY16 DATE 18-1-18	-	To study permanent Embryological slides : Frog Egg (V.S.), Gastrula of Frog, Chick embryo slides(W.M.) of 13 hr,18 hr.
DAY17 DATE 19-1-18	-	-
DAY18 DATE 20-1-18	-	-
DAY19 DATE 22-1-18	HOLIDAY	HOLIDAY
DAY20 DATE 23-1-18	SPORTS DAY	SPORTS DAY
DAY21 DATE 24-1-18	HOLIDAY	HOLIDAY
DAY22 DATE 25-1-18	-	To study permanent Embryological slides of Chick embryo (W.M.) of 33 hr,48 hr,56 hr, 72 hr.
DAY23 DATE 26-1-18	HOLIDAY	HOLIDAY
DAY 24 DATE 27-1-18	-	-
UNIT/PART II	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 29-1-18	-	To study permanent Embryological slides of Chick embryo(W.M.) of 33 hr,48 hr,56 hr, 72 hr.
DAY2 DATE 30-1-18	-	To studies of the different types of nets e.g. cast net, gill net, drift net and drag net.
DAY3 DATE 31-1-18	HOLIDAY	HOLIDAY
DAY4 DATE 1-2-18	-	A study of the different types of nets e.g. cast net, gill net, drift net and drags net.
DAY5 DATE 2-2-18	-	-
DAY6 DATE 3-2-18	-	-
DAY7 DATE 5-2-18	-	Microtomy: Washing and Fixation of tissue.
DAY8	-	Microtomy: Washing and

DATE 6-2-18		Fixation of tissue.
DAY9 DATE 7-2-18	-	Microtomy: Washing and Fixation of tissue.
DAY10 DATE 8-2-18	-	Microtomy: Washing and Fixation of tissue.
DAY11 DATE 9-2-18	ASSIGNMENT 1	-
DAY12 DATE 10-2-18	HOLIDAY	HOLIDAY
DAY13 DATE 12-2-18	-	Microtomy: Block formation of the tissue of intestine, liver, ovary.
DAY14 DATE 13-2-18	HOLIDAY	HOLIDAY
DAY15 DATE 14-2-18	-	Microtomy: Block formation of the tissue of intestine.
DAY16 DATE 15-2-18	-	Microtomy: Block formation of the tissue of intestine.
DAY17 DATE 16-2-18	-	-
DAY18 DATE 17-2-18	-	-
DAY19 DATE 19-2-18	-	Microtomy: Block formation of the tissue of liver
DAY20 DATE 20-2-18	-	Microtomy: Block formation of the tissue of liver
DAY21 DATE 21-2-18	-	Microtomy: Block formation of the tissue of liver
DAY22 DATE 22-2-18	-	Microtomy: Block formation of the tissue of liver
DAY23 DATE 23-2-18	-	-
UNIT/PART III	TOPIC: MICROTOMY	
	THEORY	PRACTICAL
DAY1 DATE 24-2-18	-	-
DAY2 DATE 26-2-18	-	Microtomy: Block formation of the tissue of ovary.
DAY3 DATE 27-2-18	TEST & SEMINAR (PG CLASSES)	Microtomy: Block formation of the tissue of ovary.
DAY4 DATE 28-2-18	HOLIDAY	HOLIDAY
DAY5 DATE 1-3-18	HOLIDAY	HOLIDAY
DAY6 DATE 2-3-18	HOLIDAY	HOLIDAY

DAY7 DATE 3-3-18	HOLIDAY	HOLIDAY
DAY8 DATE 5-3-18	-	Microtomy: Block formation of the tissue of ovary.
DAY9 DATE 6-3-18	-	Microtomy: Block formation of the tissue of ovary.
DAY10 DATE 7-3-18	-	Microtomy: Block formation of the tissue of ovary.
DAY11 DATE 8-3-18	-	Microtomy: Block formation of the tissue of Kidney.
DAY12 DATE 9-3-18	-	-
DAY13 DATE 10-3-18	ASSIGNMENT 2	-
DAY 14 DATE 12-3-18	-	Microtomy: Block formation of the tissue of Kidney.
DAY15 DATE 13-3-18	-	Microtomy: Block formation of the tissue of Kidney.
DAY16 DATE 14-3-18	-	Microtomy: Block formation of the tissue of Kidney.
DAY17 DATE 15-3-18	-	Microtomy: Block formation of the tissue of Kidney.
DAY18 DATE 16-3-18	-	-
DAY19 DATE 17-3-18	-	-
DAY20 DATE 19-3-18	-	Microtomy: Stretching of the tissue of Kidney.
DAY21 DATE 20-3-18	-	Microtomy: Stretching of the tissue of Kidney.
DAY22 DATE 21-3-18	CONDITIONAL TEST	Microtomy: Stretching of the tissue of Liver.
DAY23 DATE 22-3-18	CONDITIONAL TEST	Microtomy: Stretching of the tissue of Liver.
DAY 24 DATE 23-3-18	HOLIDAY	HOLIDAY
DAY 25 DATE 24-3-18	-	-
UNIT/PART IV	TOPIC:MICROTOMY	
	THEORY-	PRACTICAL
DAY1 DATE 26-3-18		Microtomy: Stretching of the tissue of Liver.
DAY2 DATE 27-3-18	-	Microtomy: Stretching of the tissue of Liver.
DAY3	-	Microtomy: Stretching of the

DATE 28-3-18		tissue of Liver.
DAY4 DATE 29-3-18	HOLIDAY	HOLIDAY
DAY5 DATE 30-3-18	-	-
DAY6 DATE 31-3-18	-	-
DAY7 DATE 2-4-18	-	Microtomy: Stretching of the tissue of Intestine.
DAY8 DATE 3-4-18	-	Microtomy: Stretching of the tissue of Intestine.
DAY9 DATE 4-4-18	-	Microtomy: Stretching of the tissue of Intestine.
DAY10 DATE 5-4-18	-	Microtomy: Staining of different tissue slides in H & E Stains.
DAY11 DATE 6-4-18	-	-
DAY12 DATE 7-4-18	-	-
DAY13 DATE 9-4-18	-	Microtomy: Staining of different tissue slides in H & E Stains.
DAY14 DATE 10-4-18	-	Staining of different tissue slides in H & E Stains.
DAY15 DATE 11-4-18	-	Staining of different tissue slides in H & E Stains.
DAY16 DATE 12-4-18	-	Staining of different tissue slides in H & E Stains.
DAY17 DATE 13-4-18	-	-
DAY18 DATE 14-4-18	HOLIDAY	-
DAY19 DATE 16-4-18	-	Staining of different tissue slides in H & E Stains.
DAY20 DATE 17-4-18	-	Staining of different tissue slides in H & E Stains.
DAY21 DATE 18-4-18	HOLIDAY	HOLIDAY
DAY22 DATE 19-4-18	-	Staining of different tissue slides in H & E Stains.
DAY23 DATE 20-4-18	-	-
	-	-

NAME OF TEACHER