

# Siddhinath Mahavidyalaya

Department of Zoology

Teaching plan of Session 2019-2020

SEM- 3<sup>rd</sup> Paper- GE-3T & GE-3P

Unit / Module	Teacher	No of lectures	To be completed by
<b>Unit-1</b> Aquatic Biomes	<b>Pabitra Goswami</b>	08	Tentatively 2 months
<b>Unit-2</b> Freshwater Biology (Part 1)		10	
<b>Lab-1</b> Identification of macrophytes in a lake		04	
<b>Lab-2</b> Identification of phytoplanktons		04	
<b>Unit-2</b> Freshwater Biology (Part 2)		12	
<b>Lab-3</b> Identification of zooplanktons		03	
<b>Unit-3</b> Marine Biology (Part 1)	<b>Pabitra Goswami</b>	08	Tentatively 2 months
<b>Lab-4</b> Determination the amount of turbidity in water sample		03	
<b>Unit-3</b> Marine Biology (Part 2)		08	
<b>Lab-5</b> Determination the amount of dissolved O <sub>2</sub> & CO <sub>2</sub> in water sample		05	
<b>Lab-6</b> Determination the amount of alkalinity of water sample		03	
<b>Unit-4</b> Management of Aquatic Resources (Part 1)		05	
<b>Lab-7</b> Instruments used in limnology		06	
<b>Unit-4</b> Management of Aquatic Resources (Part 2)		05	
<b>Lab-8</b> Determination the area of a lake using graphimetric and gravimetric method	04		

# Siddhinath Mahavidyalaya

Department of Zoology

Teaching plan of Session 2019-2020

SEM- 4<sup>th</sup> Paper- GE-4T & GE-4P

Unit / Module	Teacher	No of lectures	To be completed by
<b>Unit-1</b> Introduction	<b>Pabitra Goswami</b>	10	Tentatively 2 months
<b>Unit-2</b> Climate Change		10	
<b>Lab-1</b> Determination of pH in water sample		03	
<b>Lab-2</b> Determination of pH in soil sample		03	
<b>Unit-3</b> Pollution		12	
<b>Lab-3</b> Determination of Cl in water sample		03	
<b>Lab-4</b> Determination of Cl in soil sample	<b>Pabitra Goswami</b>	03	Tentatively 2 months
<b>Unit-4</b> Waste Management Technologies (Part 1)		12	
<b>Lab-5</b> Determination of SO <sub>4</sub> in water sample		03	
<b>Lab-6</b> Determination of SO <sub>4</sub> in soil sample		03	
<b>Unit-4</b> Waste Management Technologies (Part 2)		12	
<b>Lab-7</b> Determination of NO <sub>4</sub> in water sample		03	
<b>Lab-8</b> Determination of NO <sub>4</sub> in soil sample		03	
<b>Unit-5</b> Diseases		08	

# Siddhinath Mahavidyalaya

Department of Zoology

Teaching plan of Session 2019-2020

SEM- 3<sup>rd</sup> Paper- CC-3T & CC-3P

Unit / Module	Teacher	No of lectures	To be completed by
<b>Unit-1</b> Nerve and Muscle	<b>Pabitra Goswami</b>	10	Tentatively 2 months
<b>Lab-1</b> Preparation of hemin & hemochromogen crystals		03	
<b>Unit-2</b> Digestion		08	
<b>Lab-2</b> Study of permanent slides (Part 1)		03	
<b>Unit-3</b> Respiration		08	
<b>Lab-3</b> Study of permanent slides (Part 2)		03	
<b>Unit-4</b> Excretion	<b>Pabitra Goswami</b>	08	Tentatively 3 months
<b>Lab-4</b> Qualitative test (Part 1)		03	
<b>Unit-5</b> Cardiovascular System		08	
<b>Lab-5</b> Qualitative test (Part 2)		03	
<b>Lab-6</b> Study of permanent histological sections (Part 1)		03	
<b>Unit-6</b> Reproduction & Endocrine Glands		12	
<b>Unit-7</b> Carbohydrate Metabolism		10	
<b>Lab-7</b> Study of permanent histological sections (Part 2)		04	
<b>Unit-8</b> Lipid Metabolism		08	
<b>Unit-9</b> Protein Metabolism		08	
<b>Lab-8</b> Estimation of total protein in given solutions by Lowry's method.		05	
<b>Unit-10</b> Enzymes		10	
<b>Lab-9</b> Study of activity of salivary amylase under optimum conditions		05	

# Siddhinath Mahavidyalaya

Department of Zoology

Teaching plan of Session 2019-2020

SEM- 4<sup>th</sup> Paper- CC-4T & CC-4P

Unit / Module	Teacher	No of lectures	To be completed by
<b>Unit-1</b> Introduction to Genetics	<b>Pabitra Goswami</b>	10	Tentatively 2 months
<b>Lab-1</b> Study of Mendelian Inheritance & Gene interactions (Part 1)		04	
<b>Unit-2</b> Mendelian Genetics & its Extension		10	
<b>Lab-2</b> Study of Mendelian Inheritance & Gene interactions (Part 2)		04	
<b>Unit-3</b> Linkage, Crossing Over & Mapping		12	
<b>Lab-3</b> Study of linkage, mapping etc		06	
<b>Unit-4</b> Mutations	<b>Pabitra Goswami</b>	08	Tentatively 3 months
<b>Lab-4</b> Study of human karyotypes		04	
<b>Unit-5</b> Sex Determination		08	
<b>Lab-5</b> Study of fossil evidences from model		04	
<b>Lab-6</b> Study of homology from pictures		03	
<b>Unit-6</b> History of Life		07	
<b>Unit-7</b> Introduction to Evolutionary Theories		10	
<b>Lab-7</b> Study of analogy		04	
<b>Unit-8</b> Direct Evidences of Evolution		08	
<b>Unit-9</b> Processes of Evolutionary Change		10	
<b>Lab-8</b> Study of Charts		05	
<b>Unit-10</b> Species Concept		10	
<b>Lab-9</b> Submission of Project Report	05		
<b>Unit-11</b> Macro-evolution	10		
<b>Unit-12</b> Extinction	10		